

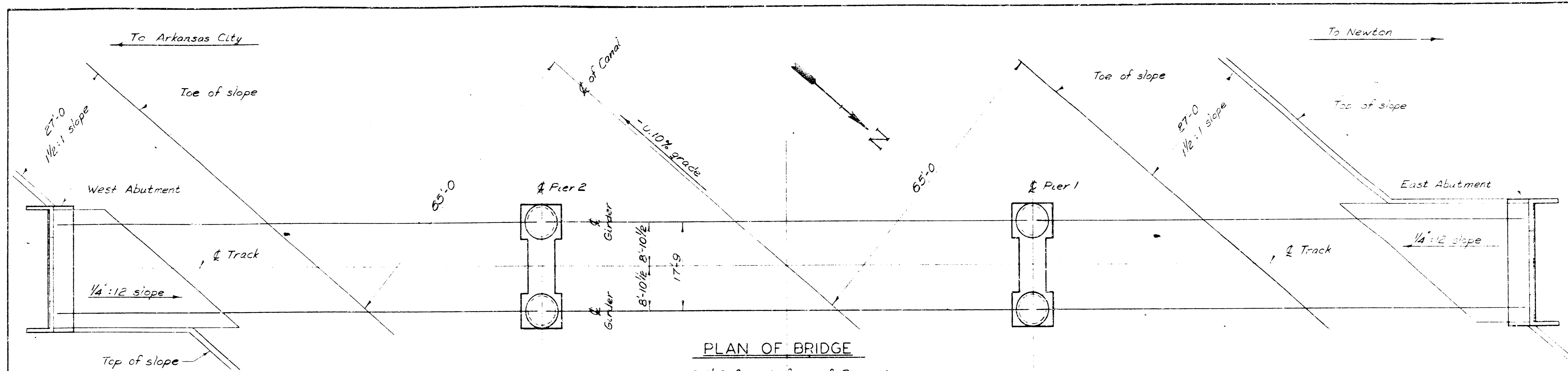
BASE OF RAIL	TO MASONRY	TO CLEARANCE
Tie & Tie Plate	7 3/4	7 3/4
Ballast	8	8
Deck	4	4
Floorbeam	1-8	1-8
To back of Flange L	2 1/8	2 1/8
Sole Plate	0 7/8	2 7/8 (#-Cov. R's)
Cast Shoe	2'-2 1/8	0 3/4 Rivet Hd.
Total	5'-8 7/8	3'-9 1/2

468-76-245-81104 - 000-000-007
 3-105'-6 S.T. DD'-Spans on Tangent

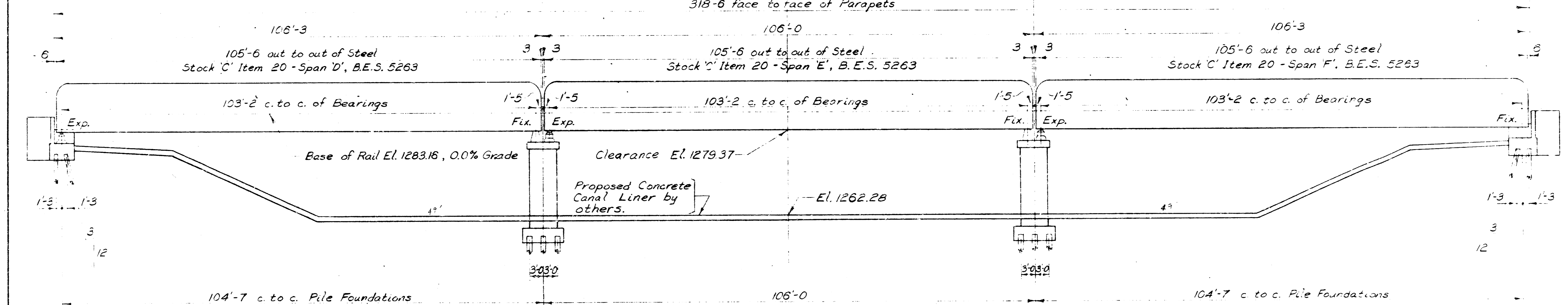
B.E.S. 2215
THE A. T. & S. F. RY. COMPANY
 BR. 215.9, 3RD DIST. MIDDLE DIVISION
 GENERAL PLAN

SCALE: NONE
 CORRECT: *[Signature]*
 CHICAGO, ILL., MAY 1979
 APPROVED: *[Signature]*

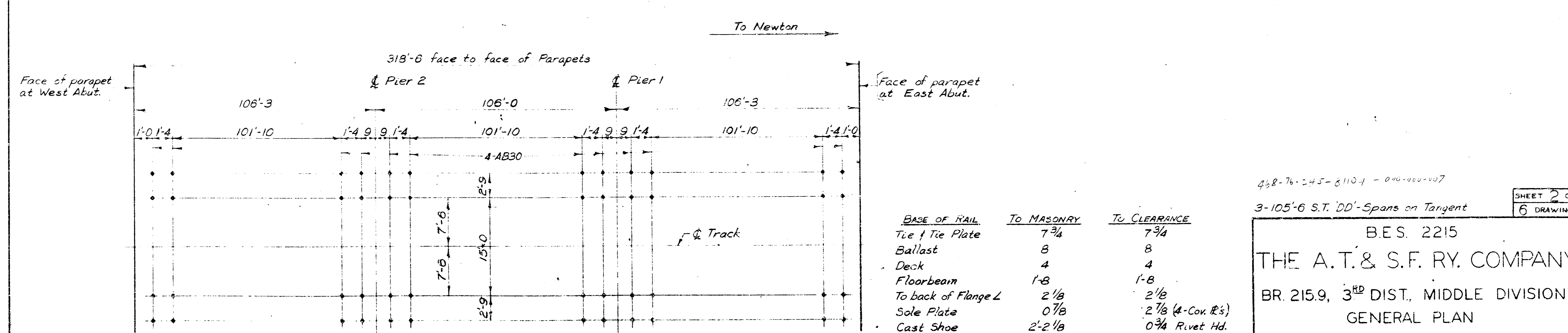
BRIDGE ENGINEER SYSTEM CHIEF ENGINEER



PLAN OF BRIDGE



ELEVATION AT CL OF TRACK



ANCHOR BOLT LOCATION DIAGRAM
Anchor bolts AB30 to project 3 1/2" above bridge seat.

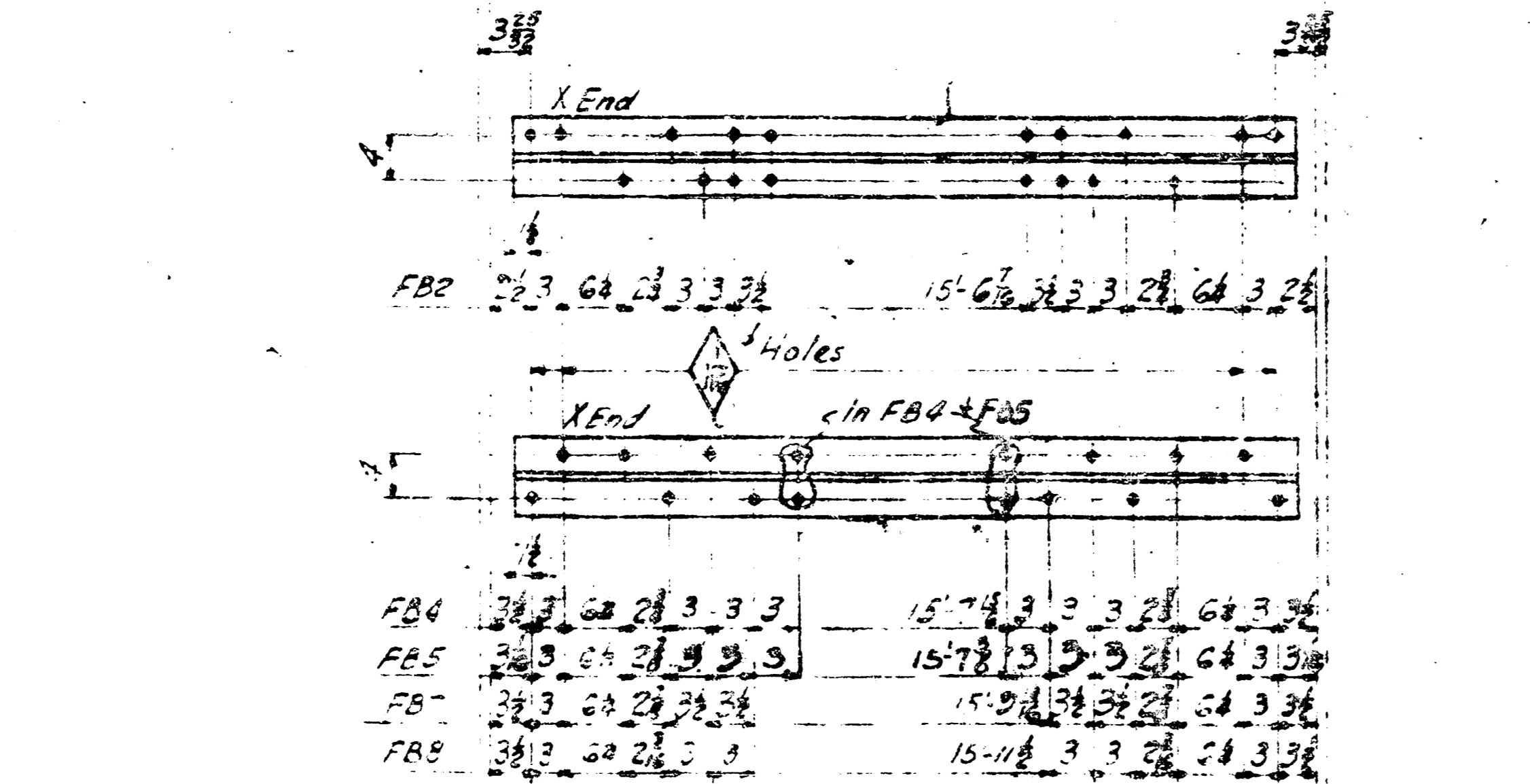
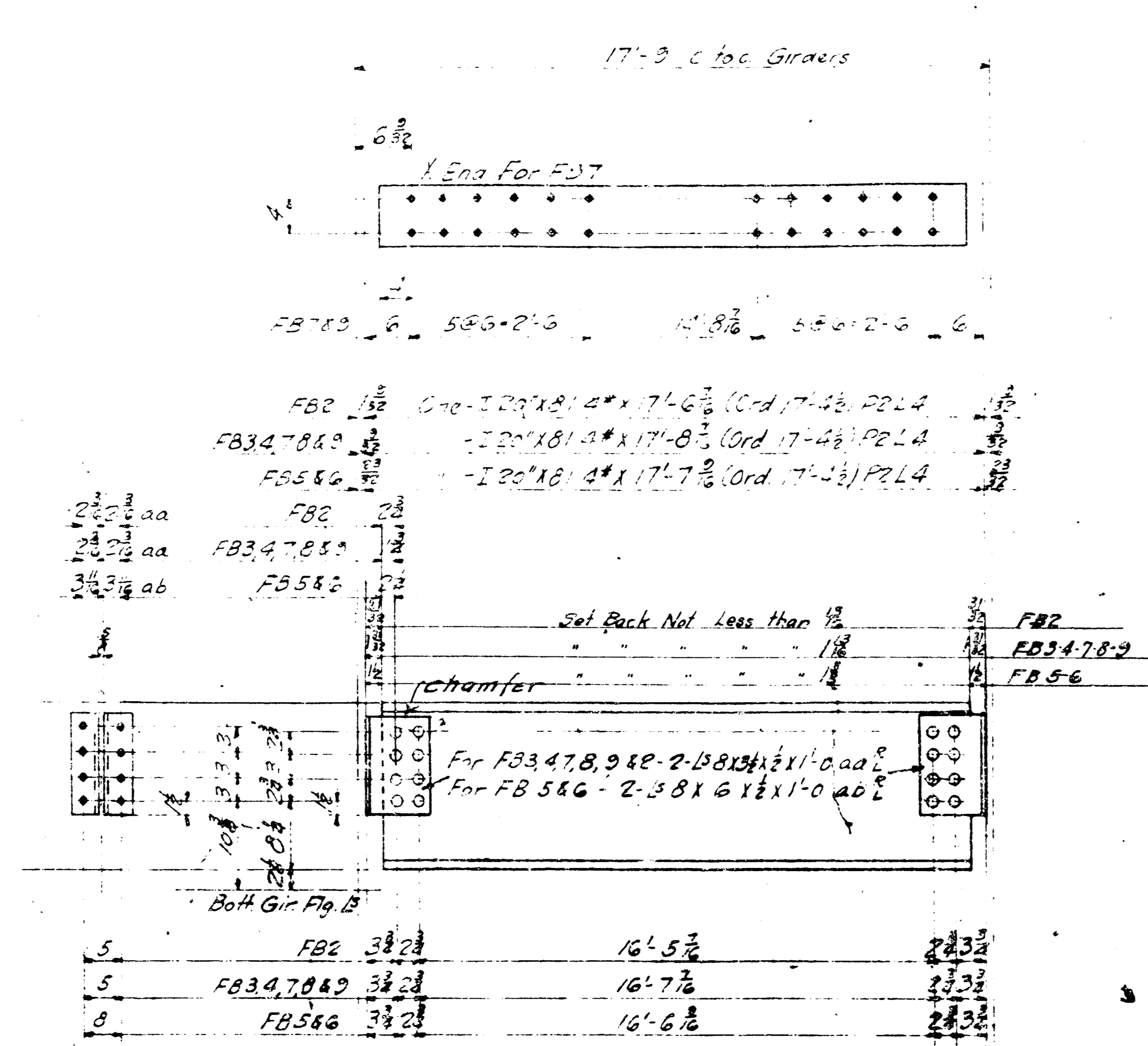
	TO MASONRY	TO CLEARANCE
BASE OF RAIL		
Tie & Tie Plate	7 3/4	7 3/4
Ballast	8	8
Deck	4	4
Floorbeam	1-8	1-8
To back of Flange L	2 1/8	2 1/8
Sole Plate	0 7/8	2 7/8 (4-Cov. R's)
Cast Shoe	2-2 1/8	0 3/4 Rivet Hd.
Total	5-8 7/8	3-9 1/2

