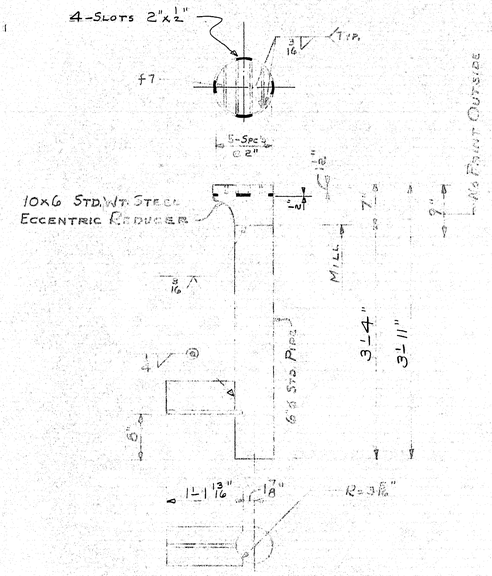
SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
			BILL OF MATERIAL				DWG. B64-218-511
DR1	24		6" STD. PIPE	3	4		MIE
	24		10"X6" STD. STEEL WELDED ECCENTRIC REDUCER				REQ'D
DR2	24		ST6WF13.5	1	1 1/16		
	96	F7	BAR 1/2"	0	10		FIT



24-DR1

SHOP CONNECTIONS: WELD-E70 LOW HYDROGEN
FIELD CONNECTIONS:
HOLES:
PAINT: STATE OF MAINE SPEC'S

DRAINS

PRINT ISSUE		
2	S.H.C.	9-19-64
3	P.S.T.	9-19-64
5	SHOP	9-19-64
2	F.A.	9-3-64
DRAWN	9-3-64	D.C.
REVISION		
REVISION		
REVISION		

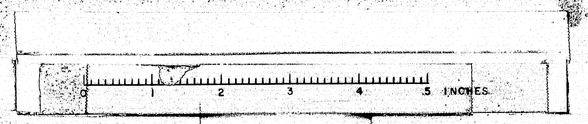
Bancroft & Martin Rolling Mills Company
Brewer, Maine

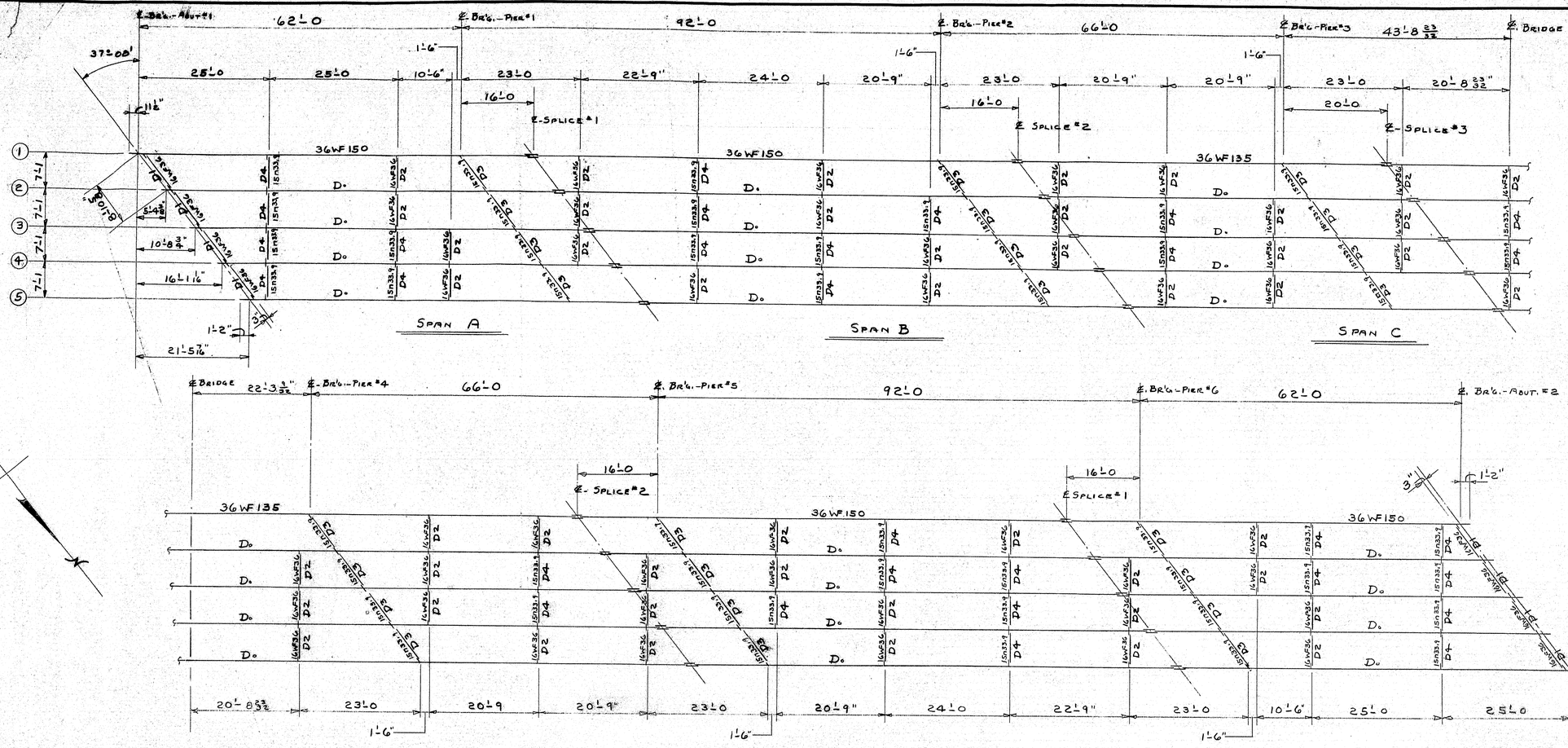
RT. 43 BRIDGE OVER I 95
OLD TOWN MAINE

CUSTOMER CIANCHETTE BRO'S. INC.
DESIGNER STATE HIGHWAY COMM.

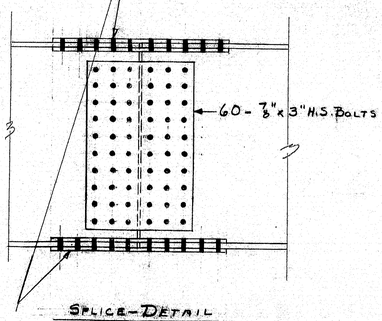
ORDER VERBAL DWG. B64-218-511

95-33

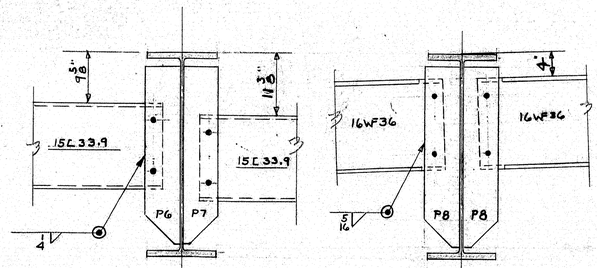




48- 7/8"x3 3/4" H.S. Bolts - For Splice#1
40- 7/8x3 1/2" H.S. Bolts - For Splice#3
40- 7/8x3 1/2" H.S. Bolts - For Splice#2



Splice-Detail



Diaphragm Details

Framing Plan

Notes:
Steel For Stringers, Cover Pls & Splice Pls Shall Be ASTM-A36
All Other Steel To Be ASTM-A36 or A7

Splice Bolts Shall Be ASTM-A325-7/8" ϕ Hex. Heavy Struct. Bolts With Heavy Semi-Finished Hex. Nuts & One Hardened Washer

Holes For Splice Bolts Are To Be Free From Burrs. There Shall Be No Paint Within 3" of Such Open Holes. Sub Punch or Drill Holes To 11/16" ϕ, Ream Assembled Parts (No Templates) To 15/16" ϕ, Or Drill From Solid For Field Connection

Matchmark All Connecting Parts Before Disassembling & Supply Engineer With A Diagram Of Matchmarks.

SHOP CONNECTIONS:
FIELD CONNECTIONS:
HOLES:
PAINT:

FRAMING PLAN

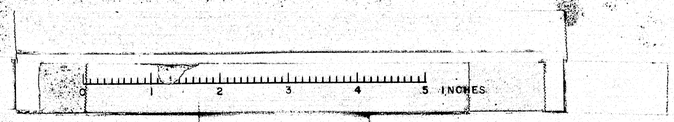
PRINT ISSUE		
2	S.H.C.	6-25-64
2	S.H.C.	5-4-64
3	Cust	5-4-64
1	Shop	5-4-64
2	F.A.	4-22-64
DRAWN	4-6-64	D.C.
REVISION		
REVISION		
REVISION		

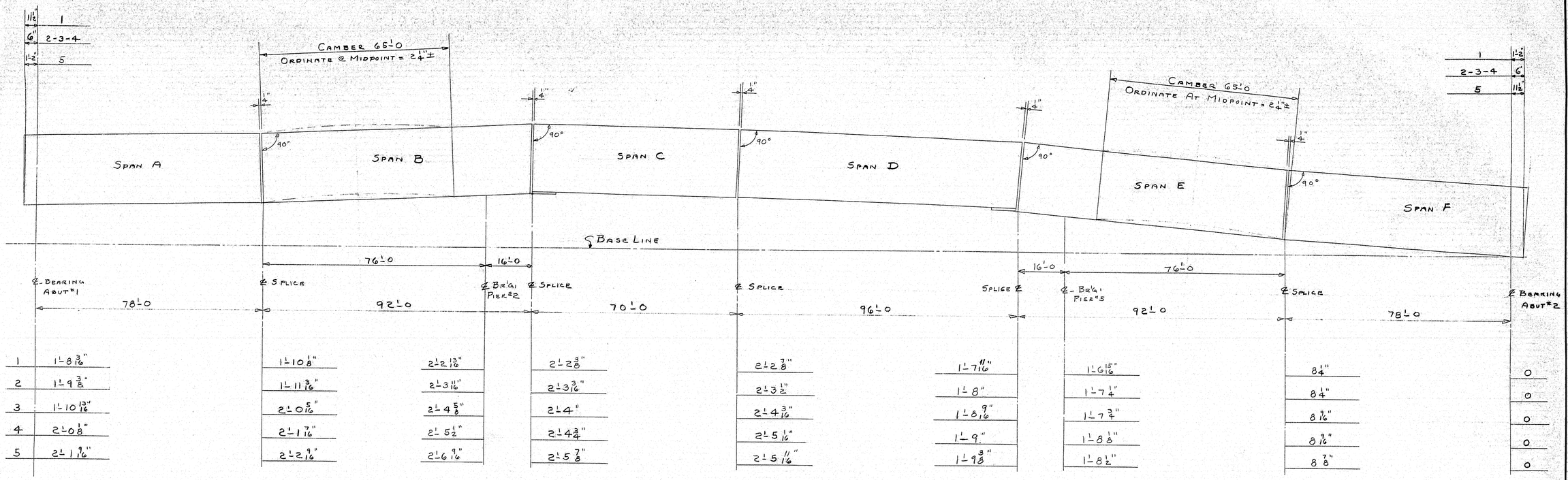
Bancroft & Martin Rolling Mills Company
Brewer, Maine

RTE. 16 BRIDGE OVER I-95
OLD TOWN MAINE

CUSTOMER Reed & Reed
DESIGNER State Highway Comm.
ORDER Verbal DWG. B64-59-E1

95-101

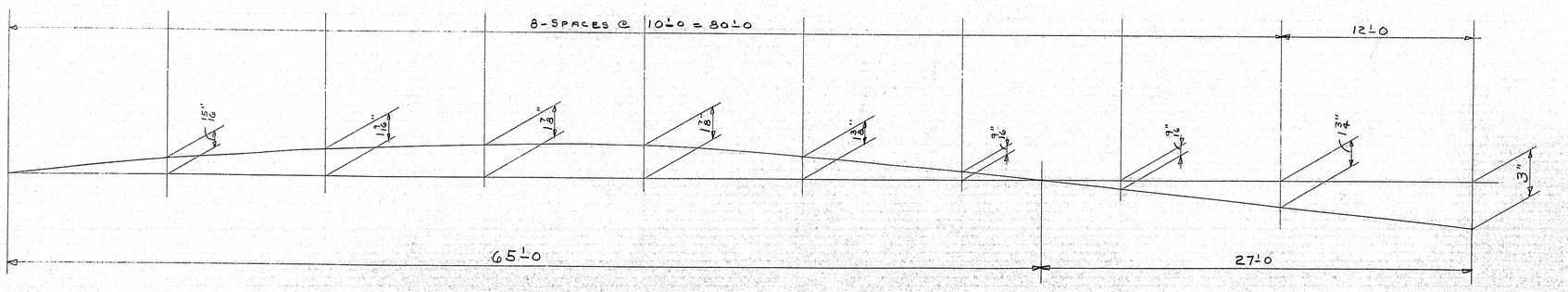




1	1'-8 3/16"	1'-10 1/8"	2'-2 13/16"	2'-2 3/8"	2'-2 7/8"	1'-7 11/16"	1'-6 15/16"	8¼"	0
2	1'-9 3/8"	1'-11 3/16"	2'-3 1/16"	2'-3 3/16"	2'-3 1/2"	1'-8"	1'-7 1/4"	8¼"	0
3	1'-10 13/16"	2'-0 5/16"	2'-4 5/8"	2'-4"	2'-4 3/16"	1'-8 9/16"	1'-7 3/4"	8 9/16"	0
4	2'-0 1/8"	2'-1 7/16"	2'-5 1/2"	2'-4 3/4"	2'-5 1/16"	1'-9"	1'-8 1/8"	8 9/16"	0
5	2'-1 9/16"	2'-2 9/16"	2'-6 9/16"	2'-5 7/8"	2'-5 11/16"	1'-9 3/8"	1'-8 1/2"	8 7/8"	0

DIAGRAM OF STRINGER ELEVATIONS.

DIMENSIONS ARE FROM BASE LINE TO BOTT OF STRINGER OR 3/16" FILLER PL.



CAMBER DIAGRAM — SPANS B & E

SHOP CONNECTIONS:
FIELD CONNECTIONS:
HOLES:
PAINT:

APP'D AS NOTED 6-19-64

DIAGRAM OF STRINGER ELEVATIONS

PRINT ISSUE		
2	S.H.C.	6-25-64
2	F.H.	6-16-64
2	F.A.	5-6-64
2	S.H.C.	5-4-64
3	CUST	5-4-64
3	SHOP	5-4-64
2	F.H.	4-22-64
DRAWN	4-9-64	D.C.
REVISION		
REVISION		
REVISION		

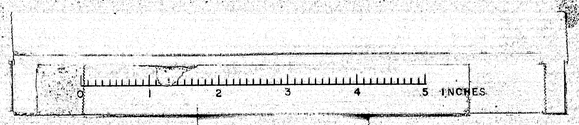
Bancroft & Martin Rolling Mills Company
Brewer, Maine

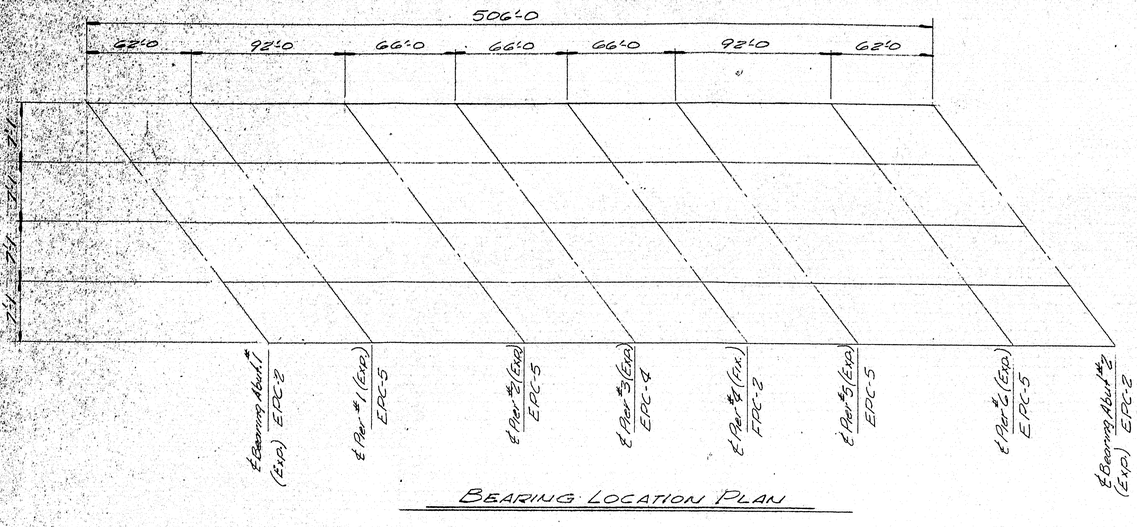
RTE. 16 BRIDGE OVER I-95
OLD TOWN MAINE

CUSTOMER REED & REED
DESIGNER STATE HIGHWAY COMM.

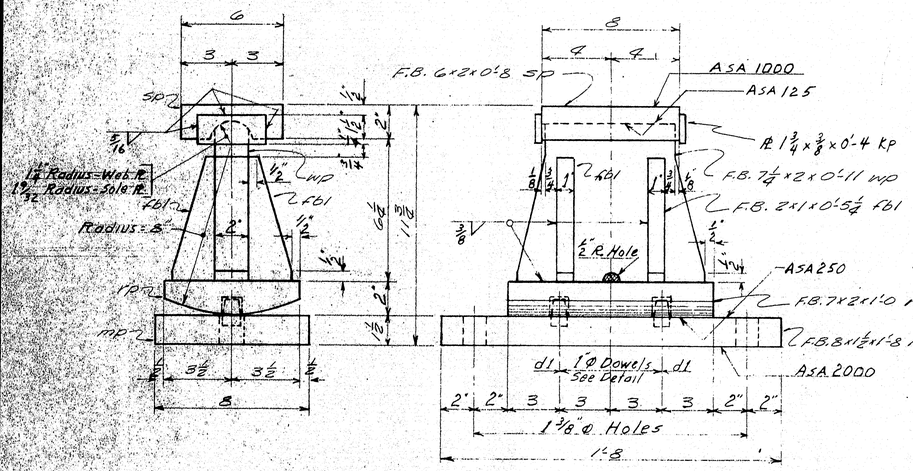
ORDER _____ DWG. B64-59-E2

95-102



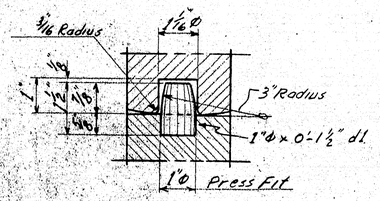


BEARING LOCATION PLAN



EXPANSION PEDESTAL EPC-2

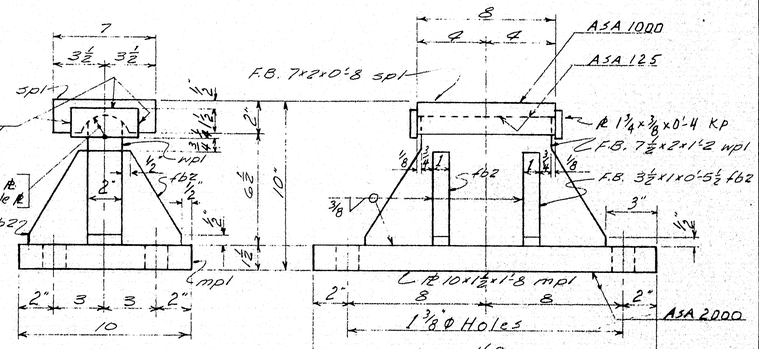
10 - REQ'D.



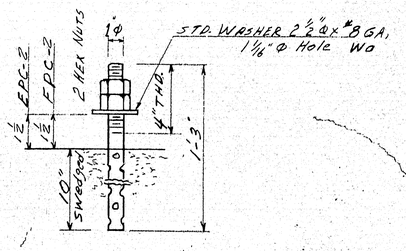
DOWEL DETAIL

PAINT NOTE

NO PAINT ON TOP OF SOLE PLATES "SP" AND 1" DOWN FROM TOP ON SIDES; COAT WITH BOILED LINSEED OIL.
NO PAINT ON SURFACE WITH ASA 125 FINISH; COAT WITH MIXTURE OF WHITE LEAD AND TALLOW.



FIXED PEDESTAL - FPC-2 5-REQ'D.



ANCHOR BOLTS 1"Øx1'-3" AB1 40 REQ'D.
2 REQ FOR EPC-2 4 REQ'D FOR FPC-2
NO PAINT - OIL THDS.

TYPE EPC & FPC

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
EPC-2	10		SHOP ASSY.			
	10	SP	F.B. 6"x2"	0 8		
	10	WP	F.B. 7½"x2"	0 11		
	10	RP	F.B. 7"x2"	1 0		
	10	MP	F.B. 8"x1½"	1 8		
	40	FB1	F.B. 2"x1"	0 5¼		
	20	KP	F.B. 1¾"x⅜"	0 4		
	20	d1	1" Ø bar	0 1½		
FPC-2	5		SHOP ASSY.			
	5	SP1	F.B. 7"x2"	10 8		
	5	WP1	F.B. 7½"x2"	1 2		
	5	MP1	PL 10"x1½"	1 8		
	20	FB2	F.B. 3½"x1"	0 5½		
	10	KP	F.B. 1¾"x⅜"	0 4		
AB1	40		1" Ø x 1'-3"			
	80	Shop	1" Ø Hex. Nut			
	40	WA	1" Std. Washer			2½" Ø x .8 GA. 1⅛" Ø Hole

NOTE:
Allowance to be made for Machining when cutting above material.

Item 702.103

BEARING MATERIAL TO BE ASTM A36
ANCHOR BOLTS TO BE A7, A36 OR A307
SHOP CONNECTIONS: WELDED
FIELD CONNECTIONS:
HOLES: AS NOTED
PAINT: RED LEAD PER MAINE S.H.C. SPEC.
SOLE PLATES "SP", "SP1" FIELD WELDED TO STRINGERS

BEARING DETAILS

Bancroft & Martin Inc.
South Portland, Maine

ROUTE 16 OVER INTERSTATE 95
OLD TOWN, MAINE

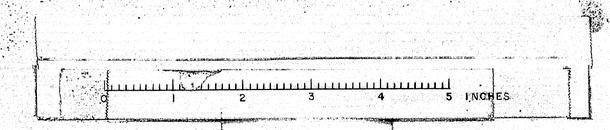
CUSTOMER REED & REED
DESIGNER Maine State Highway Comm.

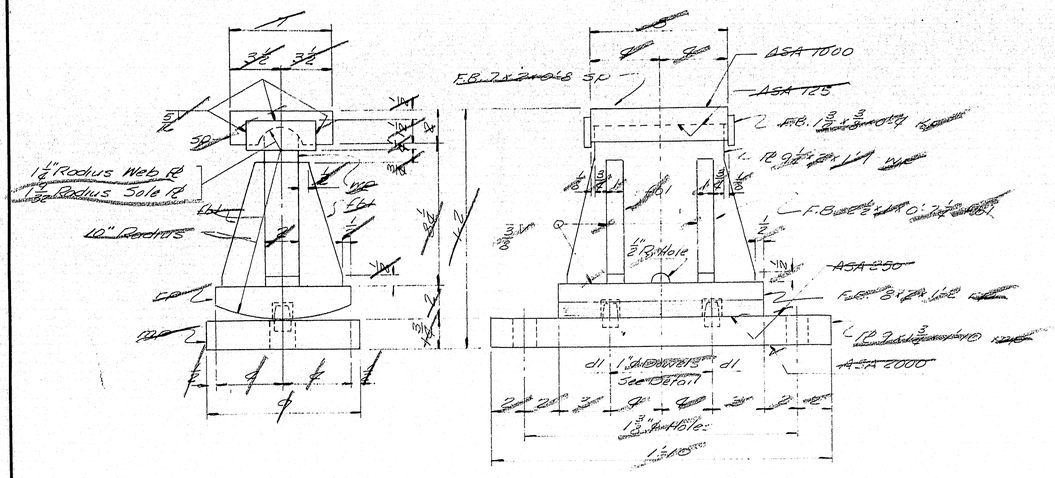
ORDER NO. Rebid DWG. NO. 64-59-51

DRAWN	7-6-66	ML
REVISION		
REVISION		
REVISION		

64-59-51 PAINT

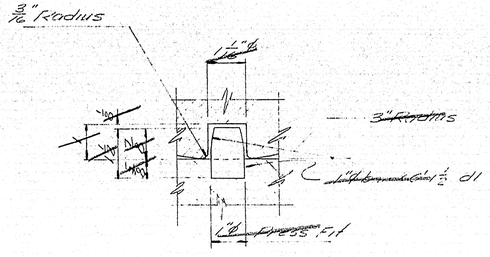
95-165



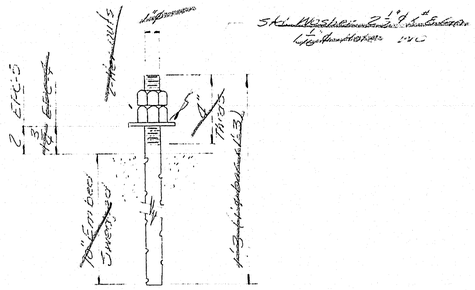


EXPANSION PEDESTAL EPC-5

5 - Required

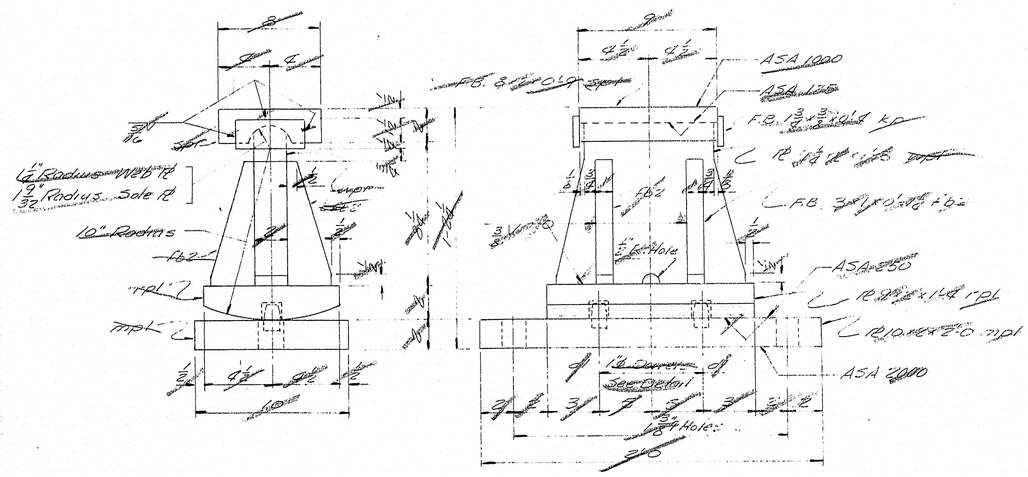


DOWEL DETAIL



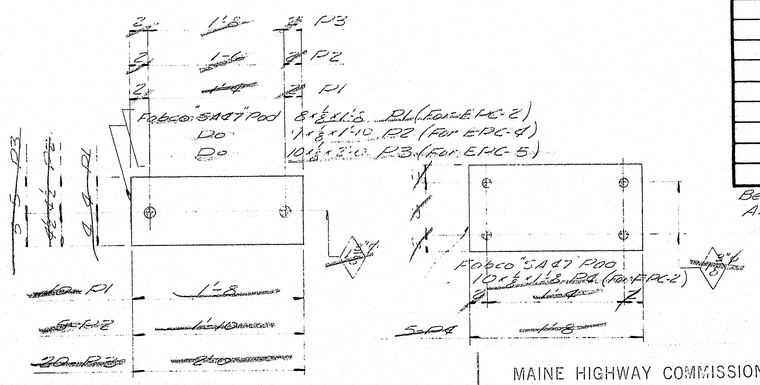
ANCHOR BOLT A.B.

50 - Req'd.



EXPANSION PEDESTAL EPC-5

20 - Required



PAINT NOTE:

No Paint on bottom of Sole Plates "SP", "SP1" and "SP2" and 4" down from top of R2, R2A, R3 sides; coat with Boiled Linseed Oil.

No Paint on surfaces with A.S.A. 125 finish; coat with mixture of White lead and Tallow.

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
EPC-5	20		SHEPARD			
	20	SP1	PL 8"x8"x1⅛"			
	20	WP1	R1 8"x8"x1⅛"			
	20	WP2	R2 8"x8"x1⅛"			
	20	WP3	R3 10½"x2'-0"x1⅛"			
30	40	FB2	FB 3½"x1'-0"x⅜"			
	40	KP	FB 1⅜"x3½"x10" KP			
	40	dH	1" Dia. Hole			
ABL	50		1" Dia. x 3'-3" A.B.			
	100	Shop	1" Hex Nut			
	50	Wash	1" Dia. Plate Washer			2" Dia. x ⅜" Thick Hole
						Fabco "SA47" Pad
						Do
						Do

NOTE:
Allowance to be made from Machining
When cutting above P3.

Bearing material to be ASTM A-36
Anchor bolts to be A.7, A36 or A307

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS:
HOLES: As Noted
PAINT: Red Lead per M.S.H.C. Spec.

Sole Plates "SP, SP1" to be welded to Stringers

MAINE HIGHWAY COMMISSION
BRIDGE DIVISION

Approved .....
Bridge Design Engineer

4-8 ....., 1964

DRAWN	4-6-64	H.L.
REVISION		
REVISION		
REVISION		

BEARING DETAILS

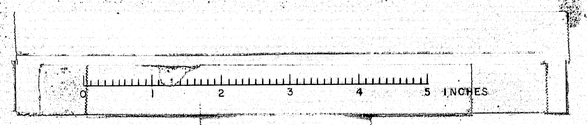
Bancroft & Martin Inc.
South Portland 7, Maine

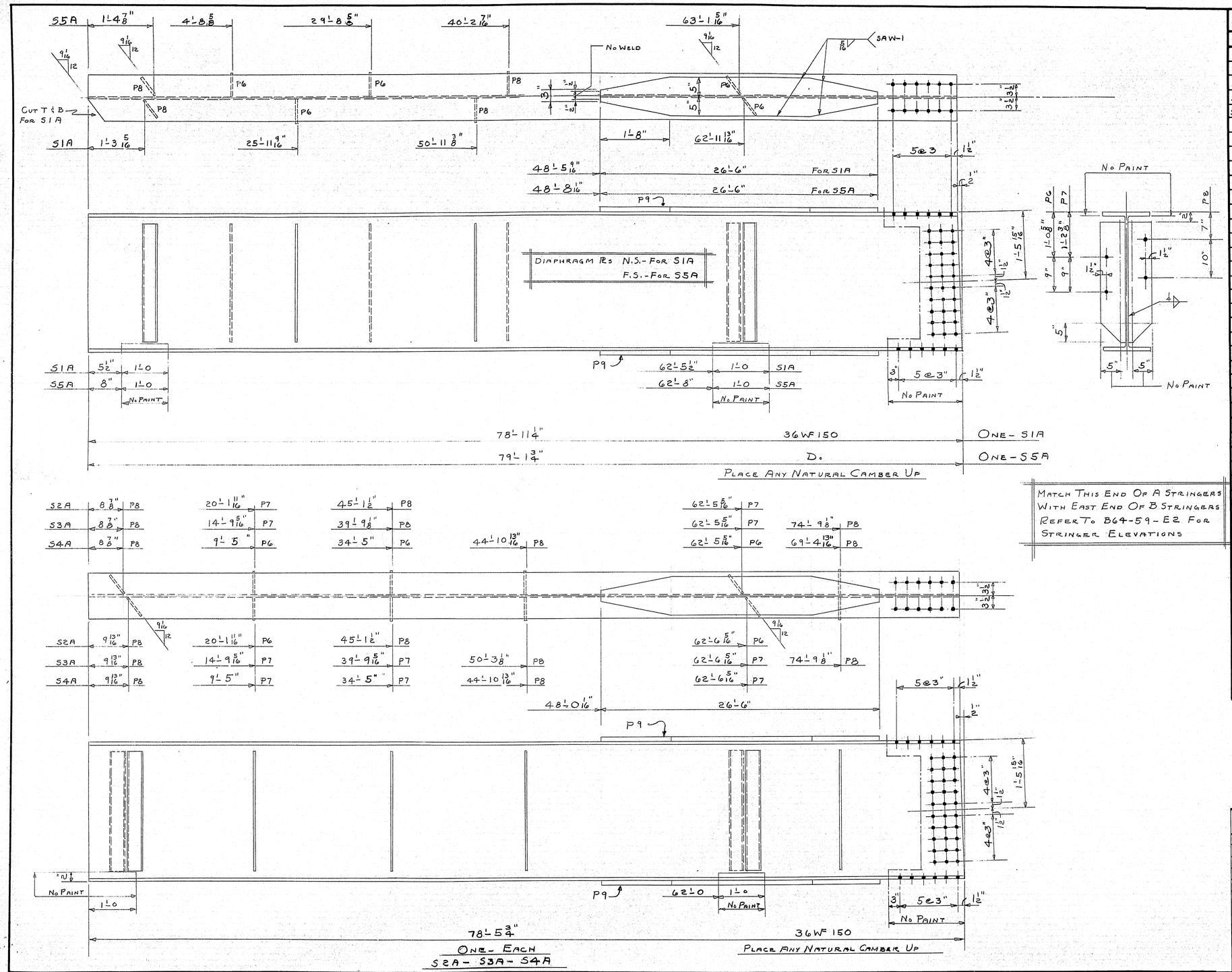
ROUTE 16 OVER INTERSTATE 95
OLD TOWN, MAINE.

CUSTOMER Reed & Reed
DESIGNER M.S.H.C. BRIDGE DIV.

ORDER NO. Verbal | DWG. NO. 64-59-52

95-104





MATCH THIS END OF A STRINGERS WITH EAST END OF B STRINGERS REFER TO B64-59-E2 FOR STRINGER ELEVATIONS

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
51A	1		36WF150	78	11 1/4		A36
52A	1		D.	78	5 3/4		A36
53A	1		D.	78	5 3/4		A36
54A	1		D.	78	5 3/4		A36
55A	1		D.	79	1 3/4		A36
	10	P9	PL 10x1 3/16	26	6		A36
	10	P6	PL 6x3/8	2	7		A7 OR A36
	10	P7	D.	2	7		A7 OR A36
	19	P8	D.	2	7		A7 OR A36
FIELD	1500		7/8 H.S. BOLT	0	3		HEAVY STRUCT. BOLT & HEAVY NUTS
D.	200		D.	0	3 1/4		
D.	400		D.	0	3 1/2		
D.	480		D.	0	3 3/4		
D.	2580		7/8 H.S. WASHERS				
D.	440		3/4 M. BOLTS	0	1 1/2		FOR DIAPHRAGMS

SHOP CONNECTIONS: WELD - E70 LOW HYDROGEN ELECTRODES UNLESS NOTED
FIELD CONNECTIONS: DO
HOLES: 15/16" ϕ
PAINT: STATE OF MAINE SPEC'S.