468-76-245-81104 - 046-060-107
3-105'-6" S.T. DD'-Spans on Tangent

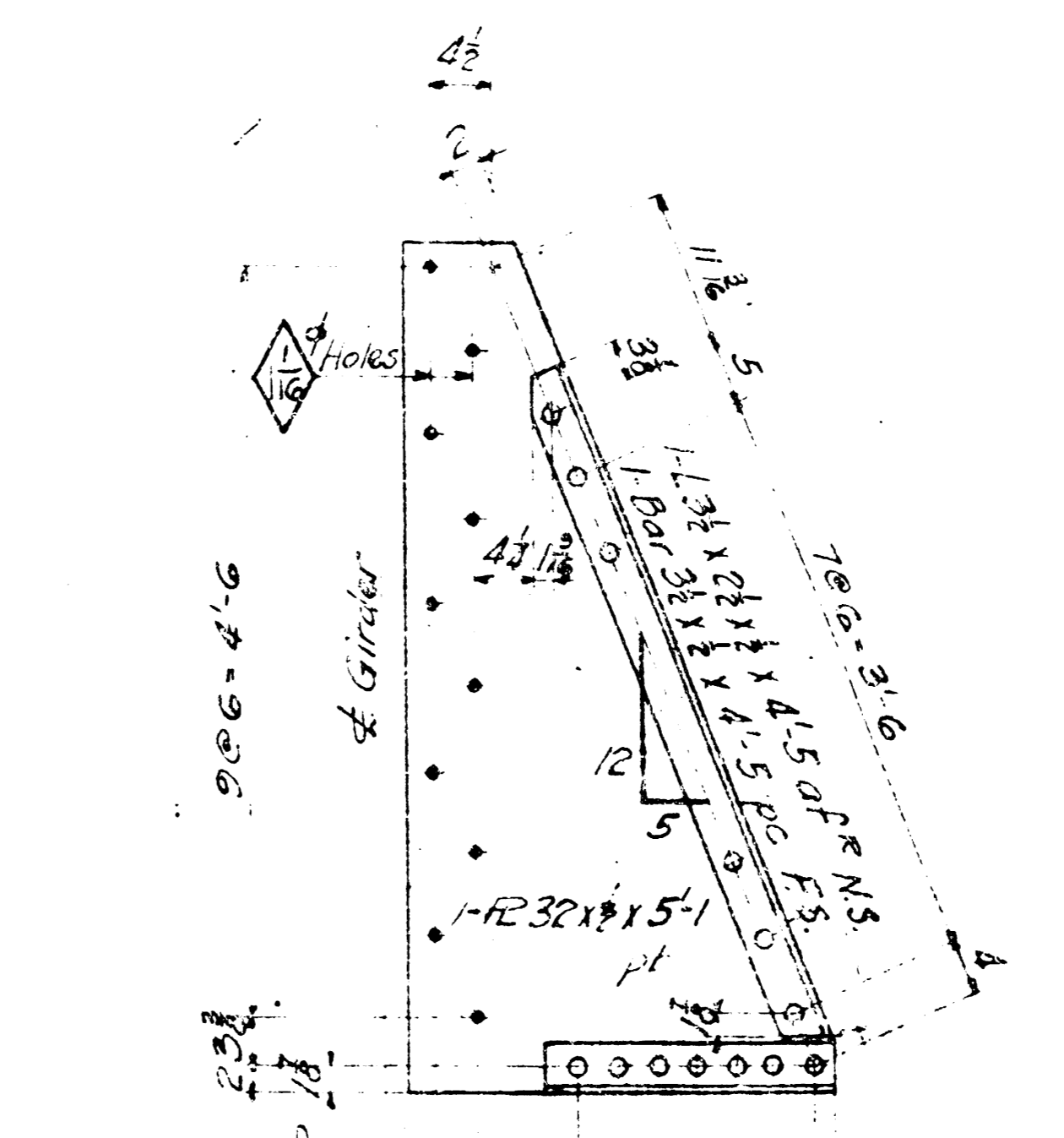
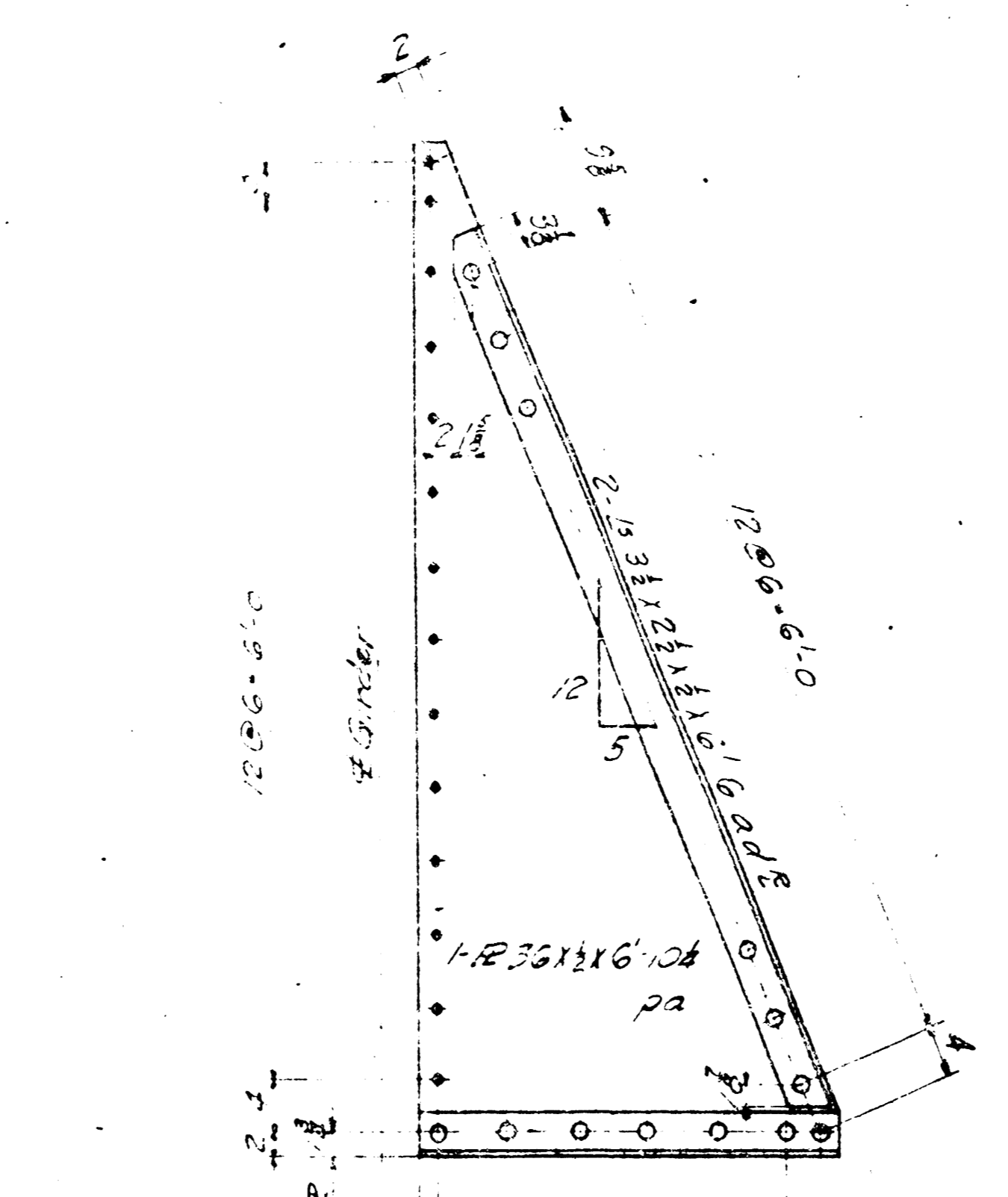
SHEET 2 OF 6 DRAWINGS

B.E.S. 2215
THE A.T. & S.F. RY. COMPANY
BR. 215.9, 3RD DIST. MIDDLE DIVISION
GENERAL PLAN

SCALE: NONE
CORRECT: _____
CHICAGO, ILL., MAY 1979
APPROVED: _____
BRIDGE ENGINEER SYSTEM CHIEF ENGINEER



FLOOR BEAMS



Beam No.	Beam Size	Beam Location	Beam Spacing	Beam Support
FB2	120-120-181-4" x 7-6 3/8	17'-4"	17'-4"	P2L4
FB3	120-181-3" x 17-8 1/2	17'-4"	17'-4"	P2L4
FB5	120-181-4" x 17-7 3/8	17'-4"	17'-4"	P2L4
FB4	2-B8 1/2 x 11'-0"	15'-7 1/2"	15'-7 1/2"	3 3/4"
FB5	2-B8 1/2 x 11'-0"	15'-7 1/2"	15'-7 1/2"	3 3/4"
FB7	2-B8 1/2 x 11'-0"	15'-0 1/2"	15'-0 1/2"	3 3/4"
FB9	2-B8 1/2 x 11'-0"	15'-11 1/2"	15'-11 1/2"	3 3/4"

CONSTRUCTION NOTES

Ends of beams to be chamfered unless noted.

Spacing: 1/8"

Shop Fabric: One coat with Use of primer.

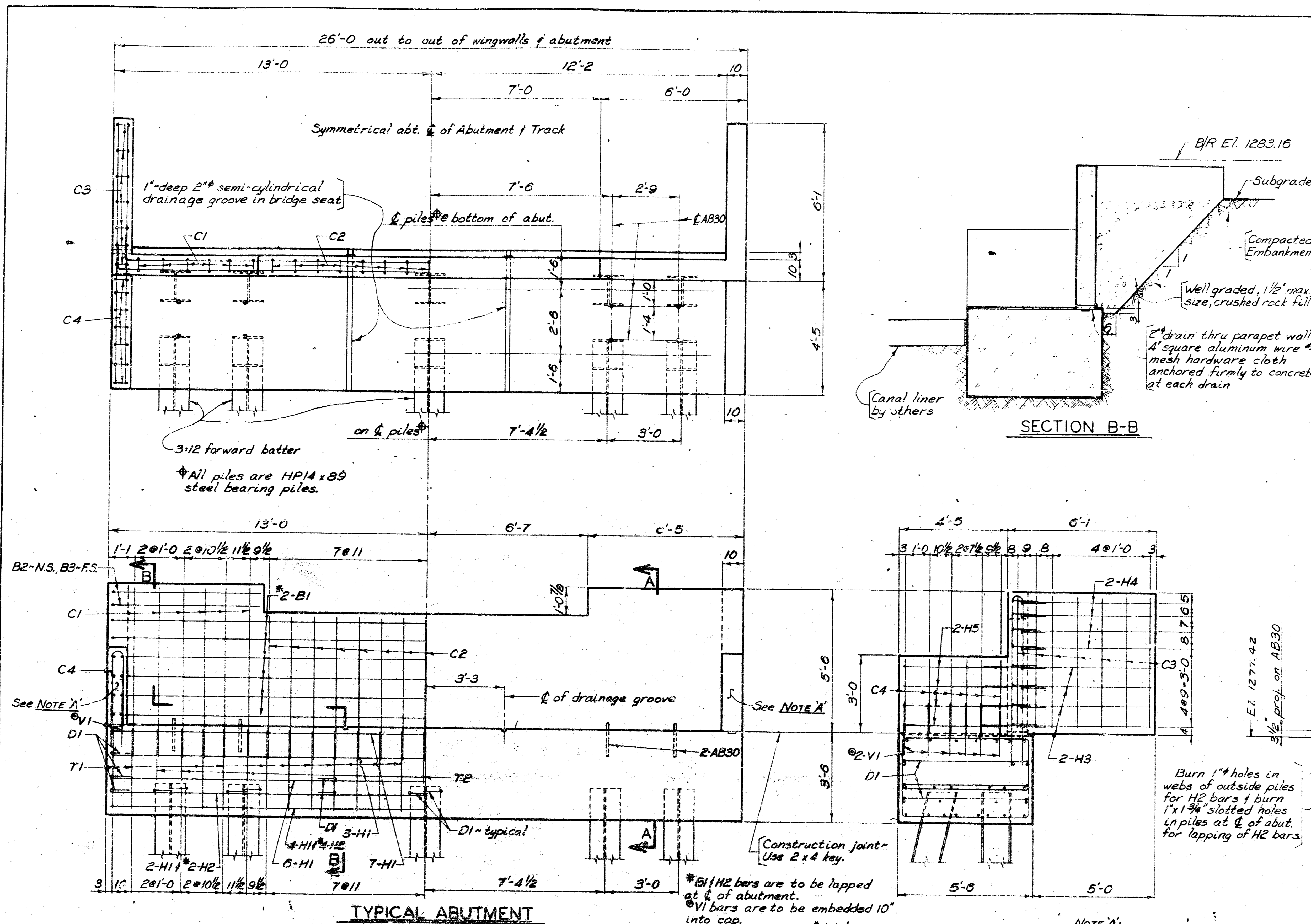
REVISIONS

NO. 1

DATE

BY

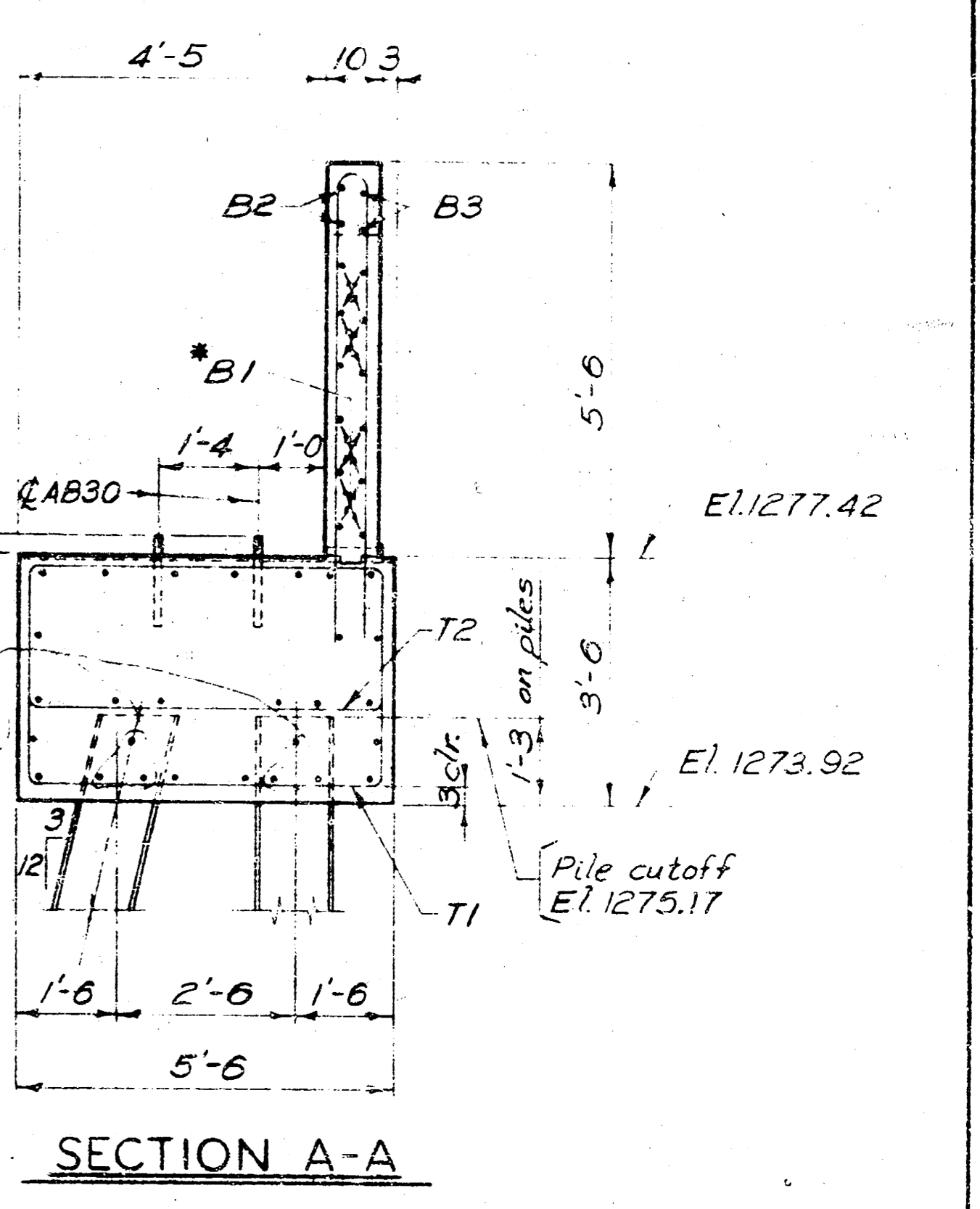
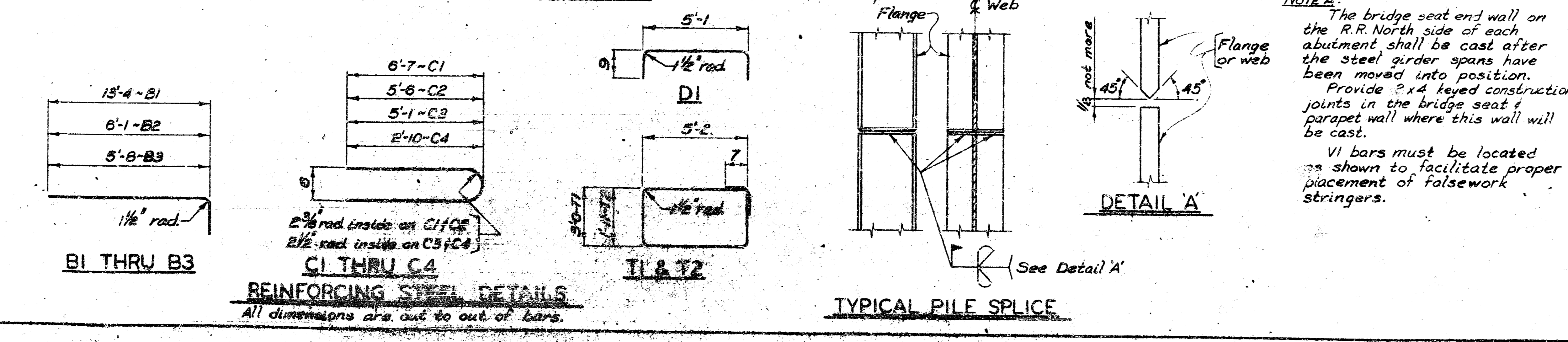
DESCRIPTION



REINFORCEMENT REQUIRED FOR ONE ABUTMENT					
NO.	MARK	SIZE	LENGTH	SHAPE	GRADE
22	H1	#6	251.9	STRAIGHT	60
12	H2	#6	131.7		60
16	H3	#4	11.1		40
16	H4	#4	5.8		40
16	H5	#4	4.3		40
24	V1	#4	2.0		40
24	B1	#4	14.4	SEE DETAIL	40
4	B2	#4	7.1		40
4	C1	#4	6.8		40
12	C2	#5	13.5		40
15	C3	#4	13.5		40
14	C4	#4	13.5		40
12	D1	#4	5.1		40
20	D1	#4	1.7		40
22	T1	#4	1.7		40
2	T2	#4	1.7		40

PILES AND ANCHOR BOLTS ALSO ARE OFFERT: ON SHEET 5.
SEE SHEET 4 FOR NOTES.

ESTIMATED QUANTITIES FOR ONE ABUTMENT		
REINFORCEMENT - GRADE 40	1384	LBS.
REINFORCEMENT - GRADE 60	1093	LBS.
3500 P.S.I. CONCRETE	25.1	CU. YDS.

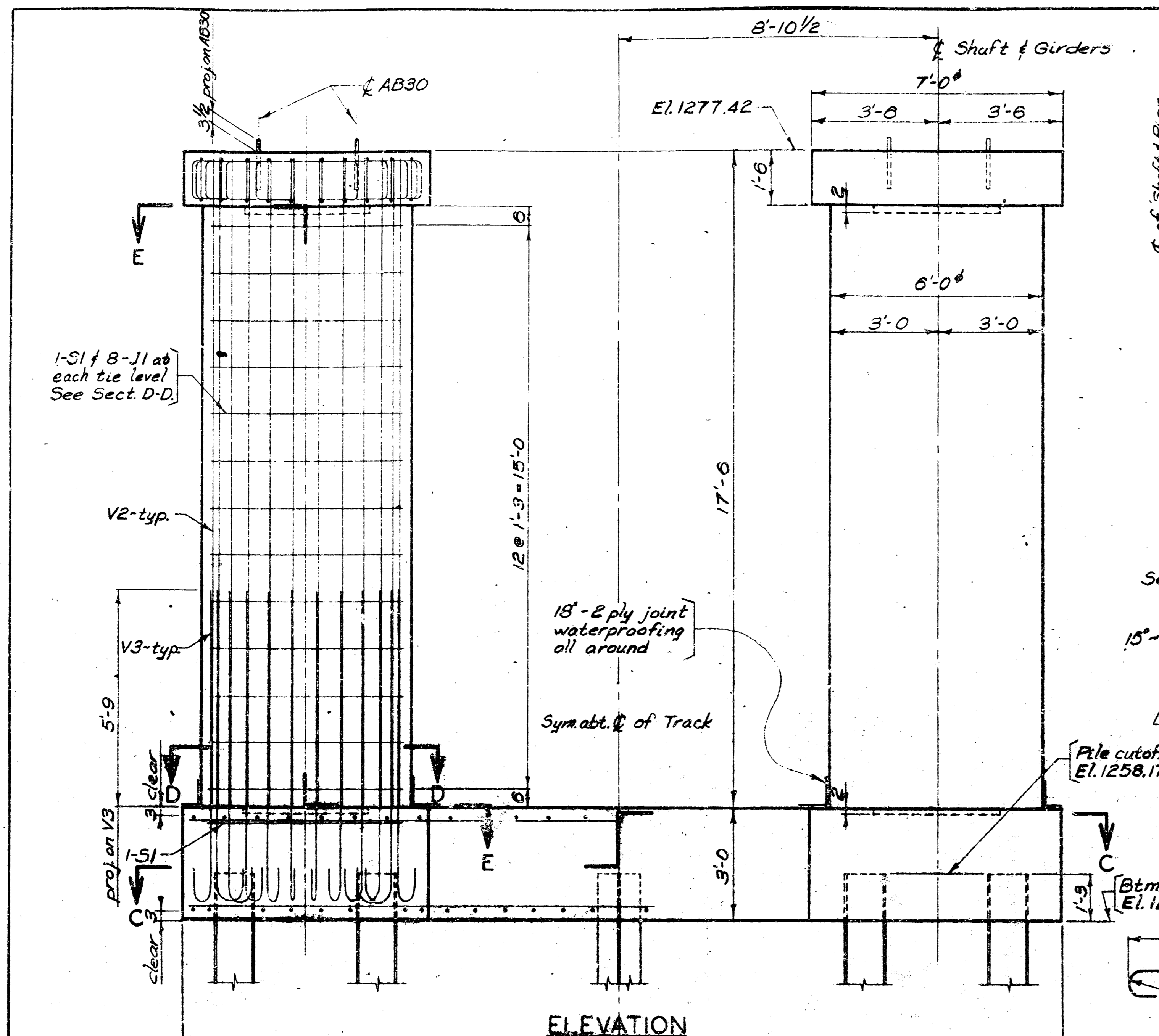


NOTE A:
The bridge seat end wall on the R.R. North side of each abutment shall be cast after the steel girder spans have been moved into position. Provide 2x4 keyed construction joints in the bridge seat & parapet wall where this wall will be cast.
V1 bars must be located as shown to facilitate proper placement of falsework stringers.

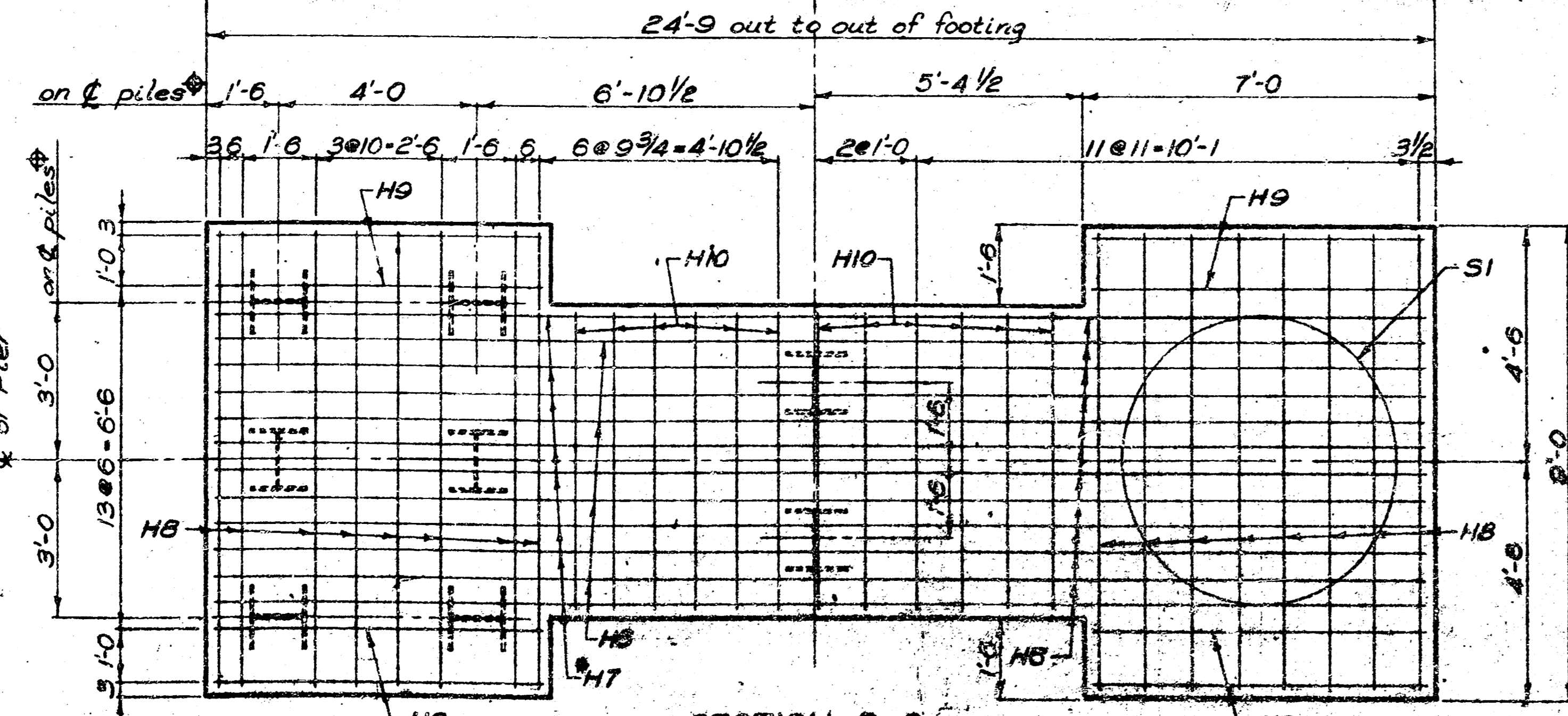
SHEET 3 OF 6 DRAWINGS

B.E.S. 2215
THE A.T. & S.F. RY. COMPANY
BR. 215.9, 3RD DIST., MIDDLE DIVISION
TYPICAL ABUTMENT

SCALE: NONE
CORRECT: _____
CHICAGO, ILL., MAY 1979
APPROVED: _____
BRIDGE ENGINEER SYSTEM CHIEF ENGINEER

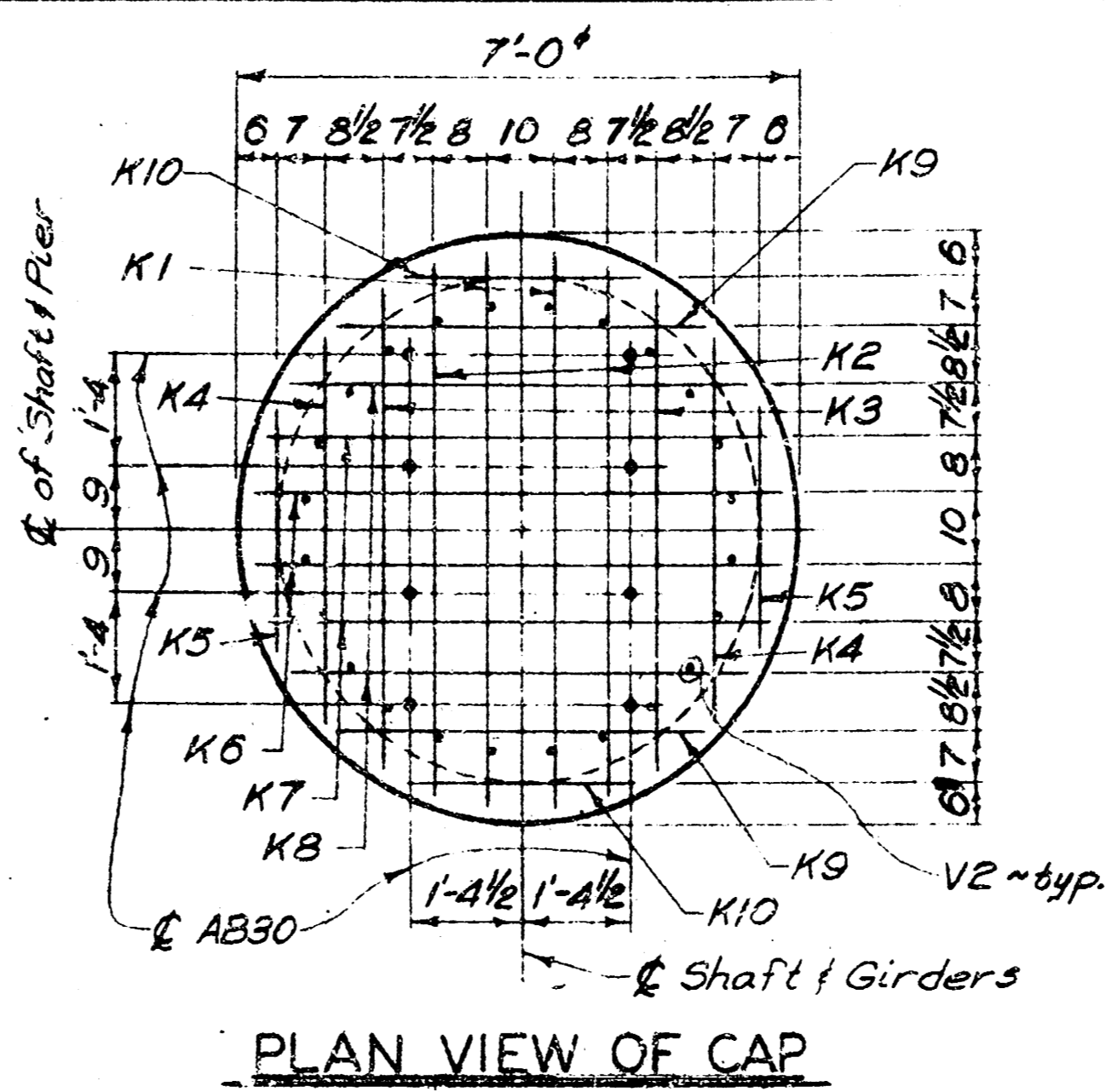


Note:
To facilitate placement of horizontal bars through piles at bottom of footing, burn 1/4\"/>

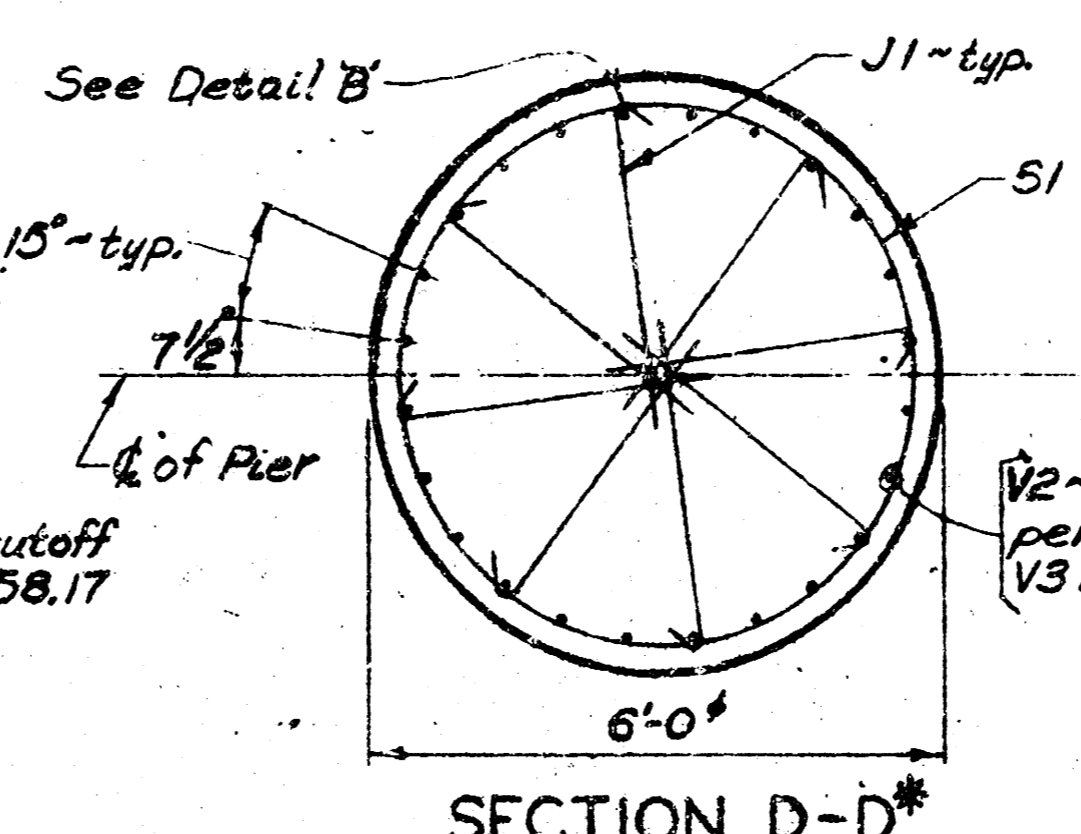


Reinforcement in bottom of footing
*All piles are HP14 x 39 steel bearing piles.

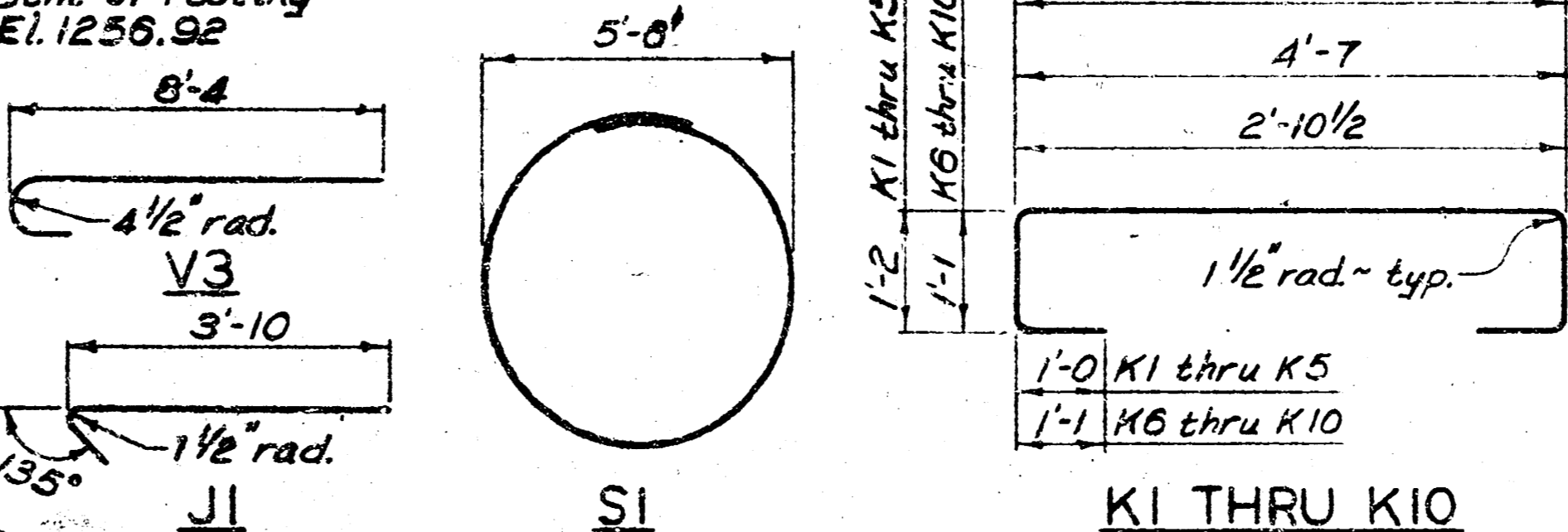
Reinforcement in top of footing
*Bar H7 to be lapped at ϕ of footing.