APP'D AS NOTED 6-19-64

STRINGERS SPAN A

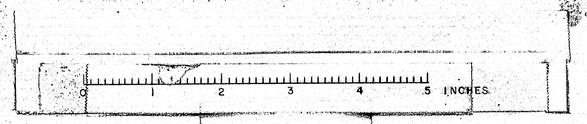
PRINT ISSUE		
5	SHOP	6-25-64
2	S.H.C.	6-25-64
2	S.H.C.	5-4-64
3	CUST.	5-4-64
5	SHOP	5-4-64
2	F.H.A.	4-22-64
DRAWN	4-10-64	D.C.
REVISION		
REVISION		
REVISION		

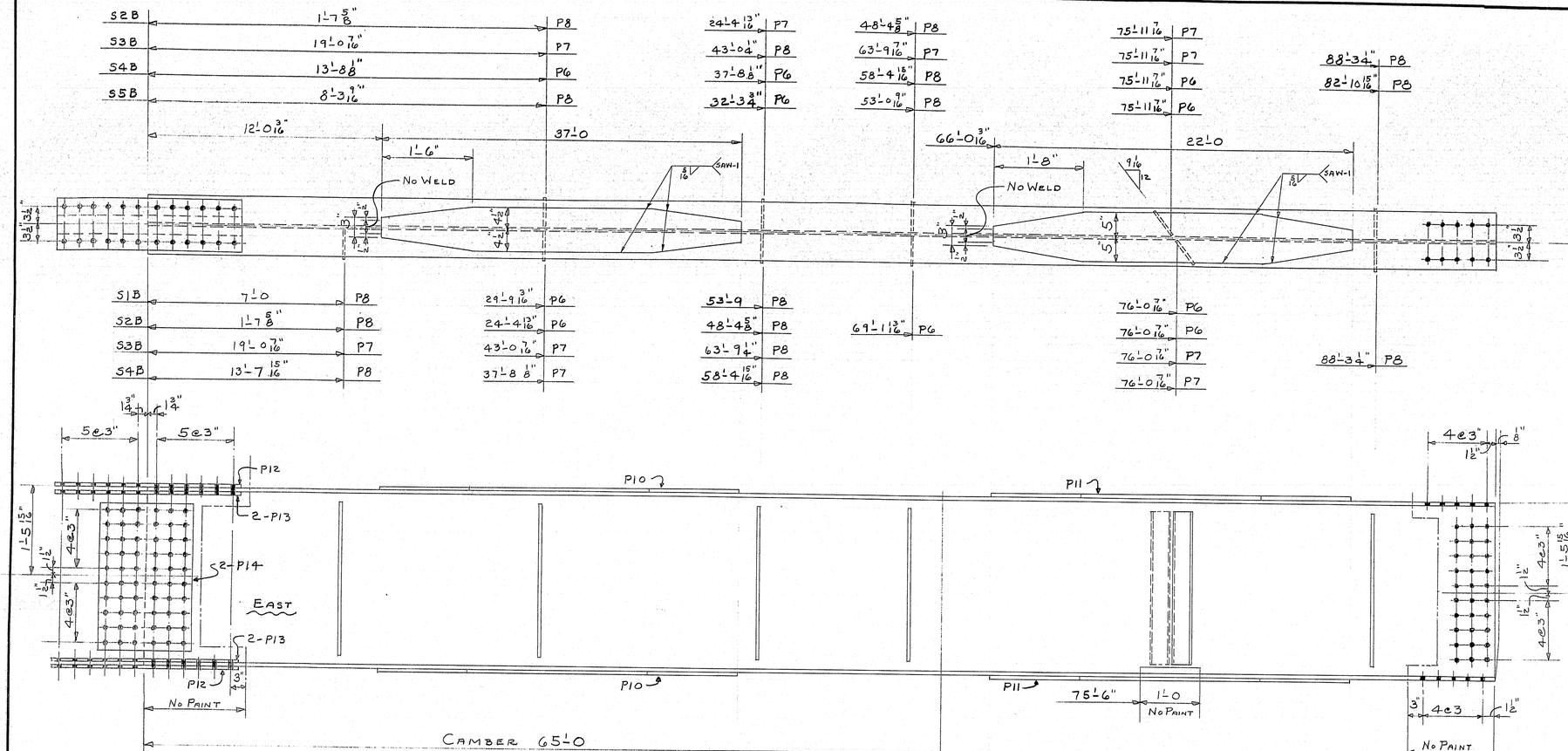
Bancroft & Martin Inc.
Brewer, Maine

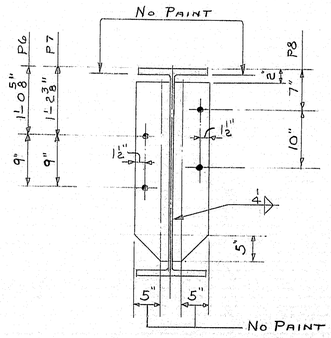
RTE. 16 BRIDGE OVER I-95
OLD TOWN MAINE

CUSTOMER REED & REED
DESIGNER STATE HIGHWAY COMM.

ORDER VERBAL DWG. B64-59-S3







NOTE:
BEFORE MATCHING SPLICES REFER TO DW'G. B64-59-E2 FOR ELEVATIONS

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
S1B	1		36WF150	92	0		CAMBER 65' A36
S2B	1		D°	92	0		D° A36
S3B	1		D°	92	0		D° A36
S4B	1		D°	92	0		D° A36
S5B	1		D°	92	0		D° A36
	10	P10	R 9 x 5/16	37	0		A36
	10	P11	R 10 x 15/16	22	0		A36
	10	P12	R 11 x 1/2	3	0 1/2		A36
	20	P13	R 4 x 13/16	3	0 1/2		A36
	10	P14	R 18 1/2 x 1/2	2	6		A36
	10	P6	R 6 x 3/8	2	7		A7 OR A36
	10	P7	D°	2	7		A7 OR A36
	16	P8	D°	2	7		A7 OR A36

BILL OF MATERIAL DWG. B64-59-S4

SHOP CONNECTIONS: WELD-E70 LOW-HYDROGEN ELECTRODES UNLESS NOTED
FIELD CONNECTIONS: DO
HOLES: 15/16" ø
PAINT: STATE OF MAINE SPEC'S.

APP'D AS NOTED 6-19-64

STRINGERS SPAN B

PRINT ISSUE		
5	SHOP	6-25-64
2	S.H.C.	6-25-64
2	S.H.C.	5-4-64
3	CUST.	5-4-64
5	SHOP	5-4-64
2	F.A.	4-22-64
DRAWN	4-13-64	D.C.
REVISION		
REVISION		
REVISION		

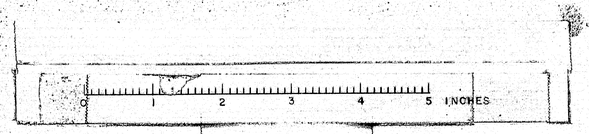
Bancroft & Martin Inc.
Brewer, Maine

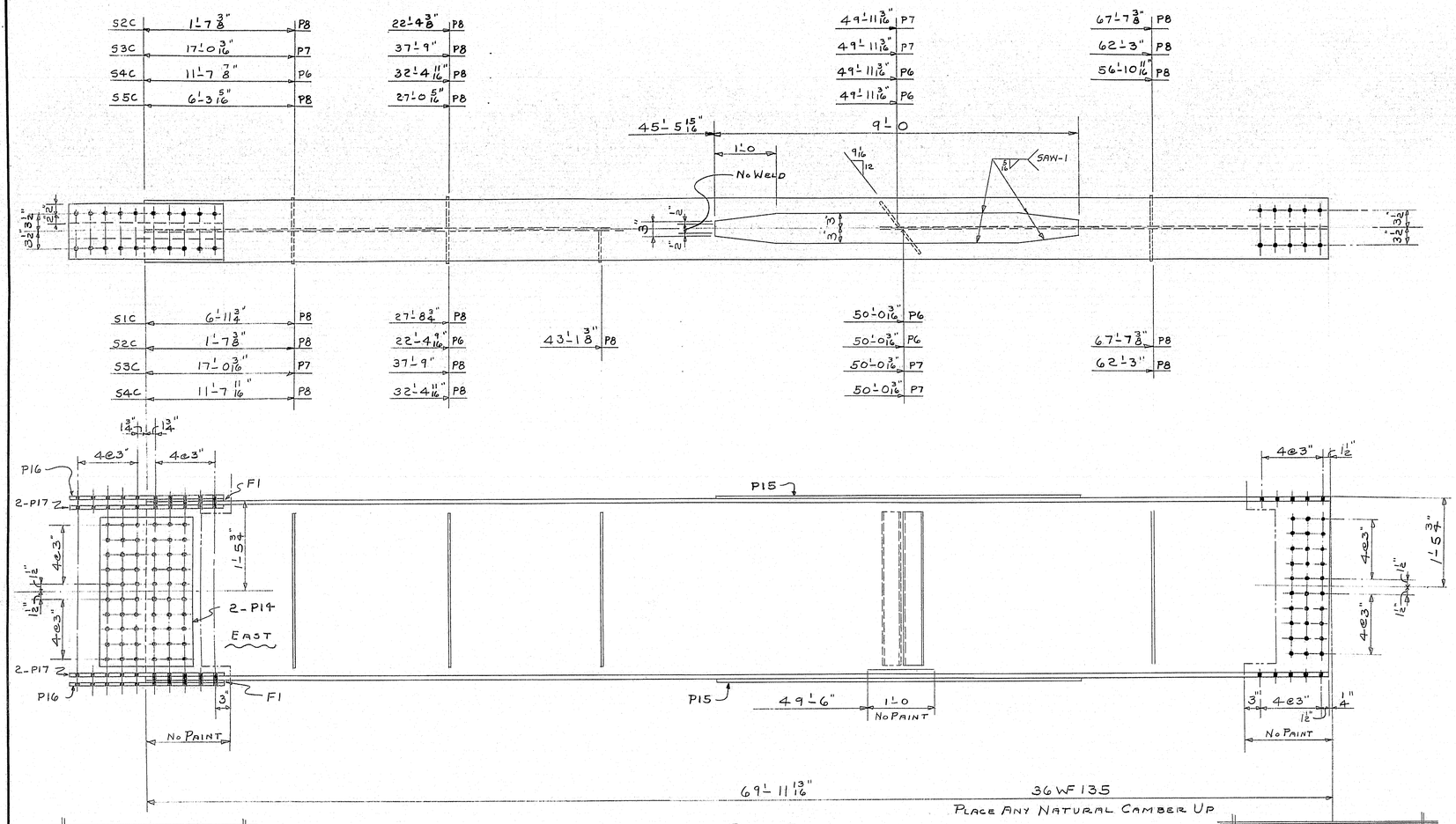
RTE. 16 BRIDGE OVER I-95
OLD TOWN MAINE

CUSTOMER REED & REED
DESIGNER STATE HIGHWAY COMM.

ORDER VERBAL DWG. B64-59-S4

[redacted]





SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
S1C	1		36WF135	69 11 13/16		A36
S2C	1		D°	69 11 13/16		A36
S3C	1		D°	69 11 13/16		A36
S4C	1		D°	69 11 13/16		A36
S5C	1		D°	69 11 13/16		A36
	10	P15	PL 6 x 3/8	9 0		A36
	10	P14	PL 18 1/2 x 1/2	2 6		A36
	10	P16	PL 11 x 7/16	2 6 1/2		A36
	20	P17	L 4 x 11/16	2 6 1/2		A36
	10	F1	PL 11 x 3/16	1 3		FILLER A7 OR A36
	6	P6	PL 6 x 3/8	2 7		A7 OR A36
	6	P7	D°	2 7		A7 OR A36
	18	P8	D°	2 7		A7 OR A36

BILL OF MATERIAL — DWG. B64-59-55

SHOP CONNECTIONS: WELD-E70 LOW-HYDROGEN ELECTRODE UNLESS NOTED
FIELD CONNECTIONS: D°
HOLES: 15/16" ϕ
PAINT: STATE OF MAINE SPEC'S.

NOTE:
BEFORE MATCHING SPLICES REFER TO DW'G. B64-59-E2 FOR ELEVATIONS.

APP'D AS NOTED 6-19-64

STRINGERS SPAN C

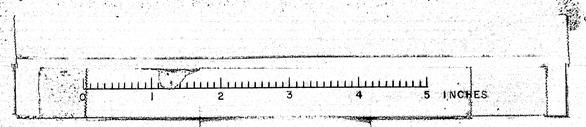
PRINT ISSUE		
5	SHOP	6-25-64
2	S.H.C.	6-25-64
2	S.H.C.	5-4-64
3	CUST.	5-4-64
5	SHOP	5-4-64
2	F.A.	4-22-64
DRAWN	4-13-64	D.C.
REVISION		
REVISION		
REVISION		

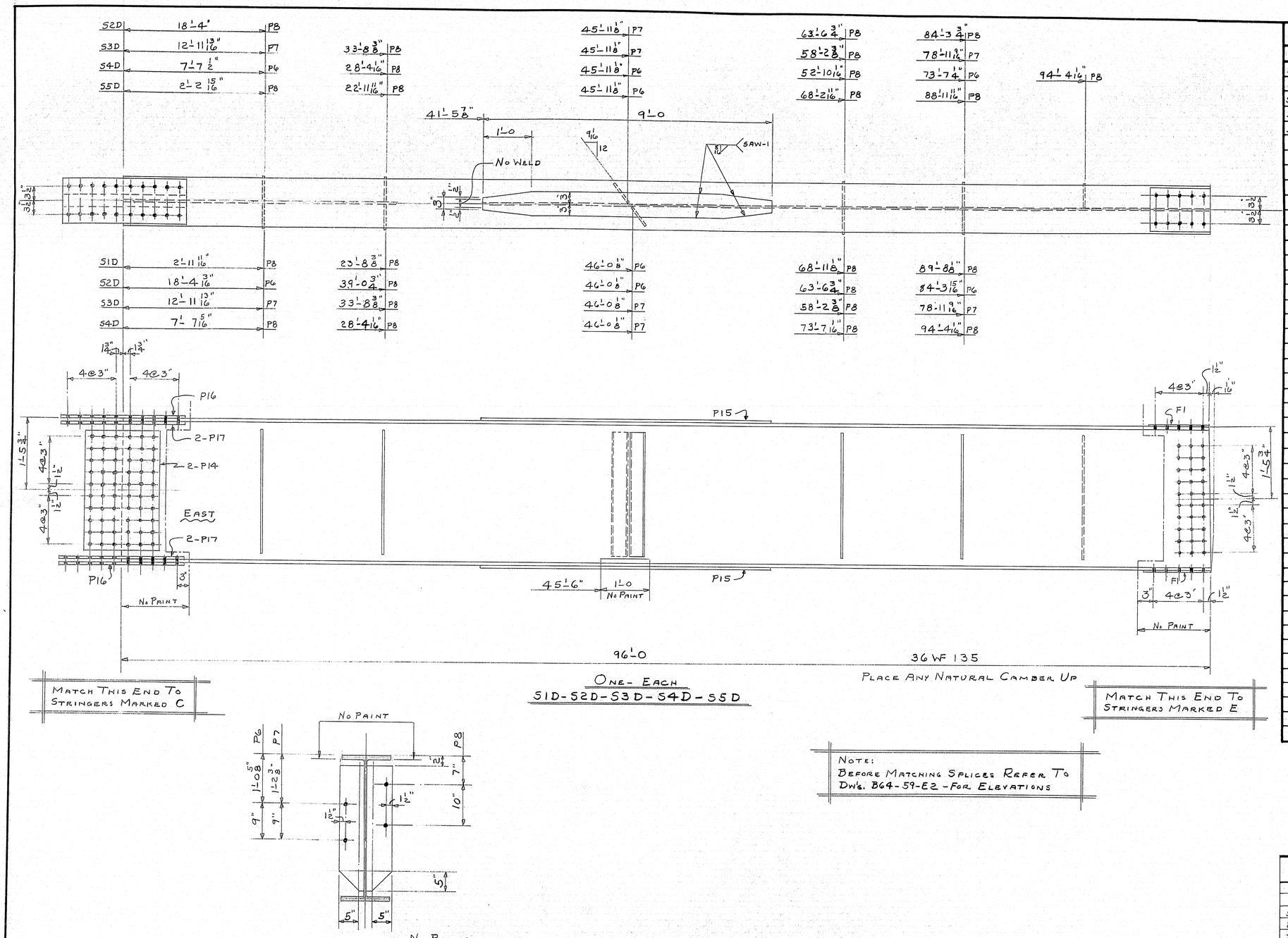
Bancroft & Martin Inc.
Brewer, Maine

RTE. 16 BRIDGE OVER I-95
OLD TOWN MAINE

CUSTOMER REED & REED
DESIGNER STATE HIGHWAY COMM.
ORDER VERBAL DWG. B64-59-S5

95-09





MATCH THIS END TO STRINGERS MARKED C

ONE- EACH
S1D-S2D-S3D-S4D-S5D

PLACE ANY NATURAL CAMBER UP

MATCH THIS END TO STRINGERS MARKED E

NO PAINT

NOTE:
BEFORE MATCHING SPLICES REFER TO DWG. B64-59-E2 - FOR ELEVATIONS

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
S1D	1		36WF135	96	0		A36
S2D	1		D°	96	0		A36
S3D	1		D°	96	0		A36
S4D	1		D°	96	0		A36
S5D	1		D°	96	0		A36
	10	P15	PL 6 x 3/8	9	0		A36
	10	P16	PL 11 x 7/16	2	6 1/2		A36
	20	P17	PL 4 x 11/16	2	6 1/2		A36
	10	P14	PL 18 1/2 x 1/2	2	6		A36
	10	F1	PL 11 x 3/16	1	3		FILLER A7 OR A36
	8	P6	PL 6 x 3/8	2	7		A7 OR A36
	8	P7	D°	2	7		A7 OR A36
	24	P8	D°	2	7		A7 OR A36

DWG. B64-59-S6

SHOP CONNECTIONS: WELD-E70 LOW-HYDROGEN ELECTRODES UNLESS NOTED
FIELD CONNECTIONS: DO
HOLES: 15/16"ϕ
PAINT: STATE OF MAINE SPEC'S.

APP'D 6-19-64

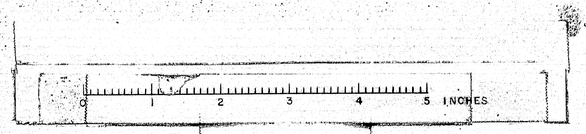
STRINGERS SPAN D

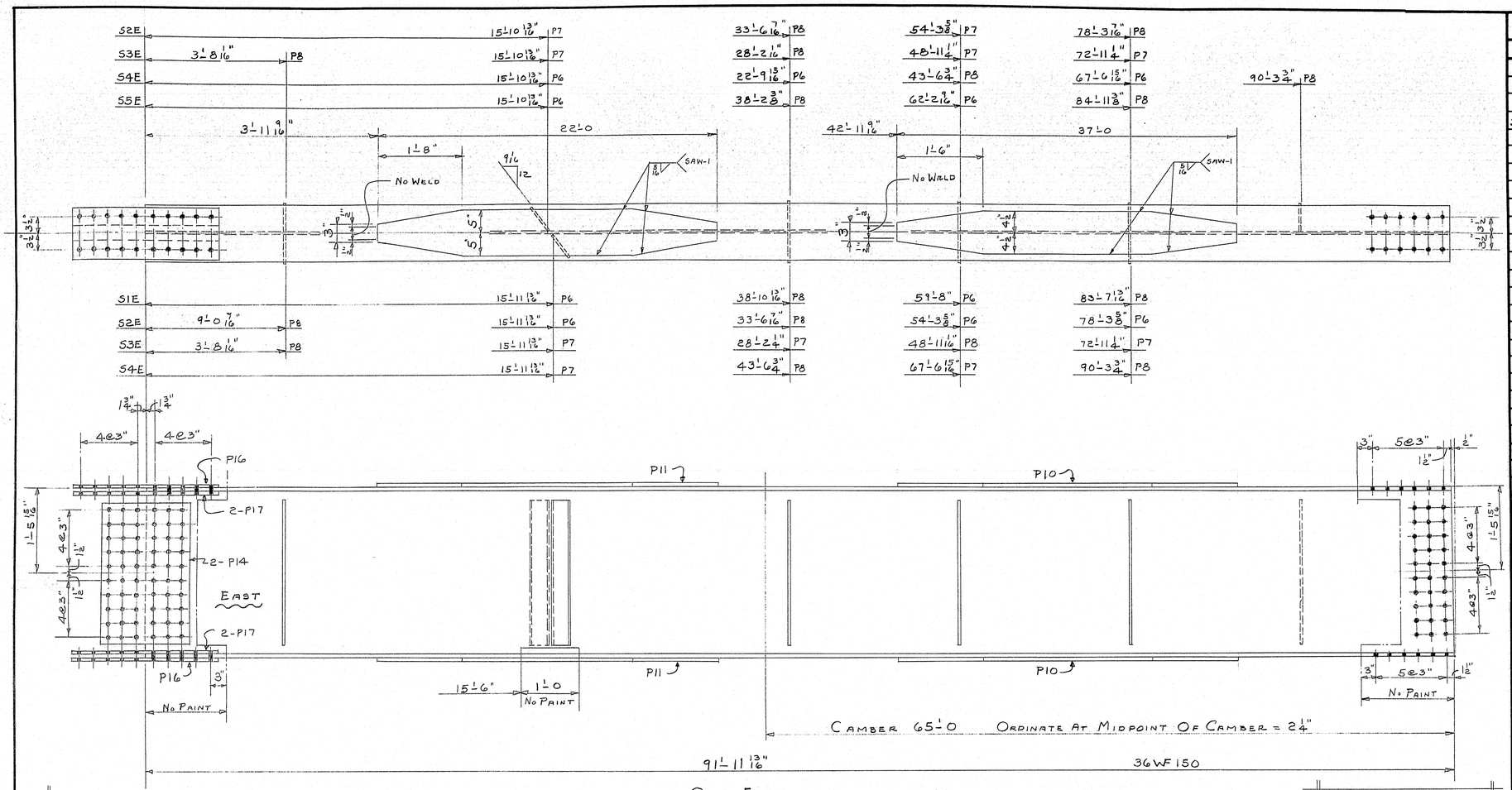
PRINT ISSUE		
5	SHOP	6-25-64
2	S.H.C.	6-25-64
2	S.H.C.	5-4-64
3	CUSTR	5-4-64
5	SHOP	5-4-64
2	F.R.	4-22-64
DRAWN	4-14-64	D.C.
REVISION		
REVISION		
REVISION		

Bancroft & Martin Inc.
Brewer, Maine

RTE 16 BRIDGE OVER I-95
OLD TOWN MAINE

CUSTOMER REED & REED
DESIGNER STATE HIGHWAY COMM.
ORDER VERBAL DWG. B64-59-S6

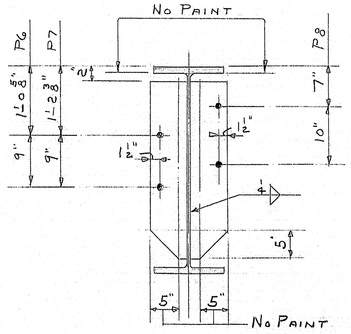




MATCH THIS END TO STRINGERS MARKED D

ONE EACH
S1E - S2E - S3E - S4E - S5E

MATCH THIS END TO STRINGERS MARKED F



NOTE:
BEFORE MATCHING SPLICES REFER TO DWG. B64-59-E2 FOR ELEVATIONS

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
S1E	1		36WF150	91	11 13/16		CAMBER 65'-0 A36
S2E	1		D.	91	11 13/16		D. A36
S3E	1		D.	91	11 13/16		D. A36
S4E	1		D.	91	11 13/16		D. A36
S5E	1		D.	91	11 13/16		D. A36
	10	P10	PL 9 x 5/8	37	0		A36
	10	P11	PL 10 x 15/16	22	0		A36
	10	P14	PL 18 1/2 x 1/2	2	6		A36
	10	P16	PL 11 x 7/16	2	6 1/2		A36
	20	P17	PL 4 x 11/16	2	6 1/2		A36
	10	P6	PL 6 x 3/8	2	7		A7 OR A36
	10	P7	D.	2	7		A7 OR A36
	16	P8	D.	2	7		A7 OR A36

SHOP CONNECTIONS: WELD - E70 - LOW-HYDROGEN ELECTRODES UNLESS NOTED
FIELD CONNECTIONS: D.
HOLES: 15/16 ø
PAINT: STATE OF MAINE SPEC's.

APP'D AS NOTED 6-19-69

STRINGERS SPAN E

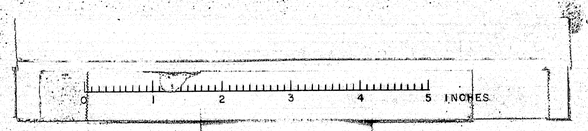
PRINT ISSUE		
5	SHOP	6-25-69
2	S.H.C.	6-25-69
2	S.H.C.	5-9-69
3	CUST.	5-9-69
5	SHOP	5-9-69
2	F.A.	4-22-69
DRAWN	4-19-69	D.C.
REVISION		
REVISION		
REVISION		

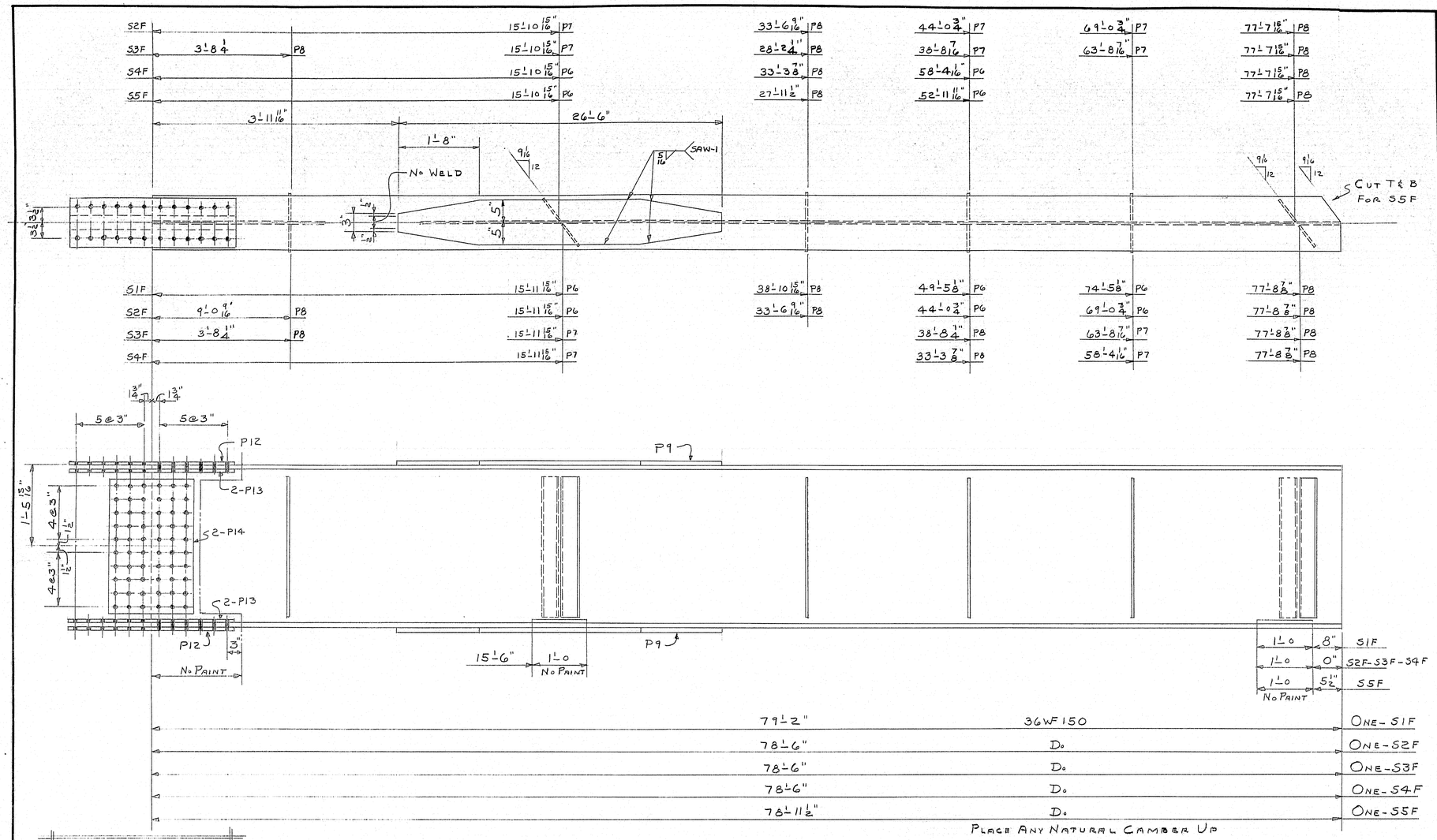
Bancroft & Martin Inc.
Brewer, Maine

RTE. 16 BRIDGE OVER I-95
OLD TOWN MAINE

CUSTOMER REED & REED
DESIGNER STATE HIGHWAY COMM.

ORDER VERBAL DWG. B64-59-S7

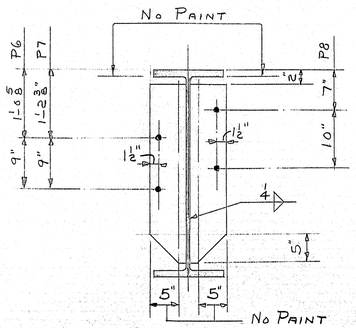




79'-2"	36WF150	ONE-S1F
78'-6"	Do.	ONE-S2F
78'-6"	Do.	ONE-S3F
78'-6"	Do.	ONE-S4F
78'-11 1/2"	Do.	ONE-S5F

PLACE ANY NATURAL CAMBER UP

MATCH THIS END TO STRINGERS MARKED E



SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
S1F	1		36WF150	79	2		A36
S2F	1		Do.	78	6		A36
S3F	1		Do.	78	6		A36
S4F	1		Do.	78	6		A36
S5F	1		Do.	78	11 1/2		A36
	10	P9	PL 10 x 1 3/16	26	6		A36
	10	P12	PL 11 x 1/2	3	0 1/2		A36
	20	P13	PL 4 x 1/16	3	0 1/2		A36
	10	P14	PL 18 1/2 x 1/2	2	6		A36
	10	P6	PL 6 x 3/8	2	7		A7 OR A36
	10	P7	Do.	2	7		A7 OR A36
	19	P8	Do.	2	7		A7 OR A36

BILL OF MATERIAL — DWG. B64-59-58

SHOP CONNECTIONS: WELD- E70-LOW-HYDROGEN ELECTRODES UNLESS NOTED
FIELD CONNECTIONS: Do.
HOLES: 15/16" ø
PAINT: STATE OF MAINE SPEC'S.

STRINGERS SPAN F

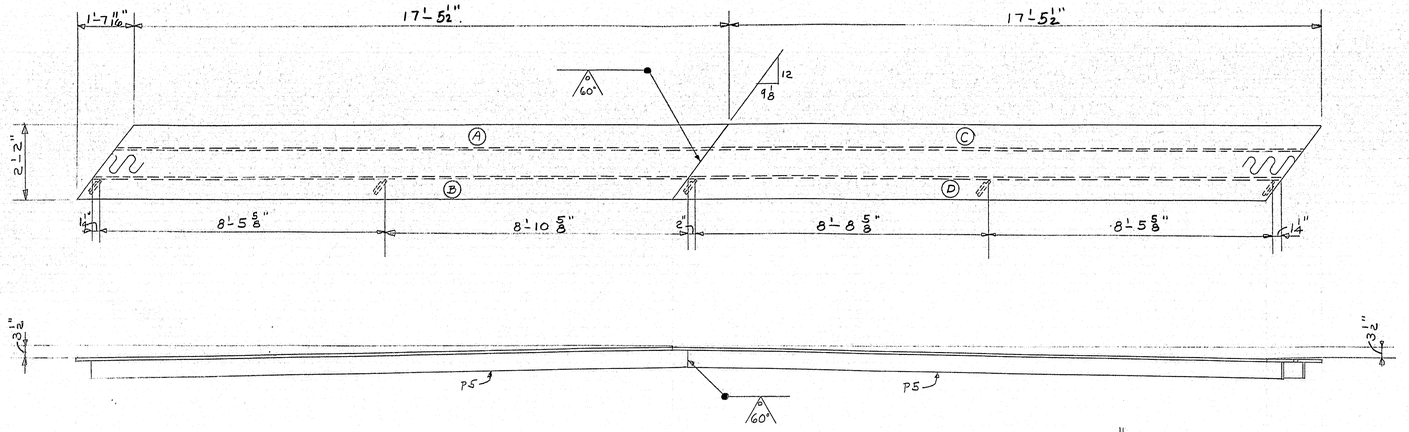
PRINT ISSUE		
2	S.H.C.	6-25-69
2	S.H.C.	5-4-69
3	CUST.	5-9-69
5	SHOP	5-9-69
2	F.A.	4-22-69
DRAWN	4-14-69	D.C.
REVISION		
REVISION		
REVISION		

Bancroft & Martin Inc.
Brewer, Maine

RTE. 16 BRIDGE OVER I-95
OLD TOWN MAINE

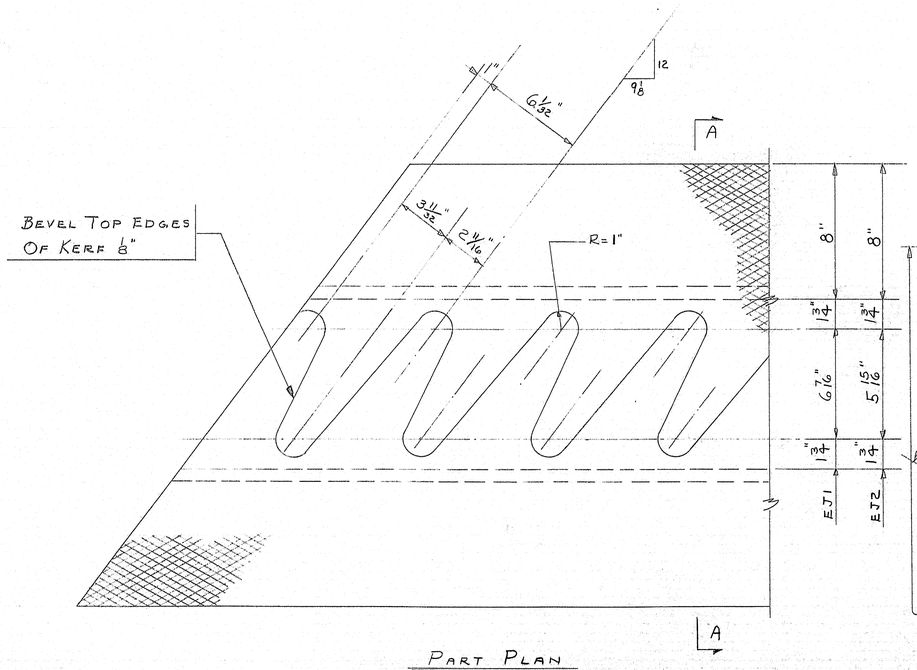
CUSTOMER REED & REED
DESIGNER STATE HIGHWAY COMM.
ORDER VERBAL DWG. B64-59-58

93-113

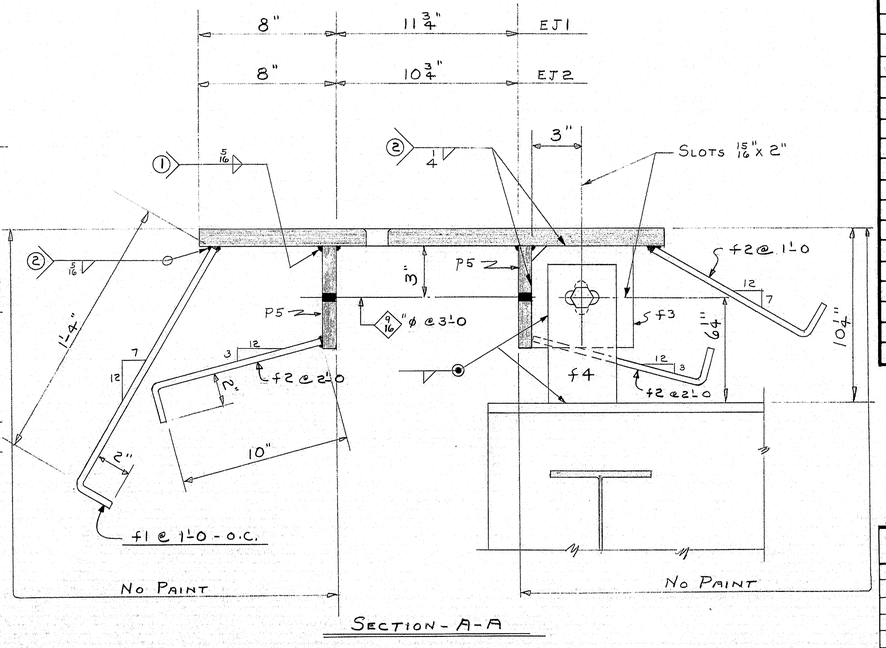


ONE EJ1 @ ABUT #1
ONE EJ2 @ ABUT #2

NOTE
WELDS MARKED ① USE SAW-1
WELDS MARKED ② USE E70 ELECTRODE & PREHEAT TO 200°F OR USE E70 LOW HYDROGEN ELECTRODE



PART PLAN



SECTION - A-A

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
EJ1A	1		UNIT				
EJ1B	1		Do				
EJ1C	1		Do				
EJ1D	1		Do				
EJ2A	1		Do				
EJ2B	1		Do				
EJ2C	1		Do				
EJ2D	1		Do				
	2		PL 26x1	36	6 11/16		CHK'D PL.
	8	P5	PL 6 x 3/4	17	6		
	64	f1	BAR 2x3/8	1	6		
	136	f2	Do	1	0		
	10	f3	PL 6x3/8	0	6		
	10	f4	BAR 4x3/8	0	8 1/4		
	10	SHOP	7/8 H.S.B+LT	0	2 1/4		
	10	Do	7/8 H.S. WASHERS.				

SHOP CONNECTIONS: WELD E70-LOW HYDROGEN
FIELD CONNECTIONS: WELD
HOLES: AS NOTED
PAINT: STATE OF MAINE SPEC'S.

APP'D AS NOTED 4/13/64

EXPANSION JOINTS (BRIDGE DECK)

PRINT ISSUE		
2	S.H.C.	6-25-64
2	S.H.C.	5-4-64
3	CUST.	5-4-64
5	SHOP	4-14-64
2	F.A.	4-9-64
DRAWN	4-8-64	D.C.
REVISION		
REVISION		
REVISION		

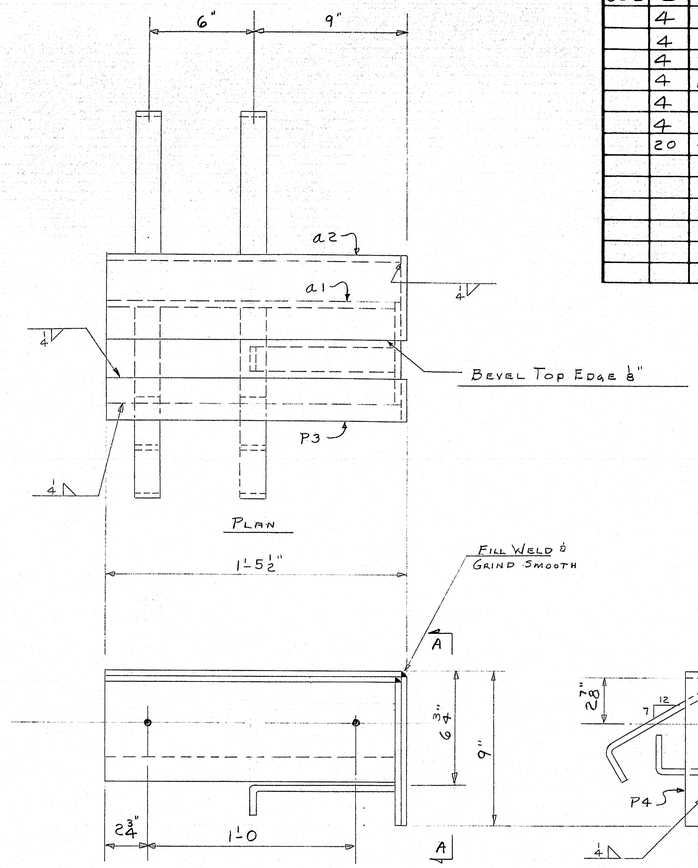
Bancroft & Martin Inc.
Brewer, Maine

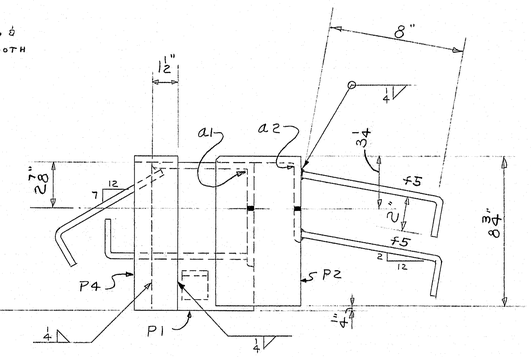
RTE. 16 BRIDGE OVER I-95
OLD TOWN MAINE

CUSTOMER REED & REED
DESIGNER STATE HIGHWAY COMM.
ORDER VERBAL DWG. B64-59-59

95-111

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
SD1	2		CURB DAM				
SD2	2		DO				
	4	a1	6x6x3/8 x	1	4 3/4		
	4	a2	5x5x3/8 x	1	5 1/2		
	4	P1	PL 6x 3/8	0	8 1/4		
	4	P2	PL 5x 3/8	0	8 3/8		
	4	P3	BAR 2 1/2 x 3/8	1	5 1/8		
	4	P4	DO	0	8 5/8		
	20	F5	BAR 1 1/2 x 3/8	0	10		





2 - SD1
2 - SD2 - OPP. HAND.

NOTE:
FOR WELDS USE E70 ELECTRODE & PREHEAT TO 200° F
OR USE E70 LOW HYDROGEN ELECTRODE

SHOP CONNECTIONS: WELD - SEE NOTE
FIELD CONNECTIONS:
HOLES: 13/16 ϕ
PAINT: STATE OF MAIN SPEC'S.
APP'D AS NOTED 4/13/64

CURB DAMS

PRINT ISSUE		
2	S.H.C.	6-25-64
2	S.H.C.	5-4-64
3	CUST.	5-4-64
5	SHOP	4-19-64
2	F.A.	4-9-64
DRAWN	4-8-64	D.C.
REVISION		
REVISION		
REVISION		

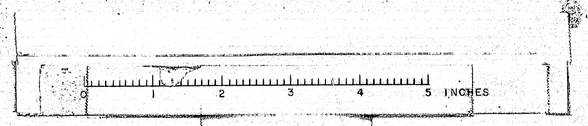
Bancroft & Martin Rolling Mills Company
Brewer, Maine

RTE 16 BRIDGE OVER I-95
OLD TOWN MAINE

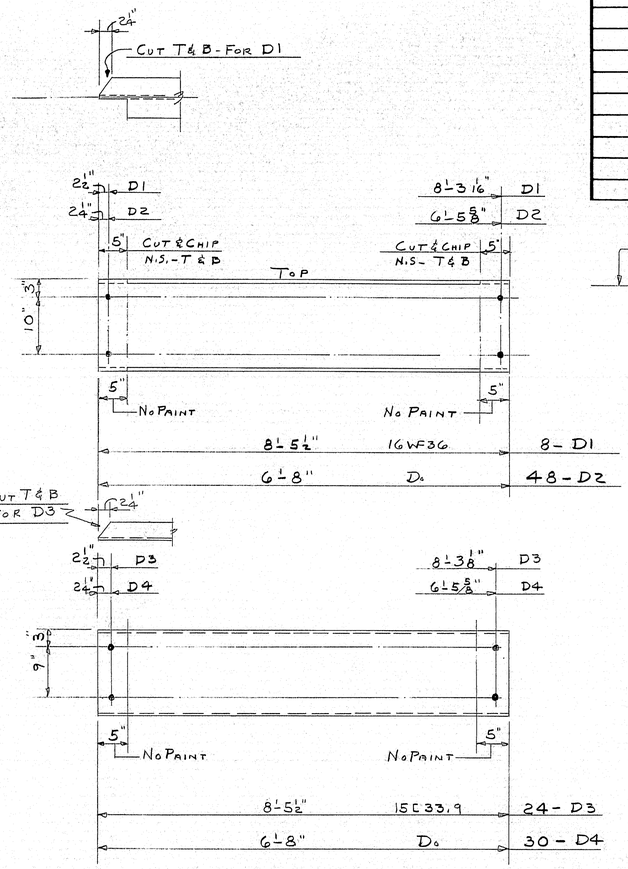
CUSTOMER REED & REED
DESIGNER STATE HIGHWAY COMM.

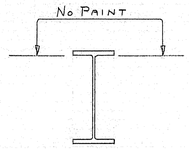
ORDER VERBAL DWG. B64-59-510

95-112



SHIP	BILL OF MATERIAL					DWG. B64-59-S11
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
D1	8		16WF36	8 5½		
D2	48		Do	6 8		
D3	24		15C33.9	8 5½		
D4	30		Do	6 8		





SHOP CONNECTIONS:
FIELD CONNECTIONS:
HOLES: 15/16" ϕ
PAINT: STATE OF MAINE SPEC's,

DIAPHRAGMS

PRINT ISSUE		
2	S.H.C.	6-25-69
2	S.H.C.	5-9-64
3	CUST.	5-9-64
5	SHOP	5-4-64
2	F.A.	4-22-64
DRAWN	4-15-64	D.C.
REVISION		
REVISION		
REVISION		

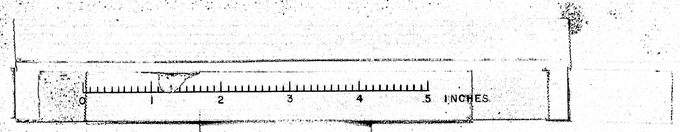
Bancroft & Martin Rolling Mills Company
Brewer, Maine

RTE 16 BRIDGE OVER I-95
OLD TOWN MAINE

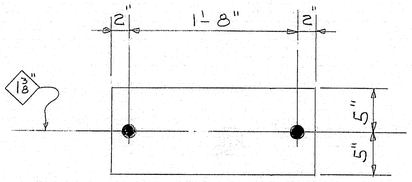
CUSTOMER REED & REED
DESIGNER STATE HIGHWAY COMM.

ORDER VERBAL DWG. B64-59-S11

93-113



SHIP	BILL OF MATERIAL						DWG. B64-59-X1
MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
SP	5		R10 x ½	2	0		



5-SP

THIS IS AN EXTRA

SHOP CONNECTIONS:
FIELD CONNECTIONS:
HOLES:
PAINT:

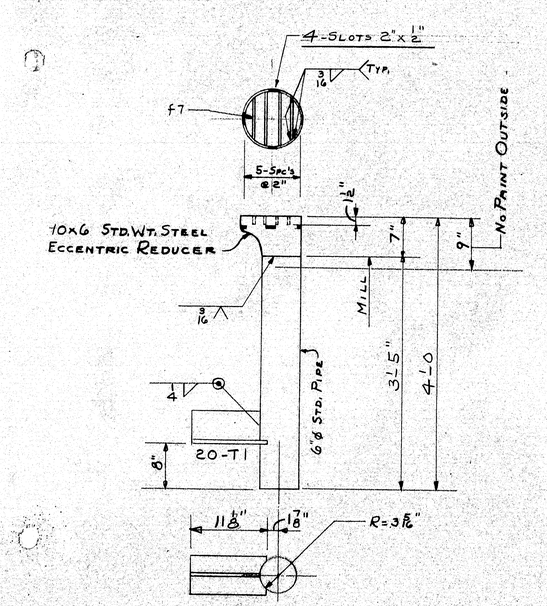
SHIM PLATES

PRINT ISSUE		
5	SHOP	7-29-69
DRAWN	7-29-69	D.C.
REVISION		
REVISION		
REVISION		

Bancroft & Martin Rolling Mills Company
16 Brewer, Maine
RTE 59 OVER INTERSTATE 95
OLD TOWN MAINE
CUSTOMER REED & REED.
DESIGNER
ORDER ____ DWG. B69-59-X1

95-115

SHIP	BILL OF MATERIAL						DWG. B64-59-S12
MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
DP1	20		6" STD. PIPE	3	5		MIE
	20		10x6-STD. STEEL WELDED ECCENTRIC REDUCER				REQ'D
T1	20		STGWF 13.5	0	11⅞		
	80	f7	BAR 1½ x ½	0	10		FIT



20-DP1

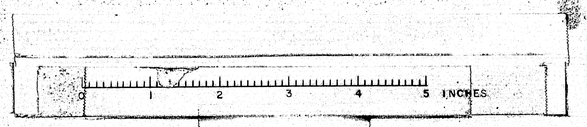
SHOP CONNECTIONS: WELD-E70 LOW HYDROGEN
FIELD CONNECTIONS:
HOLES:
PAINT: STATE OF MAINE SPEC'S.

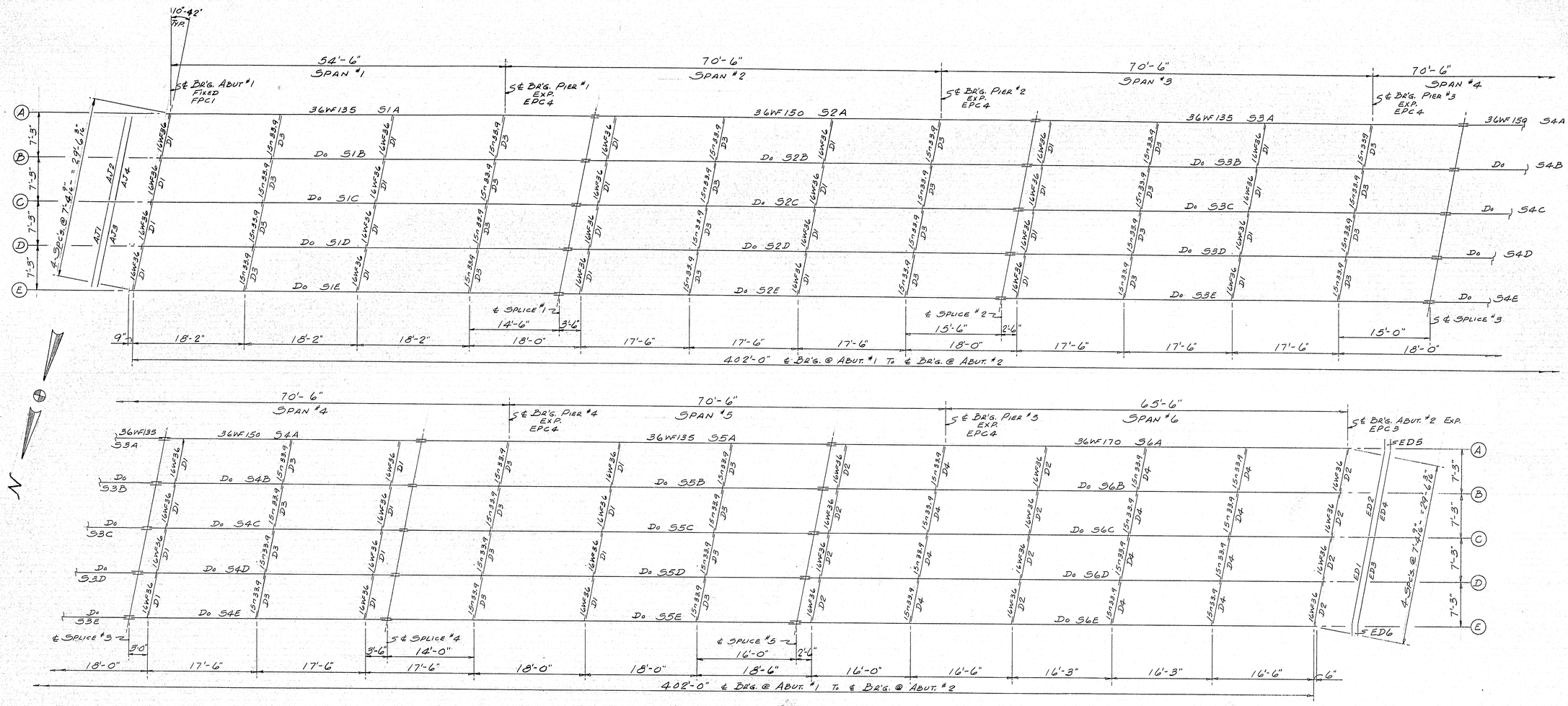
DRAINS

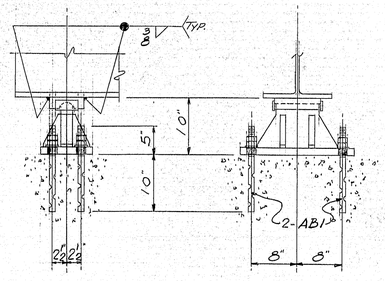
PRINT ISSUE		
2	S.H.C.	6-25-64
2	S.H.C.	5-4-64
3	CUST.	5-4-64
5	SHOP	5-4-64
2	F.A.	4-22-64
DRAWN	4-15-64	D.C.
REVISION		
REVISION		
REVISION		

Bancroft & Martin Rolling Mills Company
Brewer, Maine
RTE 16 BRIDGE OVER I-95
OLD TOWN MAINE
CUSTOMER REED & REED
DESIGNER STATE HIGHWAY COMM.
ORDER VERBAL DWG. B69-59-S12

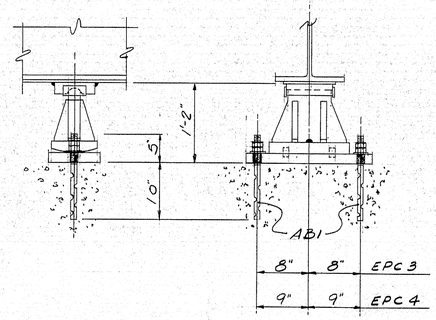
95-114







FIXED BEARING PEDESTAL - FPC-1



EXPANSION BEARING PEDESTALS

NOTES:

All structural steel shall conform to the latest revision of the specification A.S.T.M. designation A-36 unless otherwise noted.

Bolts for splices shall be A.S.T.M. A-325 7/8" ϕ heavy hexagon structural bolts with heavy semi-finished hexagon nuts and one hardened round washer.

Holes in stringers are for high strength bolts. They are to be free from burrs. There shall be no paint within three inches of such open holes.

Subpunch or drill 11/16" ϕ; ream assembled (not with template) parts to be connected in the field to 15/16" ϕ or drill from solid. Match mark all connecting parts before disassembling and supply the engineer with a diagram showing match marks. Set stringers to slope diagram as per drw'g. B64-245-E2 before drilling and reaming.

Fabricate and erect in accordance with M.S.H.C. standard spec's.

SHOP CONNECTIONS: WELD
FIELD CONNECTIONS: 7/8" ϕ H.S. BOLTS
HOLES: 13/16" ϕ
PAINT: STATE SPEC'S.

APP'D. 9-16-64

FRAMING PLAN

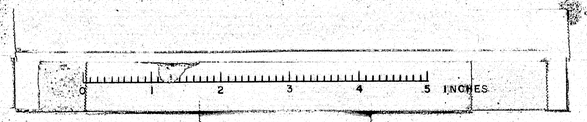
PRINT ISSUE		
2	SHC	10-15-64
3	DIST.	10-15-64
1	SHOP	10-15-64
2	F.A.	9-11-64
DRAWN	9-2-64	R.A.M.
REVISION		
REVISION		
REVISION		

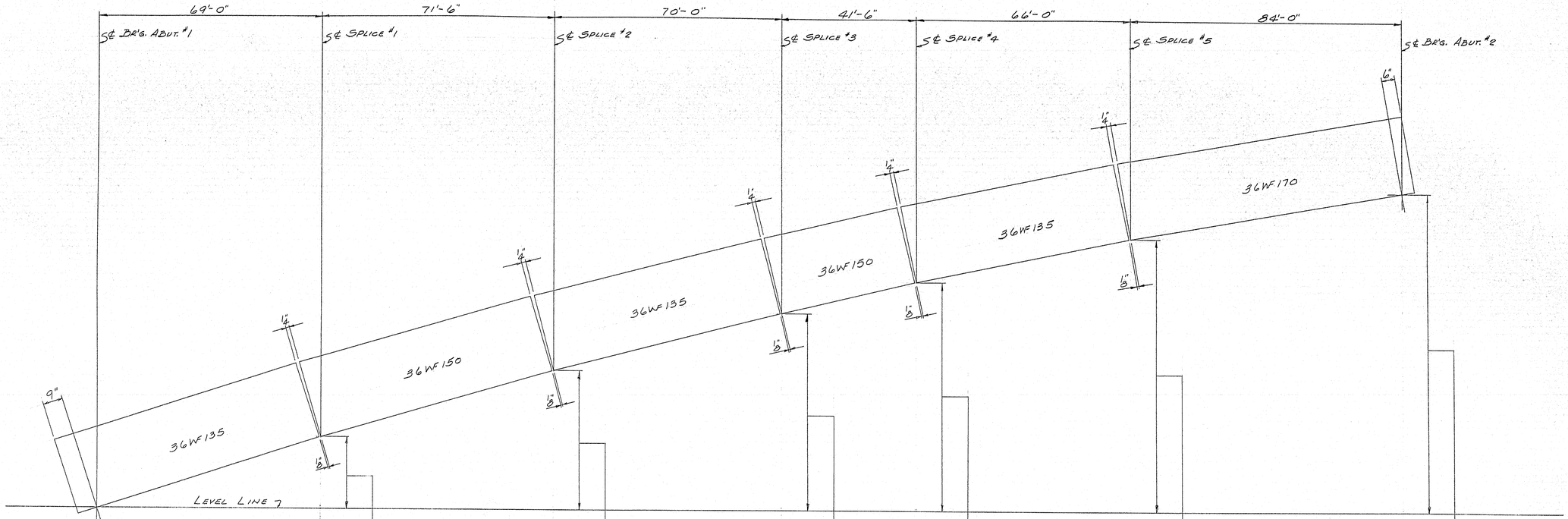
Bancroft & Martin Rolling Mills Company
Brewer, Maine

RTE. #155 OVER INTERSTATE 95
HOWLAND, MAINE

CUSTOMER REED & REED
DESIGNER MAINE STATE HIGHWAY COMM.
ORDER VERBAL DWG. B64-245-E1

95-6

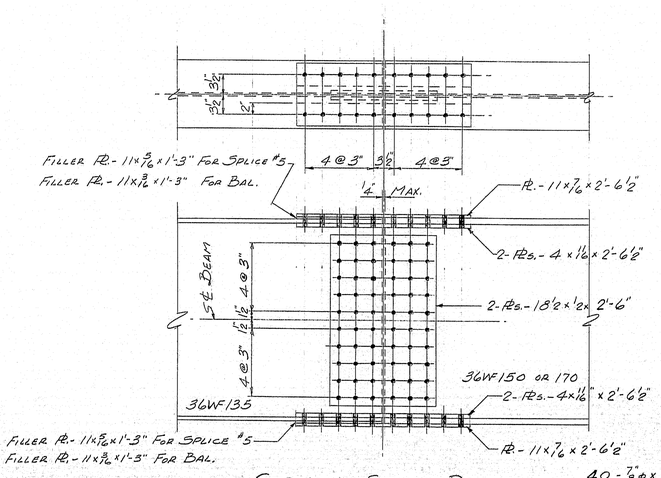




2'-9 13/16"	5'-4 5/16"	7'-7 7/16"	8'-10 4"
2'-9 3/8"	5'-4 5/8"	7'-7 3/4"	8'-10 1/16"
2'-9 1/2"	5'-4 3/4"	7'-8"	8'-10 3/8"
2'-9 5/8"	5'-4 7/8"	7'-8 1/4"	8'-11 1/16"
2'-9 3/8"	5'-4 15/16"	7'-8 5/16"	8'-11 1/4"

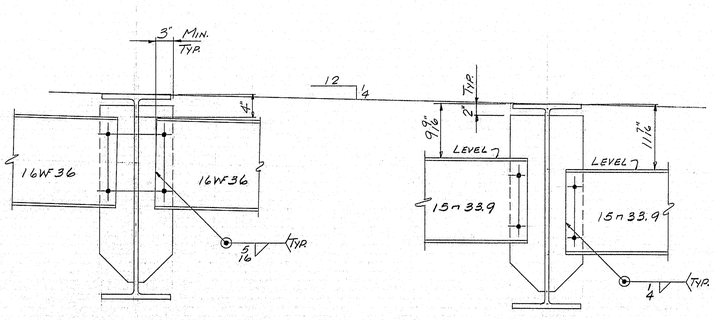
10'-6 3/4"	12'-4 5/8"	LINE "A"
10'-7 3/16"	12'-5 1/4"	LINE "B"
10'-7 1/2"	12'-5 9/16"	LINE "C"
10'-7 7/8"	12'-5 15/16"	LINE "D"
10'-8"	12'-6 3/16"	LINE "E"

STRINGER ELEVATION DIAGRAM



STRINGER SPLICE DETAIL

40 - ⅞"ø x 0'-3½"
60 - ⅞"ø x 0'-3"
H.S. BOLTS REQ'D. PER SPLICE



DIAPHRAGM DETAILS

SHOP CONNECTIONS: WELD
FIELD CONNECTIONS: ⅞"ø H.S. BOLTS
HOLES: 1⅛"ø
PAINT: STATE SPEC'S.

APP'D. AS NOTED 9-16-21

STRINGER ELEVATION DIAGRAM - SPLICE & DIAPHRAGM DETAIL

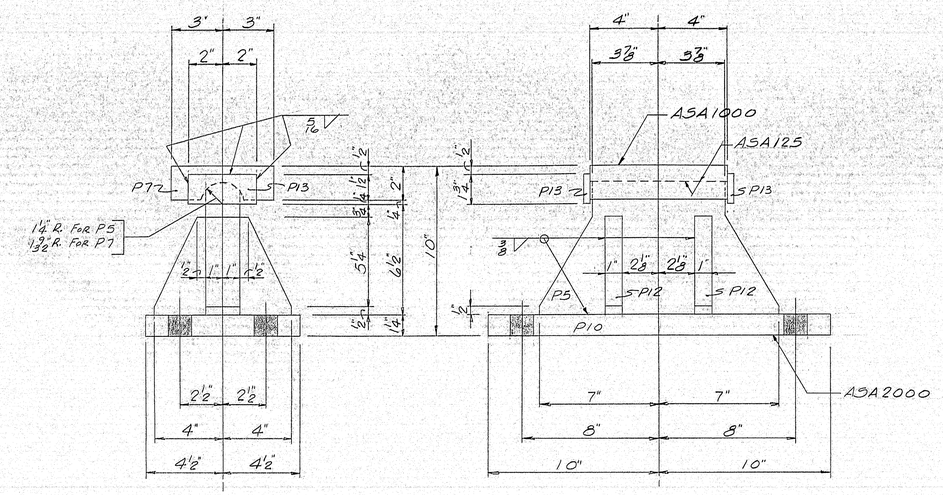
PRINT ISSUE		
2	SHC	10-15-64
1	SHOP	10-15-64
3	DIST.	10-9-64
2	F.A.	9-11-64
DRAWN	9-4-64	R.A.M.
REVISION		
REVISION		
REVISION		

Bancroft & Martin Rolling Mills Company
Brewer, Maine

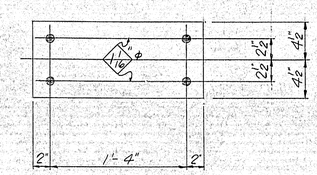
RTE. #155 OVER INTERSTATE 95
HOWLAND, MAINE

CUSTOMER REED & REED
DESIGNER MAINE STATE HIGHWAY COMM.
ORDER VERBAL
DWG B64-245-E2

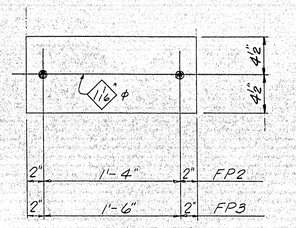
95-7



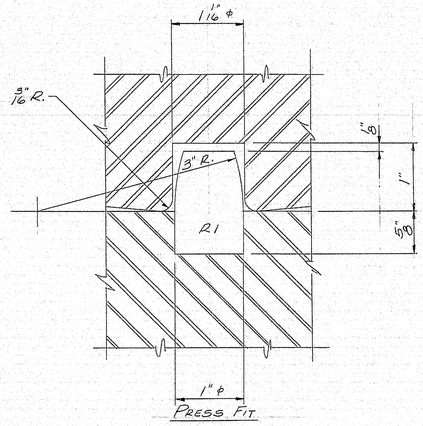
5 - FPC-1



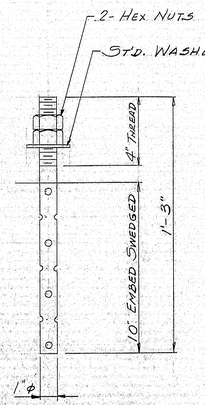
5 - FP1



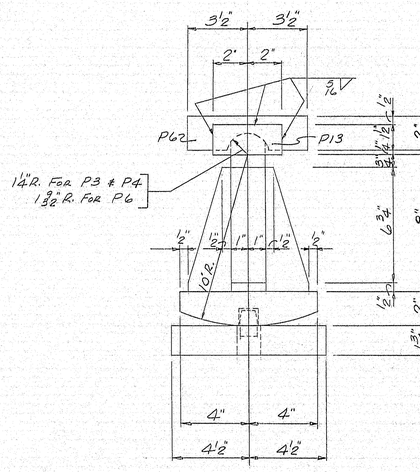
5 - FP2
25 - FP3

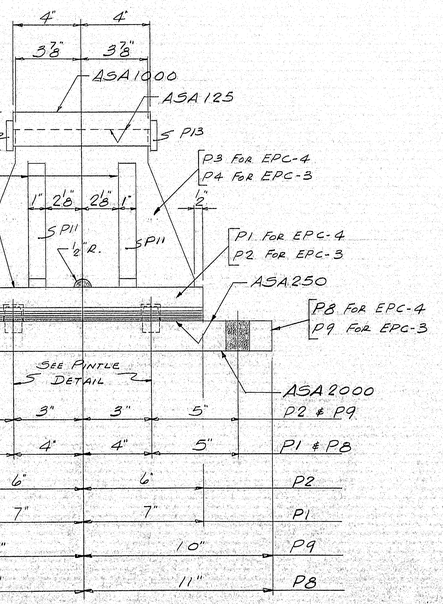


PINTLE DETAIL



80 - AB1





5 - EPC-3
25 - EPC-4

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
FPC-1	5		PEDESTAL			
FPC-3	5		Do			
FPC-4	25		Do			
P1	25		PL.- 8 x 2	1 2		FINISHED
P2	5		Do	1 0		Do
	25	P3	PL.- 9¼ x 2	1 1		Do
	5	P4	Do	0 11		Do
	5	P5	PL.- 7¾ x 2	1 2		Do
P6	30		PL.- 7 x 2	0 8		Do
P7	5		PL.- 6 x 2	0 8		Do
P8	25		PL.- 9 x 1¾	1 10		Do
P9	5		Do	1 8		Do
P10	5		PL.- 9 x 1¼	1 8		Do
	120	P11	PL.- 2½ x 1	0 7¼		
	20	P12	PL.- 3 x 1	0 5¾		
	70	P13	PL.- 1¾ x ⅜	0 4		
	60	R1	ROD- 1" ϕ	0 1½		MACHINED
FP1	5		9 x ⅛	1 8		FABCO PAD SA47
FP2	5		Do	1 8		Do Do Do
FP3	25		Do	1 10		Do Do Do
AB1	80		ROD- 1" ϕ	1 3		SWEDGED
	160		1" ϕ HEX NUT			
	80		1" ϕ STD. WASHER			

REQ. # 3064

SHOP CONNECTIONS: E70 LOW HYDROGEN ELECTRODE & PREHEAT 2" THK. MAT. TO 50°F
FIELD CONNECTIONS: ⅞" ϕ H.S. BOLTS & WELD
HOLES: 1⅜" ϕ U.N.
PAINT: STATE SPEC'S.

APP'D. 9-16-64

PEDESTALS

PRINT ISSUE		
2	S.H.C.	10-15-64
3	DIST.	10-9-64
4	PORT.	9-22-64
2	F.A.	9-11-64
DRAWN	9-8-64	R.A.M.
REVISION		
REVISION		
REVISION		

Bancroft & Martin Inc.
Brewer, Maine

RTE. #155 OVER INTERSTATE #95
HOWLAND, MAINE

CUSTOMER REED & REED
DESIGNER MAINE STATE HIGHWAY COMM.