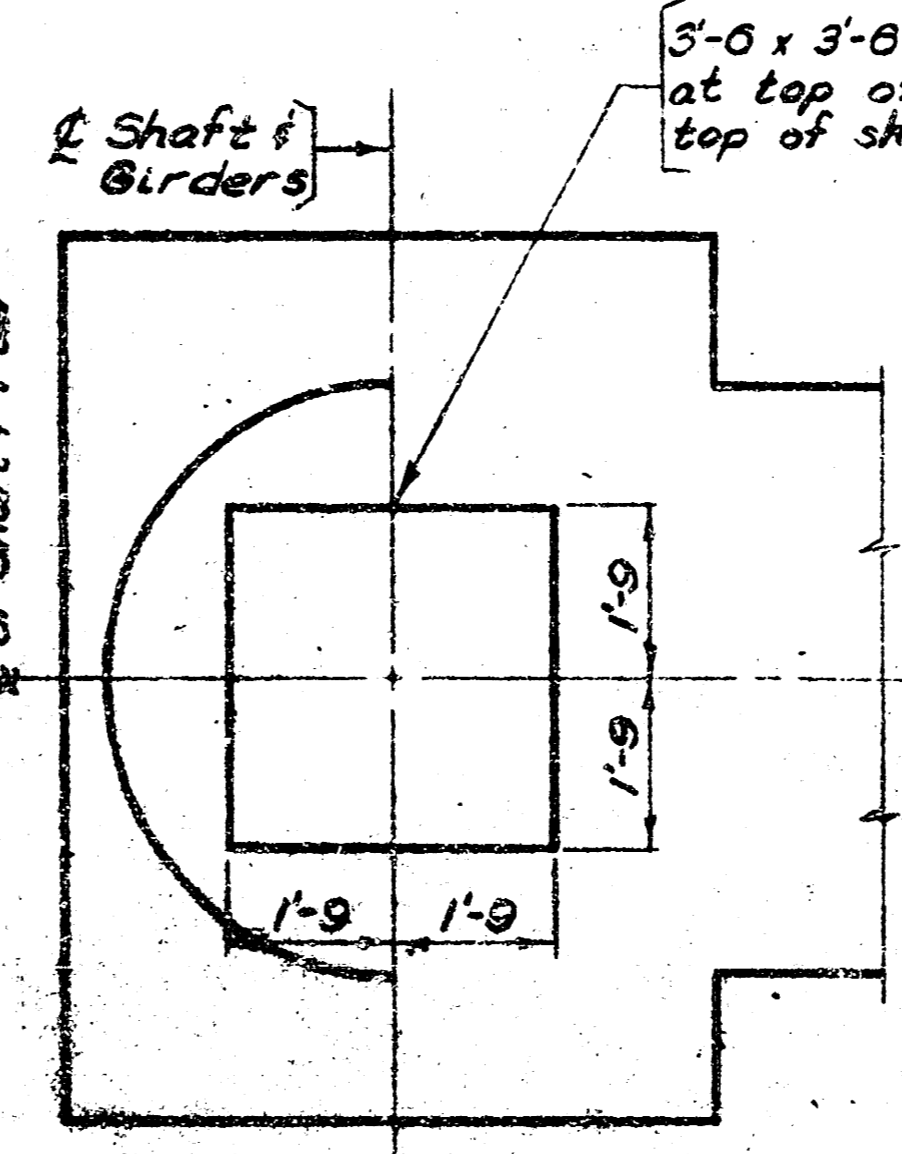
PLAN VIEW OF CAP



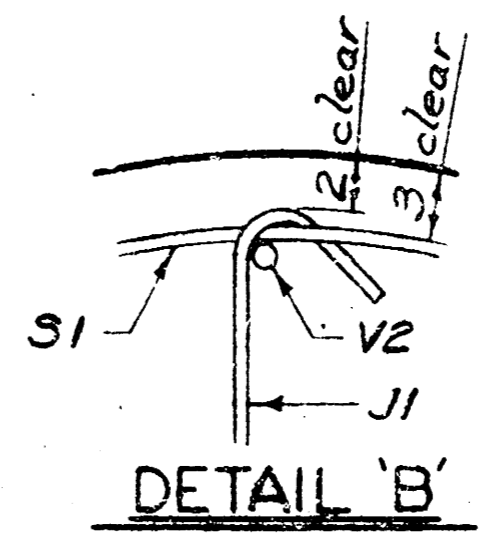
SECTION D-D*



REINFORCING STEEL DETAILS
All dimensions are out to out of bars.



SECTION E-E
Reinforcement not shown



DETAIL 'B'

REQUIRED FOR ONE PIER REINFORCEMENT					
NO.	MARK	SIZE	LENGTH	SHAPE	GRADE
48	V2	#9	17'-4"	STRAIGHT	60
48	V3	#9	9'-8"		60
16	H6	#9	24'-6"		60
16	H7	#9	15'-1"		60
32	H8	#6	8'-8"		60
16	H9	#6	6'-8"		60
23	H10	#6	5'-8"		60
208	J1	#4	4'-5"	SEE DETAIL	40
28	S1	#4	18'-6"		40
4	K1	#4	10'-11"		40
4	K2	#4	10'-8"		40
4	K3	#4	10'-1"		40
4	K4	#4	8'-11"		40
4	K5	#4	7'-3"		40
4	K6	#4	10'-11"		40
4	K7	#4	10'-8"		40
4	K8	#4	10'-1"		40
4	K9	#4	8'-11"		40
4	K10	#4	7'-3"		40

MISCELLANEOUS	
1	GALLON ASPHALTIC PRIMER, A.S.T.M. D-41
43	LBS. ASPHALT, A.S.T.M. D-449, TYPE B
76	LIN. FT. OF 18" WIDE ASPHALT TREATED COTTON FABRIC, A.S.T.M. D-173

PILES AND ANCHOR BOLTS AB30 ARE ORDERED ON SHEET 5.

NOTES:
STEEL BEARING PILES: PILES SHALL BE DRIVEN IN ACCORDANCE WITH SECTION 4 OF THE A.T. & S.F. STANDARD SPECIFICATIONS C.E. 50153-58. TO REFUSAL IF POSSIBLE, OR TO A MINIMUM ULTIMATE RESISTANCE OF 200 TONS BY THE HILEY FORMULA.
THAT PORTION OF PILES WHICH IS TO BE ENCASED IN CONCRETE SHALL FOR THE PURPOSE OF BOND, BE CLEANED OF ALL DIRT, OIL AND GREASE AND ALL LOOSE SCALE AND RUST BEFORE CONCRETE IS PLACED.
REINFORCEMENT: MILD STEEL REINFORCEMENT SHALL BE AS PER A.S.T.M. DESIGNATION: A615 OR A617, GRADE 40 OR 60, AS DESIGNATED ON THE PLANS.
FABRICATION OF REINFORCEMENT SHALL BE AS PER CHAPTER 7 OF THE C.R.S.I. MANUAL OF STANDARD PRACTICE.
PLACEMENT OF REINFORCEMENT SHALL BE AS PER SECTION 6 OF THE A.T. & S.F. STANDARD SPECIFICATIONS C.E. 50153-58. UNLESS OTHERWISE NOTED, THE MINIMUM CONCRETE COVER ON REINFORCEMENT SHALL BE TWO INCHES.
CAST-IN-PLACE CONCRETE: ALL CONCRETE AND CONCRETE WORK SHALL BE AS PER SECTION 6 OF THE A.T. & S.F. STANDARD SPECIFICATIONS C.E. 50153-58.
ALL CONCRETE SHALL BE AIR-ENTRAINED CONTAINING NOT LESS THAN 4 PERCENT NOR MORE THAN 6 PERCENT AIR BY VOLUME AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 p.s.i. AT 28 DAYS. MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE ONE INCH.
ALL CONSTRUCTION JOINTS SHALL BE CLEANED TO THE EXTENT THAT AGGREGATE IS EXPOSED BEFORE FRESH CONCRETE IS PLACED AGAINST THE SURFACE OF THE JOINT.
BRIDGE SEATS SHALL BE FINISHED LEVEL WITH A WOOD FLOAT.
ANCHOR BOLTS: ANCHOR BOLTS AB30 MAY BE CAST-IN-PLACE OR SET IN 2-1/4" DIA. DRILLED HOLES WITH NON-SHRINK GROUT.
JOINT WATERPROOFING AT PILES: JOINT WATERPROOFING FOR THE CONSTRUCTION JOINT BETWEEN THE FOOTINGS AND PIER SHAFTS SHALL BE AS PER PARAGRAPH E.14 OF SECTION 6 OF THE A.T. & S.F. STANDARD SPECIFICATIONS C.E. 50153-58.

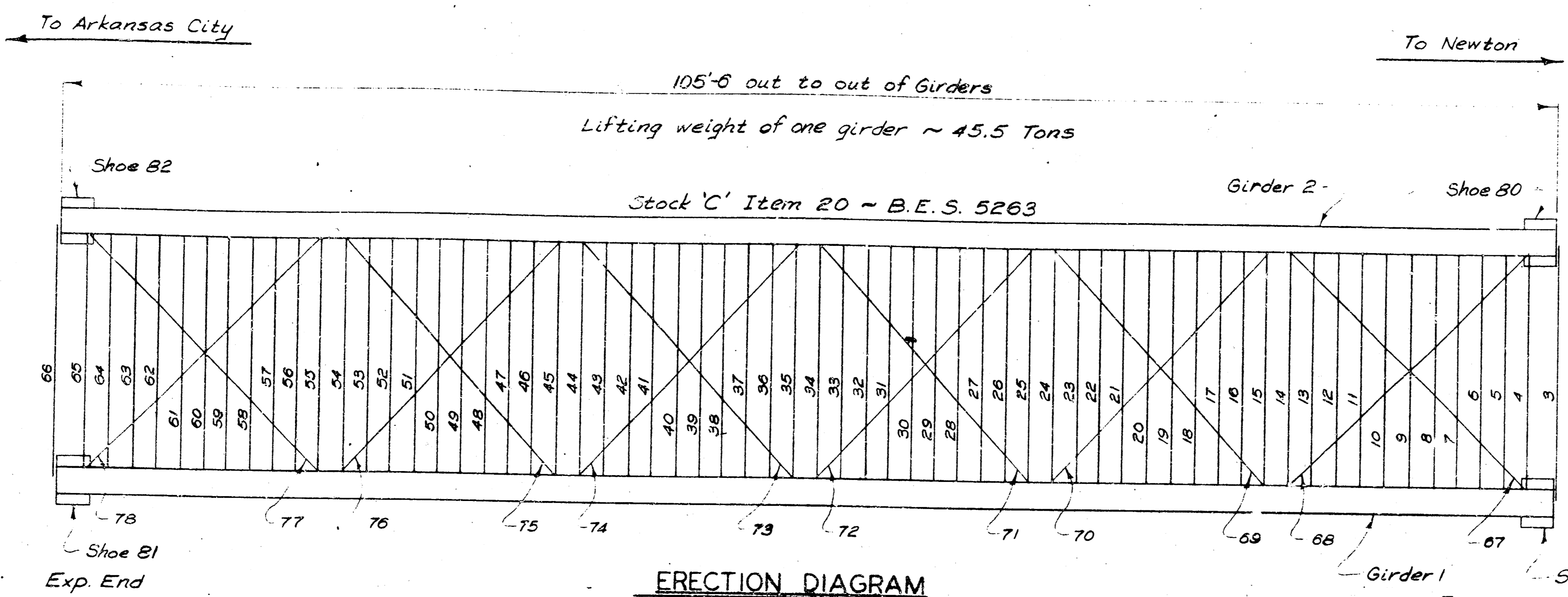
ESTIMATED QUANTITIES FOR ONE PIER

REINFORCEMENT - GRADE 40	1215 LBS.
REINFORCEMENT - GRADE 60	7335 LBS.
3500 p.s.i. CONCRETE	59.0 CU. YDS.
JOINT WATERPROOFING	38 LIN. FT.

For "Typical Pile Splice" detail, see Sheet 3.
SHEET 4 OF 6 DRAWINGS

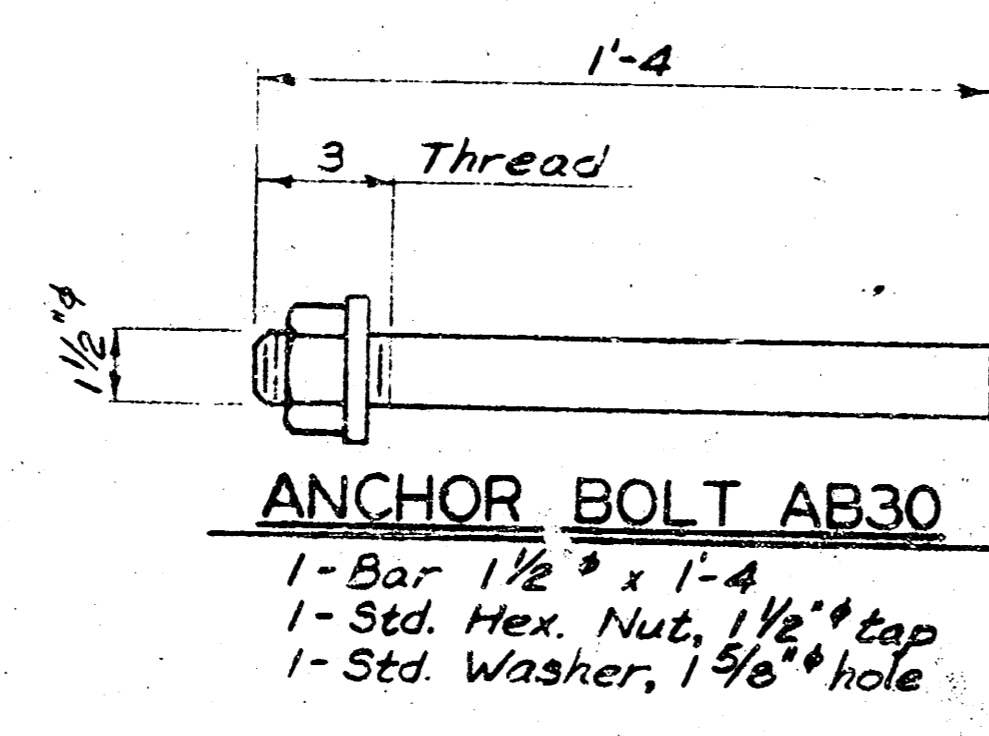
B.E.S. 2215
THE A.T. & S.F. RY. COMPANY
BR. 215.9, 3RD DIST., MIDDLE DIVISION
PIERS 1 & 2

SCALE: NONE
CHICAGO, ILL., MAY 1978
APPROVED: [Signature]
ENGINEER SYSTEM CHIEF ENGINEER

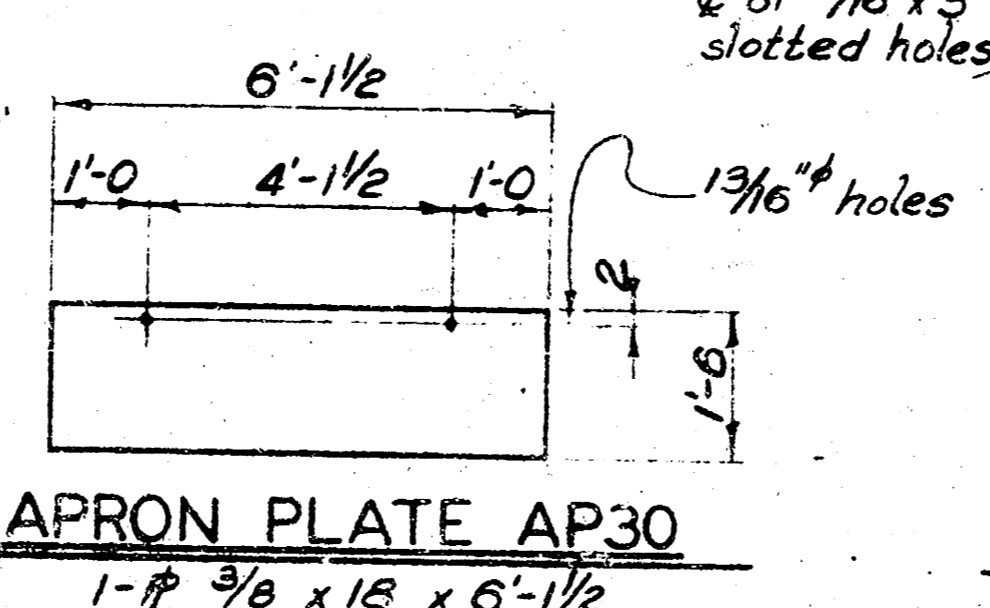


ERECTION DIAGRAM

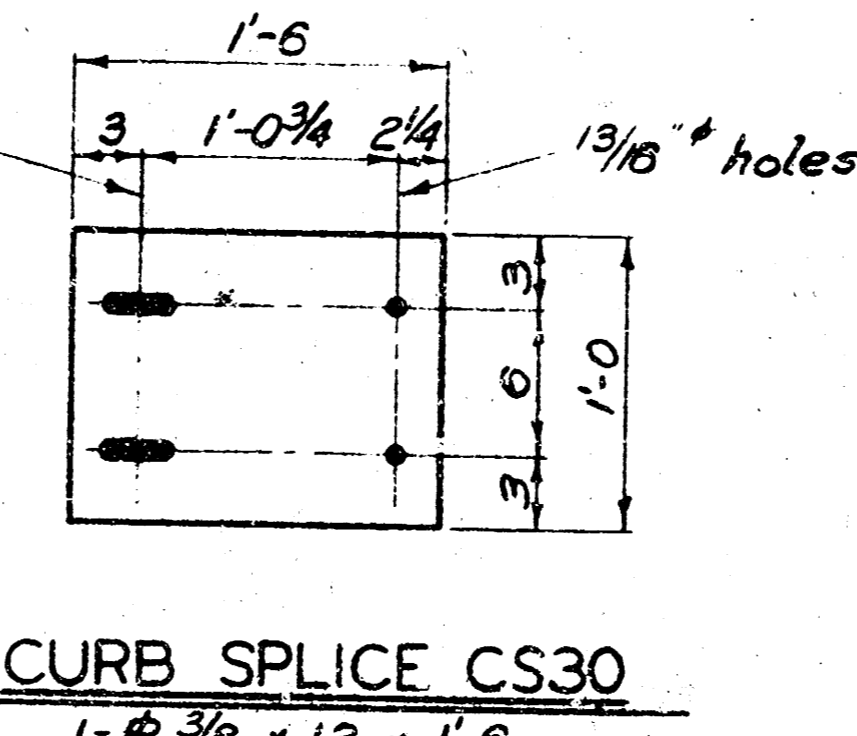
Marks for the 3-105'-6 spans will be preceded by a 'D', 'E' or 'F' indicating the span to which parts so marked belong. Piece marks are on the fixed end of girders and on the end of floorbeams and lateral bars which connect to Girder 1. For location of 105'-6 Spans D, E and F, see Sheet 2.