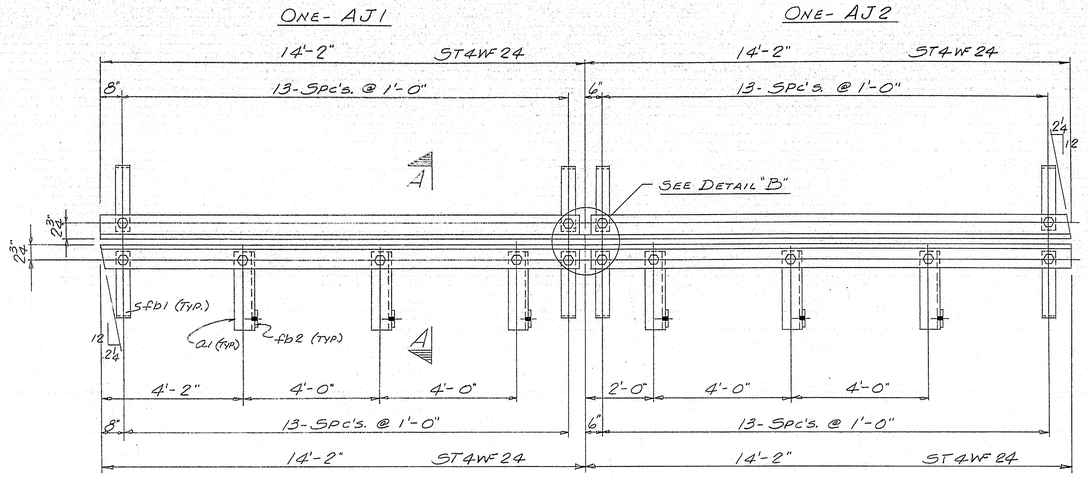
ORDER VERBAL DWG. B64-245-S1

95-8

0 1 2 3 4 5 INCHES

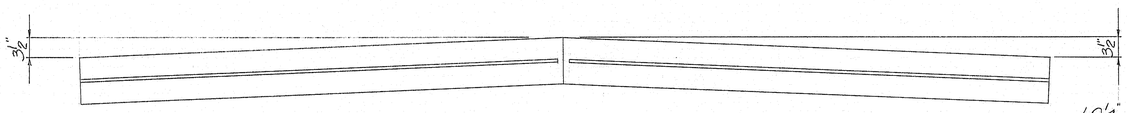
ONE- AJ1

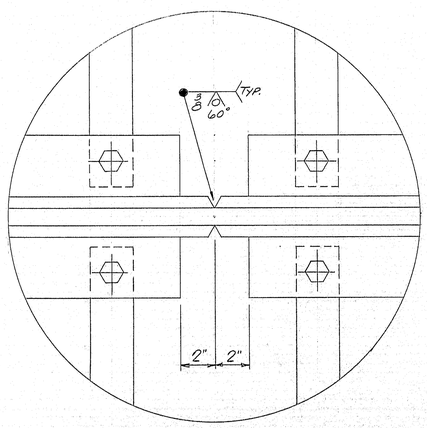
ONE- AJ2



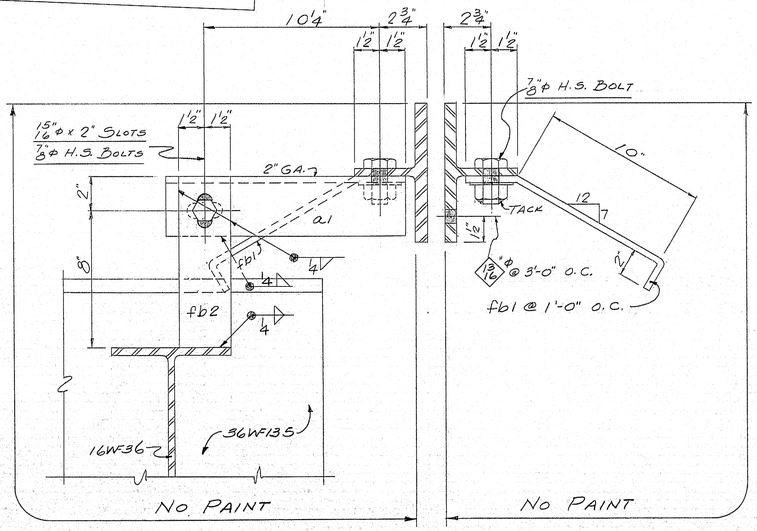
ONE- AJ3

ONE- AJ4





DETAIL "B"



AA

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
AJ1	1		ST4WF24	14	2		
AJ2	1		Do	14	2		
AJ3	1		Do	14	2		
AJ4	1		Do	14	2		
	6	a1	∠-3½x3½x3/8	1	2		
	56	fb1	BAR-2½x3/8	1	3		BENT
	6	fb2	BAR-3x3/8	0	10		
	68	SHOP	7/8" ø H.S. BOLT	0	2¼		HEAVY NUTS A-325
	68	Do	7/8" ø H.S. WASHER				A-325

SHOP CONNECTIONS: 7/8" ø H.S. BOLT
FIELD CONNECTIONS: WELD
HOLES: 15/16" ø U.N.
PAINT: STATE SPEC'S.

APP'D. 9-16-64

ARMORED JOINTS

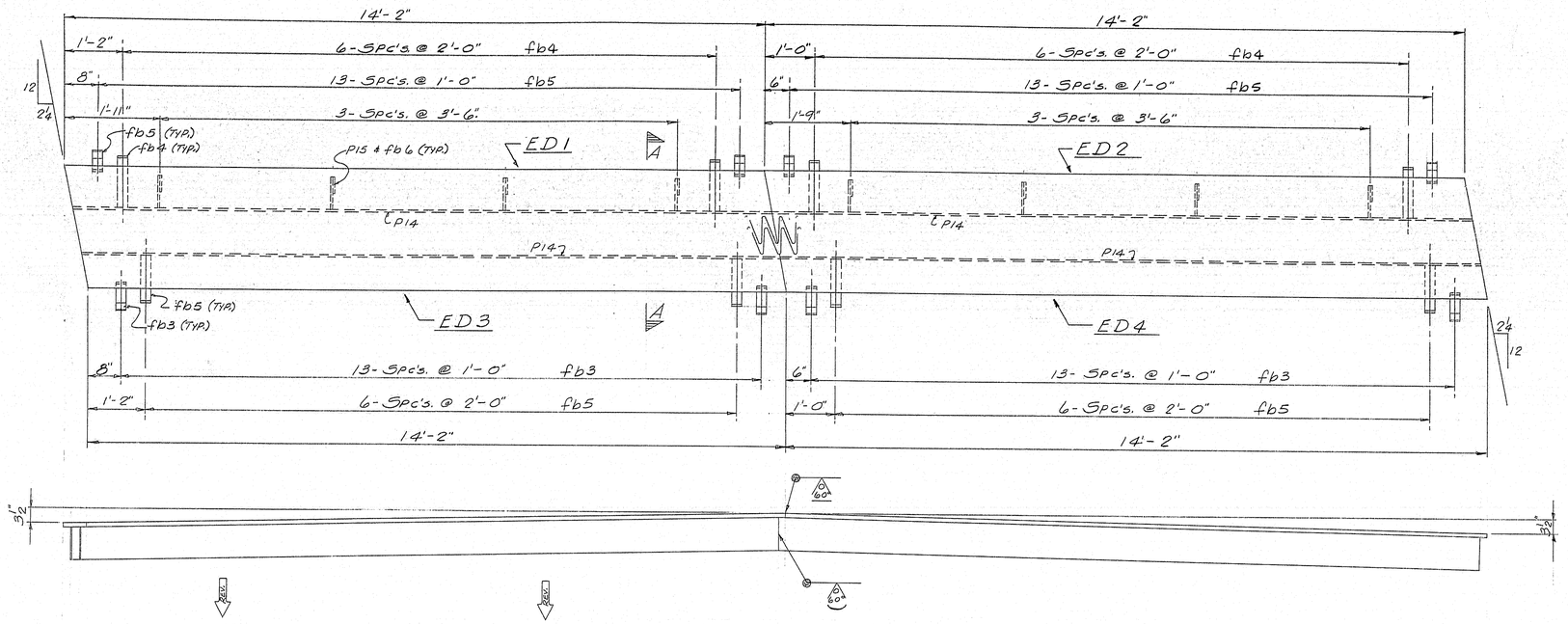
PRINT ISSUE		
2	SHC	10-15-64
3	Dist.	10-9-64
5	Shop	9-28-64
2	F.A.	9-11-64
DRAWN	9-9-64	R.A.M.
REVISION		
REVISION		
REVISION		

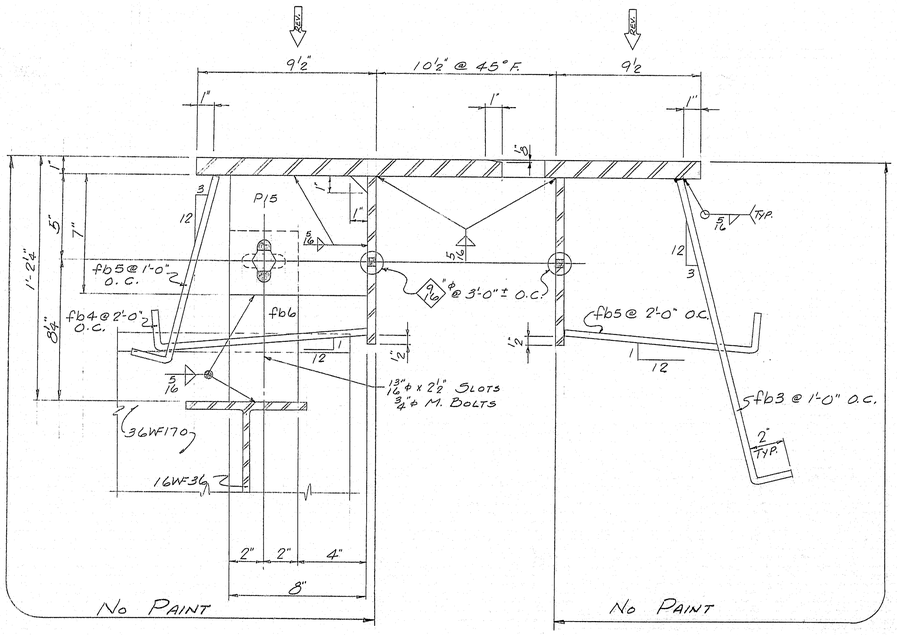
Bancroft & Martin Inc.
Brewer, Maine

RTE. #155 OVER INTERSTATE #95
HOWLAND, MAINE

CUSTOMER REED & REED
DESIGNER MAINE STATE HIGHWAY COMM.
ORDER VERBAL DWG. B64-245-52

95-[illegible] 9





AA

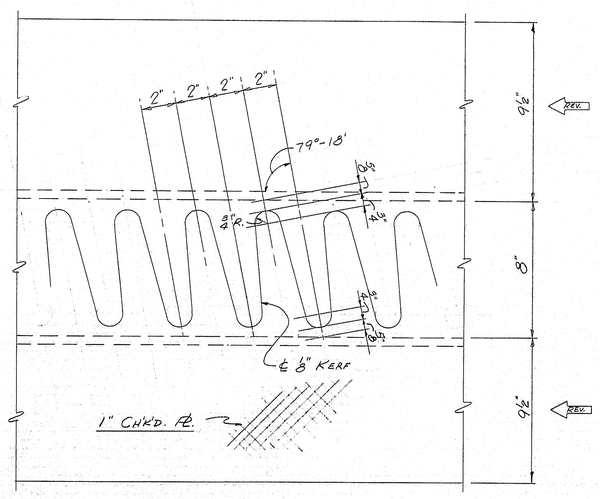


PLATE CUTTING DETAIL

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
ED1	1		ROADWAY EXP. DAM			
ED2	1		Do			
ED3	1		Do			
ED4	1		Do			
	2		RL- 27 x 1	14	7 9/16	CH'K'D. RE.
	4	P14	RL- 8 x 1/2	14	28	
	8	P15	RL- 7 x 3/8	0	8	
	28	fb3	BAR- 2 1/2 x 3/8	1	8	BENT
	14	fb4	Do	1	2	BENT
	42	fb5	Do	1	1	BENT
	8	fb6	BAR- 4 x 3/8	0	10	
	8	SHOP	3/4" ϕ M. BOLT	0	1 3/4	

BILL OF MATERIAL DWG. B64-245-53

SHOP CONNECTIONS: WELD
FIELD CONNECTIONS: WELD
HOLES: AS NOTED
PAINT: STATE SPEC'S.

APP'D. AS NOTED 9-16-64

ROADWAY EXPANSION DAMS

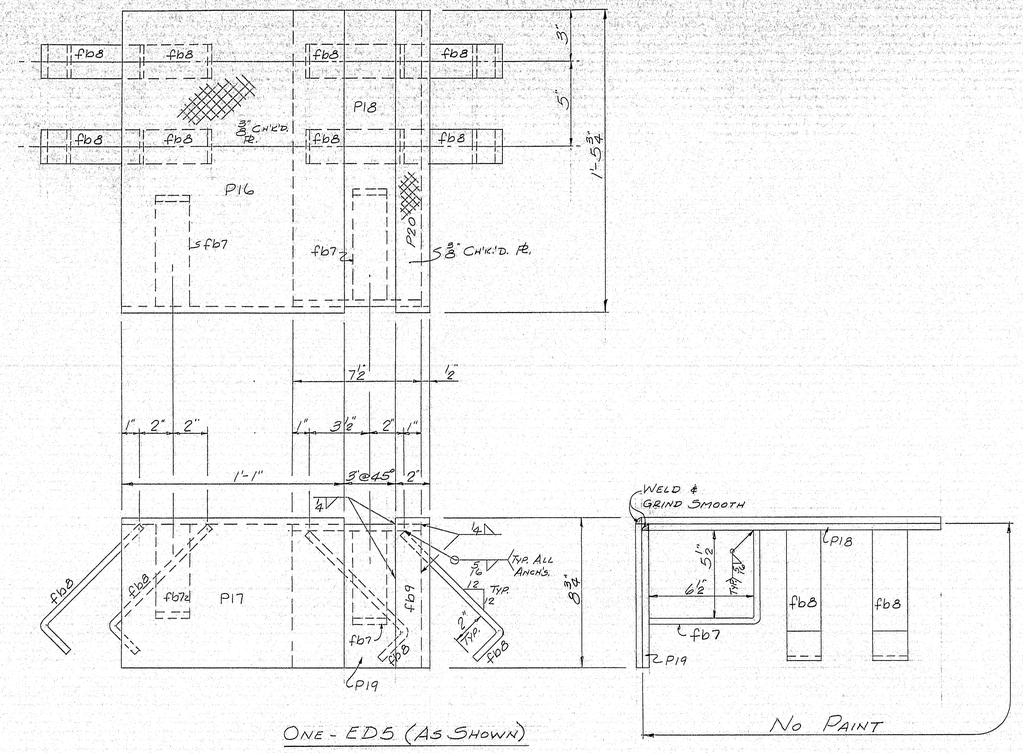
PRINT ISSUE		
2	SHC	10-15-64
3	DIST.	10-9-64
5	SHOP	9-22-64
2	F.A.	9-11-64
DRAWN	9-10-64	R.A.M.
REVISION	10-9-64	R.A.M.
REVISION		
REVISION		

Bancroft & Martin Inc.
Brewer, Maine

RTE. #155 OVER INTERSTATE #95
HOWLAND, MAINE

CUSTOMER REED & REED
DESIGNER MAINE STATE HIGHWAY COMM.
ORDER VERBAL
DWG. B64-245-53

95-10



ONE - ED5 (AS SHOWN)

ONE - ED6 (OPP. HAND)

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
			BILL OF MATERIAL			DWG. B64-245-54
ED5	1		Sidewalk Exp. Dam			
ED6	1		Do			
	2	P16	Pl-13 x 3/8	1 5 3/8		Ch'k'd. Rt.
	2	P20	Pl- 2 x 3/8	1 5 3/8		Do
	2	P17	Pl-8 3/8 x 3/8	1 1		
	2	P18	Pl-7 1/2 x 3/8	1 5		
	2	P19	Do	0 8		
	4	fb7	Bar-2 x 3/8	1 0		Bent
	16	fb8	Do	0 10		Bent
	2	fb9	Do	0 8 3/8		

SHOP CONNECTIONS: WELD
FIELD CONNECTIONS:
HOLES: NONE
PAINT: STATE SPEC'S.

App'd. 9-16-64

SIDEWALK EXPANSION DAMS

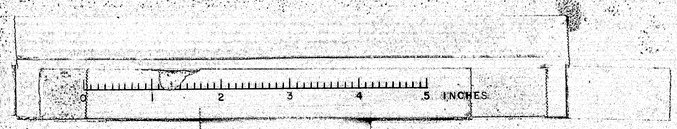
PRINT ISSUE		
2	SHC	10-15-64
3	Dist.	10-9-64
5	Shop	9-22-64
2	F.A.	9-11-64
DRAWN	9-10-64	R.A.M.
REVISION		
REVISION		
REVISION		

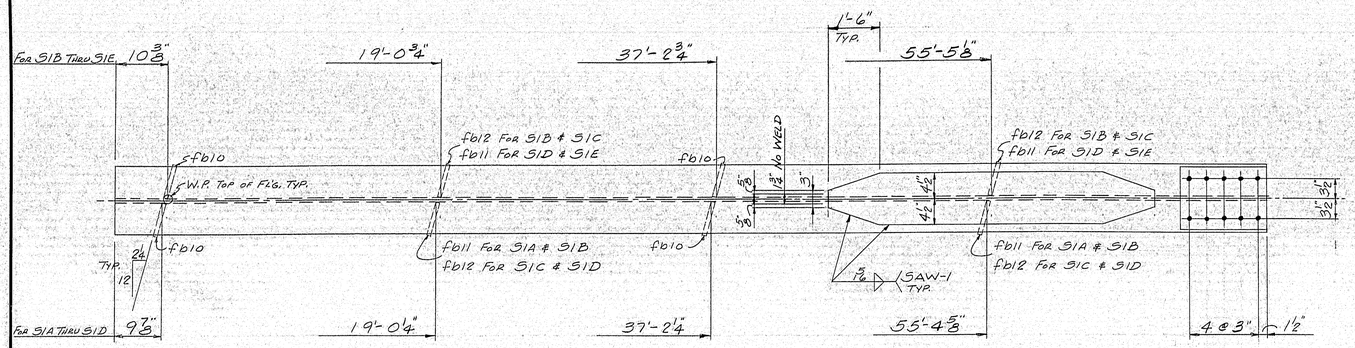
Bancroft & Martin Inc.
Brewer, Maine

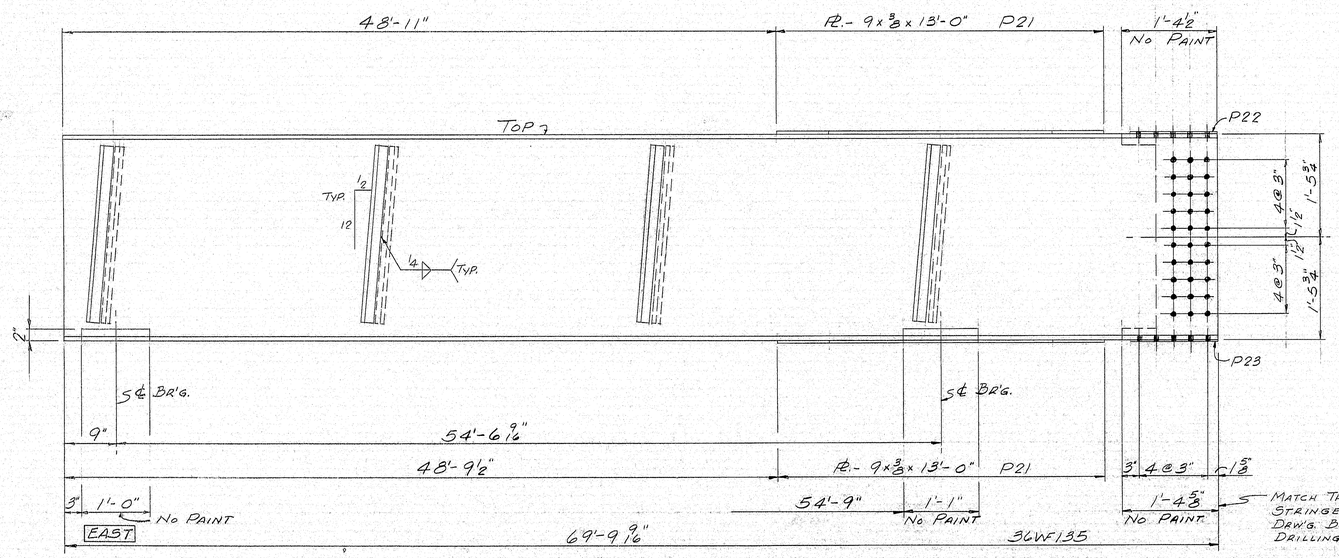
RTE. #155 OVER INTERSTATE #95
HOWLAND, MAINE

CUSTOMER Reed & Reed
DESIGNER Maine State Highway Comm.
ORDER Verbal DWG. B64-245-54

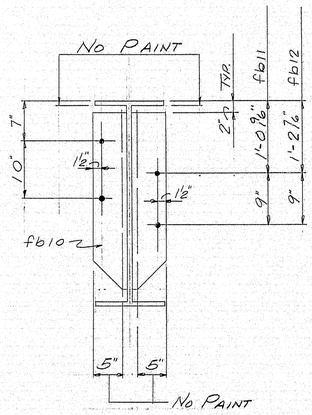
95-11







MATCH THIS END WITH EAST END OF STRINGERS S2A THRU S2E. SEE DRW'G. B64-245-E2 FOR SPLICE DRILLING & ELEVATION DIAGRAM.



SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
S1A	1		36WF135	69 9 1/16		A-36
S1B	1		Do	69 9 1/16		
S1C	1		Do	69 9 1/16		
S1D	1		Do	69 9 1/16		
S1E	1		Do	69 9 1/16		
	10	P21	PL- 9 x 3/8	13 0		
	5	P22	PL- 11 x 3/8	1 3		
	5	P23	Do	1 3 1/16		
	16	fb10	BAR- 6 x 3/8	2 7		
	8	fb11	Do	2 7		
	8	fb12	Do	2 7		
FIELD	1020		7/8" ø H.S. BOLT	0 3 1/2		A325 HEAVY HEAD
Do	1530		Do	0 3		A325 W/HEAVY NUT
Do	400		3/4" ø MACH. BOLT	0 1 3/4		FOR DIAPHRAGMS
Do	2550		7/8" ø H.S. WASHER			A325

E70 LOW HYDROGEN ROD
SHOP CONNECTIONS: UNLESS NOTED
FIELD CONNECTIONS: WELD # 7/8" ø H.S. BOLT
HOLES: 15/16" ø
PAINT: STATE OF MAINE SPEC'S.

APP'D. AS NOTED 10-14-64

ONE - S1A, S1B, S1C, S1D, & S1E

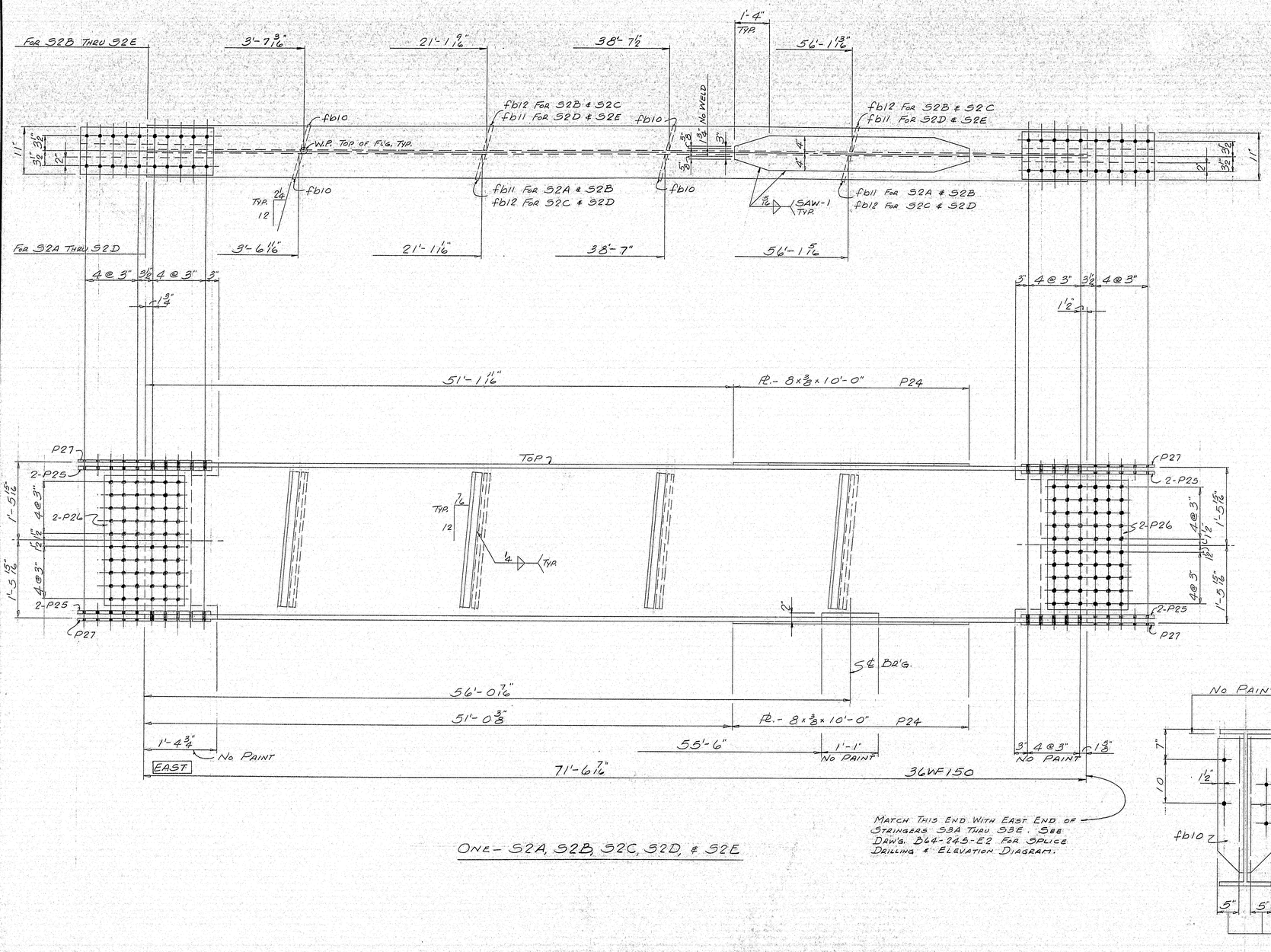
STRINGERS SPAN #1

PRINT ISSUE		
2	SHC	10-15-64
3	DIST.	10-15-64
5	SHOP	10-15-64
2	F.A.	10-8-64
DRAWN	10-3-64	R.A.M.
REVISION		
REVISION		
REVISION		

Bancroft & Martin Inc.
Brewer, Maine

RTE. #155 OVER INTERSTATE #95
HOWLAND, MAINE

CUSTOMER REED & REED
DESIGNER MAINE STATE HIGHWAY COMM.
ORDER VERBAL DWG. B64-245-S5



ONE - S2A, S2B, S2C, S2D, & S2E

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
S2A	1		36WF150	71 6 7/16		A36
S2B	1		Do	71 6 7/16		
S2C	1		Do	71 6 7/16		
S2D	1		Do	71 6 7/16		
S2E	1		Do	71 6 7/16		
	10	P24	R.- 8 x 3/8	10 0		
	40	P25	R.- 4 x 1/16	2 6 1/2		
	20	P26	R.- 18 1/2 x 1/2	2 6		
	20	P27	R.- 11 x 7/16	2 6 1/2		
	16	fb10	BAR- 6 x 3/8	2 7		
	8	fb11	Do	2 7		
	8	fb12	Do	2 7		

BILL OF MATERIAL DWG. B64-245-S6

SHOP CONNECTIONS: E70 LOW HYDROGEN ROD UNLESS NOTED
FIELD CONNECTIONS: WELD & 7/8" ϕ H.S. BOLT
HOLES: 15/16" ϕ
PAINT: STATE OF MAINE SPEC'S.

APP'D. 10-14-64

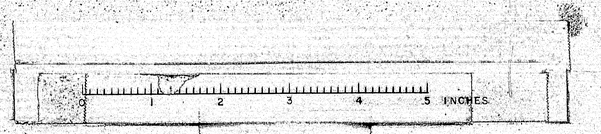
STRINGERS SPAN #2

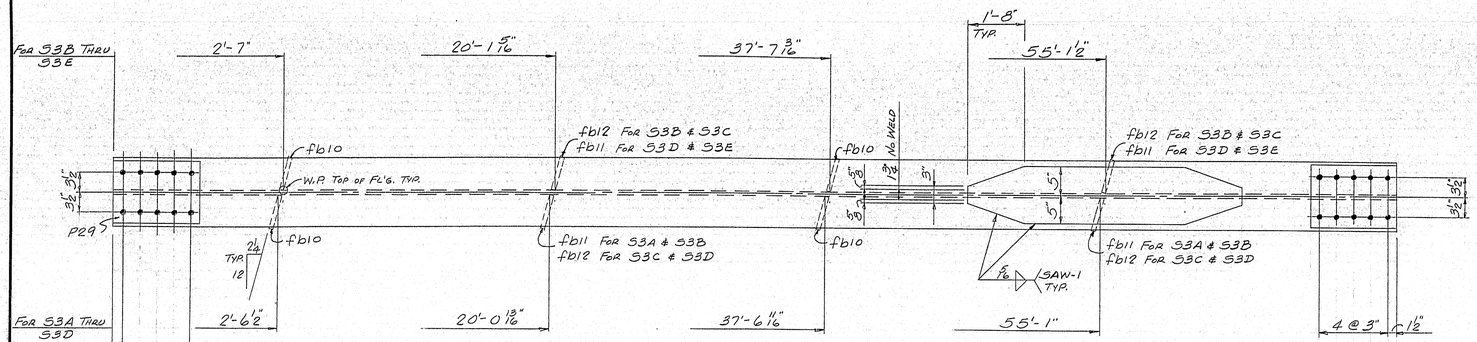
PRINT ISSUE		
2	S.H.C.	10-15-64
3	DIST.	10-15-64
5	SHOP	10-15-64
2	F.A.	10-8-64
DRAWN	10-5-64	R.A.M.
REVISION		
REVISION		
REVISION		

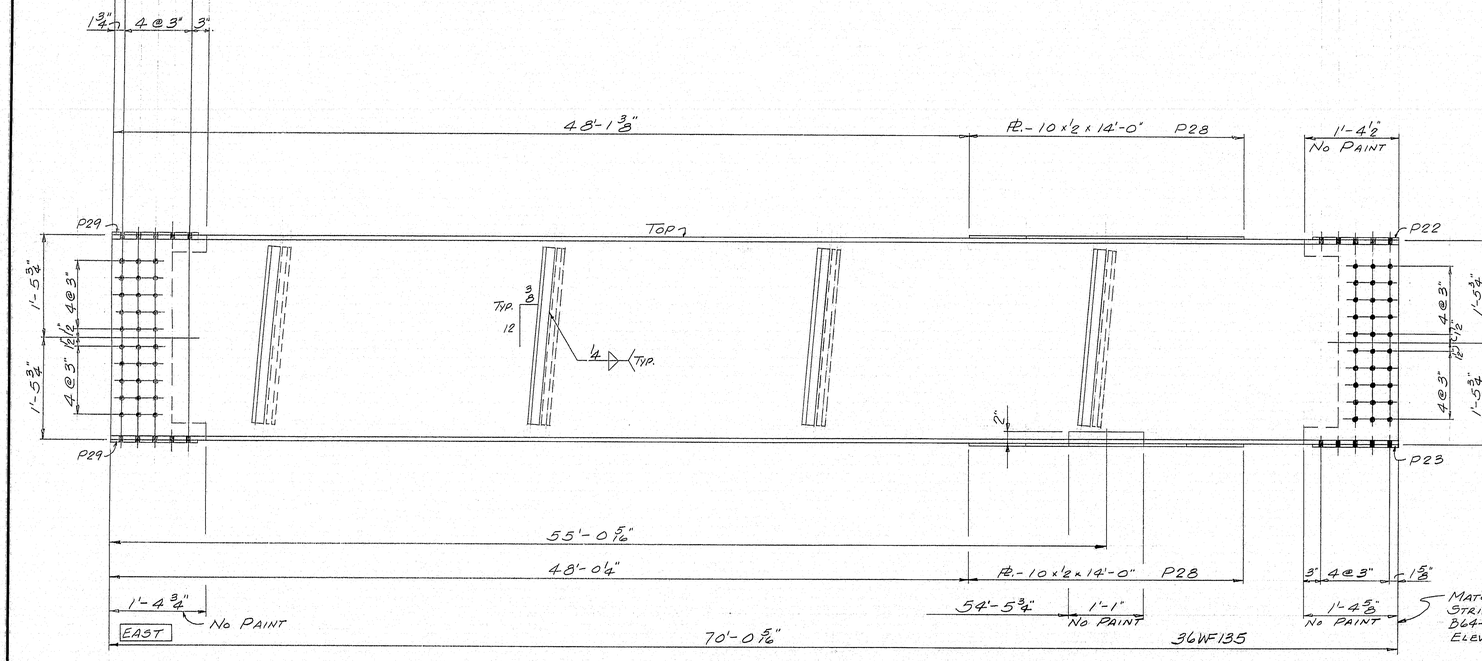
Bancroft & Martin Rolling Mills Company
Brewer, Maine

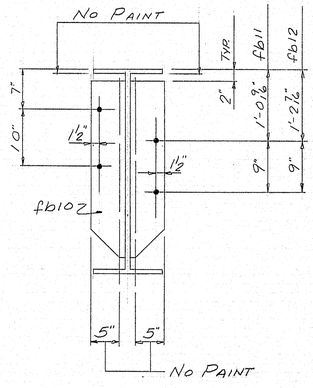
RTE. #155 OVER INTERSTATE #95
HOWLAND, MAINE

CUSTOMER REED & REED
DESIGNER MAINE STATE HIGHWAY COMM.
ORDER VERBAL DWG. B64-245-S6









ONE - S3A, S3B, S3C, S3D, & S3E

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
S3A	1		36WF135	70 0 5/16		A36
S3B	1		Do	70 0 5/16		
S3C	1		Do	70 0 5/16		
S3D	1		Do	70 0 5/16		
S3E	1		Do	70 0 5/16		
	5	P22	PL.- 11 x 3/16	1 3		
	5	P23	Do	1 3 1/8		
	10	P28	PL.- 10 x 1/2	14 0		
	10	P29	PL.- 11 x 3/16	1 3 1/4		
	16	fb10	BAR- 6 x 3/8	2 7		
	8	fb11	Do	2 7		
	8	fb12	Do	2 7		

BILL OF MATERIAL DWG. B64-245-57

E70 LOW HYDROGEN ROD
SHOP CONNECTIONS: UNLESS NOTED
FIELD CONNECTIONS: WELD & 7/8" ϕ H.S. BOLT
HOLES: 15/16" ϕ
PAINT: STATE OF MAINE SPEC'S.

APP'D. 10-14-64

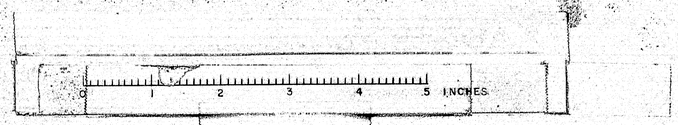
STRINGERS SPAN #3

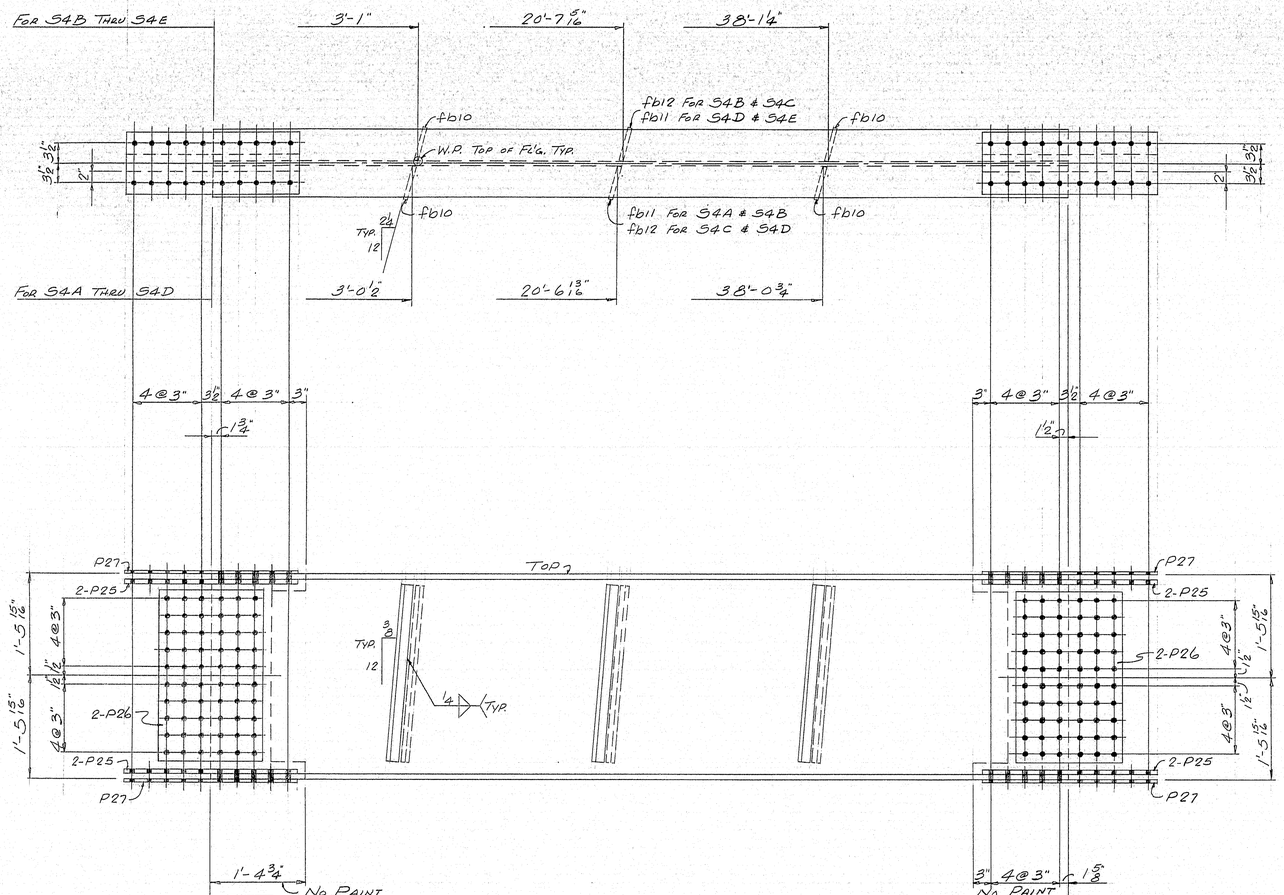
PRINT ISSUE		
2	S.H.C.	10-15-64
3	DIST.	10-15-64
5	SHOP	10-15-64
2	F.A.	10-8-64
DRAWN	10-6-64	R.A.M.
REVISION		
REVISION		
REVISION		

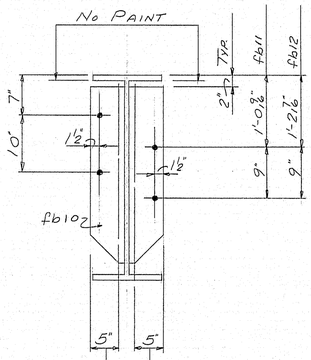
Bancroft & Martin Rolling Mills Company
Brewer, Maine

RTE. #155 OVER INTERSTATE #95
HOWLAND, MAINE

CUSTOMER REED & REED
DESIGNER MAINE STATE HIGHWAY COMM.
ORDER VERBAL DWG. B64-245-57







ONE - S4A, S4B, S4C, S4D, & S4E

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
S4A	1		36WF150	41 6 3/8		A36
S4B	1		Do	41 6 3/8		
S4C	1		Do	41 6 3/8		
S4D	1		Do	41 6 3/8		
S4E	1		Do	41 6 3/8		
	40	P25	PL-4 x 1 1/16	2 6 1/2		
	20	P26	PL-18 1/2 x 1/2	2 6		
	20	P27	PL-11 x 1 7/16	2 6 1/2		
	16	fb10	BAR-6 x 3/8	2 7		
	4	fb11	Do	2 7		
	4	fb12	Do	2 7		

BILL OF MATERIAL DWG. B64-245-S8

E70 LOW HYDROGEN ROD.
SHOP CONNECTIONS: UNLESS NOTED
FIELD CONNECTIONS: WELD & 7/8" ϕ H.S. BOLT
HOLES: 15/16" ϕ
PAINT: STATE OF MAINE SPEC'S.

APP'D. 10-14-64

STRINGERS SPAN #4

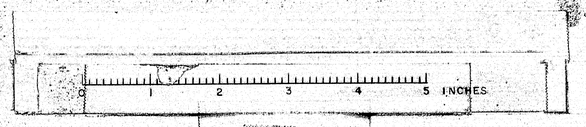
PRINT ISSUE		
2	S.H.C.	10-15-64
3	DIST.	10-15-64
5	SHOP	10-15-64
2	F.A.	10-8-64
DRAWN	10-6-64	R.A.M.
REVISION		
REVISION		
REVISION		

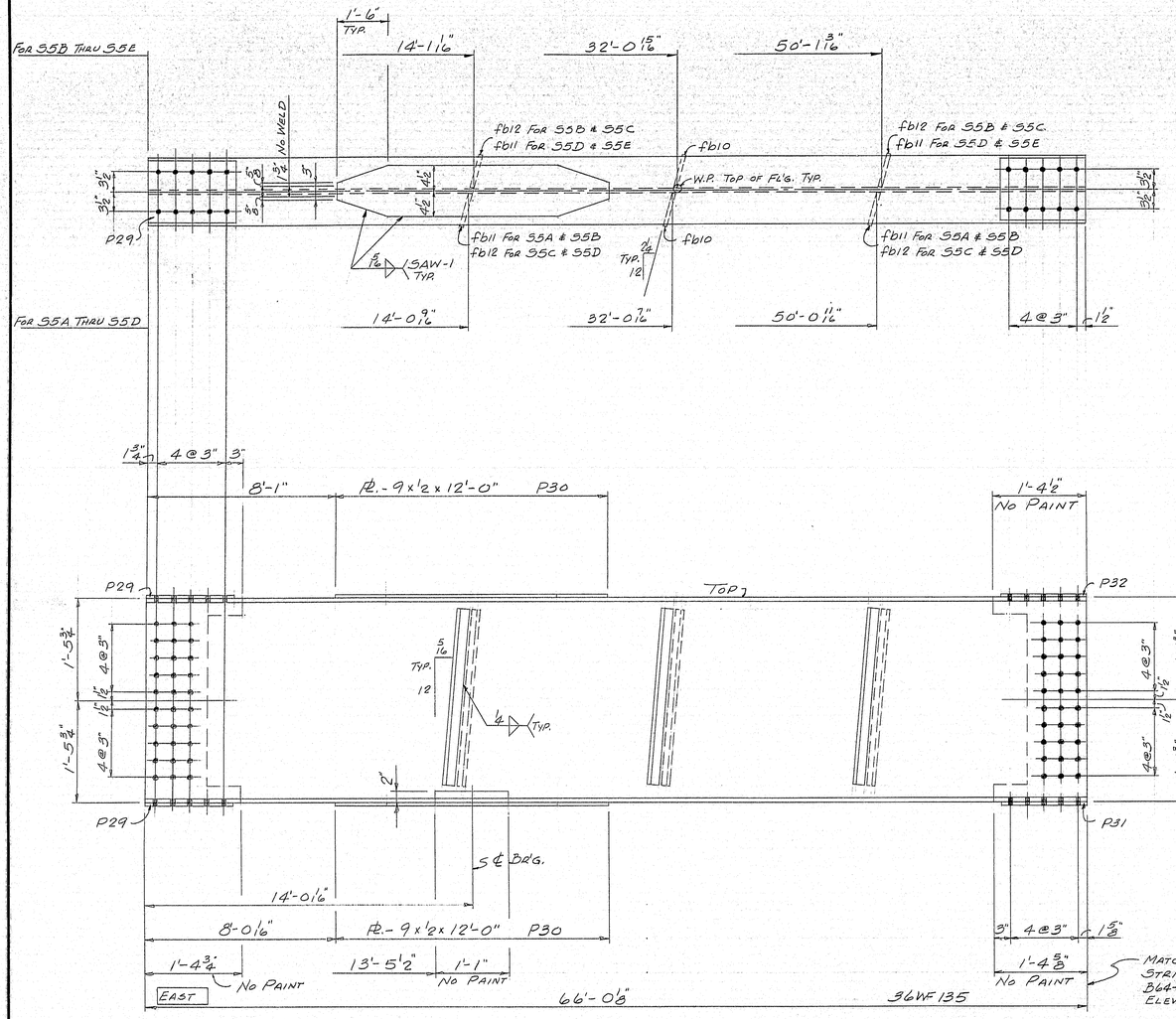
Bancroft & Martin Rolling Mills Company
Brewer, Maine

RTE. #155 OVER INTERSTATE #95
HOWLAND, MAINE

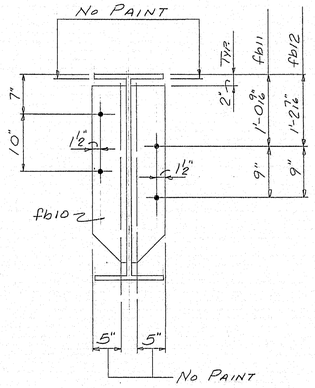
CUSTOMER REED & REED
DESIGNER MAINE STATE HIGHWAY COMM.
ORDER VERBAL DWG. B64-245-S8

95-11-15





ONE - 55A, 55B, 55C, 55D, & 55E



SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
55A	1		36WF135	66 0 1/8		A36
55B	1		Do	66 0 1/8		
55C	1		Do	66 0 1/8		
55D	1		Do	66 0 1/8		
55E	1		Do	66 0 1/8		
	10	P29	PL.-11 x 3/16	1 3/4		
	10	P30	PL.-9 x 1/2	12 0		
	5	P31	PL.-11 x 5/16	1 3/8		
	5	P32	Do	1 3		
	8	fb10	BAR-6 x 3/8	2 7		
	8	fb11	Do	2 7		
	8	fb12	Do	2 7		

BILL OF MATERIAL — DWG. B64-245-59

E70 LOW HYDROGEN ROD
SHOP CONNECTIONS: UNLESS NOTED
FIELD CONNECTIONS: WELD & 7/8" ϕ H.S. BOLT
HOLES: 15/16" ϕ
PAINT: STATE OF MAINE SPEC'S.

APP'D. 10-14-64

STRINGERS SPAN #5

PRINT ISSUE		
2	S.H.C.	10-15-64
3	DIST.	10-15-64
5	SHOP	10-15-64
2	F.A.	10-8-64
DRAWN	10-7-64	R.A.M.
REVISION		
REVISION		
REVISION		

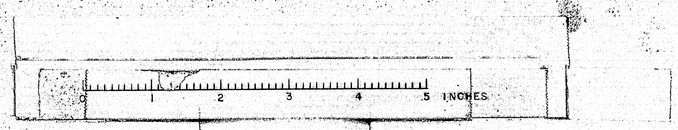
Bancroft & Martin Rolling Mills Company
Brewer, Maine

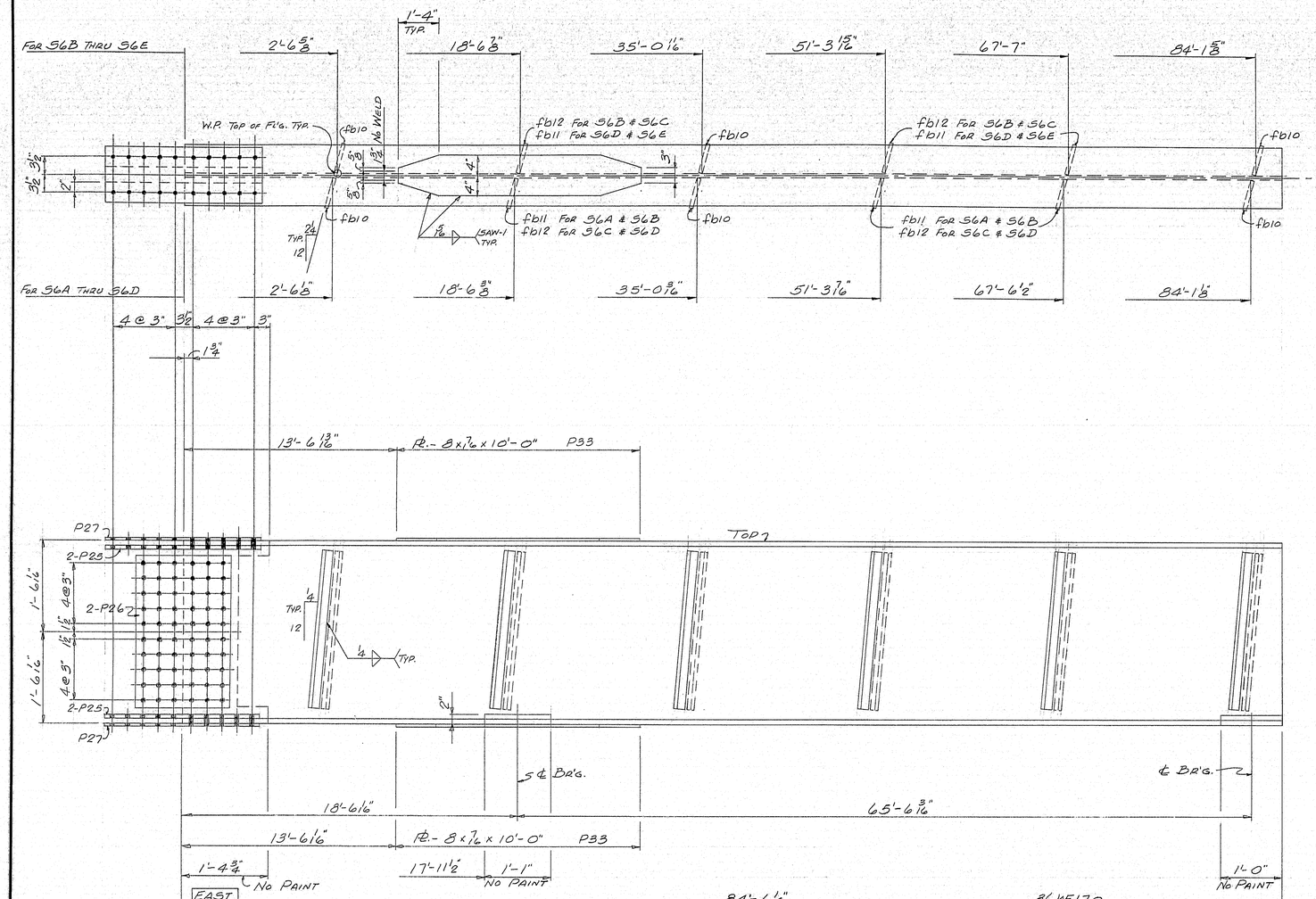
RTE. #155 OVER INTERSTATE #95
HOWLAND, MAINE

CUSTOMER REED & REED
DESIGNER MAINE STATE HIGHWAY COMM.

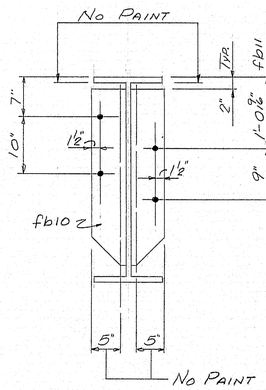
ORDER VERBAL — DWG. B64-245-59

95-47 K





ONE - S6A, S6B, S6C, S6D, & S6E



SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
S6A	1		36WF170	84 6 1/4		A36
S6B	1		Do	84 6 1/4		
S6C	1		Do	84 6 1/4		
S6D	1		Do	84 6 1/4		
S6E	1		Do	84 6 1/4		
	20	P25	R.- 4 x 1 1/16	2 6 1/2		
	10	P26	R.- 18 1/2 x 1/2	2 6		
	10	P27	R.- 11 x 7/16	2 6 1/2		
	10	P33	R.- 8 x 7/16	10 0		
	24	fb10	BAR- 6 x 3/8	2 7		
	12	fb11	Do	2 7		
	12	fb12	Do	2 7		

SHOP CONNECTIONS: E70 LOW HYDROGEN ROD UNLESS NOTED
FIELD CONNECTIONS: WELD @ 7/8" ϕ H.S. BOLT
HOLES: 15/16" ϕ
PAINT: STATE OF MAINE SPEC'S.

APP'D. 10-14-64

STRINGERS SPAN #6

PRINT ISSUE		
2	S.H.C.	10-15-64
3	DIST.	10-15-64
5	SHOP	10-15-64
2	F.A.	10-8-64
DRAWN	10-7-64	R.A.M.
REVISION		
REVISION		
REVISION		

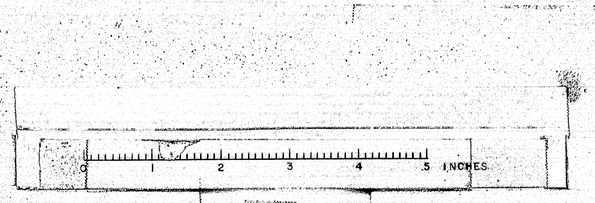
Bancroft & Martin Rolling Mills Company
Brewer, Maine

RTE. #155 OVER INTERSTATE #95
HOWLAND, MAINE

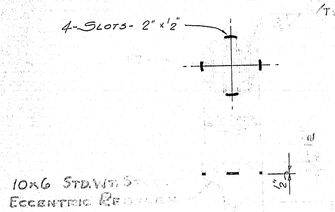
CUSTOMER REED & REED
DESIGNER MAINE STATE HIGHWAY COMM.

ORDER VERBAL DWG. B64-245-510

95-00-17



SHIP	BILL OF MATERIAL					DWG. B64-245-513
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
DR1	24		PL-9 x 3/8	3 4		M1E
	24		PL-9 x 3/8	3 4		F1P
DR2	24		STIFFENER	1 0 3/4		
	96	47	BARREL	0 11		F1P



24-DR1

SHOP CONNECTIONS: WELD ET
FIELD CONNECTIONS:
HOLES:
PAINT: STATE OF MAINE SPEC'S.

APP'D. 10-14-64

DRAIN S

PRINT ISSUE		
2	S.H.C.	10-15-64
3	DIST.	10-15-64
5	SHOP	10-15-64
2	F.A.	10-8-64
DRAWN	10-8-64	R.A.M.
REVISION		
REVISION		
REVISION		

Bancroft & Martin Rolling Mills Company
Brewer, Maine

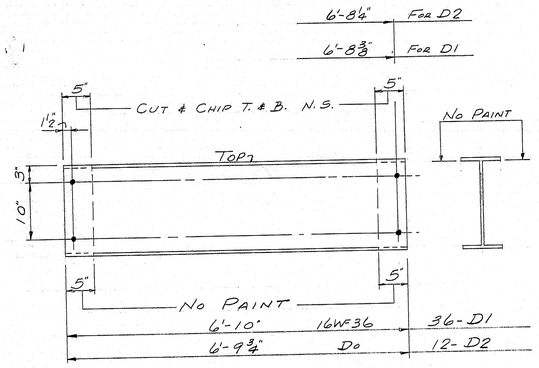
RTE. #155 OVER INTERSTATE #95
HOWLAND, MAINE

CUSTOMER REED & REED
DESIGNER MAINE STATE HIGHWAY COMM.

ORDER VERBAL DWG. B64-245-513

95-20

SHIP	BILL OF MATERIAL					DWG. B64-245-512
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
D1	36		16WF36	6 10		A36
D2	12		Do	6 9 3/4		
D3	36		15WF33.9	6 10		
D4	12		Do	6 9 3/4		



SHOP CONNECTIONS:
FIELD CONNECTIONS: WELD & 3/4" ϕ MACH. BOLT
HOLES: 15/16" ϕ
PAINT: STATE OF MAINE SPEC'S.

APP'D. 10-14-64

DIAPHRAGMS

PRINT ISSUE		
2	S.H.C.	10-15-64
3	DIST.	10-15-64
5	SHOP	10-15-64
2	F.A.	10-8-64
DRAWN	10-8-64	R.A.M.
REVISION		
REVISION		
REVISION		

Bancroft & Martin Rolling Mills Company
Brewer, Maine

RTE. #155 OVER INTERSTATE #95
HOWLAND, MAINE

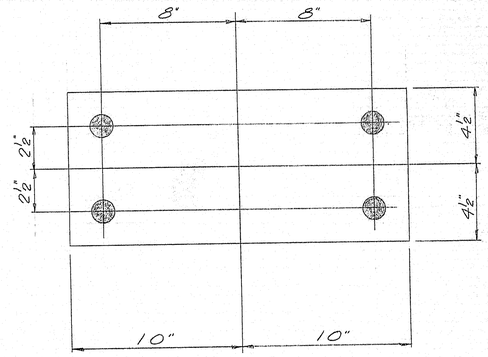
CUSTOMER REED & REED
DESIGNER MAINE STATE HIGHWAY COMM.

ORDER VERBAL DWG. B64-245-512

9577

SHIP	BILL OF MATERIAL					DWG. B64-245-511
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
SP1	1		PL-9 x 3/8	1 8		A36

WANTED THURSDAY 8 OCT. 1964



ONE-SP1

SHOP CONNECTIONS:
FIELD CONNECTIONS:
HOLES: 1 3/8" ϕ
PAINT: NONE

SHIM PL. FOR FIXED BEARING

PRINT ISSUE		
3	DIST.	10-9-64
5	SHOP	10-7-64
DRAWN	10-7-64	R.A.M.
REVISION		
REVISION		
REVISION		

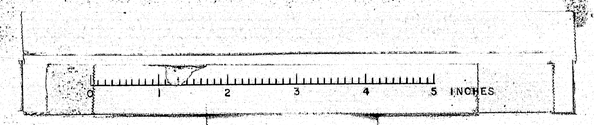
Bancroft & Martin Rolling Mills Company
Brewer, Maine

RTE. #155 OVER INTERSTATE #95
HOWLAND, MAINE

CUSTOMER REED & REED
DESIGNER MAINE STATE HIGHWAY COMM.

ORDER VERBAL DWG. B64-245-511

9578



B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95-8(59)	1	47

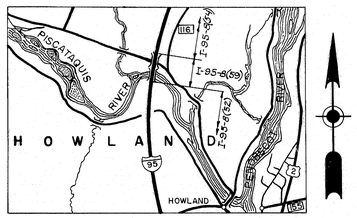
STATE OF MAINE
STATE HIGHWAY COMMISSION

INTERSTATE 95
OVER
PISCATAQUIS RIVER AND SEBOEIS ROAD
IN THE TOWN OF
HOWLAND
PENOBSCOT COUNTY

FEDERAL PROJECT NO. I-95-8(59)212
LENGTH OF PROJECT 0.272 MILES

SCALES

INTERSTATE PLAN & PROFILE — HOR. 1" = 50' VERT. 1" = 5'
X-SECTIONS — 1" = 5'
SEBOEIS ROAD PLAN & PROFILE — HOR. 1" = 50' VERT. 1" = 5'
X-SECTIONS — 1" = 5'



LOCATION MAP
APPROX. SCALE: 1" = 1 MILE

INDEX OF SHEETS

1. TITLE SHEET
2. QUANTITIES
3. LAYOUT ——PISCATAQUIS RIVER BRIDGE——
4. SURVEY
5. X-SECTIONS (SH. NO. 22, TYPICAL SECTIONS)
6. GENERAL PLAN
7. FOUNDATION SURVEY
8. ABUTMENT NO. 1
9. ABUTMENT NO. 2
10. PIER NO. 1
11. PIERS NO. 2&3
12. ERECTION PLAN
13. STEEL DETAILS & GENERAL NOTES
14. CROSS FRAMES
15. LATERAL SYSTEM DETAILS
16. SHEAR CONNECTORS—SPLICE— CAMBER
17. BEARING PEDESTALS
18. BLOCKING & RAIL DETAILS
19, 20. SUPERSTRUCTURE
21. REINFORCING STEEL
22–26. INTERSTATE X-SECTIONS
——SEBOEIS ROAD BRIDGE——
27. GENERAL PLAN
28. FOUNDATION SURVEY
29. ABUTMENT NO. 1
30. ABUTMENT NO. 2
31. PIER NO. 1
32. PIER NO. 2
33. STRUCTURAL STEEL
34. SUPERSTRUCTURE SLAB
35. REINFORCING STEEL & SLOPE PROTECTION
——SEBOEIS ROAD——
36–38. SURVEY PLANS
39. INTERSECTION DETAIL
40–47. X-SECTIONS (SH. NO. 47, TYPICAL SECTIONS)

STANDARD SHEETS

BRIDGE

BD101-64 BEARING PEDESTALS
BD103-64 BEAM SPLICES
BD104-64 DIAPHRAMS, ARMORED JOINTS, SHEAR CONNECTORS, DRAINS
BD105-64 EXPANSION DAMS
BD107-64 STEEL RAIL
BD108-64 ALUMINUM RAIL

HIGHWAY

SEPT. 1963
2-64
3-64
4-64

TRAFFIC

(INTERSTATE 95)		(SEBOEIS ROAD)	
A.D.T. 1964	1790	A.D.T. 1964	340
A.D.T. 1984	2850	A.D.T. 1984	540
D.H.V.	345	D.H.V.	81
T.	14%	T.	14%
D.	60%	D.	60%
V.	60MPH	V.	45MPH

APPROVED
MAINE STATE HIGHWAY COMMISSION

CHAIRMAN

CHIEF ENGINEER — DATE: Sept. 30, 1964

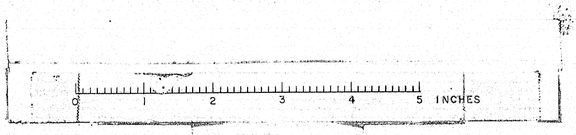
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
REGION 1

APPROVED

DIVISION ENGINEER — DATE

G. S. CO., NO. 44-131 36788

96-14



B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F95-2(39)	2	47

ESTIMATE OF QUANTITIES

	ITEM	DESCRIPTION	UNIT	PISCATAQUIS RIVER BRIDGE	SEBOEIS ROAD BRIDGE	INTERSTATE ROADWAY	SEBOEIS ROAD	TOTAL
	201-5	Clearing	Acres			2.5	3.5	6.0
	201-6	Selective Clearing and Thinning	Acres			2.5		2.5
	203-9	Earth Excavation	Cu. Yds.			1300	26,500	27,800
	204-10	Structural Earth Excavation - Drainage	Cu. Yds.			50	170	220
	204-14	Structural Earth Excavation - Piers	Cu. Yds.	315	145			460
	205-9	Granular Borrow	Cu. Yds.			32,000		32,000
	205-10	Gravel Borrow	Cu. Yds.			3200		3200
△	207-10	Machine Aerating	Hrs.			25		25
	302-7	Gravel Base Course (I.R.M.)	Cu. Yds.			2240	7400	9640
△	310-6	Sprinkling	Units				120	120
△	311-6	Calcium Chloride	Tons				12	12
	401-11	Gravel Surface Course	Cu. Yds.				700	700
*	404-28	Bit. Conc. Surface Course, Type "A"	Tons	195	73			268
	501-7	Road Tar	Gals.				5500	5500
	602-11	15-Inch Asphalt Coated Corr. Metal Pipe	Lin. Ft.				37	37
	602-14	24-Inch Asphalt Coated Corr. Metal Pipe	Lin. Ft.				273	273
	701-33	Portland Cem. Conc., Abuts & Ret. Wls.	Cu. Yds.	186	205			391
	701-35	Portland Cement Concrete, Piers	Cu. Yds.	490	130			620
	701-36	Portland Cem. Conc., Piers (Placed under water)	Cu. Yds.	545				545
	701-40	Port Cem. Conc. Roadway and Sid. Slabs	Cu. Yds.	580	160			740
	701-54	Portland Cement for Riprap Grout	Lbls.			50		50
	701-55	Curing Box for Concrete Cylinders	Each	1				1
	702-103.1	Structural Steel, Fab. & Del.	L. S.	L.S.				L.S.
	702-103.2	Structural Steel, Fab. & Del.	L. S.		L.S.			L.S.
	702-104.1	Structural Steel, Erection	L. S.	L.S.				L.S.
	702-104.2	Structural Steel, Erection	L. S.		L.S.			L.S.
	702-105.1	Structural Steel, Field Painting	L. S.	L.S.				L.S.
	702-105.2	Structural Steel, Field Painting	L. S.		L.S.			L.S.
	705-13	Reinforcing Steel, Delivered	Lbs.	169,000	68,000			237,000
	705-14	Reinforcing Steel, Placing	Lbs.	169,000	68000			237,000
	705-17	Shear Connectors	L. S.	L.S.				L.S.
	708-16	Steel H-Beam Piles 53 lbs. / Ft.	Lin. Ft.	845				845
	708-17	Steel H-Beam Piles 42 lbs. / Ft.	Lin. Ft.		942			942
	803-7	Cofferdams, Pier #1	L. S.	L.S.				L.S.
	803-8	Cofferdams, Pier #2	L. S.	L.S.				L.S.
	803-9	Cofferdams, Pier #3	L. S.	L.S.				L.S.
	805-8	Bridge Rail	Lin. Ft.	1046	268			1314
*	807-9	Membrane Waterproofing	Sq. Yds.	1775	650			2425
	807-11	Epoxy Resin Surface Sealant	Sq. Yds.	100	95			195
	901-24	Vertical Bridge Curb - Type 1	Lin. Ft.	1081	295			1376
	901-37	Curb Type 4	Lin. Ft.				190	190
	906-18	Fencing - Metal Posts	Lin. Ft.			1300		1300
	907-10	Hand Laid Rip-rap	Cu. Yds.			400		400
	908-10	Loam (I.R.M.)	Cu. Yds.			430	650	1080
	909-7	Sodding	Sq. Yds.				60	60
	909-9	Jute Matting - Weave "H"	Sq. Yds.			110		110
	910-13	Seeding - Method No. 2	Units			68	160	228
	912-7	Hay Mulch	Tons			4	9	13
	913-6	Bit. Treated Stone Slope Protection	Sq. Yds.			535		535
	907-8	Plain Riprap	Cu. Yds			20		20
	913-9	Bit. Concrete Gutter	Tons			17		17
	915-6	Right of Way Monuments	Each				10	10
	915-8	Survey Markers	Each				2	2

Estimated weight of Structural Steel including Drains
Piscataquis River Bridge = 540,000 lbs. Seboeis Road Bridge = 120,000 lbs.

△ Undetermined Location
* Not part of this contract

Computation of Granular Borrow

Earth Excavation (from Cross Sections Inc. scarifying)	27,800 C.Y.
Deduct Grubbing in cut areas	2,000
Total available Earth Excavation	25,800
Total Fill (from Cross Sections including 24" Base)	49,877
Total available earth excavation = 25,800 x 0.85 =	21,930
Total Fill minus Total available earth excavation	27,947
Granular Borrow = 27,947 x 1.15 =	32,139 C.Y.