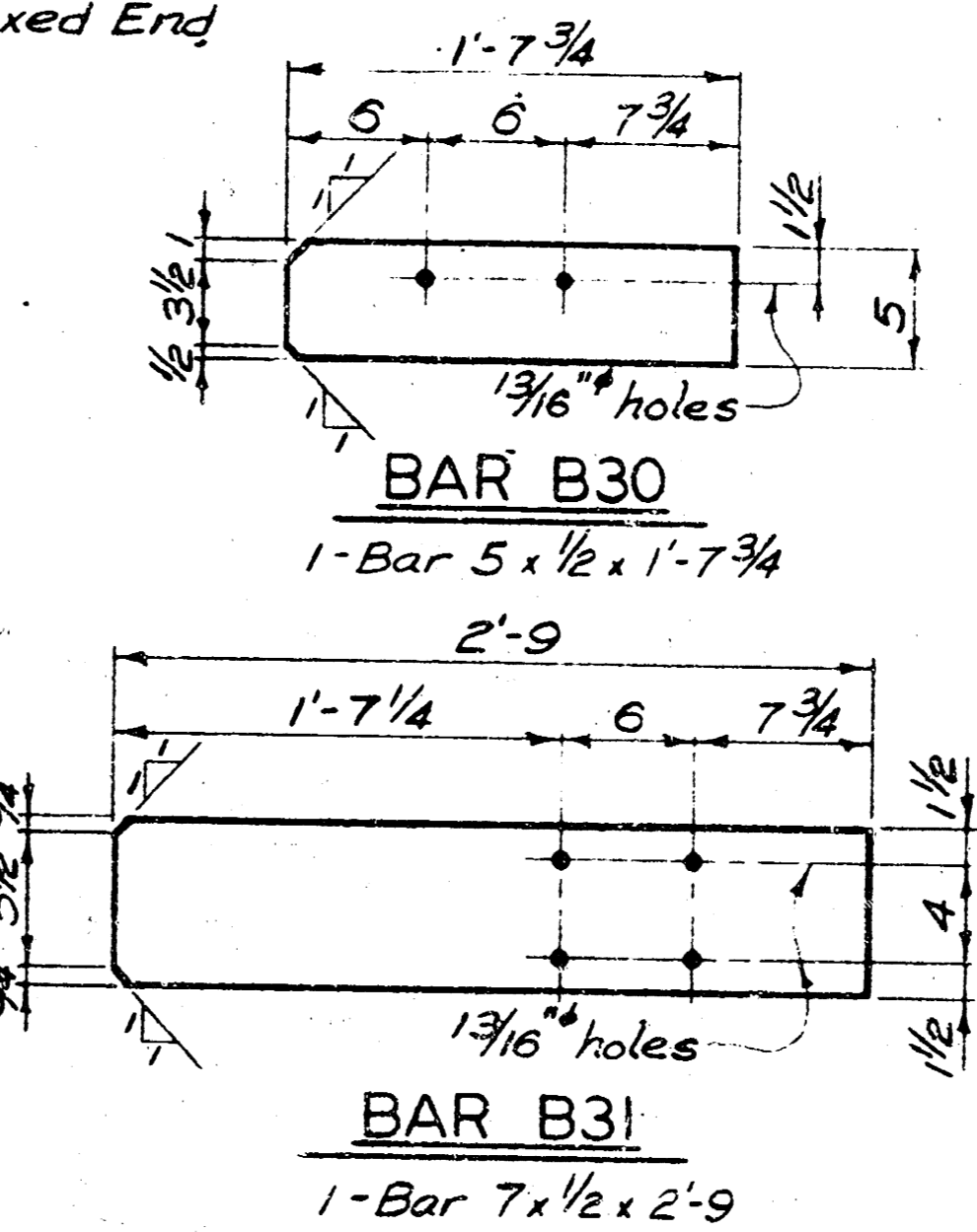
ANCHOR BOLT AB30
 1-Bar 1 1/2" x 1'-4"
 1-Std. Hex. Nut, 1 1/2" tap
 1-Std. Washer, 1 3/8" hole



APRON PLATE AP30
 1-12 3/8 x 18 x 6-1/2

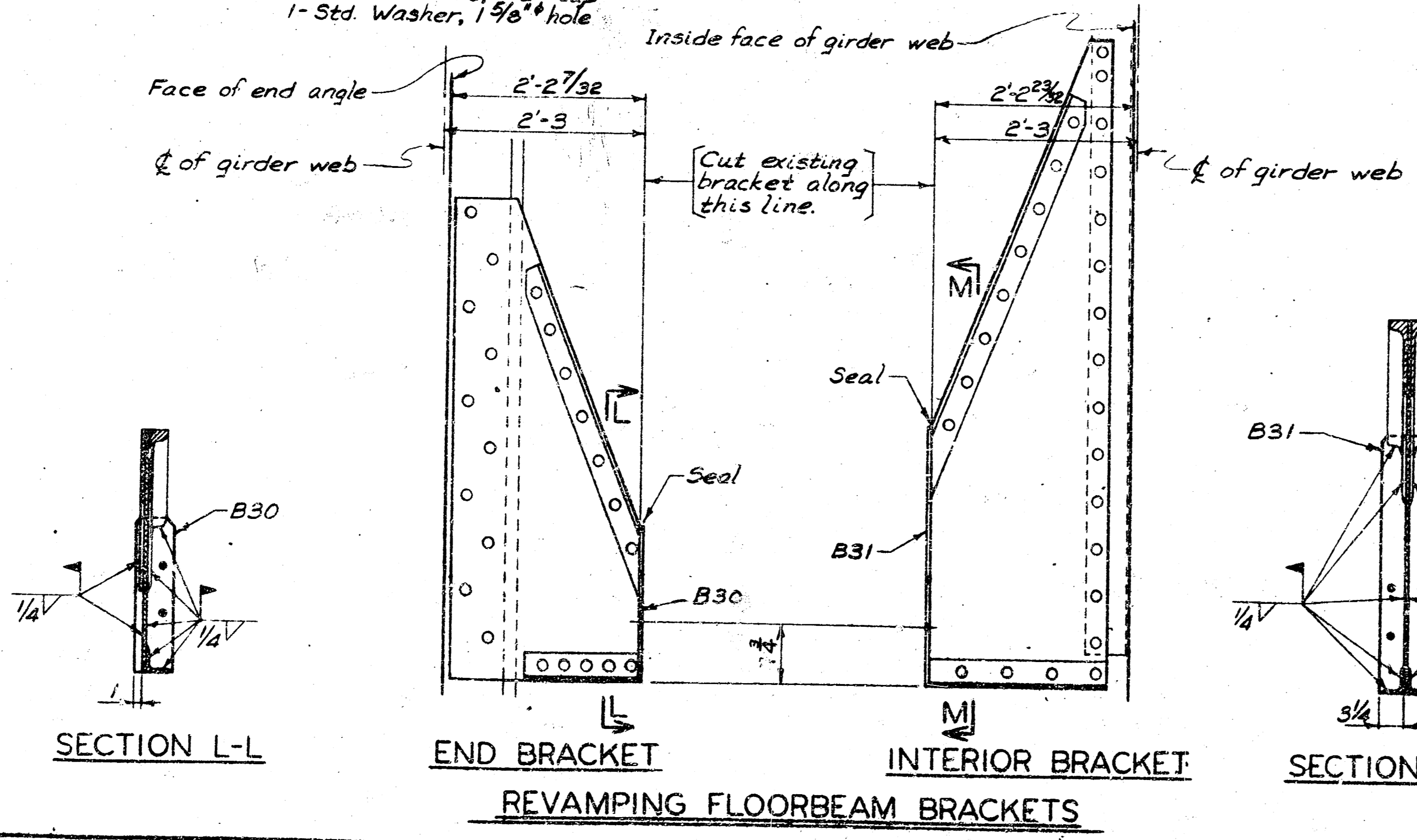


CURB SPLICE CS30
 1-12 3/8 x 12 x 1'-6



BAR B30
 1-Bar 5 x 1/2 x 1'-7 3/4

BAR B31
 1-Bar 7 1/2 x 2'-9



END BRACKET
INTERIOR BRACKET
REVAMPING FLOORBEAM BRACKETS

ERECTOR'S LIST OF HUCKBOLT FASTENERS FOR ONE 105'-6 SPAN					
NO.	DIAMETER	GRIP	NO.	NO.	LOCATION
32	1	32	20	48	END FLOORBEAMS TO GIRDER ENDS
8	1	32	48	72	FLOORBEAMS & LATERAL PLATES TO GIRDER BOTTOM FLANGE
16	1	32	72		do
24	1	32	92		do
768	7/8	28	16	20	FLOORBEAMS TO GIRDER WEB
64	7/8	28	20	20	FLOORBEAMS TO GIRDER WEB + STIFFENER
64	7/8	28	20	20	FLOORBEAMS TO GIRDER WEB + FILL AT WEB SPLICE
64	7/8	28	28	28	FLOORBEAMS TO GIRDER WEB + SPLICE PLATES
16	7/8	28	32	32	FLOORBEAMS TO GIRDER WEB + FILL AT END STIFFENER
16	7/8	28	48	48	FLOORBEAMS TO GIRDER WEB + PLATES AT END STIFFENER
20	7/8	28	12	12	END BRACKETS TO FLOORBEAMS
128	7/8	28	20	20	INTERIOR BRACKETS TO FLOORBEAMS
100	7/8	28	20	20	FLOORBEAM TO LATERAL PLATES
8	7/8	28	28	28	LATERALS TO LATERAL PLATES AND FLOORBEAMS
8	7/8	28	28	28	do
8	7/8	28	28	28	do
32	7/8	28	12	12	LATERALS TO LATERAL PLATES
72	7/8	28	12	12	do
72	7/8	28	12	12	do
16	7/8	28	20	20	CLIPS TO LATERALS
16	7/8	28	20	20	do
16	7/8	28	24	24	do

NO.	REQUIRED DESCRIPTION	LOCATION
48	HP14" X 89# STEEL BEARING PILES	ABUTMENTS AND PIERS
3	105'-6 DISASSEMBLED CLASS DD SPANS DESIGNATED D, E AND F. STOCK 'C' ITEM 20. STORED AT SAN BERNARDINO	STRUCTURE
48	ANCHOR BOLTS AB30	BRIDGE SEATS
8	APRON PLATES AP30	ENDS OF DECKS
12	BAR B30	END FLOORBEAM BRACKETS
48	BAR B31	INTERIOR FLOORBEAM BRACKETS
4	CURB SPLICES CS30	JOINING CURBS BETWEEN SPANS
48	1-1 1/4" X 6-1 1/4" MACHINE BOLTS H.H. & N.	SHOES TO GIRDERS
MHC TENSILE HUCKBOLT FASTENERS *		
101	CS0LR-BR32-20	SEE ERECTOR'S LIST
25	CS0LR-BR32-48	do
50	CS0LR-BR32-72	do
76	CS0LR-BR32-92	do
618	CS0LR-BR28-12	do
2419	CS0LR-BR28-16	do
1223	CS0LR-BR28-20	do
50	CS0LR-BR28-24	do
277	CS0LR-BR28-28	do
50	CS0LR-BR28-32	do
50	CS0LR-BR28-48	do
INDUSTRIAL HUCKBOLT COLLARS *		
252	LC-2R32	1" DIA. FASTENERS
1687	LC-2R28	7/8" DIA. FASTENERS
PAINT		
85	GALLONS, CHEM FLEX 100 *	

* 5% ADDED. ORDER FROM HUCK MFG. CO.
 ** MANUFACTURED BY STERLING LACQUER MFG. CO.

NOTES:
 STEEL BEARING PILES: STEEL BEARING PILES SHALL MEET THE MATERIAL REQUIREMENTS OF SECTION 4 OF THE A.T. & S.F. STANDARD SPECIFICATIONS C.E. 50153-58.
 NEW STRUCTURAL STEEL: ALL MATERIAL AND WORKMANSHIP SHALL BE AS PER CURRENT A.R.E.A. SPECIFICATIONS FOR STEEL RAILWAY BRIDGES.
 SHOP NOTES: OPEN HOLES: AS NOTED.
 SHOP PAINT: NONE
 STEEL ERECTION: STEEL ERECTION SHALL BE AS PER SECTION 7 OF THE A.T. & S.F. STANDARD SPECIFICATIONS C.E. 50153-58.
 EXPANSION SHOES SHALL BE DISASSEMBLED, CLEANED AND OILED BEFORE ERECTION.
 PAINTING: ALL EXPOSED SURFACES OF THE STEEL SPANS, INCLUDING AREAS TO BE IN CONTACT WITH THE TIMBER DECK, ARE TO BE PAINTED WITH CHEM FLEX 100, MANUFACTURED BY STERLING LACQUER MANUFACTURING CO., APPLIED IN ONE FIELD COAT TO A NET FILM THICKNESS OF 10 MILS.
 ALL AREAS TO BE PAINTED ARE TO BE ABRASIVE BLAST CLEANED. AREAS WHERE PETROLATUM IS PRESENT SHALL RECEIVE A "NEAR WHITE BLAST CLEANING" AND ALL OTHER AREAS SHALL RECEIVE A "COMMERCIAL BLAST CLEANING," BOTH IN ACCORDANCE WITH THE APPLICABLE STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATION.
 CHEM FLEX 100 IS TO BE MIXED AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE STEEL MEMBERS MAY BE PAINTED BEFORE ERECTION. IF ALL FAYING SURFACES ARE MASKED, WITH FINAL TOUCHUP AND REPAIR OF DAMAGED COATING AFTER ERECTION. ALL PAINTING ON THE INSIDE OF THE SPANS LOCATED BELOW TOP OF RAIL MUST BE COMPLETED BEFORE THE TIMBER DECK IS PLACED.

ESTIMATED QUANTITIES FOR THREE SPANS		
STOCK "C" STEEL	438.96 TONS	
NEW STRUCTURAL STEEL	1.68 TONS	

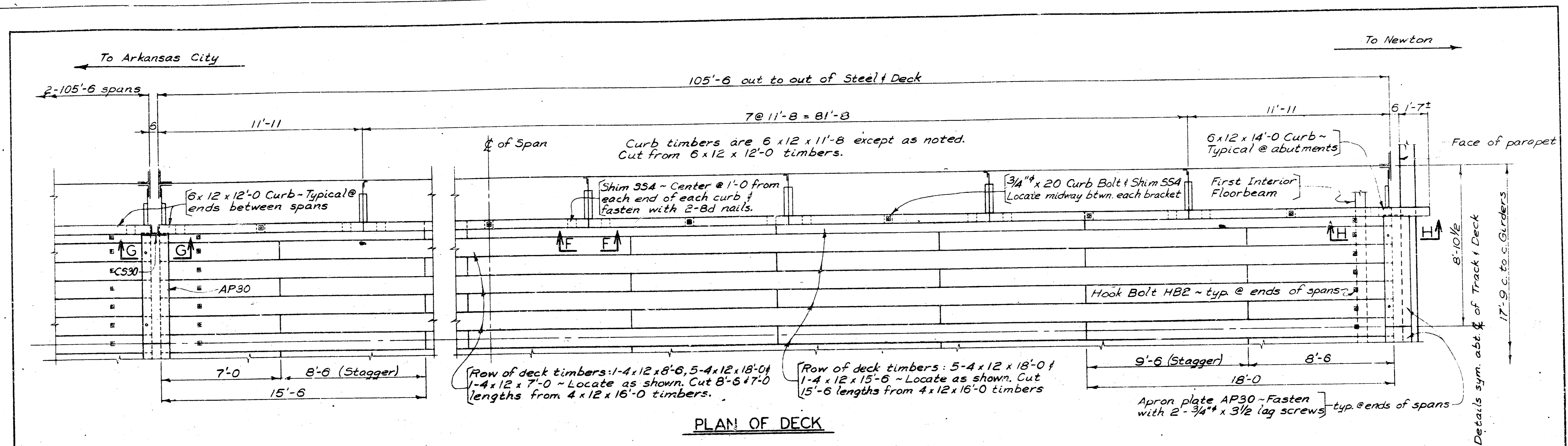
3-105'-6 S.T. 'D-D'-Spans on Tangent

SHEET 5 OF 6 DRAWINGS

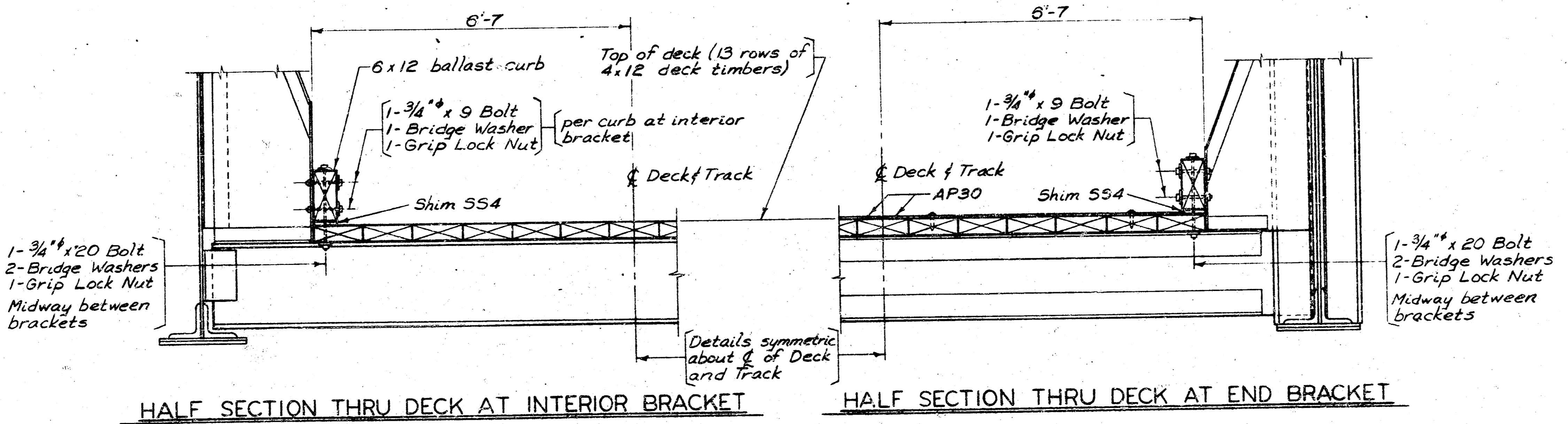
B.E.S. 2215
THE A.T. & S.F. RY. COMPANY
 BR. 215.9, 3RD DIST, MIDDLE DIVISION
 ERECTION OF STEEL & MISC STEEL