DESIGN-	BRIDGE NO.
TRACE- Pm.C.W.	SURVEY-
CHECK- CKB	PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

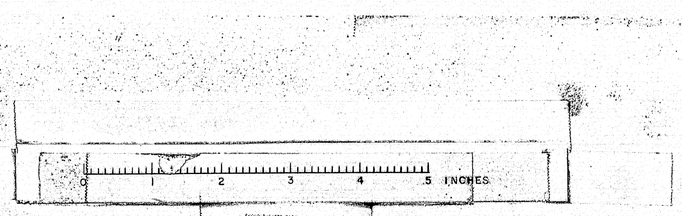
INTERSTATE 95
IN THE TOWN OF
HOWLAND

PENOBSCOT COUNTY

QUANTITIES

SHEET 2 OF 47 AUGUSTA, MAINE OCT. 1964

96-15



D. P. B. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-3(54)	3	47

CLEARING
Sta 2003+65 to Sta 2018+00

SELECTIVE CLEARING & THINNING
Sta 2003+65 to Sta. 2018+00

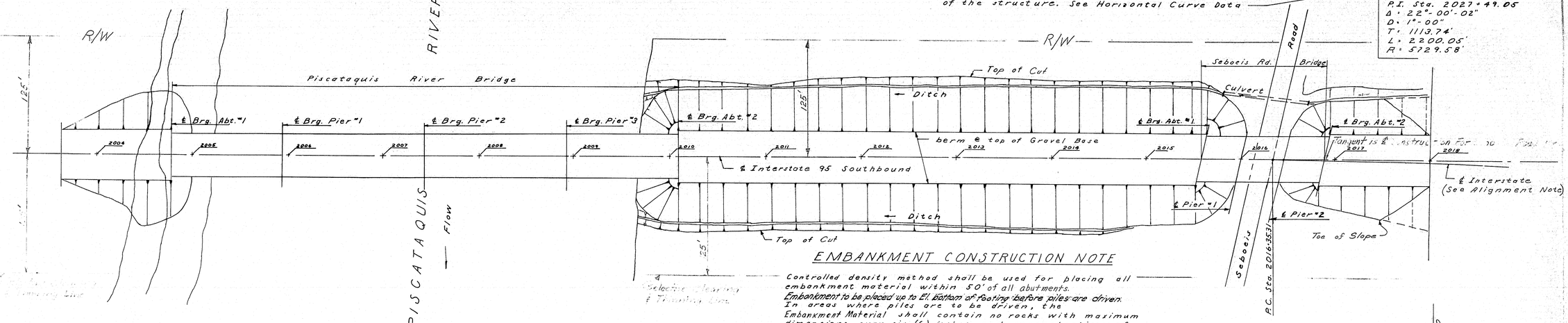
JUTE MATTING-WEAVE "H"
Sta 2016+50± to Sta. 2017+50±

ALIGNMENT NOTE

The Seboeis Road Bridge is designed for vertical and horizontal alignment ignoring the horizontal curve at the north side of the bridge. The Field Engineer is to adjust both the horizontal alignment and the superelevation of the North Bridge approach to match the line and grade of the structure. See Horizontal Curve Data

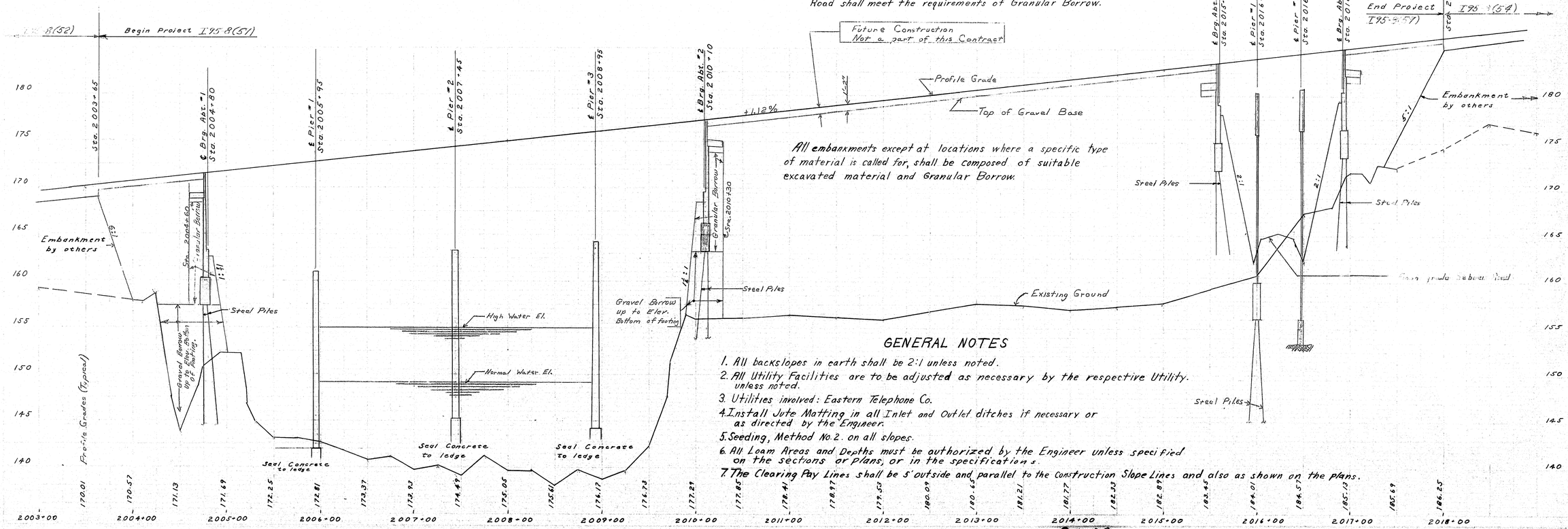
HORIZONTAL CURVE DATA

P.I. Sta. 2027+49.05
Δ = 22°-00'-02"
D = 1°-00"
T = 1113.74'
L = 2200.05'
R = 5729.58'



EMBANKMENT CONSTRUCTION NOTE

Controlled density method shall be used for placing all embankment material within 50' of all abutments.
Embankment to be placed up to El. Bottom of footing before piles are driven.
In areas where piles are to be driven, the Embankment Material shall contain no rocks with maximum dimensions over six (6) inches, and concentrations of rocks shall be avoided.
Embankment Material from Station 2015+35 to Station 2017+15 Interstate 95(S.B.) and from Station 17+00 to Station 19+00 Seboeis Road shall meet the requirements of Granular Borrow.



GENERAL NOTES

1. All backslopes in earth shall be 2:1 unless noted.
2. All Utility Facilities are to be adjusted as necessary by the respective Utility. unless noted.
3. Utilities involved: Eastern Telephone Co.
4. Install Jute Matting in all Inlet and Outlet ditches if necessary or as directed by the Engineer.
5. Seeding, Method No. 2. on all slopes.
6. All Loam Areas and Depths must be authorized by the Engineer unless specified on the sections or plans, or in the specifications.
7. The Clearing Pay Lines shall be 5' outside and parallel to the Construction Slope Lines and also as shown on the plans.

All embankments except at locations where a specific type of material is called for, shall be composed of suitable excavated material and Granular Borrow.

96-16

INTERSTATE 95 HOWLAND SHEET 3 OF 47

LAYOUT

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95-8(59)	4	47

Hwy. B.M. #132 Elev. 160.05
435'± Left of station
2004+75. Vertical Spike
in 12" Birch

N

P I S C A T A Q U I S R I V E R

Plain Riprap below water level

Approx. Toe of Slope

Hand Laid Riprap-
water level to El. 155.0

Hand Laid Riprap-
water level to El. 155.0

Plain Riprap below water level
See Sheet #5

2'0"x10'x2' deep, grouted hand laid riprap pads, centered under superstructure drains. Construct pads to drain towards the river.

Divert run into Grouted Hand Laid Riprap ditch For Details see Sheet #22

4' run

Hwy. B.M. #133 Vertical spike in 12" Spruce Elev. 158.15

Grouted Hand Laid Riprap ditch

Hand Laid Riprap (See Sh. #6 for width)

Approx. Toe of Slope

N 6°-57'-41" E

℄ Construction ℄ Interstate 3.B.

Finished Grade +1.12%

Granular Borrow

Travel Borrow

Water Elev. 155.0 (Mean High Water Mar.)

Water Elev. Dec. 1963 Elev. 149.17

Sta. 2010+30

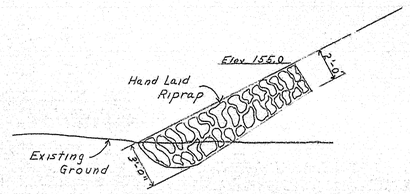
Elev. 170.0
Elev. 165.0
Elev. 160.0
Elev. 155.0
Elev. 150.0
Elev. 145.0
Elev. 140.0
Elev. 135.0
Elev. 130.0

2004+0 +25 +50 +75 2005+0 +25 +50 +75 2006+0 +25 +50 +75 2007+0 +25 +50 +75 2008+0 +25 +50 +75 2009+0 +25 +50 +75 2010+0 +25 +50

172.57 171.13 171.69 172.25 172.81 173.37 173.93 174.49 175.05 175.61 176.17 176.73 177.29 177.85

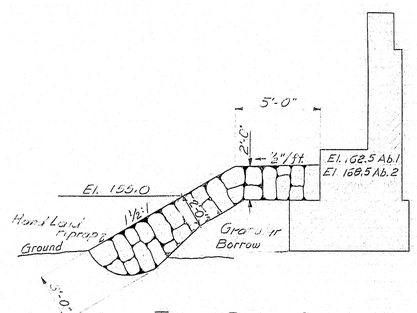
PLAN
Scale 1" = 30'

PROFILE
Scales: Horizontal 1"=30' Vertical 1"=5'



SECTION R-R

Note:
Necessary Excavation shall be paid for under Item 204-10 Structural Earth Excavation-Drainage.



TYPICAL RIPRAP SECTION AT ABUTMENT

NOTES:
Fenton Sta. 2+ [illegible]
Back to Grade Elev. [illegible]
Flush coma [illegible]
Existing Grade [illegible]
Storm [illegible]
Ver tab [illegible]

DESIGN– T.H.K.	BRIDGE NO.
TRACE– E.R.A.	SURVEY– PLAINE
CHECK– E.O.H.	PLOT– B.T.A.

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PISCATAQUIS RIVER BRIDGE
INTERSTATE 95
IN THE TOWN OF
HOWLAND
PENOBSCOT COUNTY
SURVEY

SHEET 4 OF 47 AUGUSTA, MAINE DEC. 1963

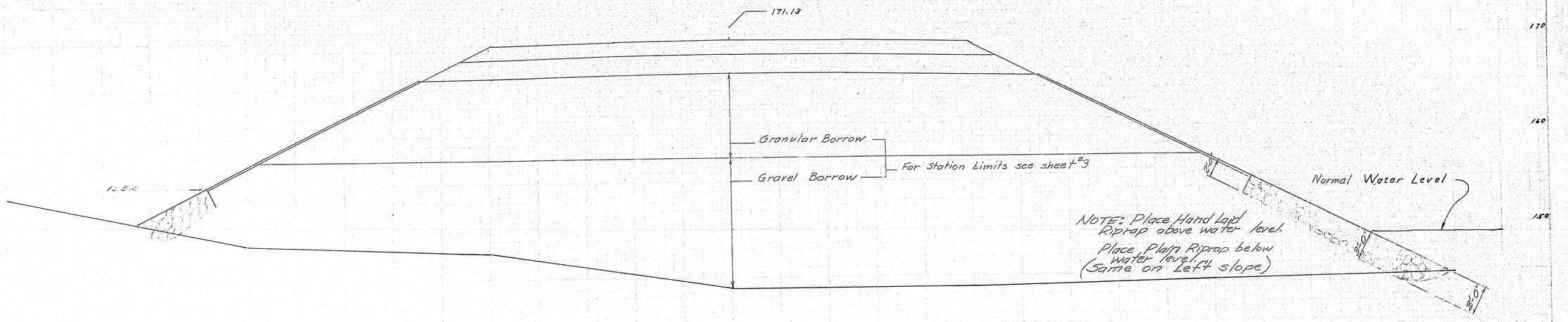
96-17

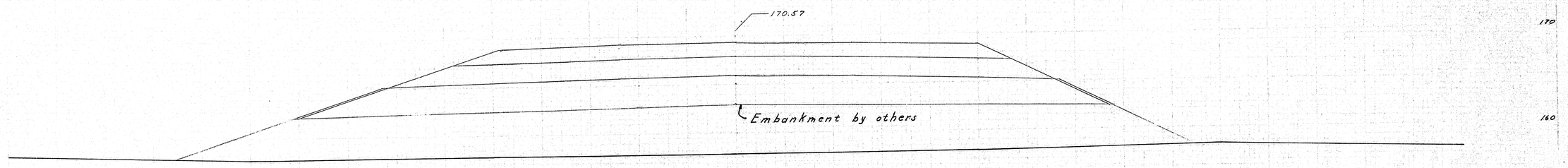
C. B. CO., NO. 44-131 39788

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95-8(57)	5	47

℄





ZERO SECTION
2003+65 (Begin Project)

For Typical Interstate Section
See Sheet #22.

STATIONS 2003+65 → 2004+50

℄ INTERSTATE

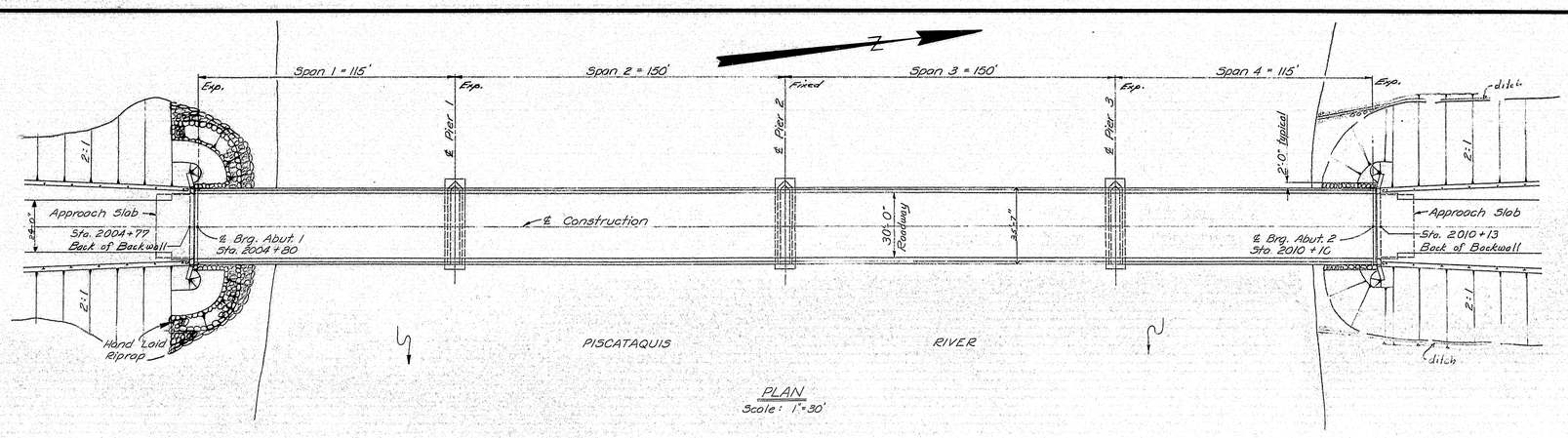
PLOT P.J.L.
CHECK Harris

INTERSTATE 95 HOWLAND

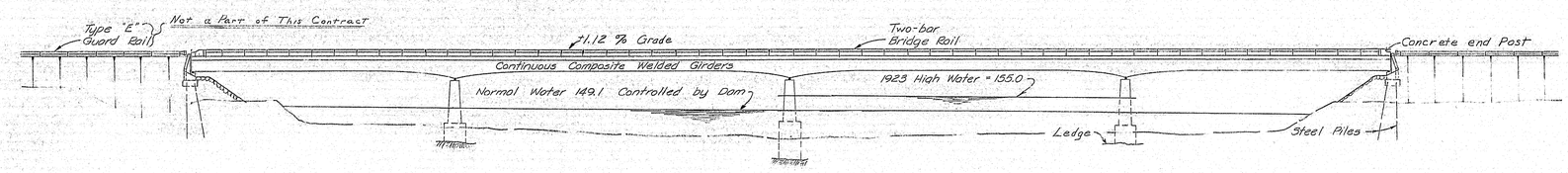
SHEET 5 OF 47

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95-8(59)	6	47



PLAN
Scale: 1"=30'



ELEVATION
Scale: 1"=30'

GENERAL NOTES

SPECIFICATIONS

Design: A.A.S.H.O. standard Specifications for Highway Bridges 1961, with Interim Specifications, 1961, 1962, 1964.
Contract: State of Maine, State Highway Commission Standard Specifications for Highways and Bridges, Revision of January 1956, and Supplemental Specifications, dated February 1960.

LIVE LOADING

HS 20-44 as modified for Interstate.

ALLOWABLE STRESSES

Concrete (n=10) ~ f_c = 1200 psi.
Reinforcing Steel, Intermediate Grade ~ f_s = 20,000 psi.
Structural Steel: See Steel Details, sh.# 13.

CONCRETE CLASSIFICATION

Piers: Seals ~ Class "S"
All Other ~ Class "A"

DESIGN- T.H.K.
TRACE- T.D.E.
CHECK- E.D.H.

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PISCATAQUIS RIVER BRIDGE

INTERSTATE 95
IN THE TOWN OF
HOWLAND
PENOBSCOT COUNTY
GENERAL PLAN

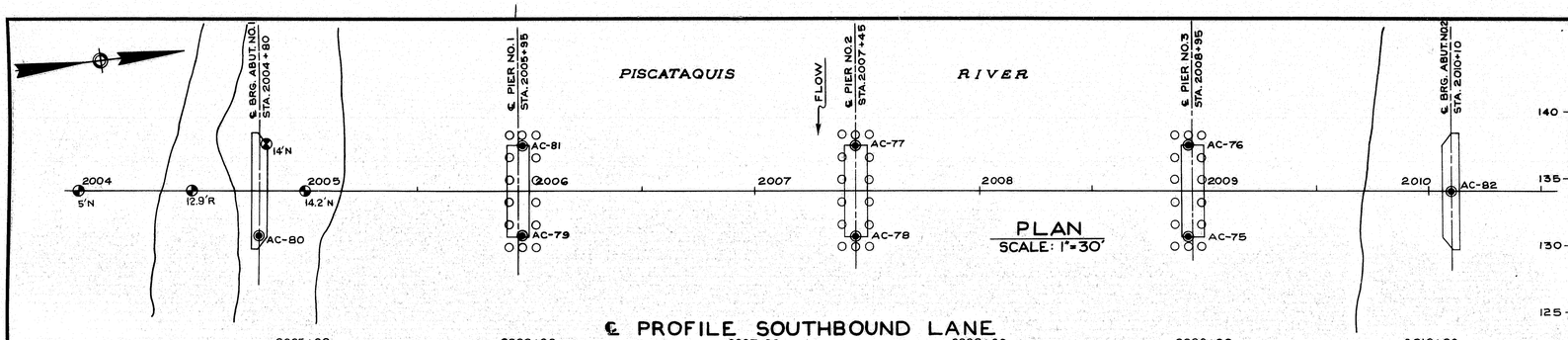
SHEET 6 OF 47 AUGUSTA, MAINE SEPT. 1964

96-19

C. E. CO., NO. 44-131

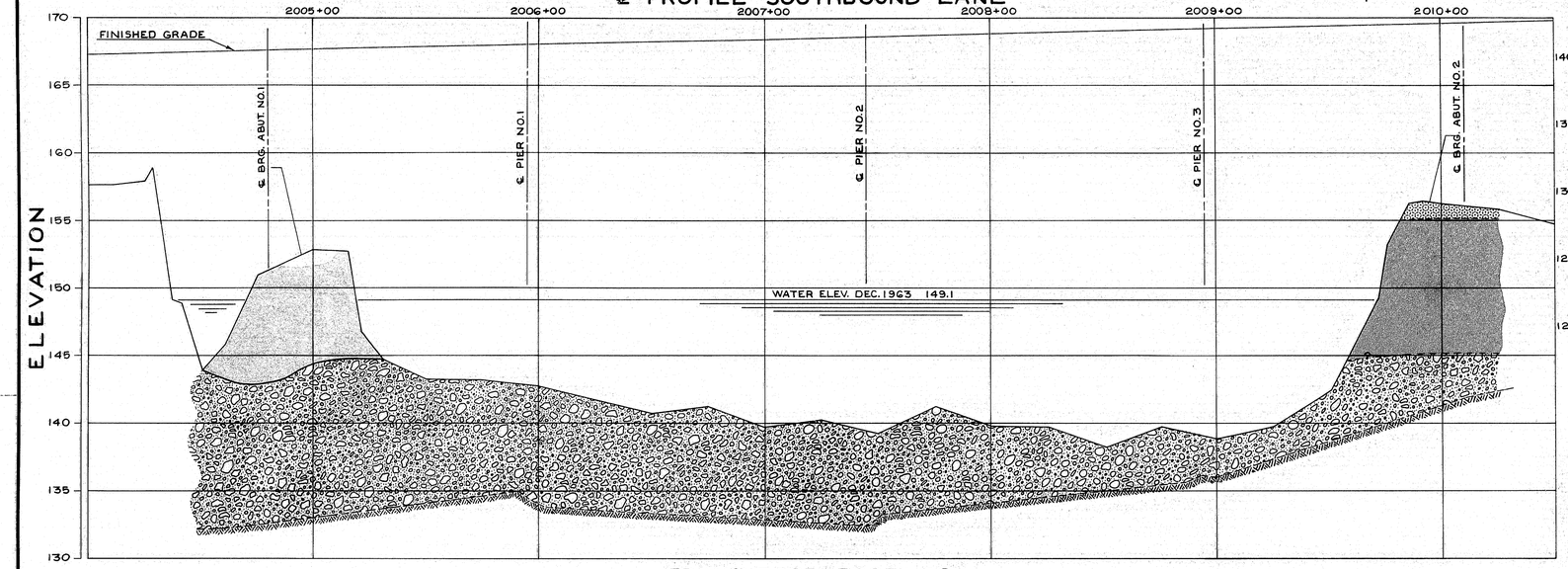
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(59)	7	47

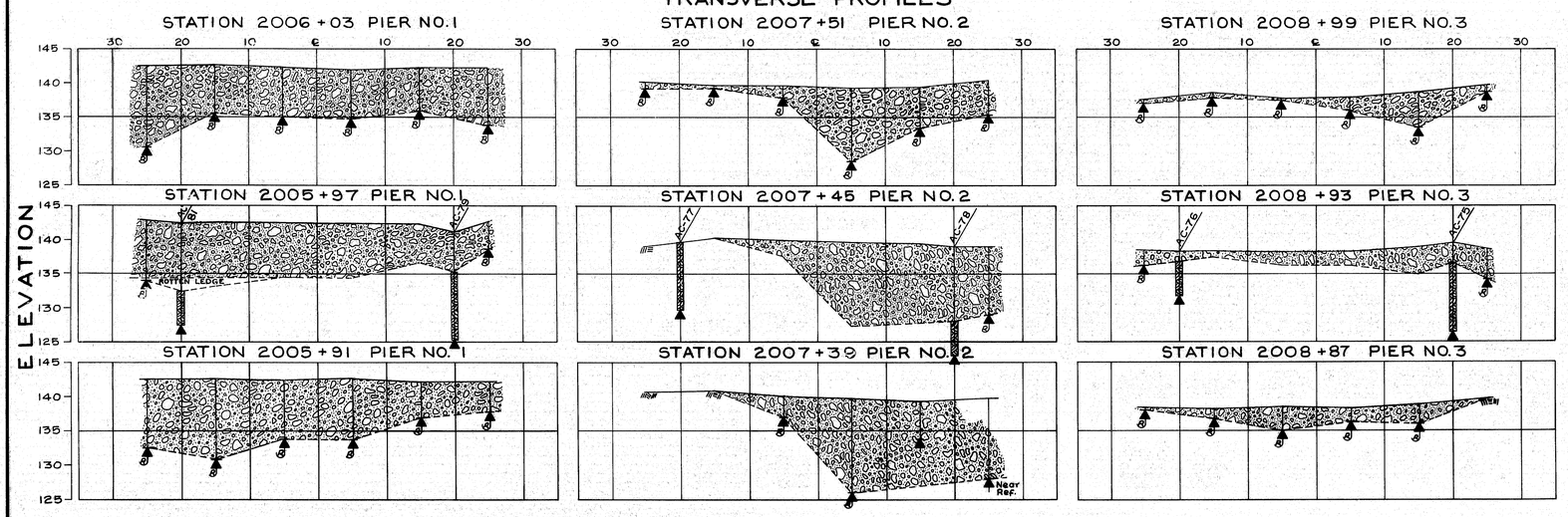


PLAN
SCALE: 1"=30'

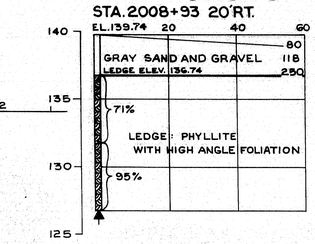
℄ PROFILE SOUTHBOUND LANE



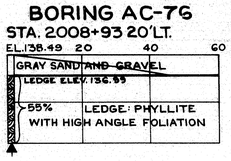
TRANSVERSE PROFILES



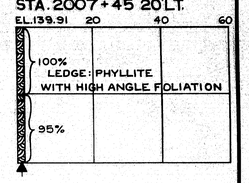
BORING AC-75
STA. 2008+93 20'RT.



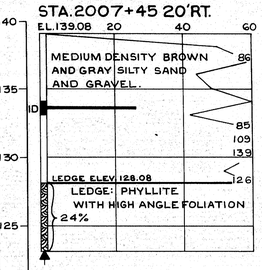
BORING AC-76
STA. 2008+93 20'LT.



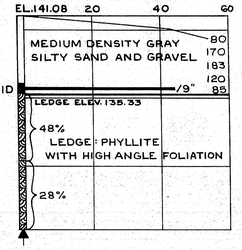
BORING AC-77
STA. 2007+45 20'LT.



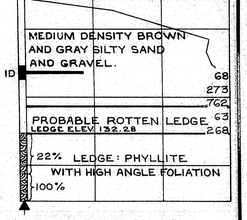
BORING AC-78
STA. 2007+45 20'RT.



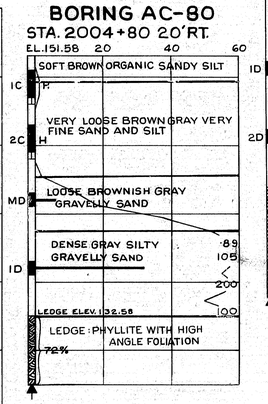
BORING AC-79
STA. 2005+97 20'RT.



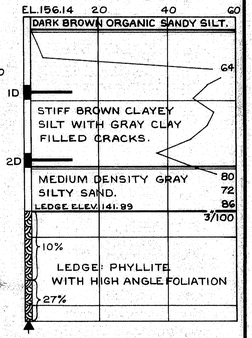
BORING AC-81
STA. 2005+97 20'LT.



BORING AC-80
STA. 2004+80 20'RT.



BORING AC-82
STA. 2010+10 ℄



LEGEND

- DARK BROWN ORGANIC SANDY SILT.
- STIFF BROWN CLAYEY SILT.
- VERY LOOSE BROWN AND GRAY SILTY SAND.
- MEDIUM DENSITY, BROWN AND GRAY SILTY SAND AND GRAVEL.
- LOOSE VERY FINE SAND & SILT

- WASH BORINGS
- AUGER BORINGS
- ROD SOUNDINGS

BORING NOTES

CASING SIZE 2½"
ALL SAMPLES AND VANES ARE MADE AHEAD OF CASING.
N — NUMBER OF BLOWS REQUIRED TO DRIVE EXTRA HEAVY CASING ONE FOOT WITH 400 FT. LBS. OF ENERGY PER BLOW.
▣ — LOCATION OF SAMPLE OR SAMPLE ATTEMPT.
NUMBER AND TYPE OF DRY SAMPLE.
ID — 5 & H SAMPLER @ 120 P.S.
IC — 2" O.D. 16 GA. SEAMLESS TUBING.
MD — UNSUCCESSFUL SAMPLE ATTEMPT AND TYPE OF SAMPLER.
▬ — NUMBER OF BLOWS REQUIRED TO DRIVE SPOON OR TUBING ONE FOOT WITH 350 FT. LBS. OF ENERGY PER BLOW.
H — SAMPLING SPOON OR SEAMLESS TUBING DRIVEN BY STATIC WEIGHT OF DRILL RODS AND HAMMER.
▯ — FIELD VANE TEST.
▲ — BOTTOM OF BORING (MAY NOT BE BOTTOM OF SOIL STRATA.)
▣ — LOCATIONS CORED BY DIAMOND BIT AND PER CENT RECOVERY OF ROCK.

DESIGN— TRACE— CHECK— — SOILS DIVISION
BRIDGE NO.
SURVEY—
PLOT—

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

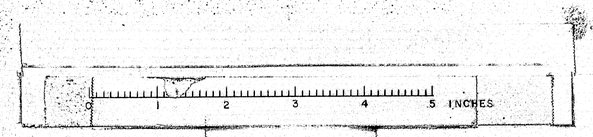
PISCATAQUIS RIVER BRIDGE

INTERSTATE 95
IN THE TOWN OF
HOWLAND
PENOBSCOT COUNTY
FOUNDATION SURVEY

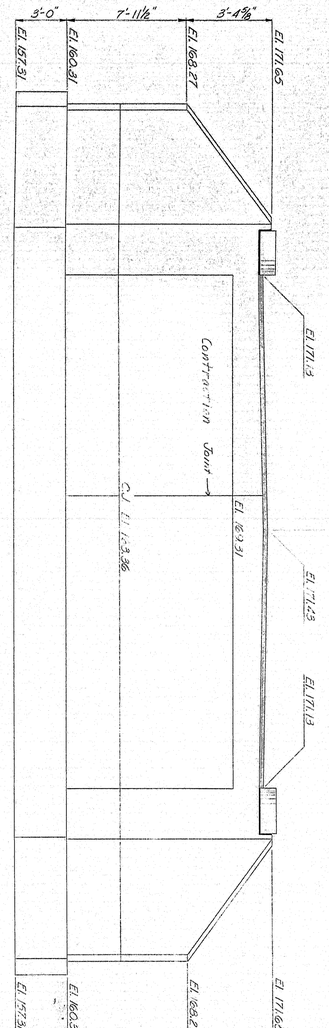
SHEET 7 OF 47 AUGUSTA, MAINE SEPT. 1964

96-20

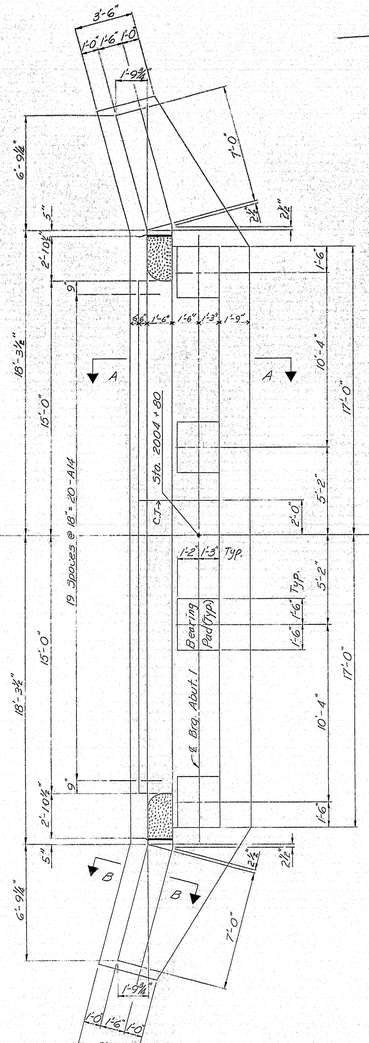
C. B. CO., NO. 44-131 28788



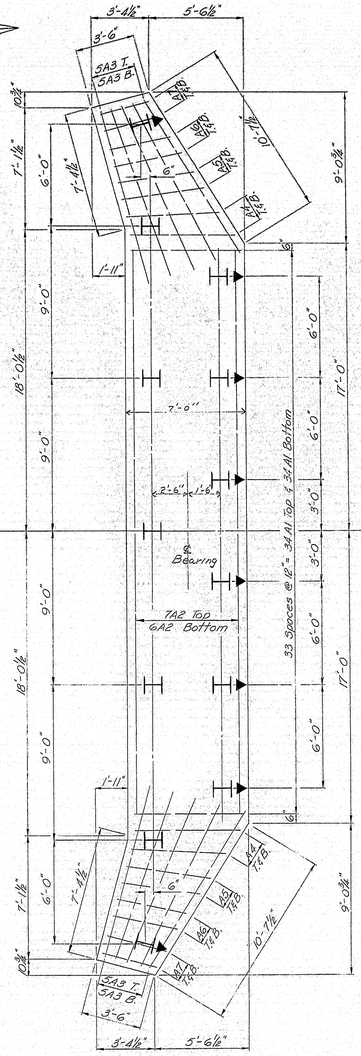
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95-8(59)	8	47



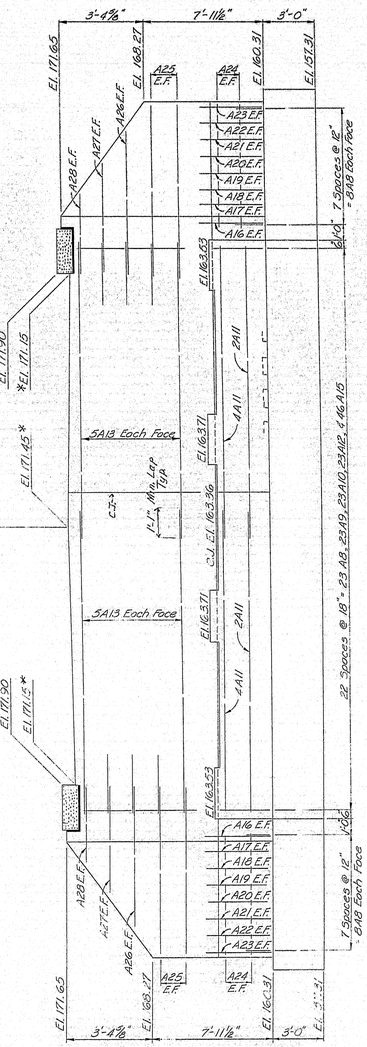
REAR ELEVATION



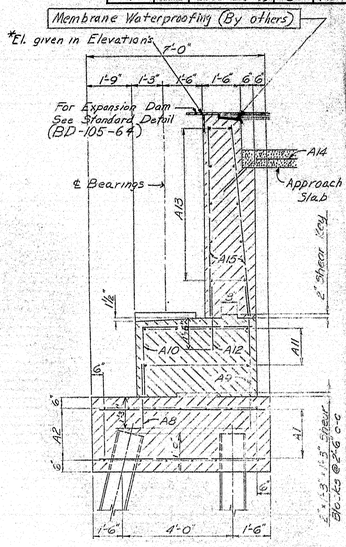
PLAN



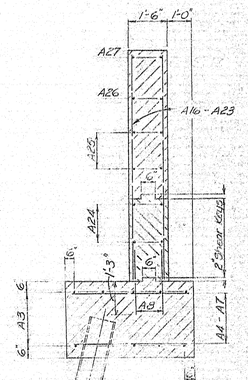
FOOTING & PILE PLAN



FRONT ELEVATION



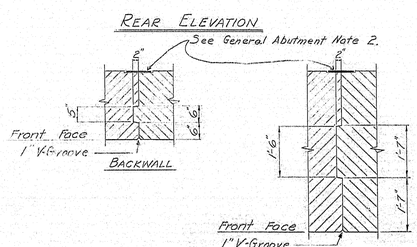
SECTION A-A



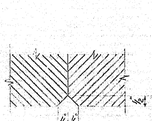
SECTION B-B

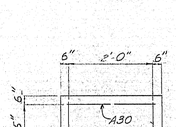
Items from A25, A26, A27, and A28 in field by P.T.

REAR ELEVATION



CONTRACTION JOINT SHEAR KEYS





BEARING PAD

PILE NOTES

1. Abutment piles to be 12 BP53 piles driven to ledge or practical refusal. Allowable load 46 tons per pile. Batter front row 3:1 ft. as indicated by arrows.
2. 13 Piles required per abutment. Estimated lengths:
   Abutment #1 = 35'
   Abutment #2 = 30'

7. Vertical Bridge Curb on the abutment backwalls shall be placed in position at the same time or after the the curb is place on the superstructure. Set to grade.
8. E.F. = Each Face

GENERAL ABUTMENT NOTES

1. Paint bridge seat, face of backwall, and down to 1'-0" below top of riprap on face and ends of breastwalls with Gray Epoxy Resin Surface Sealant.
2. Cover the back side of contruction joints with two layers of heavy roofing 10" wide bonded to concrete and to each other with a suitable grade of roofing cement. Recess area to be covered ¼". Coat surface of joint with asphalt paint to break bond.
3. For placing of borrow and riprap at abutments see sheet 3 & 4
4. Reinforcing cover 3" unless noted.
5. For vertical bridge curb details see sheet #19
6. For "Approach Slab" and "Guard Rail Detail" see sheet 9

DESIGN+DET. E.E.L.	BRIDGE NO.
TRACE–	SURVEY–
CHECK– CDH	PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

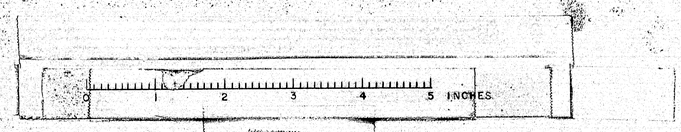
PISCATAQUIS RIVER BRIDGE

INTERSTATE 95
IN THE TOWN OF
HOWLAND
PENOBSCOT COUNTY
ABUTMENT 1

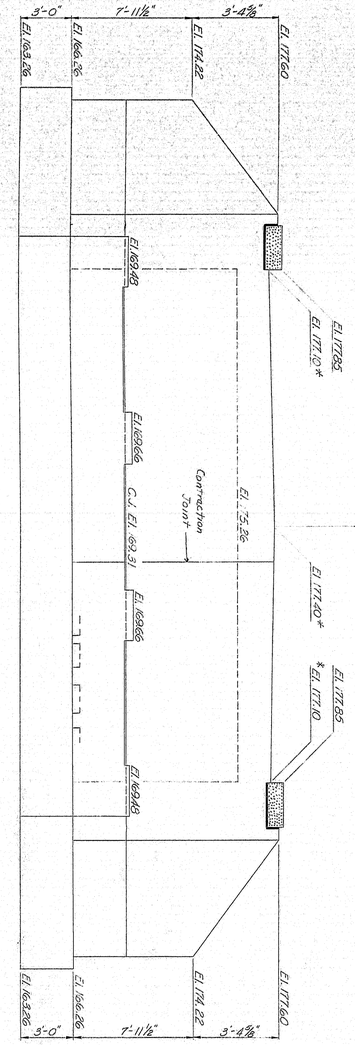
SHEET 8 OF 47 AUGUSTA, MAINE SEPT. 1984

C. H. CO., NO. 44-131 39798

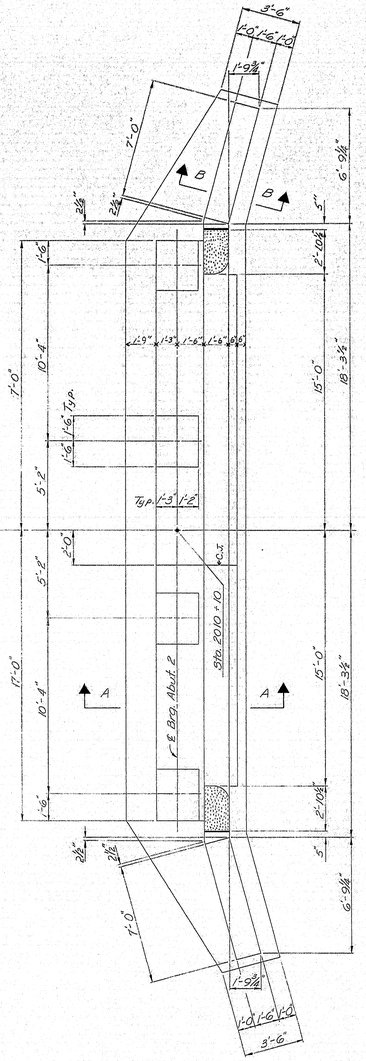
96-21



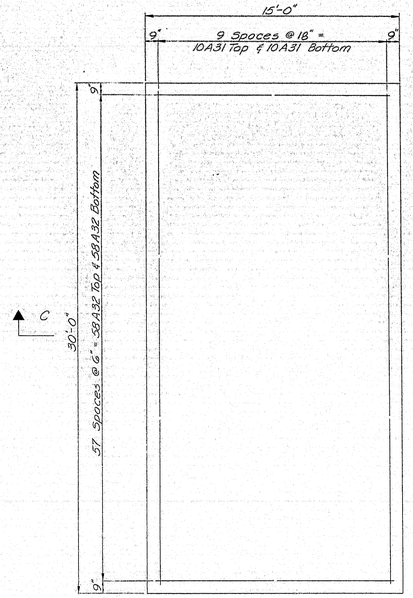
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I95-8(57)	9	47



FRONT ELEVATION

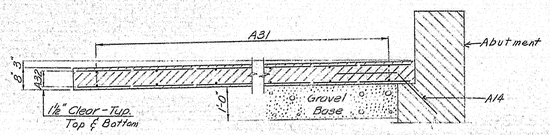


PLAN

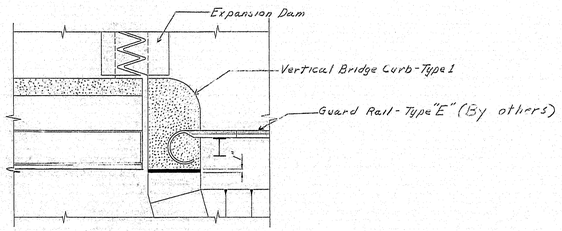


APPROACH SLAB

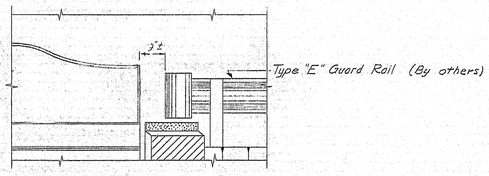
Approach slab concrete to be paid for under contract item 701-33 "Portland Cement Concrete, Abutments and Retaining Walls."



SECTION C-C



GUARD RAIL DETAIL



ELEVATION

NOTES

1. For "Sections A-A & B-B" see sheet #8
2. For reinforcing steel see sheet #21
3. For "Footing & Pile Plan" see sheet #8
4. For "General Abutment Notes" and details see sheet #8

DESIGN- DET. E.E.L.
TRACE-
CHECK- CDH

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

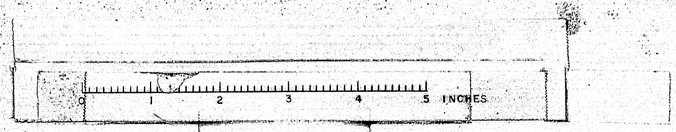
PISCATAQUIS RIVER BRIDGE

INTERSTATE 95
IN THE TOWN OF
HOWLAND
PENOBSCOT COUNTY
ABUTMENT 2

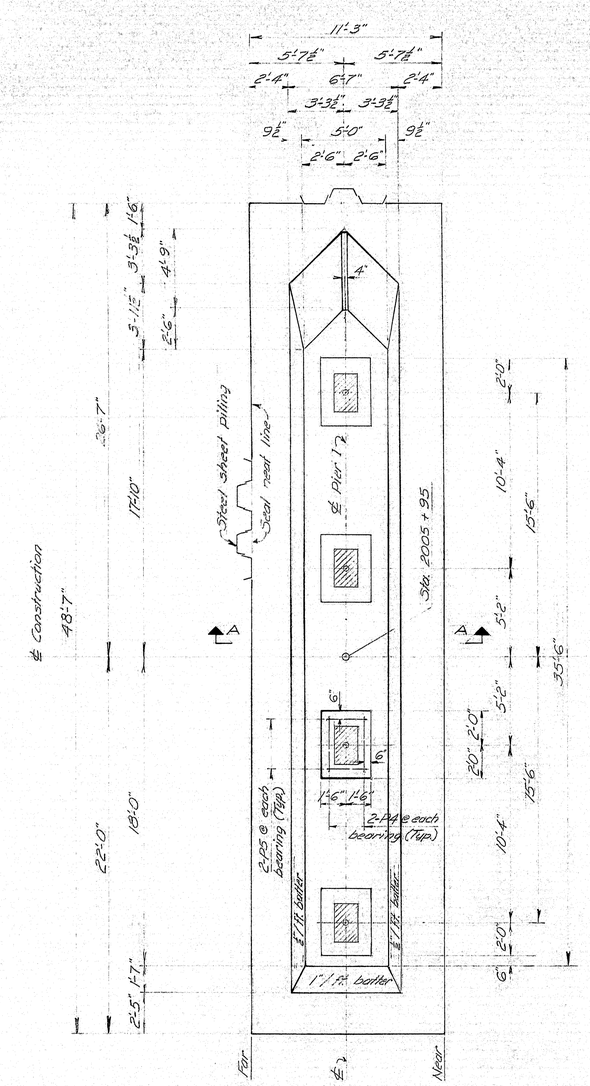
SHEET 9 OF 47 AUGUSTA, MAINE SEPT. 1964

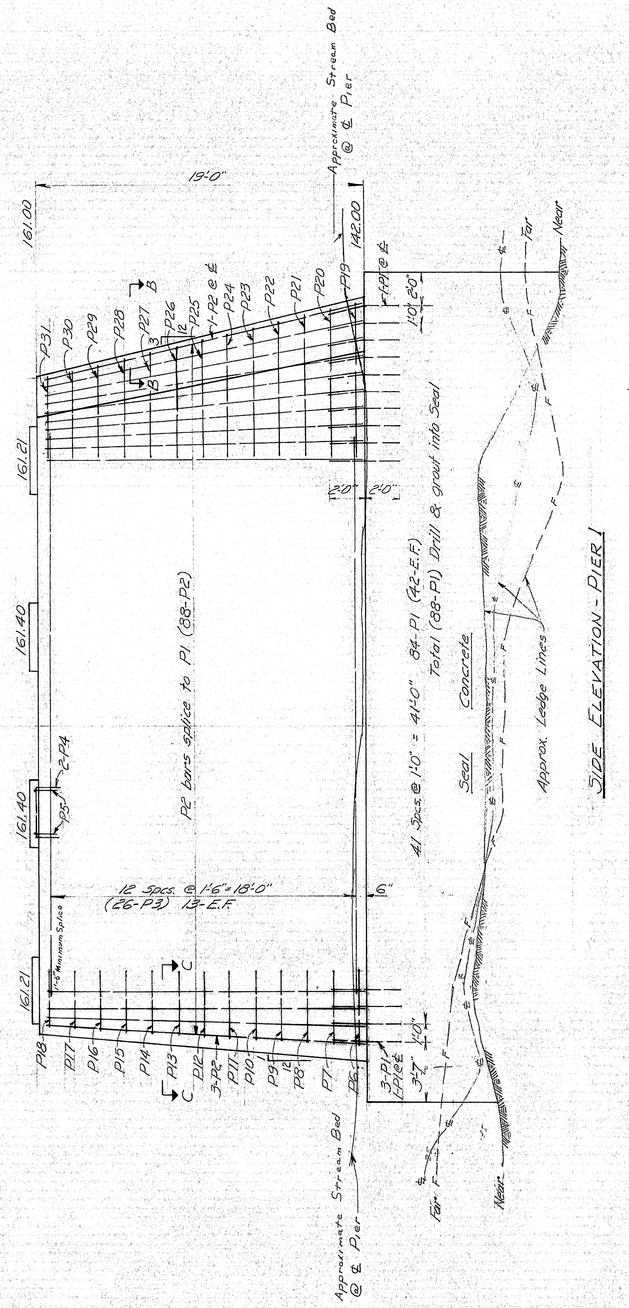
C. B. CO., NO. 44-131 - 26788

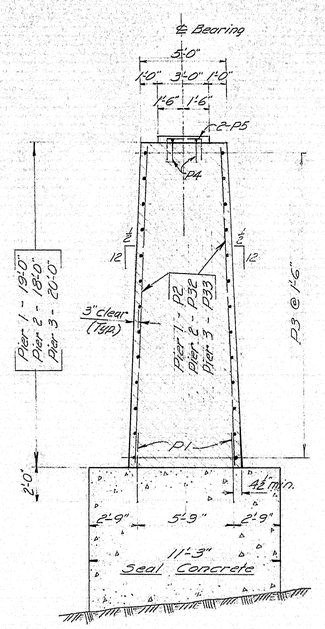
96-22



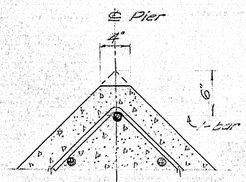
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(59)	10	47



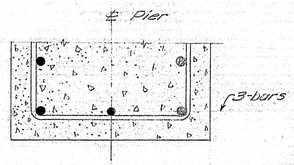




SECTION A-A



SECTION B-B



SECTION C-C

GENERAL NOTES

Pier Design based on a 1'-0" thickness of ice applied at Elev. 153.0, and a stream velocity of 10 ft. per second.

Reinforcing Steel to have a minimum 3" cover unless otherwise noted.

Payment for drilling for and grouting of P1 bars into Seal, shall be considered incidental to Item 705-14, Reinforcing Steel, Placing.

Seal Concrete is intended to be placed under water and to be paid for under Item 701-36. Seals may be unwatered when water elevation outside cofferdam is not in excess of Elev. 152.0

Seal dimensions are predicated on use of MP-116, DP-2, 1-27 or equivalent steel sheet piling with standard rolled corners. Pay dimensions for Seal Concrete shall be neat dimensions plus 10"

Maximum Footing pressure = 7 tons per square foot.

DESIGN- T.M.K.
TRACE+ DETAIL - G.M.C.
CHECK- EDH

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PISCATAQUIS RIVER BRIDGE

INTERSTATE 95

IN THE TOWN OF

HOWLAND

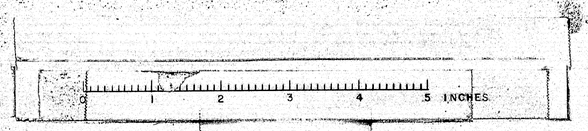
PENOBSCOT COUNTY

PIER 1

SHEET 10 OF 47 AUGUSTA, MAINE SEPT. 1964

C. D. CO., NO. 44-131 24788

96-23



B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(57)	11	47

PLAN - PIER 2

PLAN - PIER 3

SIDE ELEVATION - PIER 2

SIDE ELEVATION - PIER 3

NOTE: See sheet #10 for General Notes & Sections.

DESIGN- T.H.K.	BRIDGE NO.
TRACE- DETAIL - G.M.C.	SURVEY-
CHECK- C.D.H.	PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PISCATAQUIS RIVER BRIDGE

INTERSTATE 95

IN THE TOWN OF

HOWLAND

PENOBSCOT COUNTY

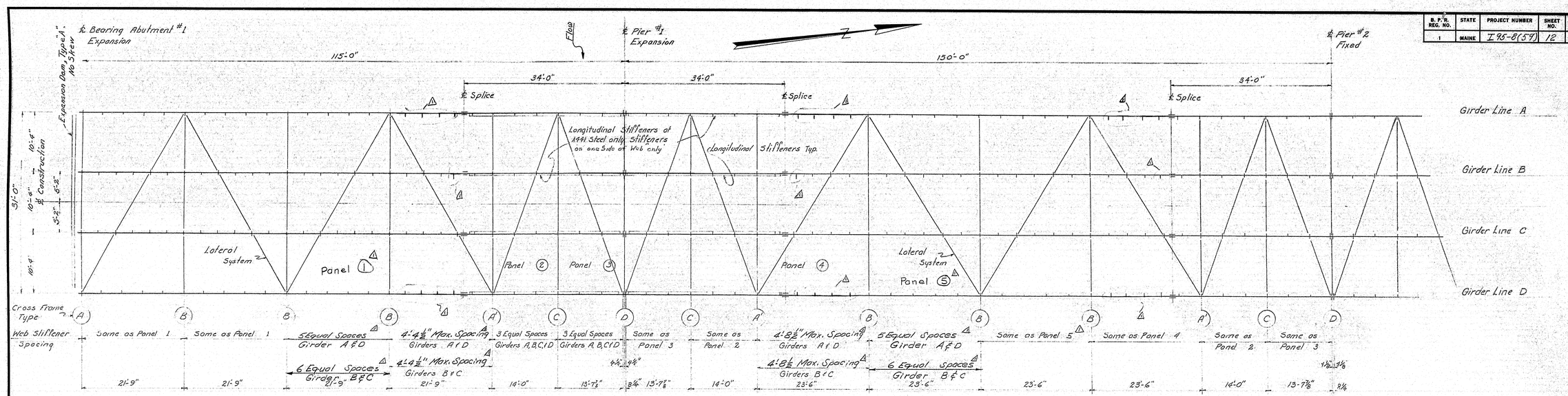
PIERS 2 & 3

SHEET 11 OF 47 AUGUSTA, MAINE SEPT. 1964

C. S. CO., NO. 44-131 28728

96-24

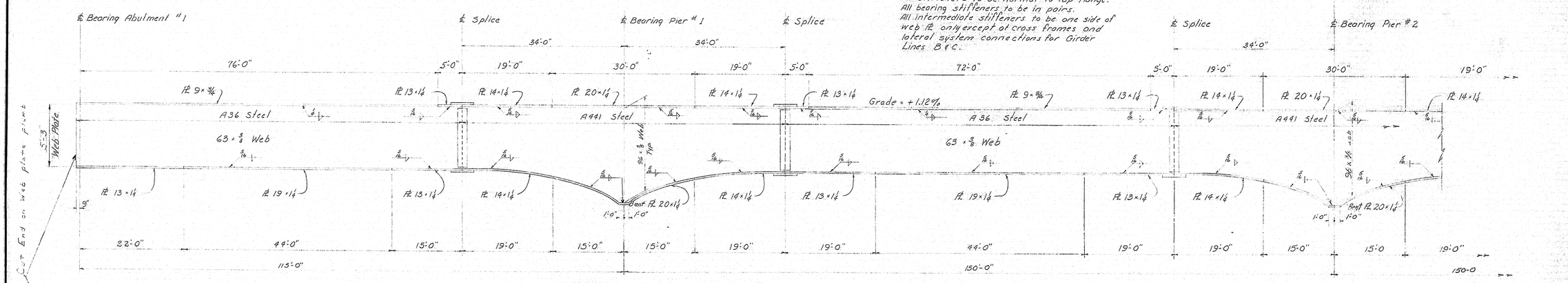
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95-8(59)	12	47



ERECTION PLAN

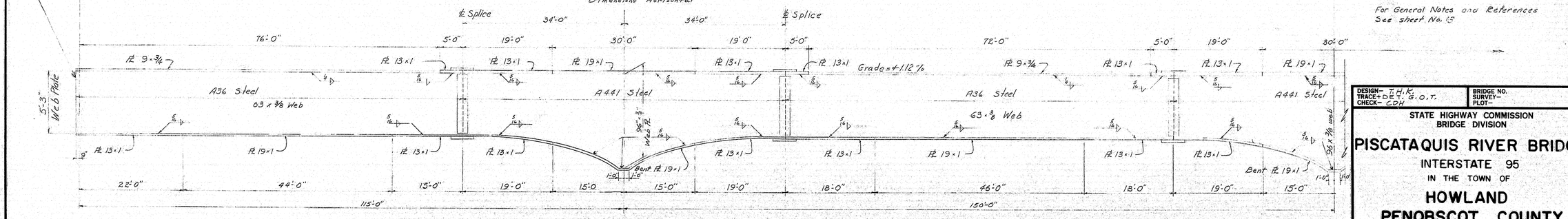
Note:
All dimensions are horizontal
All intermediate stiffeners to be PL 6 × ⅜.
All stiffeners to be normal to top flange.
All bearing stiffeners to be in pairs.
All intermediate stiffeners to be one side of web PL only except at cross frames and lateral system connections for Girder Lines B ℄ C.

Symmetrical about ℄ Pier #2 except for grades.



ELEVATION GIRDER LINES B ℄ C

Dimensions Horizontal



ELEVATION GIRDER LINES A ℄ D

Dimensions Horizontal

For General Notes and References See sheet No. 13

Revised 10-4-65

DESIGN- T.H.K.
TRACE+DET. G.O.T.
CHECK- CDH

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

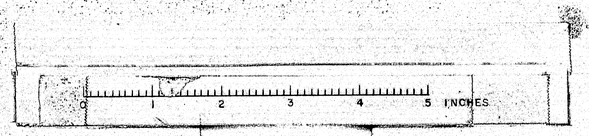
PISCATAQUIS RIVER BRIDGE

INTERSTATE 95
IN THE TOWN OF
HOWLAND
PENOBSCOT COUNTY
ERECTION PLAN

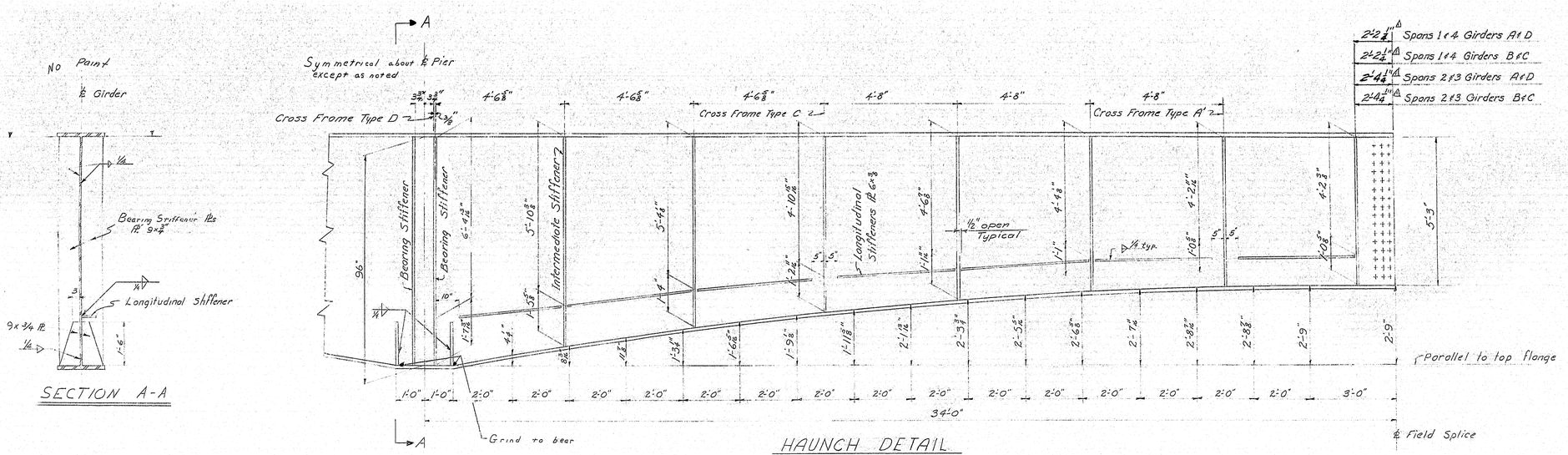
SHEET 12 OF 47 AUGUSTA, MAINE SEPT. 1964

96-25

C. B. CO., NO. 44-131 28788



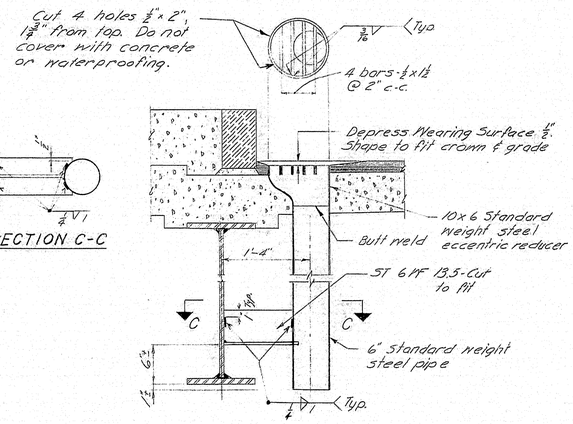
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95-8(39)	13	47



SECTION A-A

HAUNCH DETAIL

Typical All Girders
Dimensions Horizontal



SECTION C-C

GENERAL NOTES

GIRDER FABRICATION

1. Flanges are to be butt welded in accordance with details this sheet and the specifications, and inspected in conformance with the specifications prior to being fillet welded to the web plates.
2. The Steel Fabricator at his option may fabricate the web plates with butt welds with the following limitations:
   a) A maximum of two (2) transverse welds in the positive moment 63 - ⅜ web plates per girder per span.
   b) A maximum of one (1) transverse weld each side of the ℄ of bearing at a maximum distance of 12'-0" from the ℄ of bearing and one (1) longitudinal weld in the negative moment 96 - ⅜ web plates per girder per section between field splices.

minimum C.L.F. 12'-11"-64

3. If butt welds are used to fabricate the web plates they shall be made and inspected in conformance with the specifications before the web plates are fillet welded to the flange plates. The location and detail of butt welds in the webs shall be subject to approval by the Engineer.

SPECIFICATIONS

Design:
The American Association of State Highway Officials Standard Specifications for Highway Bridges, 1961 with Interim Specifications 1961, 1962, 1964

Fabrication & Erection:
State of Maine, State Highway Commission, Standard Specifications Highways and Bridges, Revision of January 1956 and Supplemental Specifications Feb., 1960 and as modified by Contract Specifications

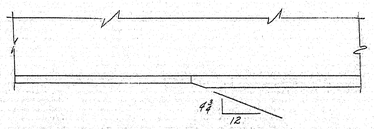
Welding:
Standard Specifications for Welded Highway and Railway Bridges, American Welding Society, AWS D20, 1963, as modified by contract specifications.

DESIGN

Loading: HS 20-44 as modified for Interstate Highways.
Allowable Stresses: Structural Steel, A36 - f_s = 20,000 psi
Structural Steel, A441 - f_s = 24,000 psi

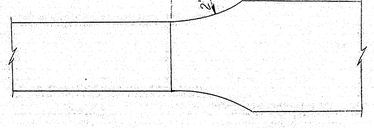
A.S.T.M. STEEL CLASSIFICATION

Girders: A36 or A441 as shown on Erection Plan Sheet No. 12
All Stiffeners: A36
Field Splices: A36.
H.S. Bolts: A325.
Pedestals: A36., except pins
Anchor Bolts: A7, A36 or A307.
All other A36 unless otherwise noted.
Pedestal pins: A235 Class C1 or A108
Grade 1016 to 1030 incl. with minimum Rockwell Scale "B" hardness of 80



FLANGE BUTT WELD @ THICKNESS CHANGE

Note:
"Single Vee Butt Weld" to be used when either plate is 1" or less in thickness. Structural Steel Fabricator to furnish details. Note also applies to View B-B.



FLANGE BUTT WELD @ WIDTH CHANGE

DRAIN

Drains to be paid for as Structural Steel
34 - Required for Piscataquis River Bridge.

REFERENCES

Erection Plan:	Sheet No. 12
Steel Details & General Notes:	Sheet No. 13
Shear Connector - Splice & Camber:	Sheet No. 16
Cross Frames Details:	Sheet No. 14
Lateral System Details:	Sheet No. 15
Bearing Pedestal Details:	Sheet No. 17
Expansion Dams See Standard	Sheet BD 105-64

Detail at ends of Longitudinal Stiffeners REVISED 11-19-64

Δ1 Revised 10-4-65

DESIGN - T.H.K. TRACE + DET. G.O.T. CHECK - EDH
BRIDGE NO. SURVEY - PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PISCATAQUIS RIVER BRIDGE

INTERSTATE 95
IN THE TOWN OF

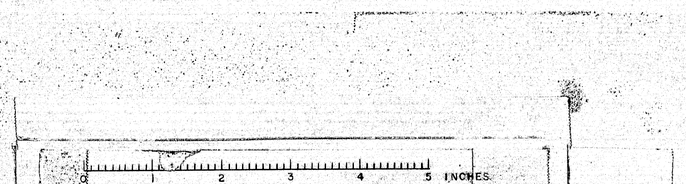
HOWLAND
PENOBSCOT COUNTY

STEEL DETAILS & GENERAL NOTES

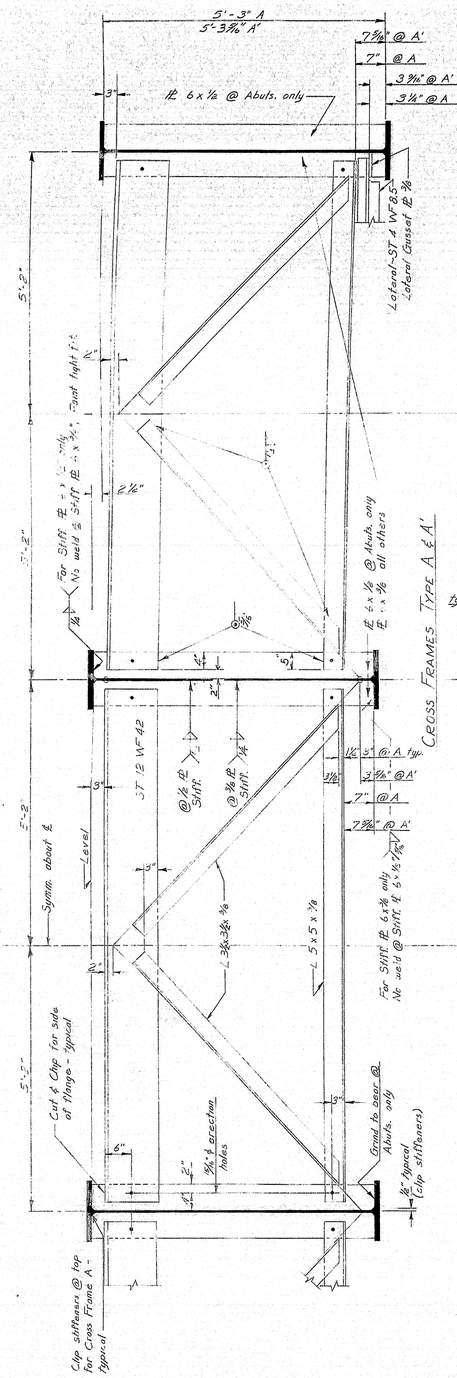
SHEET 13 OF 47 AUGUSTA, MAINE SEPT. 1964

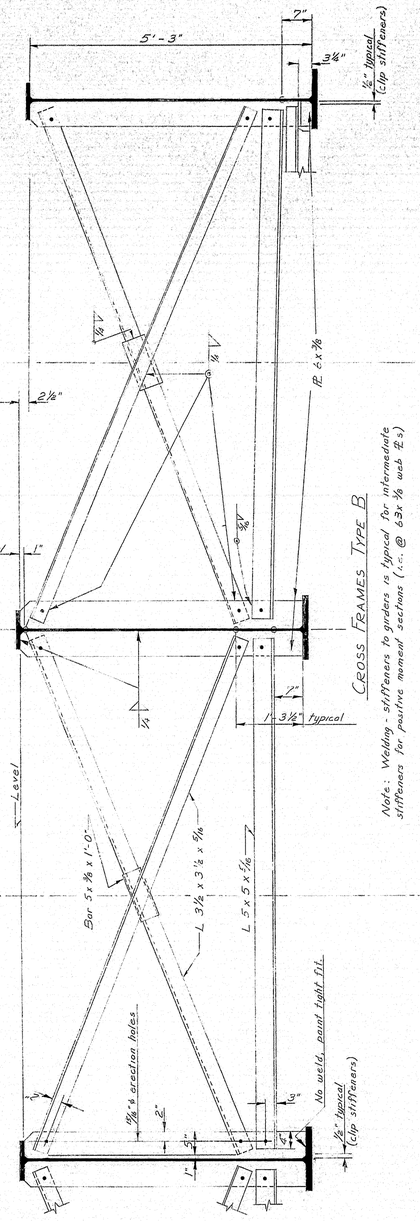
96-26

C. B. CO., NO. 44-131 28788

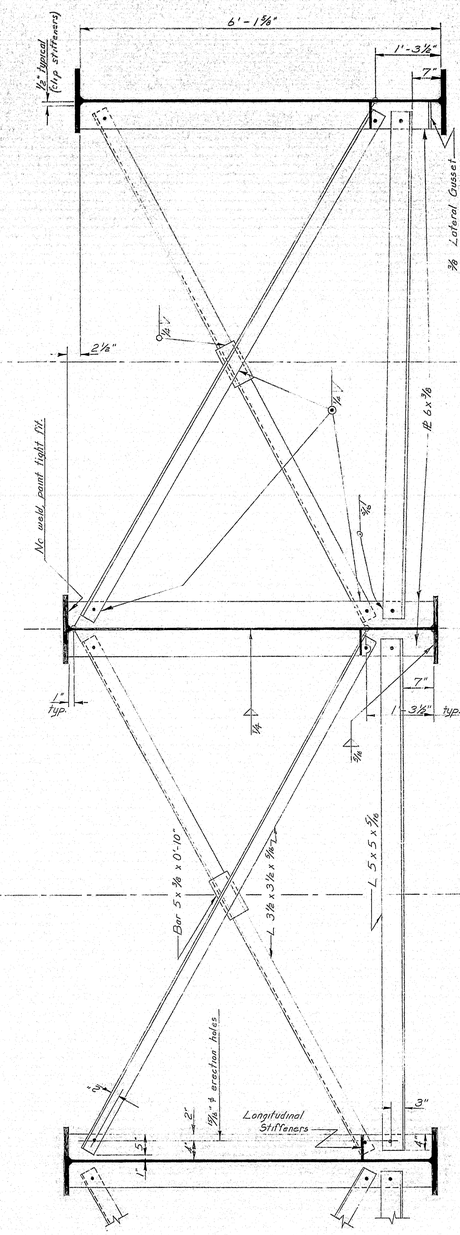


B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95-3(39)	14	47

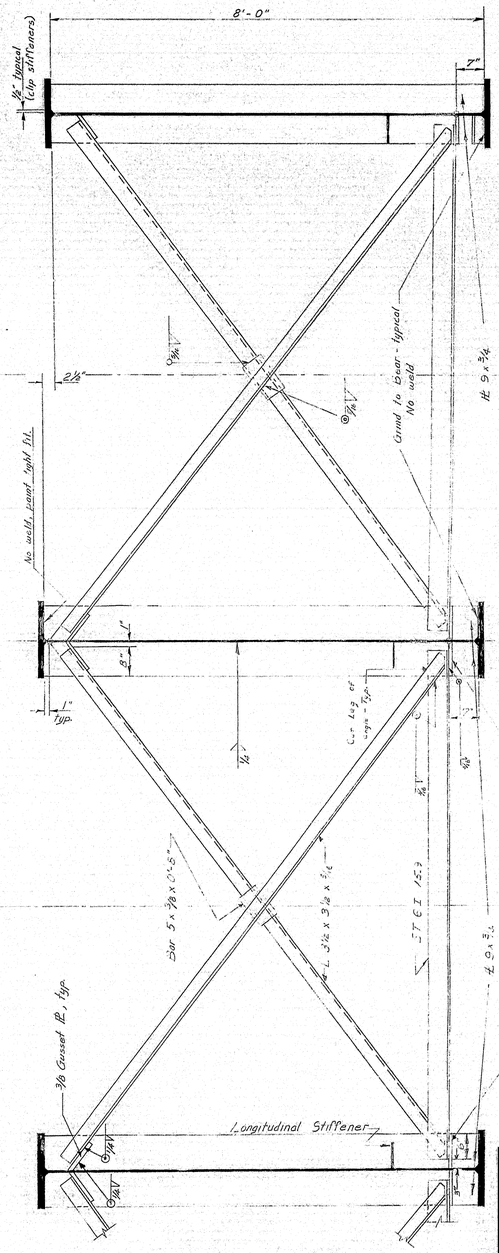




Note: Welding - stiffeners to girders is typical for intermediate stiffeners for positive moment sections (i.e. @ 63' ± web PL's)



Note: Welding - stiffeners to girders is typical for intermediate stiffeners for negative moment sections adjacent to piers (i.e. @ variable depth web PL's between field splices.)