SCALE: NONE
 CORRECT: *[Signature]*
 CHICAGO, ILL., MAY 1979
 APPROVED: *[Signature]*
 BRIDGE ENGINEER SYSTEM CHIEF ENGINEER

Made by: WBR
 Checked by: PHz
 Examined by: CEG



PLAN OF DECK



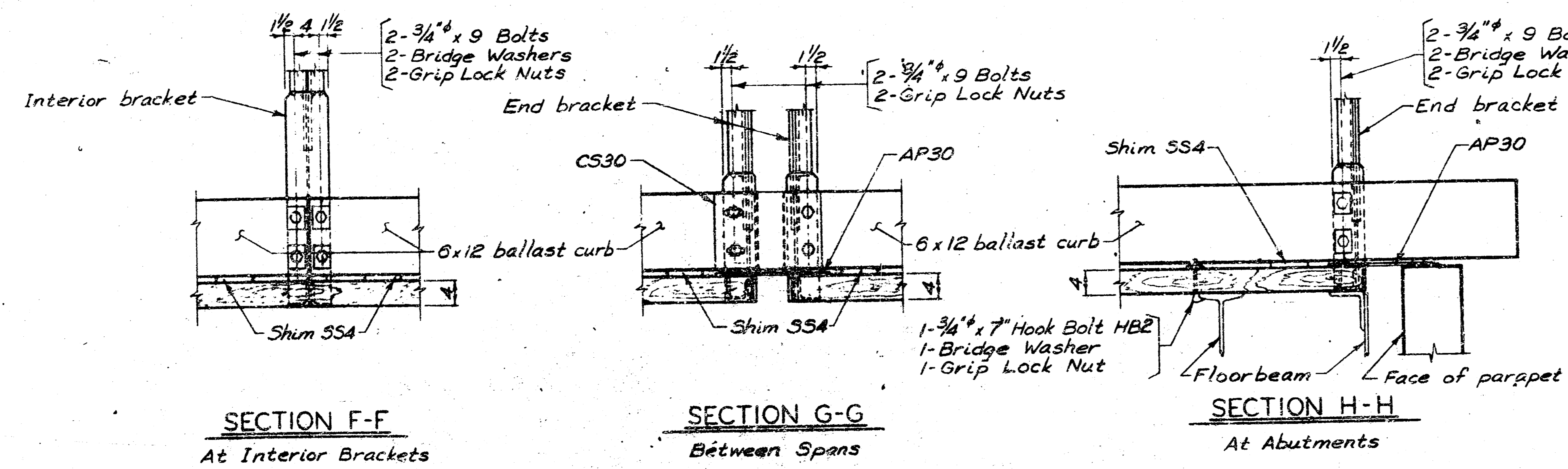
HALF SECTION THRU DECK AT INTERIOR BRACKET

HALF SECTION THRU DECK AT END BRACKET

BILL OF MATERIAL (EXACT QUANTITIES)		
NO.	DESCRIPTION	LOCATION
TREATED TIMBER		
195	4 x 12 x 18'-0	DECK TIMBERS
39	4 x 12 x 16'-0	DECK TIMBERS
4	6 x 12 x 14'-0	BALLAST CURBS
50	6 x 12 x 12'-0	BALLAST CURBS
162	SHIM SS4, C.E.S. 5282-A, SHEET 7	UNDER CURB
HARDWARE		
78	3/4" x 7" HOOK BOLTS PR2, C.E.S. 5288	DECK TO FLOORBEAM
216	3/4" x 9" BOLTS WITH NUT	CURB TO BRACKETS
54	3/4" x 20" "	CURB TO DECK
286	BRIDGE WASHERS, C.E.S. 5279	3/4" BOLTS
348	GRIP LOCK NUTS, 3/4" TAP	3/4" BOLTS
16	3/4" x 3-1/2" LAG SCREWS	AP30 TO DECK
2	LBS. 8d NAILS	SHIMS SS4 TO CURBS
MISCELLANEOUS		
5	GALS. PETROLATUM	AP30, CS30 AND HARDWARE

PRESERVATIVE, PLASTIC CEMENT AND TREATED WOODEN PLUGS ARE TO BE ORDERED AS REQUIRED.

APRON PLATES AP30 AND CURB SPLICES CS30 ARE ORDERED AND DETAILED ON SHEET 5.



SECTION F-F
At Interior Brackets

SECTION G-G
Between Spans

SECTION H-H
At Abutments

GENERAL NOTES:

ALL TIMBER SHALL HAVE A PRESERVATIVE TREATMENT.

FOR GENERAL NOTES ON HANDLING OF TREATED TIMBER, HARDWARE AND GRIP LOCK NUTS, SEE C.E.S. 5282-A, SHEET 5.

APRON PLATES AP30, CURB SPLICES CS30 AND HARDWARE SHALL BE GIVEN A HEAVY COATING OF PETROLATUM BEFORE BEING PLACED IN POSITION.

LONGITUDINAL DECK TIMBERS SHALL BE JACKED AS TIGHT AS PRACTICAL.

USE GRIP LOCK NUTS ON ALL 3/4" BOLTS.

3-105'-6 S.T. DD'-Spans on Tangent

SHEET 6 OF 6 DRAWINGS

B.E.S. 2215

THE A.T. & S.F. RY. COMPANY

BR. 215.9, 3RD DIST., MIDDLE DIVISION

BALLAST DECK

SCALE: NONE

CORRECT:

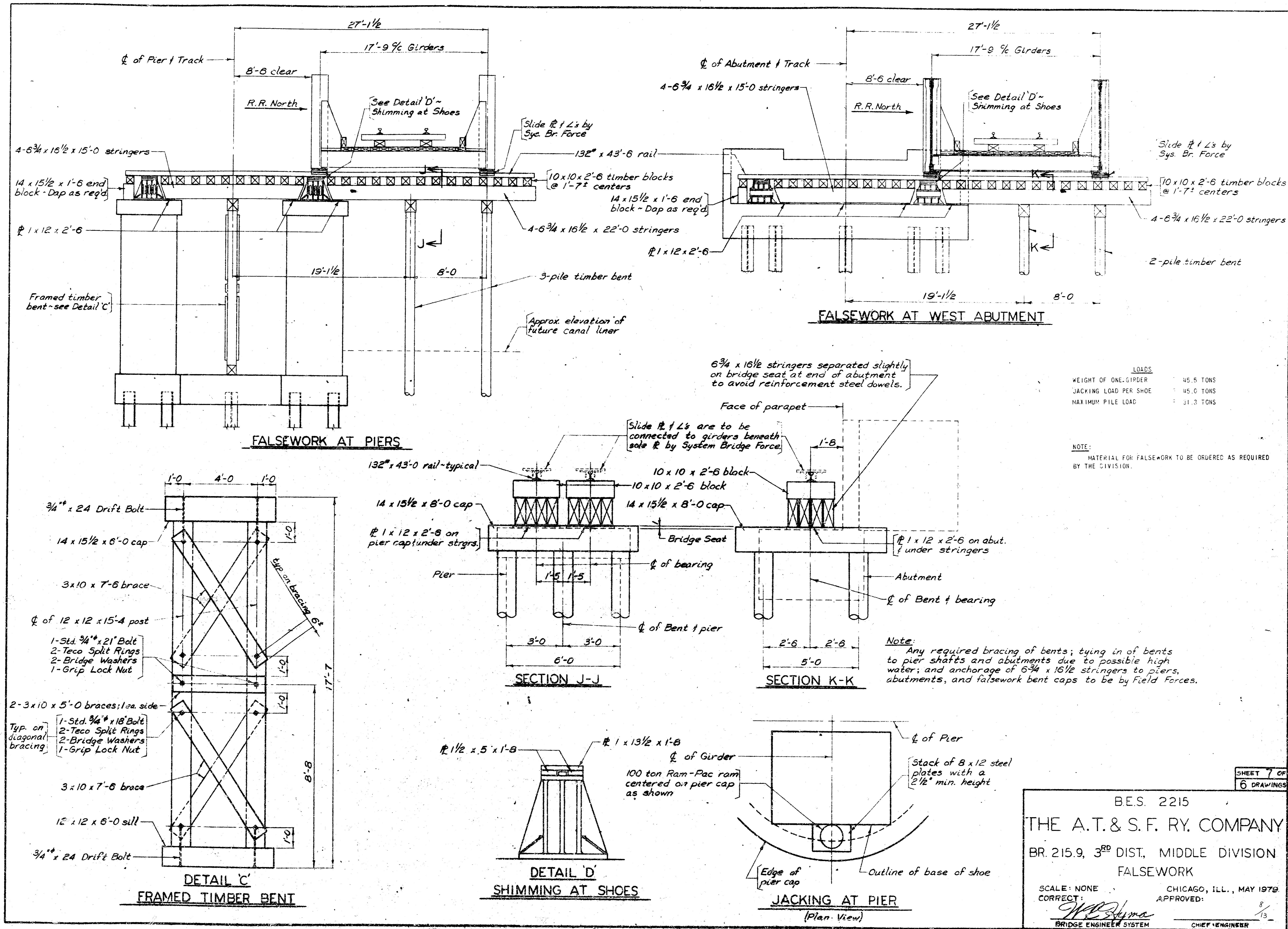
CHICAGO, ILL., MAY 1979

APPROVED: *[Signature]*

BRIDGE ENGINEER SYSTEM

CHIEF ENGINEER

Made by: WPLW
Checked by: FHZ
Examined by: JEG

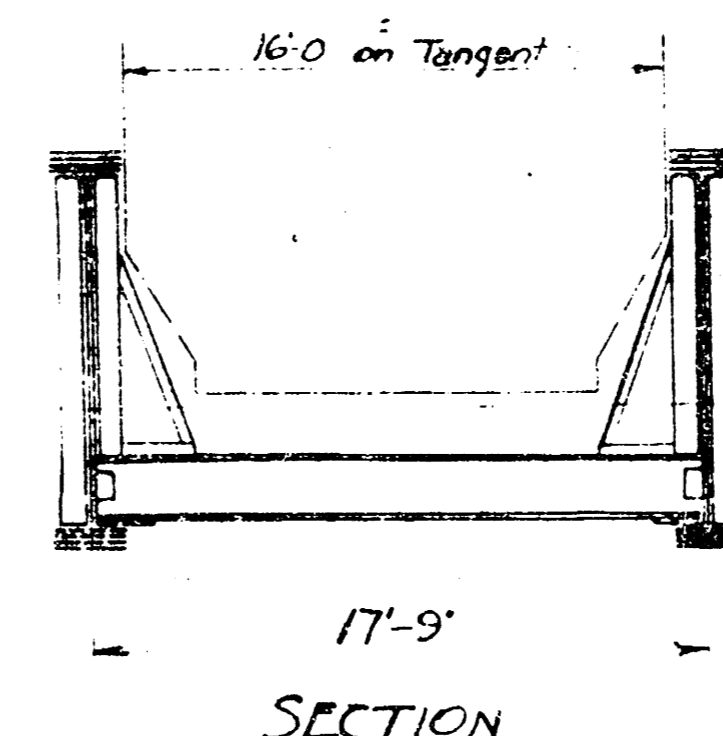
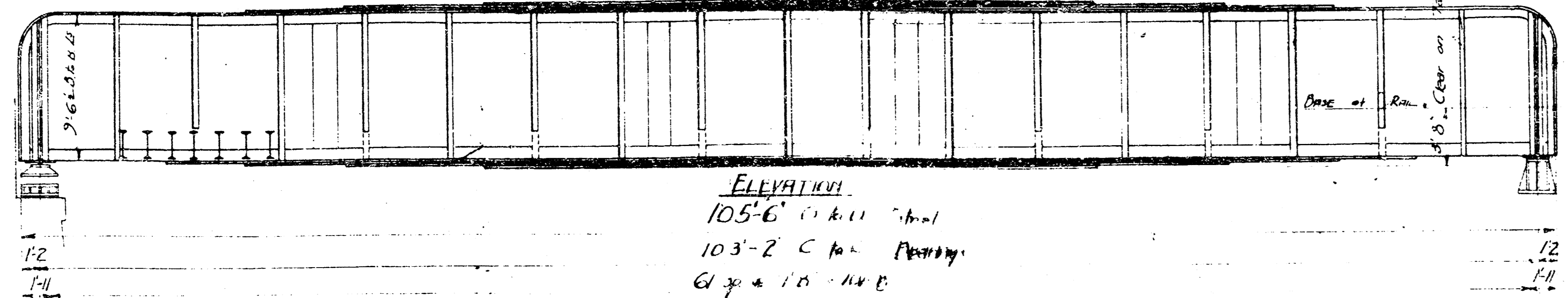


SHEET 7 OF 6 DRAWINGS

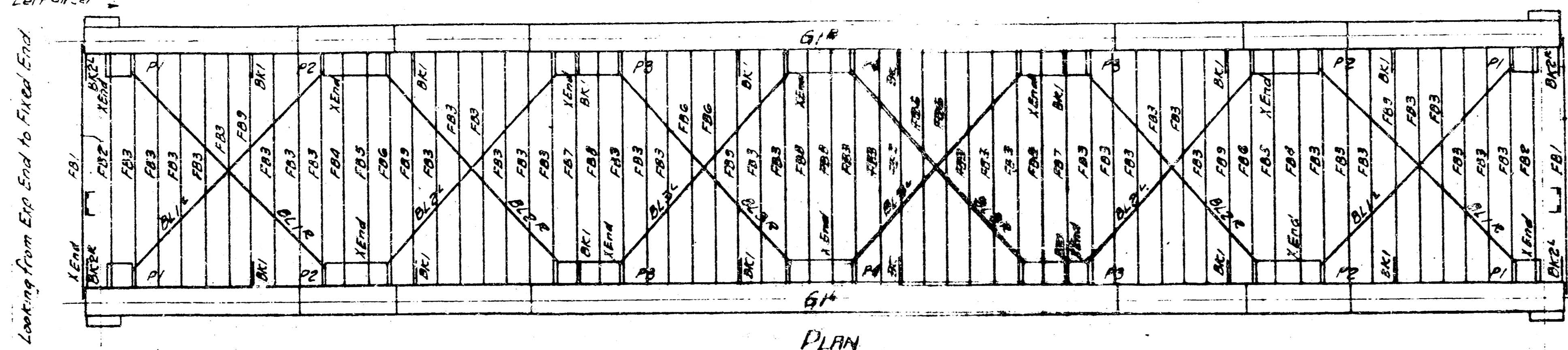
B.S. 2215
THE A.T. & S.F. RY. COMPANY
 BR. 215.9, 3RD DIST. MIDDLE DIVISION
 FALSEWORK

SCALE: NONE
 CORRECT: *[Signature]*
 CHIEF ENGINEER SYSTEM

CHICAGO, ILL., MAY 1979
 APPROVED: *[Signature]*
 CHIEF ENGINEER

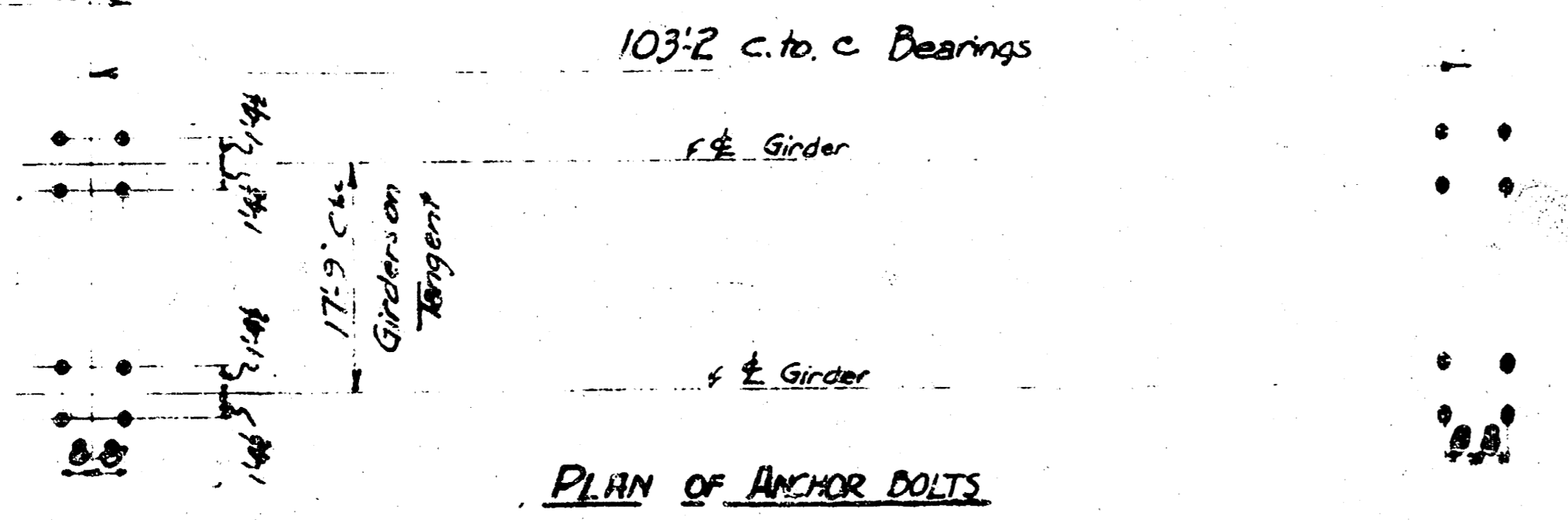


Sh No.	Description
1	Castings, Roller Nests, Anchor Bolts
2A	Girders
2B	Lateral Bracing, End Floor Bms
3	Interior Floor Bms, Brackets
4	Erection & Masonry Plans Rivet Lists



No.	Dim	Qty	Length	Connecting
32	1/4	36	36	End R. Bms to Girs
8	3/8	36	36	R. Bms & Lat. R. to Girs
16	1/2	60	60	"
20	1/2	84	84	"
16	1/2	24	24	Lat. R. to Girs
32	1/2	36	36	"
46	1/2	5	76	"
16	1/2	24	36	R. Bms to Girs
168	1/2	24	36	"
64	1/2	36	36	"
64	1/2	36	36	"
224	1/2	24	36	Brackets to Girs
28	1/2	24	36	End Brkts to End F. Bms
192	1/2	24	36	Brackets to R. Bms
88	1/2	24	36	R. Bms to Lat. R.
8	1/2	36	36	Lat. R. to Lat. R. & R. Bms
8	1/2	36	36	"
72	1/2	24	36	Lat. R. to Lat. R.
72	1/2	24	36	"
16	1/2	36	36	Clips to Lat. R.
16	1/2	36	36	"
32	1/2	24	36	Lat. R. to Lat. R.
16	1/2	36	36	R. Bms to Girs
64	1/2	36	36	"
8	1/2	36	36	Lat. R. to Lat. R. & R. Bms
40	1/2	36	36	End Brkts to Girs

Act. No.	Quantity	Dim.	Length	Remarks
32	36	1/4	36	
16	36	3/8	36	
8	36	1/2	36	
20	84	1/2	84	
16	30	1/2	24	Na. Req. - Act. No. + 5/16"
46	5	1/2	76	
24	4	1/2	36	
236	305	1/2	36	
72	95	1/2	36	
100	185	1/2	36	
168	890	1/2	36	
226	350	1/2	36	
28	175	1/2	36	
18	30	1/2	36	
8	20	1/2	36	
72	95	1/2	36	
16	30	1/2	36	
8	20	1/2	36	
16	30	1/2	36	



BASE OF RAIL TO CLEARANCE		BASE OF RAIL TO MASONRY	
Tie & 1/2"	7 1/2"	Tie & 1/2"	7 1/2"
Ballast	6 1/2"	Ballast	6 1/2"
Timber	4"	Timber	4"
Flange	1"	Flange	1"
Clearance	18"	Clearance	18"
Flange L	2 1/2"	Flange L	2 1/2"
Flange R	2 1/2"	Flange R	2 1/2"
Shoe	5 1/2"	Shoe	5 1/2"
TOTAL	58"	TOTAL	57 1/2"

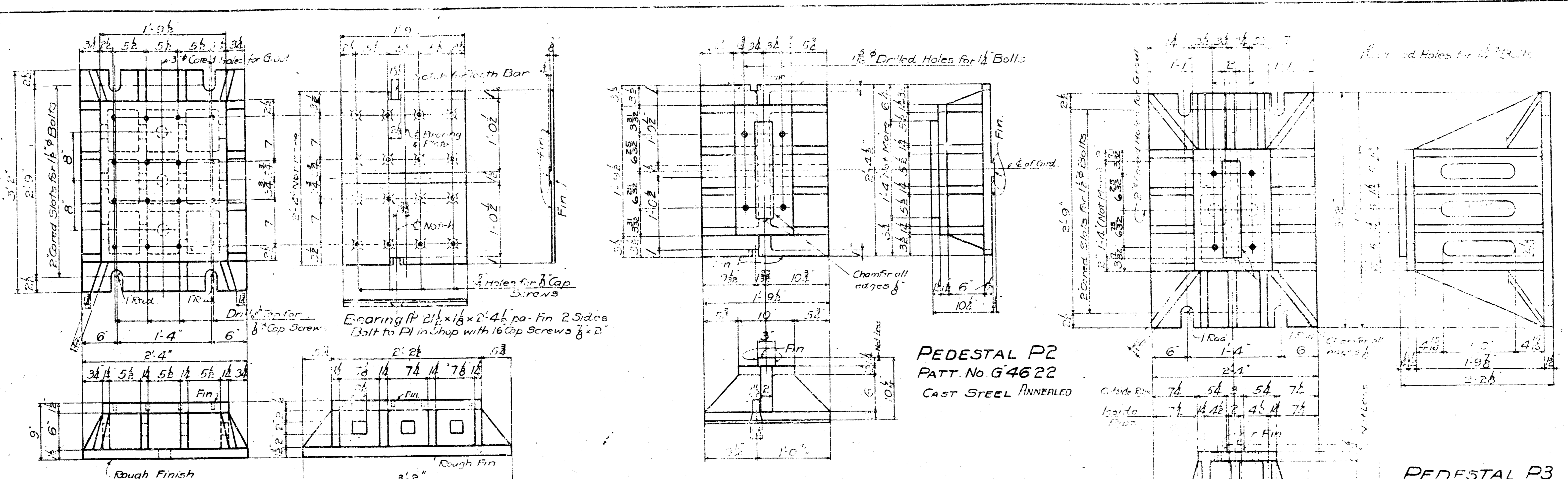
	MOMENT	SHEAR	WEB	FLANGE
FLOOR I Tangent	D 13000 L 90000 T 90000	D 2800 L 14100 T 14100		20" I-81.4" U.S. - 15800"
MAIN GIRDER	D 3720000 L 5530000 T 4020000	D 144000 L 250000 T 185000	114" x 16"	21 1/2" x 8" x 1/2" (12") 1" Cov. Pl. 21 1/2" x 73" x 5" 1" x 53" x 5" 1" x 21 1/2" x 41" x 5"

HAND-RAIL
Girders are called "Right" and "Left" on account of Handrail to be furnished in the future. In ordering Handrail they are "Right" and "Left" looking from Expansion to Fixed End. Handrail must be ordered in the future by Standard Co. for "Right" or "Left" girder. Handrail to be riveted in the field. Provide future Cans for Handrail.

DATE	ORDER NO.	Rev. No.	No. Spans	Span No.	LOCATION	RAILROAD	App. No.	Class	Ends	Span
July 23	E7418	"	3	1748	Arizona Des. Res.	A.T.&S.F.	3	"	"	"
Apr. 25	E8548	Gary	5	376	Plains Div. Arkansas	A.T.&S.F.	6	DD	Round	"
June 1908	E8668	Gary	2	304A	Neac. Kansas	A.T.&S.F.	3	C.D.	Round	"

THIS SHEET TO BE USED FOR
BRIDGE ON TANGENT ONLY B.E.S. 5263

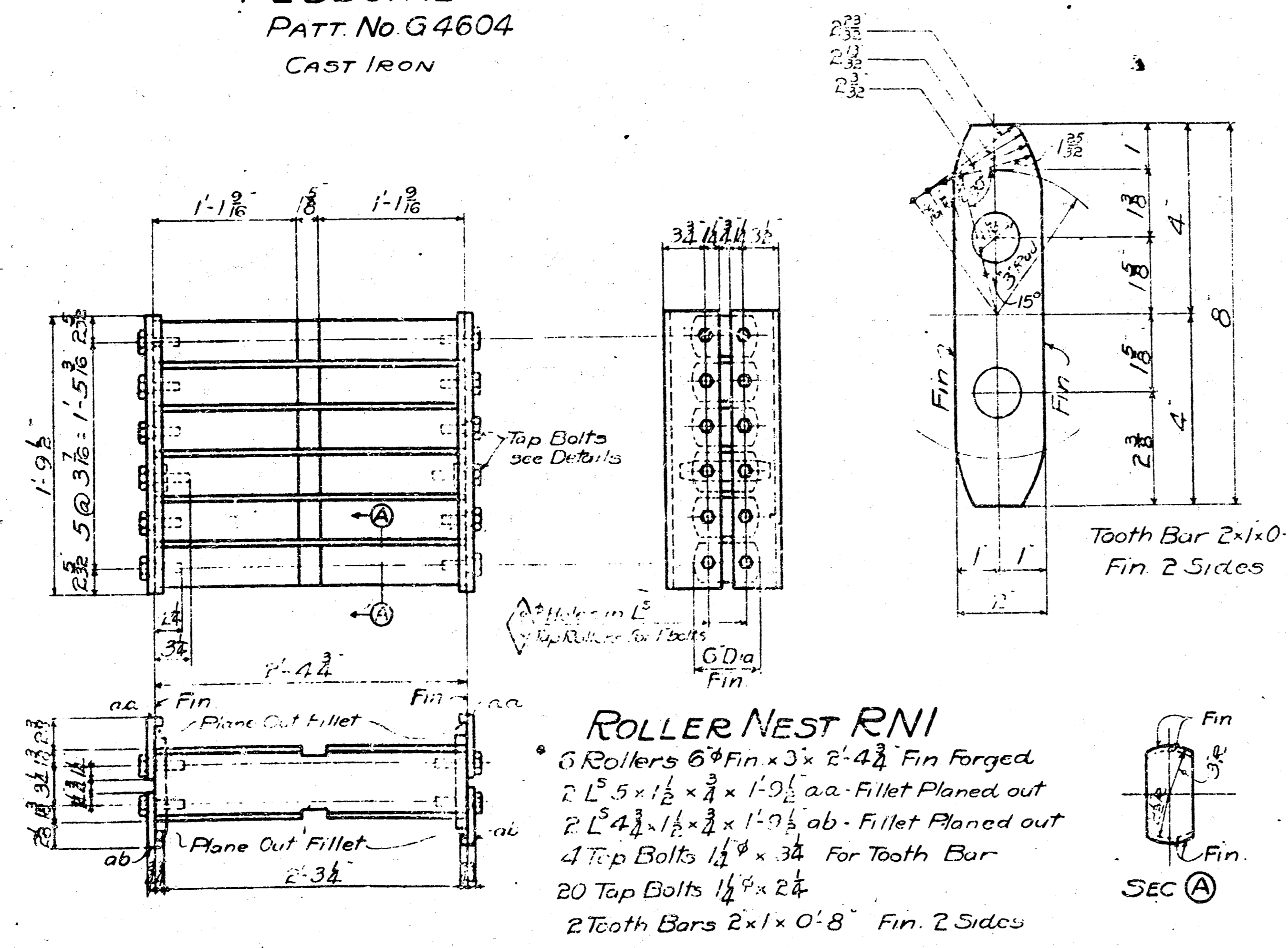
A. T. & S. F. RY. BRIDGE
105'-6" CLASS DD SPAN
Details by
Approved: *[Signature]*
SCALE
AMERICAN
GARY PLANT DRAWING DEPARTMENT



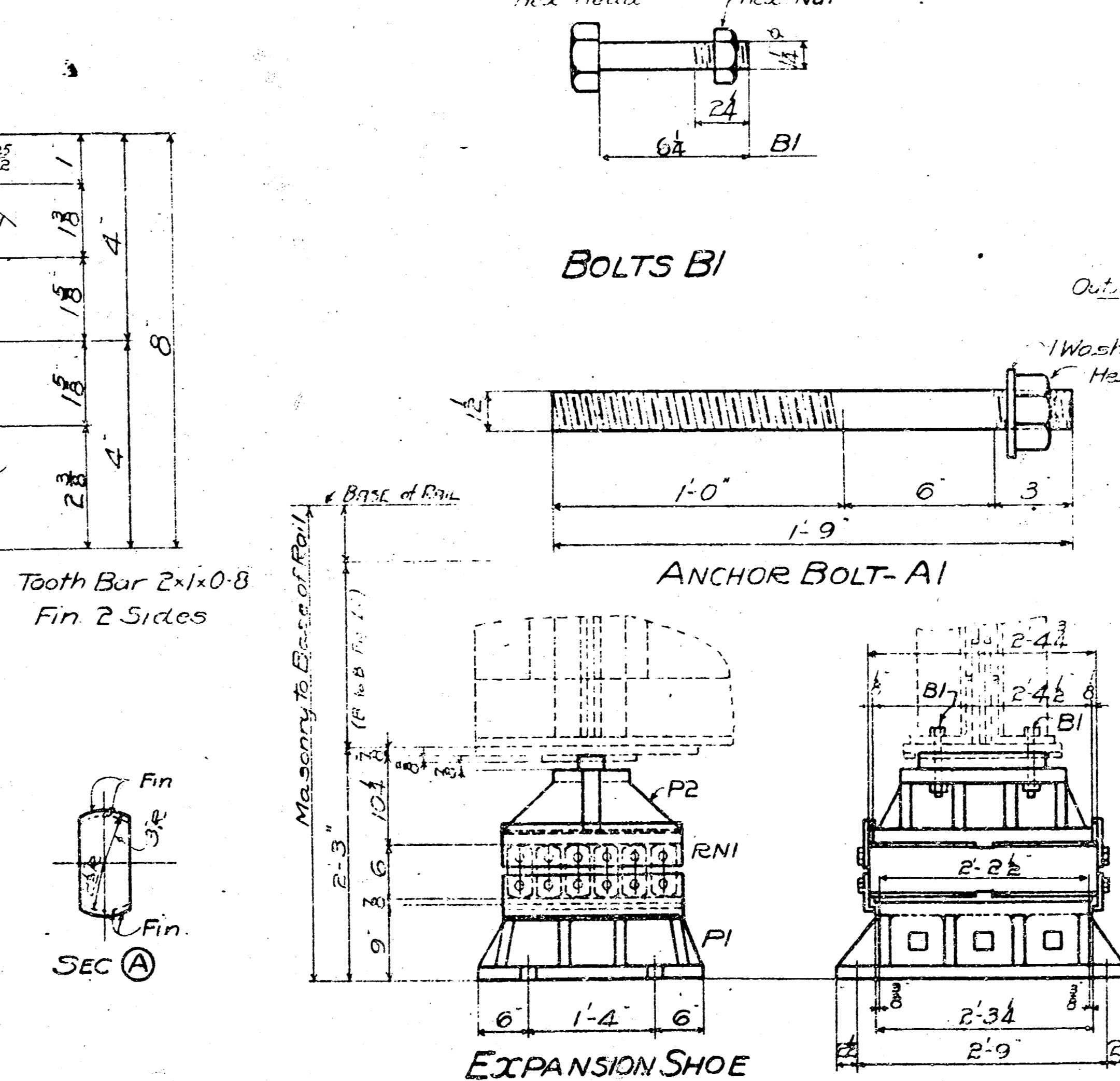
PEDESTAL P1
PATT. No. G4604
CAST IRON

PEDESTAL P2
PATT. No. G4622
CAST STEEL ANNEALED

PEDESTAL P3
PATT. No. G4610
CAST IRON



ROLLER NEST RNI
6 Rollers 6" Fin x 3" x 2'-4 1/2" Fin Forged
2 L² 5 x 1 1/2 x 3/4 x 1'-9 1/2" a.a. Fillet Planed out
2 L² 4 1/2 x 1 1/2 x 3/4 x 1'-9 1/2" a.b. Fillet Planed out
4 Top Bolts 1 1/2" x 3/4" For Tooth Bar
20 Top Bolts 1 1/2" x 2 1/4"
2 Tooth Bars 2 x 1 x 0'-8" Fin. 2 Sides

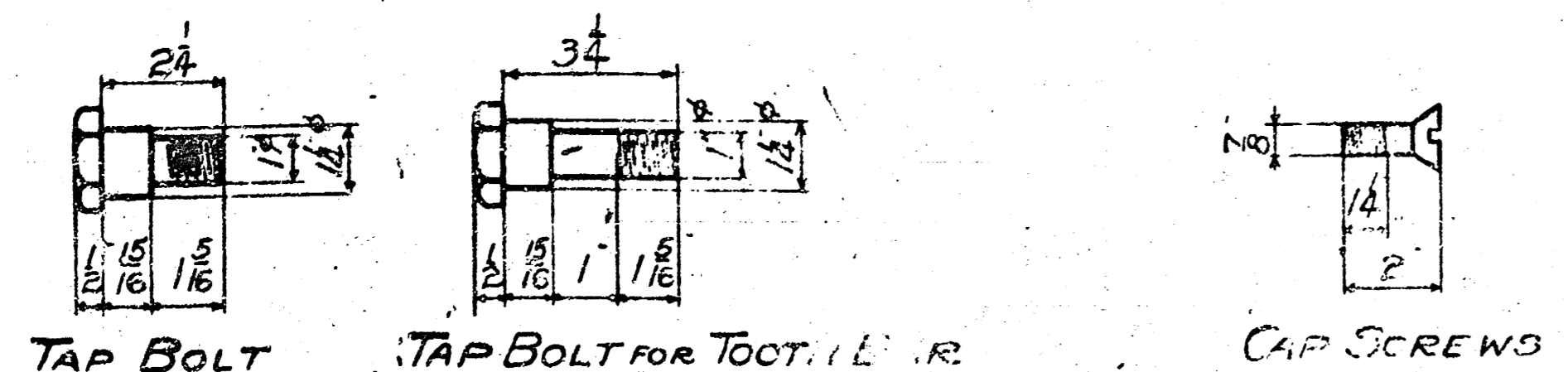


BOLTS B1

ANCHOR BOLT-A1

General Notes
Shop Paint: One Coat of Raw Linseed Oil. Parts inaccessible after assembling use fitting up Paint. Finished surfaces of Segmental Rollers, bottom of P2 and top of Plate paint to receive one coat of White Lead and Tallow.
Anchor Bolts - No Paint

REQUIRED			
QTY	DESCRIPTION	SYMBOL	REMARKS
4	PeDESTALS	P1	
2	do	P2	
2	do	P3	
4	Roller Nests	RNI	
32	Anchor Bolts	A1	
32	Bolts	B1	



TAP BOLT

TAP BOLT FOR TOOTH BAR

CAP SCREWS

LIST OF SPANS							
DATE	ORDER No.	FABRICATOR	No. SPANS	BRIDGE No.	LOCATION	RAILROAD CLASS	APPROVAL REQ'D
July 1923	27410	Gary	3	874B	Third, Arizona	A.T.&S.F. DD	3
Apr. 1923	28243	Gary	5	876A	First, Plains	A.T.&S.F. DD	
June 1923	28228	Gary	2	304A	First, Panhandle	A.T.&S.F. DD	3
1924				339-C	First, Oklahoma	D.D.	
1925				636-A	Denver, Colorado	DD	
1926				646-B		DD	

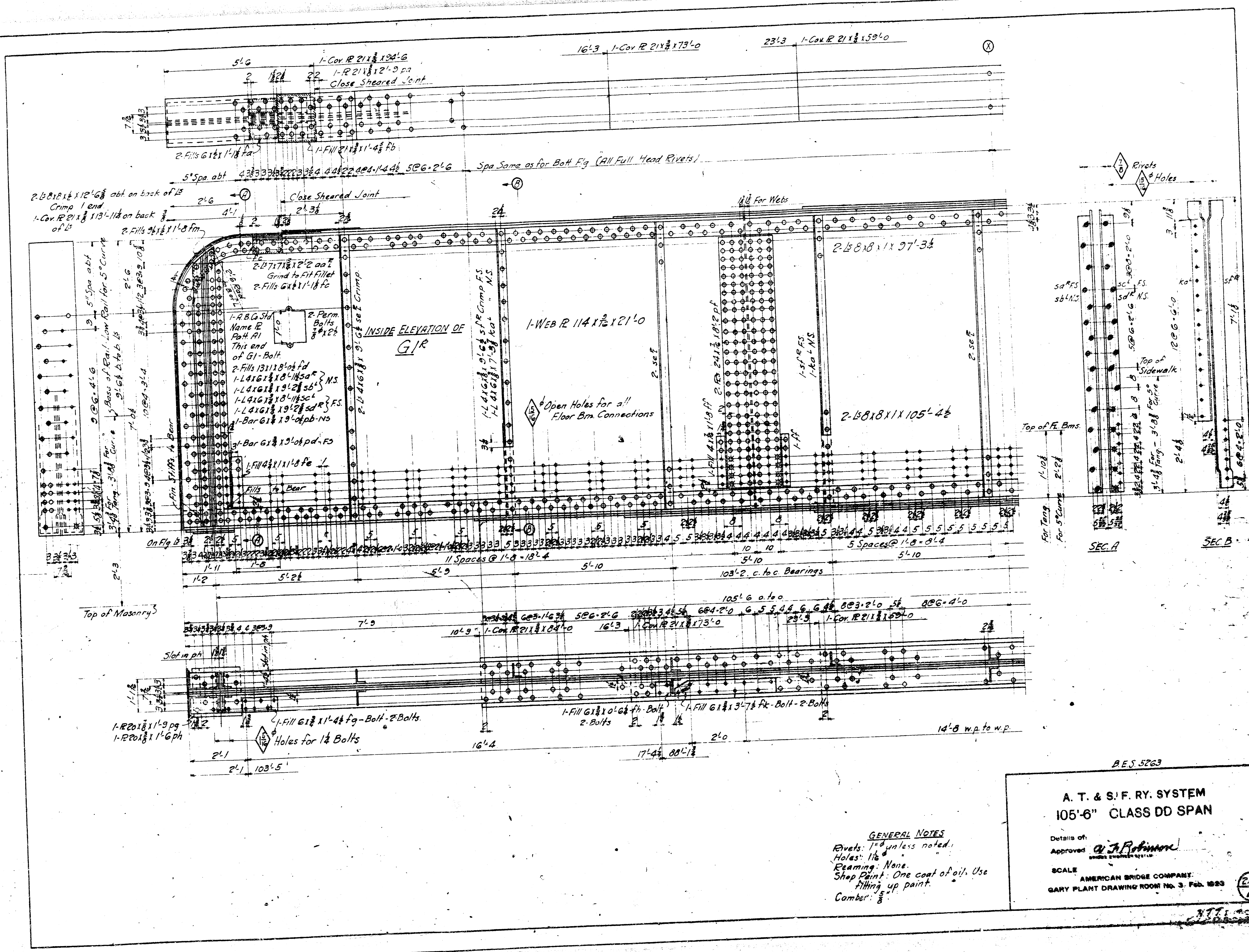
This sheet to be used for all future spans.

B.E.S. 5263

A. T. & S. F. RY. SYSTEM
105'-8" CLASS DD SPAN

Details of:
Approved: *A. J. Foberry*
BRIDGE ENGINEER SYSTEM

SCALE
AMERICAN BRIDGE COMPANY
GARY PLANT DRAWING ROOM NO. 3 FEB. 1923



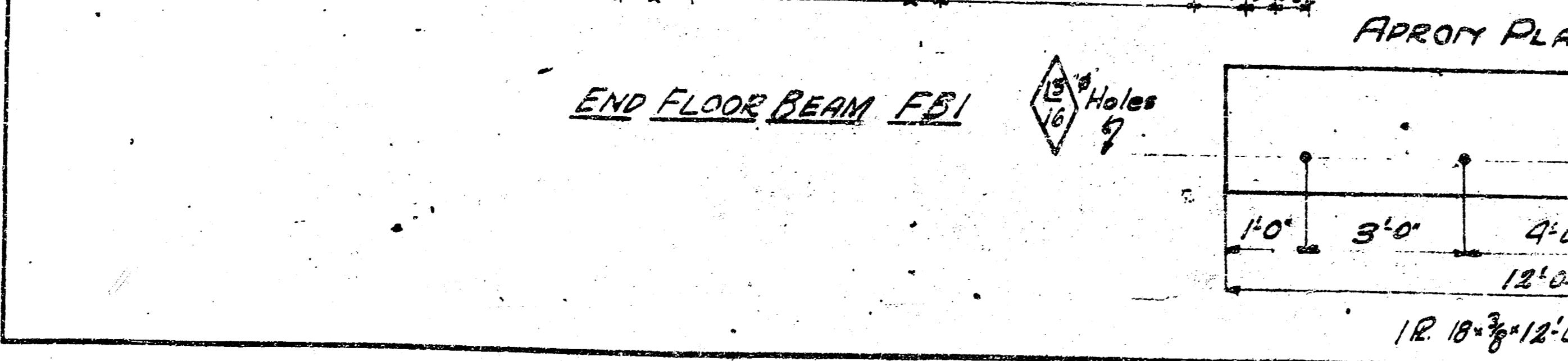
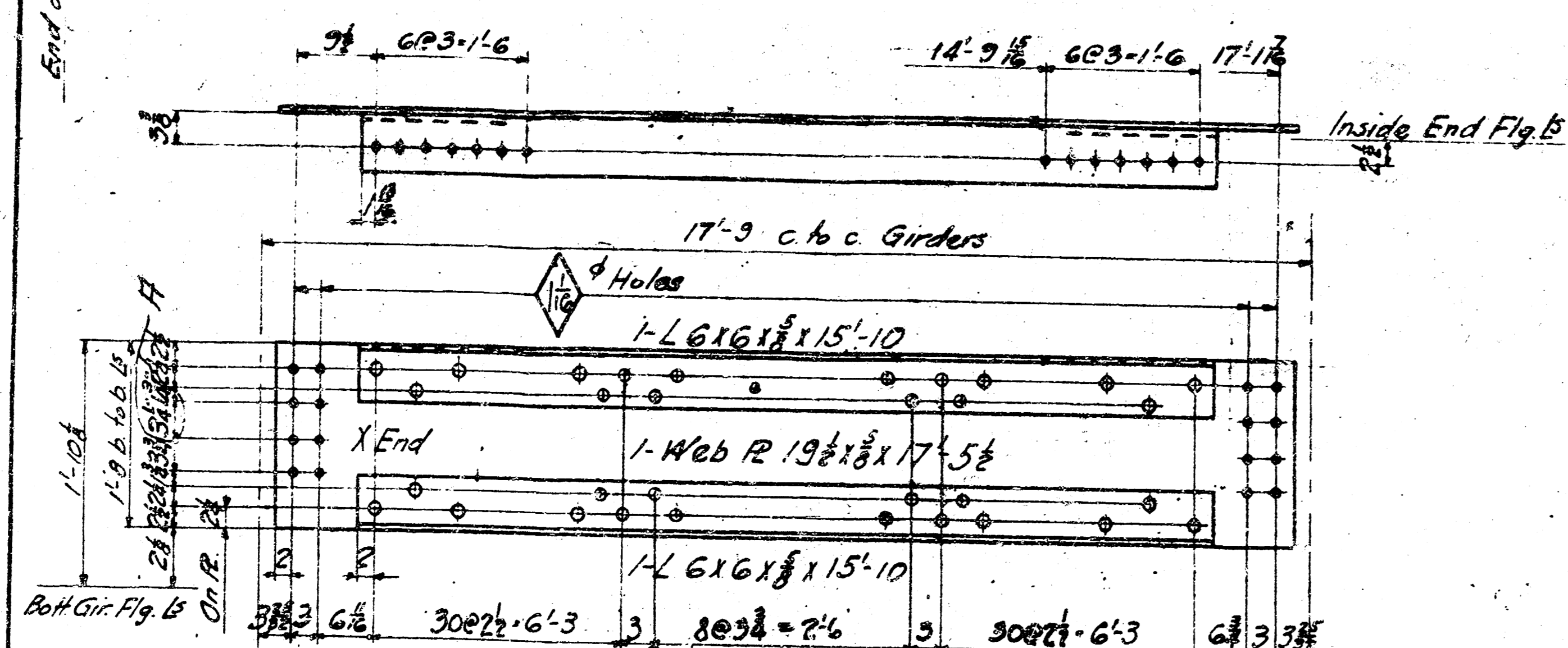
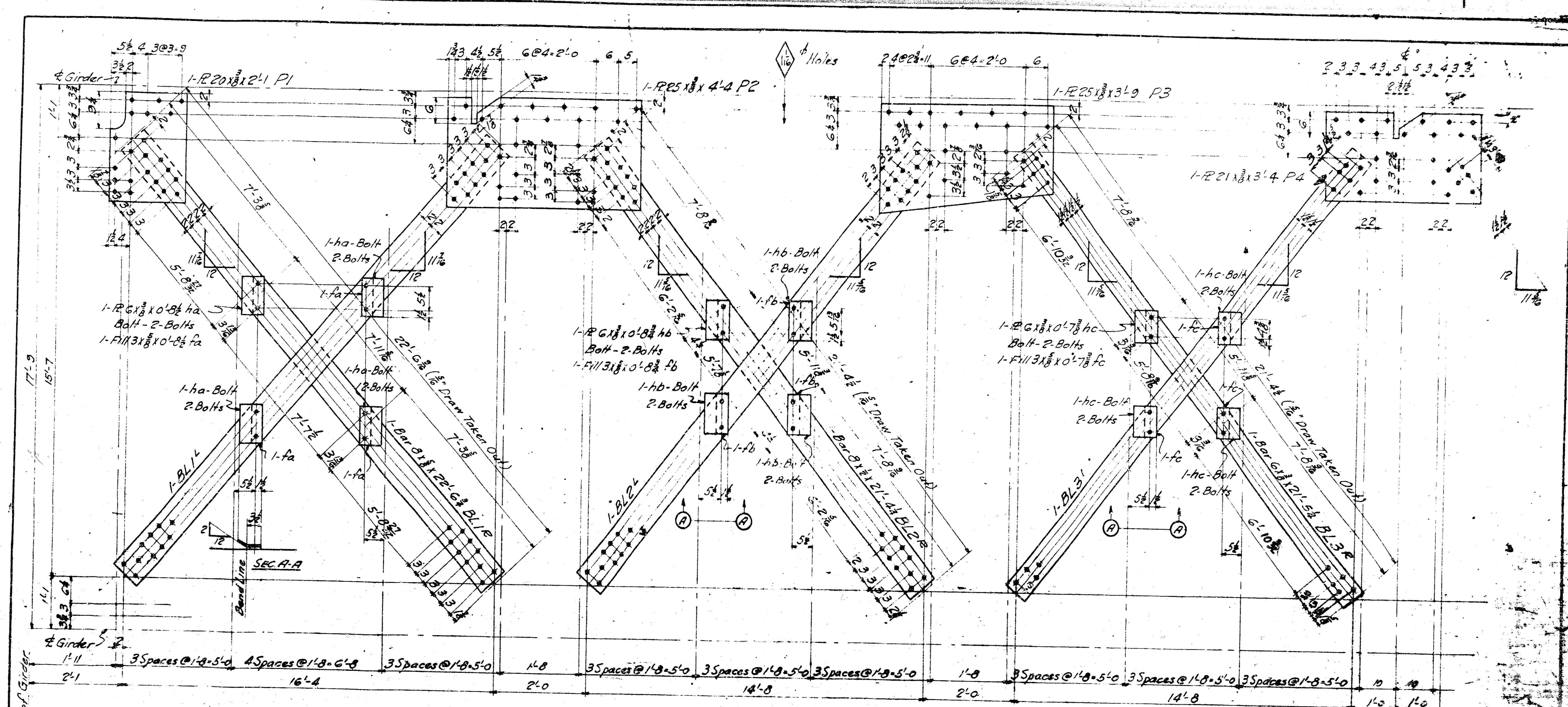
GENERAL NOTES
 Rivets: 1" unless noted.
 Holes: 1 1/8"
 Reaming: None.
 Shop Paint: One coat of oil. Use
 Fitting up paint.
 Camber: 8"

B.E.S. 5263

A. T. & S. F. RY. SYSTEM
105'-6" CLASS DD SPAN

Details of:
 Approved: *A. J. Robinson*
SENIOR ENGINEER

SCALE: **AMERICAN BRIDGE COMPANY**
 GARY PLANT DRAWING ROOM NO. 3, FEB. 1923



LIST OF SPANS

DATE	APPROVED	PLANNING	CLASS	LOCATION	RAILROAD
July 1923	ET 119	Gary	DD	Whed. Arizona	AT&SF
Jan 1924	ET 119	Gary	DD	Fort Collins	AT&SF
June 1924	ET 119	Gary	DD	Fort Collins	AT&SF
1925				Denver, Colorado	
1924				Denver, Colorado	

REQUIREMENTS

Req. No.	Description	Quantity
1	Lateral Br.	1
2		1
3		1
4		1
5		1
6	Lateral Plates	1
7		1
8		1
9		1
10	End Floor Beam	1
11	Approx. Plate	1

THIS SHEET TO BE USED FOR BRIDGE ON TANGENT ONLY
B. E. 5763

A. T. & S. F. RY. SYSTEM
105'-6" CLASS DD SPAN

Details of:
Approved: *[Signature]*
SCALE: AMERICAN BRIDGE COMPANY
GARY PLANT DRAWING NUMBER NO. 5, P. 10

GENERAL NOTES

Rivets: $\frac{3}{4}$ "
Holes: $\frac{1}{16}$ " unless noted
Reaming: None
Shop Paint: One coat oil. Use
filling up paint.