NOTE: Exterior Girder Stiffeners shall have the same width as the Interior Girder Stiffeners.

DESIGN- T.H.K. DET. G.O.T. | BRIDGE NO.
TRACE- E.R.A. | SURVEY-
CHECK- EPH | PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PISCATAQUIS RIVER BRIDGE

INTERSTATE 95

IN THE TOWN OF

HOWLAND

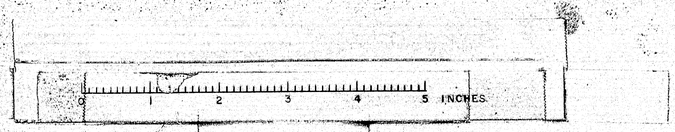
PENOBSCOT COUNTY

CROSS FRAMES

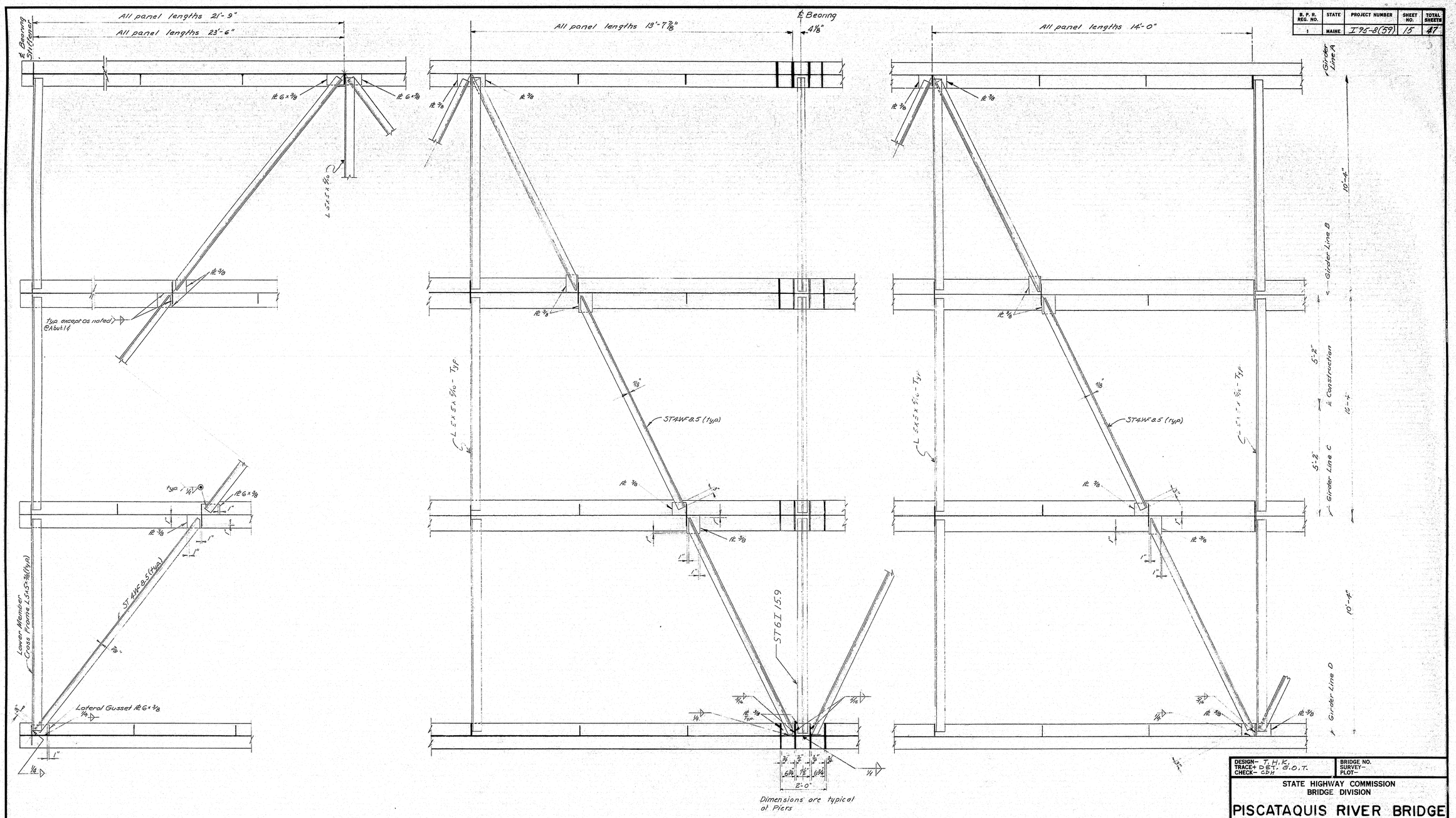
SHEET 14 OF 47 AUGUSTA, MAINE SEPT. 1964

96-27

C. B. CO., NO. 44-131 28728



B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95-8(59)	15	47



LATERAL SYSTEM DETAILS

Dimensions Horizontal

DESIGN- T.H.K.
TRACE- DET. S.O.T.
CHECK- C.P.H

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

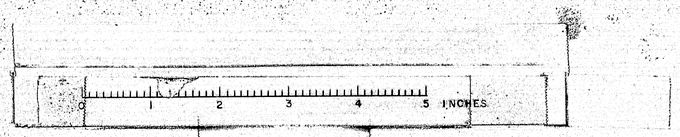
PISCATAQUIS RIVER BRIDGE

INTERSTATE 95
IN THE TOWN OF
HOWLAND
PENOBSCOT COUNTY
LATERAL SYSTEM DETAILS

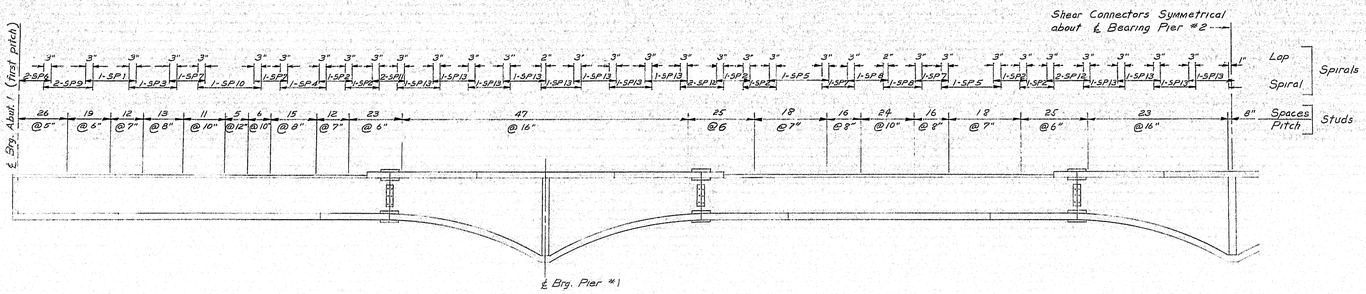
SHEET 15 OF 47 AUGUSTA, MAINE SEPT 1964

C. B. CO., NO. 44-131 28788

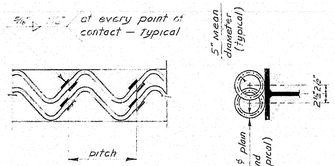
96-28



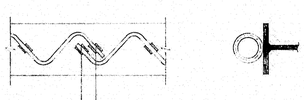
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(59)	16	47



SHEAR CONNECTOR LAYOUT
All Girders



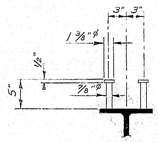
DOUBLE SPIRALS
Indicated by "2" in layout



SINGLE SPIRALS
Indicated by "1" in layout

SPIRAL TABLE

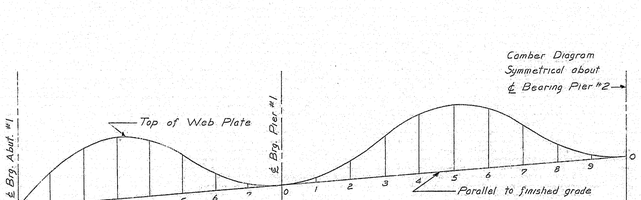
Spiral	Number	Spaces	Pitch	Length
SP1	8	29	4"	9'-8"
SP2	48	18	4"	6'-0"
SP3	8	22	5"	9'-2"
SP4	8	21	5"	8'-9"
SP5	16	28	5"	11'-8"
SP6	16	14	6"	7'-0"
SP7	32	12	6"	6'-0"
SP8	16	13	7"	7'-7"
SP9	16	16	7"	9'-4"
SP10	8	22	7"	12'-10"
SP11	16	10	7"	5'-10"
SP12	32	14	7"	8'-2"
SP13	96	6	16"	8'-0"



STUD DETAIL
2 Studs @ each pitch
5,936 Required

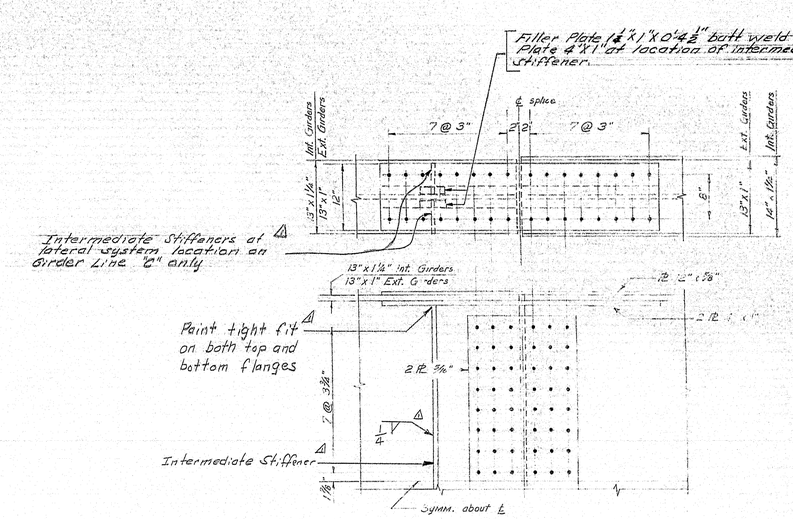
NOTE:
1. Pitch and transverse spacing may be revised slightly at girder field splices to clear H.S. Bolts.
2. Spiral reinforcing or studs may be used at the option of the contractor.
3. If studs are used they shall be granular or solid filled and automatically end welded to the top flange in the shop or field.
4. Studs are a patented product. If the contractor elects to use them, he shall pay the royalty, and payment to the contractor will be included in the lump sum price for Shear Connectors.

SHEAR CONNECTOR DETAILS



CAMBER DIAGRAM
All Girders

Span	Point	Camber
℄ Brg. Abut. #1	0	0
	1	1/16"
	2	1 1/16"
	3	1 1/16"
	4	1 1/16"
	5	1 1/16"
	6	1/16"
	7	1/16"
℄ Brg. Pier #1	0	0
	1	1/16"
	2	3/16"
	3	1 3/16"
	4	1 3/16"
	5	1 15/16"
	6	1 3/4"
	7	1 15/16"
	8	15/16"
	9	1/16"
℄ Brg. Pier #2	0	0



TYPICAL GIRDER FIELD SPLICE
7/8" ϕ H.S. Bolts; 1"/16" ϕ holes

Δ Revised 10-4-65

DESIGN- T.H.K.
TRACE- DET. E.R.A.
CHECK- GDH

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

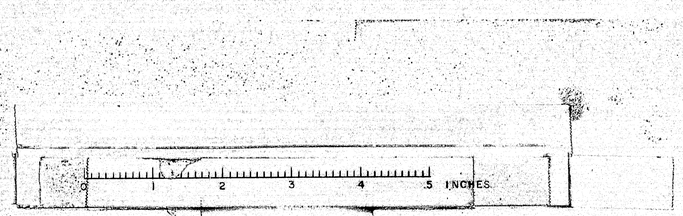
PISCATAQUIS RIVER BRIDGE

INTERSTATE 95
IN THE TOWN OF
HOWLAND
PENOBSCOT COUNTY
SHEAR CONNECTOR- SPLICE- CAMBER

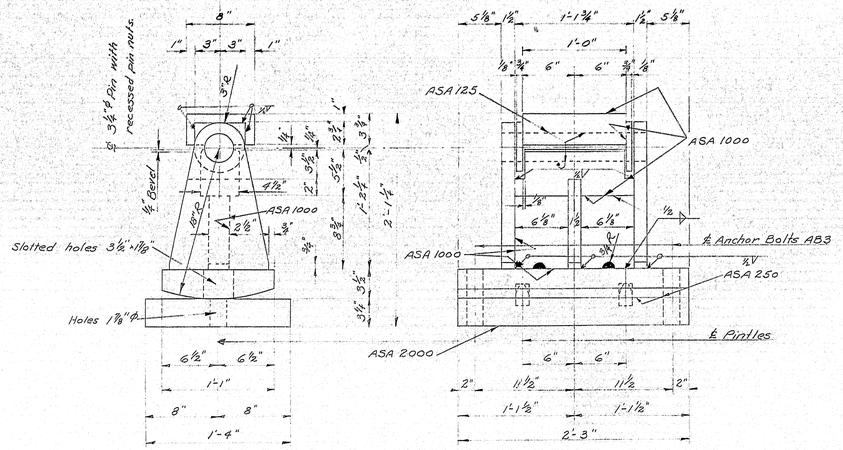
SHEET 16 OF 47 AUGUSTA, MAINE SEPT. 1964

96-29

C. B. CO., NO. 44-131 59760

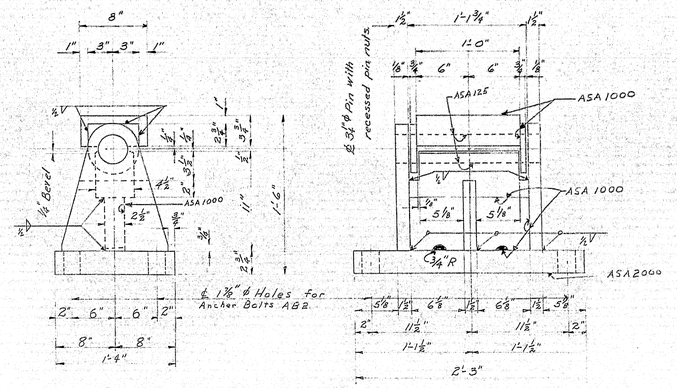


B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-2(69)	17	47



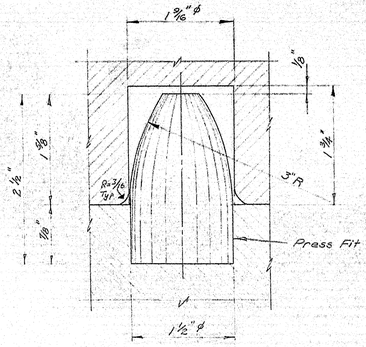
EXPANSION PEDESTAL

Piers 1 & 3 only
8 Required

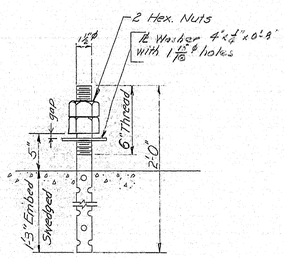


FIXED PEDESTAL

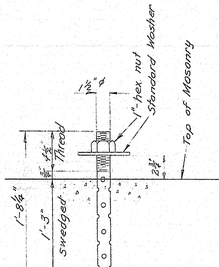
Pier 2 only
4 Required



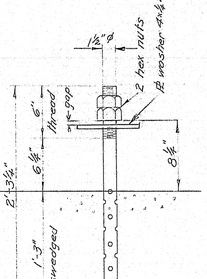
PINTLE DETAIL



AB1
16 Required



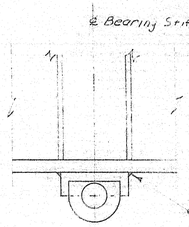
AB2
16 Required



AB3
16 Required

ANCHOR BOLTS

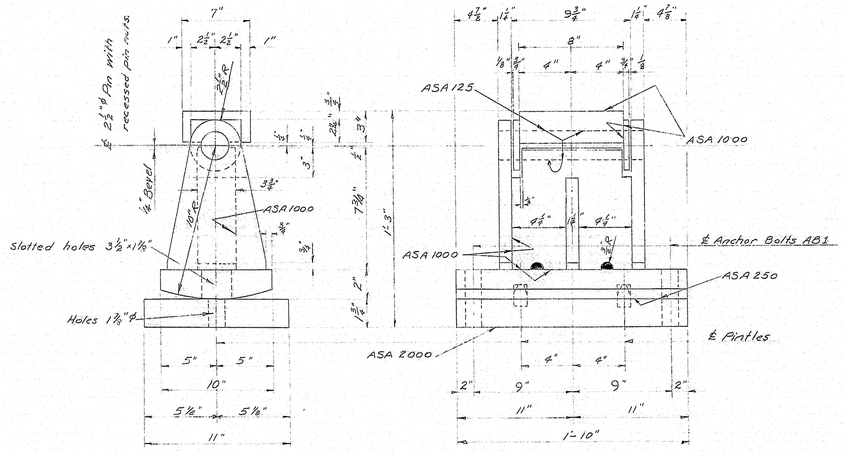
Piers



TYPICAL WELDING DETAIL

Sole ℄ to Girder

Note: Set Rockers Normal at 45° F.



EXPANSION PEDESTAL

Abutment 1 & 2

8 Required
Welding Similar to Pedestal above

NOTE: At the location of bearing pedestals the concrete bridge seats shall be dressed one inch larger all around than size of masonry plates and to exact elevations shown on plans. If the dressed areas are below the surface of the surrounding bridge seat a small channel shall be cut to the edge of the bridge seat for drainage where required by the Engineer. Channels shall have a min. width of 2", and min. slope of ½ inch per foot. No separate payment for this work will be made as it shall be considered incidental to contract items. Place reinforcing steel to clear anchor bolts.

DESIGN- T.H.K. TRACE- DET. G.O.T. CHECK- CDH	BRIDGE NO. SURVEY- PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

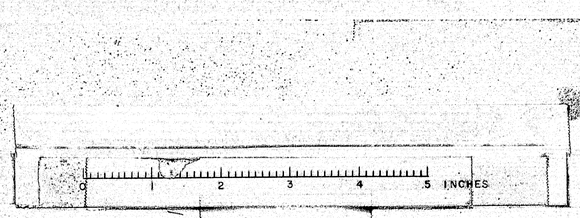
PISCATAQUIS RIVER BRIDGE

INTERSTATE 95
IN THE TOWN OF
HOWLAND
PENOBSCOT COUNTY
BEARING PEDESTALS

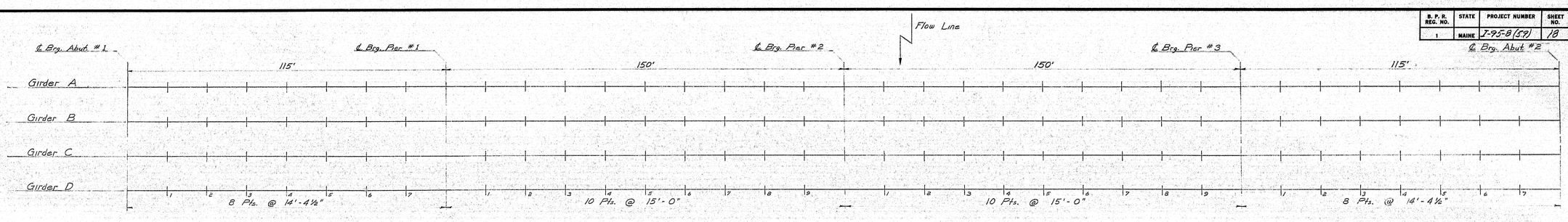
SHEET 17 OF 47 AUGUSTA, MAINE SEPT 1964

96-30

C. B. CO., NO. 44-131 28788



B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(57)	18	47



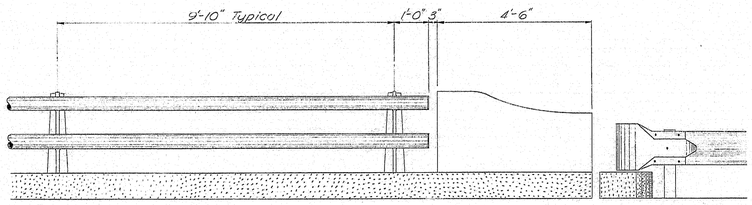
BLOCKING PLAN

BOTTOM OF SLAB ELEVATIONS

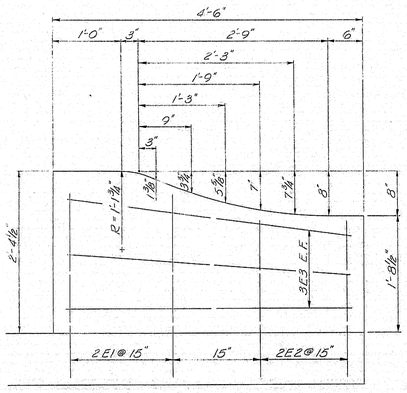
Girders	℄ Brg. Abut. 1	1	2	3	4	5	6	7	℄ Brg. Pier 1	1	2	3	4	5	6	7	8	9	℄ Brg. Pier 2	1	2	3	4	5	6	7	8	9	℄ Brg. Pier 3	1	2	3	4	5	6	7	℄ Brg. Abut. 2
A & D	170.30	170.53	170.73	170.91	171.06	171.19	171.31	171.44	171.59	171.77	171.99	172.20	172.42	172.60	172.76	172.88	172.99	173.11	173.27	173.45	173.67	173.88	174.10	174.28	174.44	174.56	174.67	174.79	174.95	175.12	175.31	175.51	175.70	175.89	176.03	176.13	176.24
B & C	170.51	170.74	170.94	171.12	171.26	171.39	171.52	171.65	171.80	171.98	172.19	172.41	172.62	172.81	172.96	173.08	173.20	173.32	173.48	173.66	173.87	174.09	174.31	174.49	174.65	174.76	174.88	175.00	175.16	175.33	175.52	175.72	175.91	176.09	176.23	176.33	176.44

173.20

Note:
To compensate for dead load deflections, as well as possible irregularities in girders, set the bottom of slab elevations at the points indicated before any of the slab forms are started. Bottom of slab grades for blocking shall be set after shear connectors are welded to the top flange.

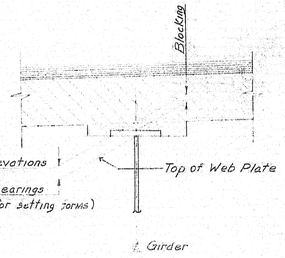


RAIL & END POST



END POST

Note- Payment for concrete in End Rail Posts to be made under Item 701-90, Portland Cement Concrete, Roadway and Sidewalk Slabs on Steel Bridges.



BLOCKING DETAIL

DESIGN- T.H.K. TRACE+DET. E.R.A & E.E.L. CHECK- CDH	BRIDGE NO. SURVEY- PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PISCATAQUIS RIVER BRIDGE

INTERSTATE 95
IN THE TOWN OF

HOWLAND

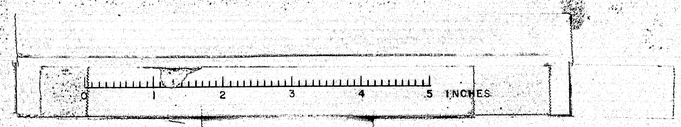
PENOBSCOT COUNTY

BLOCKING & RAIL DETAILS

SHEET 18 OF 47 AUGUSTA, MAINE SEPT. 1964

96-31

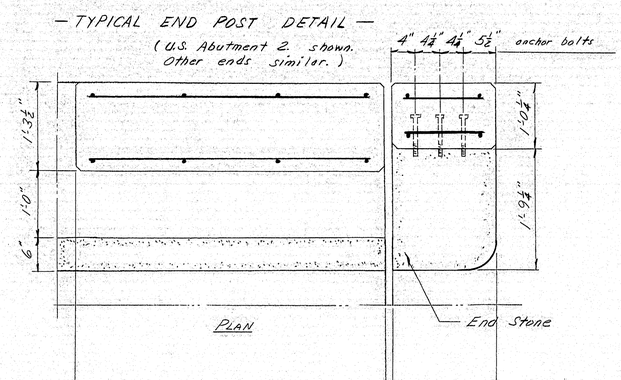
C. B. CO., NO. 44-131 29788

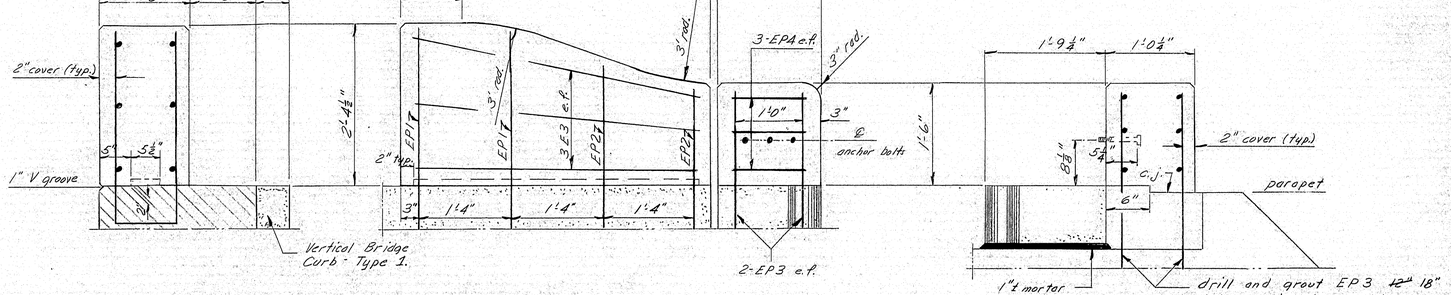


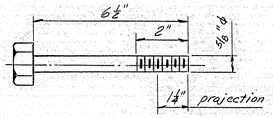
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-B(59)	18A	47

— TYPICAL END POST DETAIL —

(U.S. Abutment 2. shown. Other ends similar.)

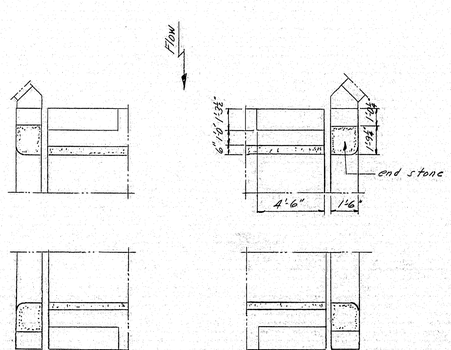




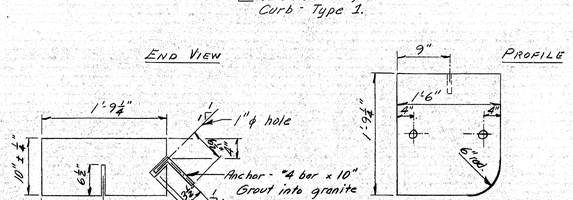


Anchor Bolt

Bolt to be furnished with hex. head, nut, and washer. All parts galvenized.



Scope of Work



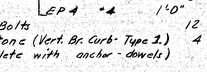
D.S. abut. 1. & U.S. abut. 2. shown. U.S. abut. 1. & D.S. abut. 2. opposite hand.

Vertical Bridge Curb - Type 1. - End Stone

Drill 1½" ϕ holes 6" deep into existing abutment concrete. Grout "6 x 1'-0" dowels into granite before setting granite on abutment.

— Additional Materials Required —

Concrete Class "A"			- 0.50 c.y.	
Reinforcing Steel:				
Bent Bars	EP1	#5	6'-11"	8 req'd.
	EP2	#5	5'-3"	8 req'd.
Straight Bars	EP3	~~#5~~ #7	~~3'-5"~~ 3'-9"	16 req'd.
	EP4	#4	1'-0"	24 req'd.
Anchor Bolts				12 req'd.
End Stone (Vert. Br. Curb - Type 1.) (complete with anchor - dowels)				4 req'd.



DESIGN— Mallicane
TRACE—
CHECK— JMcMillan

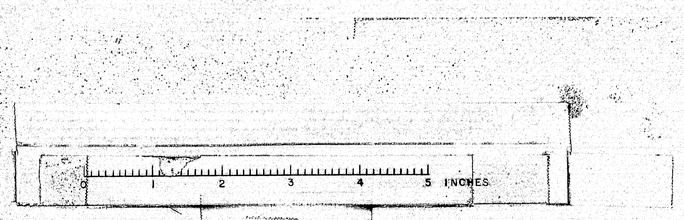
BRIDGE NO.
SURVEY—
PLOT—

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

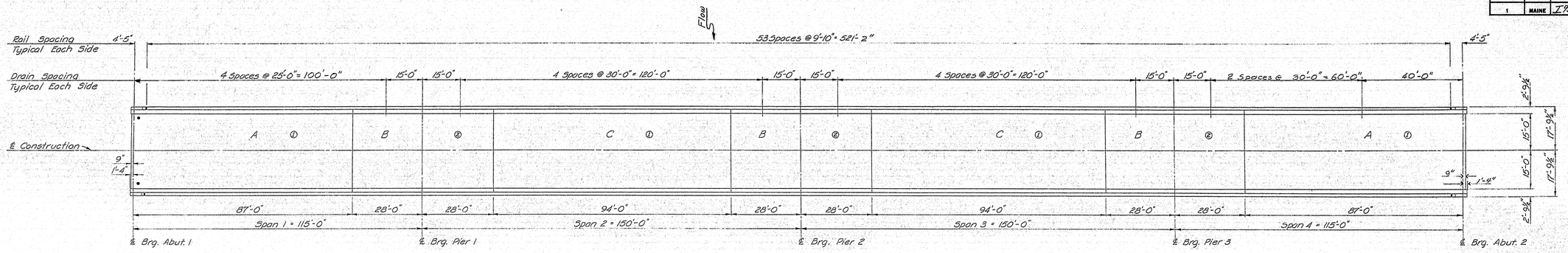
PISCATAQUIS RIVER BRIDGE
INTERSTATE 95
IN THE TOWN OF
HOWLAND
PENOBSCOT COUNTY
END POST REVISIONS

SHEET 18A OF 47 AUGUSTA, MAINE MARCH 1966

96-32

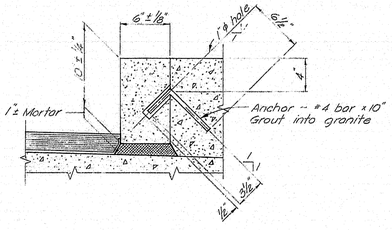


B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95-8 (59)	19	47

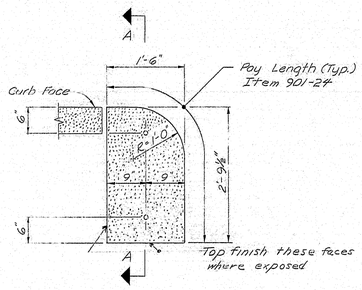


LAYOUT PLAN

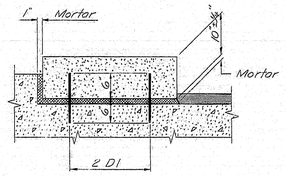
Place all slabs marked ① before placing slabs marked ②.



TYPICAL SECTION



PLAN



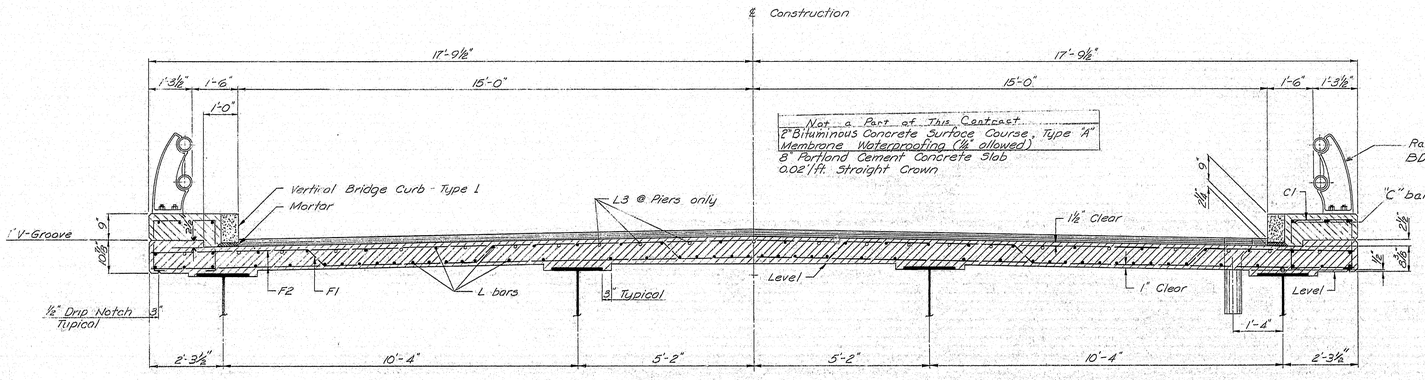
SECTION A-A

Grout D1 bars into 1¼" ϕ holes in stone prior to setting stone on backwall. Drill 1¼" holes in backwall to suit D1 bars. Payment for drilling and grouting of D1 bars to be included in the price for Item 705-14, Reinforcing Steel, Placing.

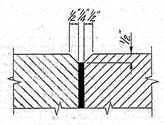
SLAB NOTES

1. At contraction joints over ℄ of bearings of piers use ½" preformed expansion joint filler for granite curb and concrete curb. At all other contraction joints in curbs break the bond between concrete surfaces by coating the contact areas with a suitable grade of asphalt paint. Joints in granite curb are to be provided at every contraction joint in concrete curb.
2. Form a 1" V-Groove on both face of curb and slab at each contraction joint.
3. At points indicated by symbol * on "Layout Plan" provide a 1" ϕ plastic tube drain extending through slab to 2" below bottom of slab. Place in order for drip to clear bridge seats. Do not cover with membrane waterproofing. Payment to be incidental to Item 701-40 Portland Cement Concrete Roadway and Sidewalk Slabs on Steel Bridges. (2 - Required.)
4. No work other than form work utilizing hand tools will be permitted on slab for a period of seven days following placing of slab.
5. For details of slabs A, B & C see Sh. #20.

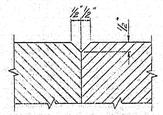
VERTICAL BRIDGE CURB - TYPE 1



TYPICAL TRANSVERSE SECTION



1" V-GROOVE
With ⅛" Preformed Expansion Joint Filler.



1" V-GROOVE
Without ⅛" Preformed Expansion Joint Filler.

DESIGN- T.H.K. TRACE- DET. E.E.L. CHECK- CDH	BRIDGE NO. SURVEY- PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

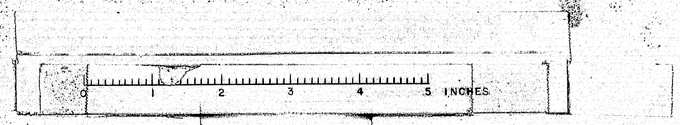
PISCATAQUIS RIVER BRIDGE

INTERSTATE 95
IN THE TOWN OF
HOWLAND
PENOBSCOT COUNTY
SUPERSTRUCTURE

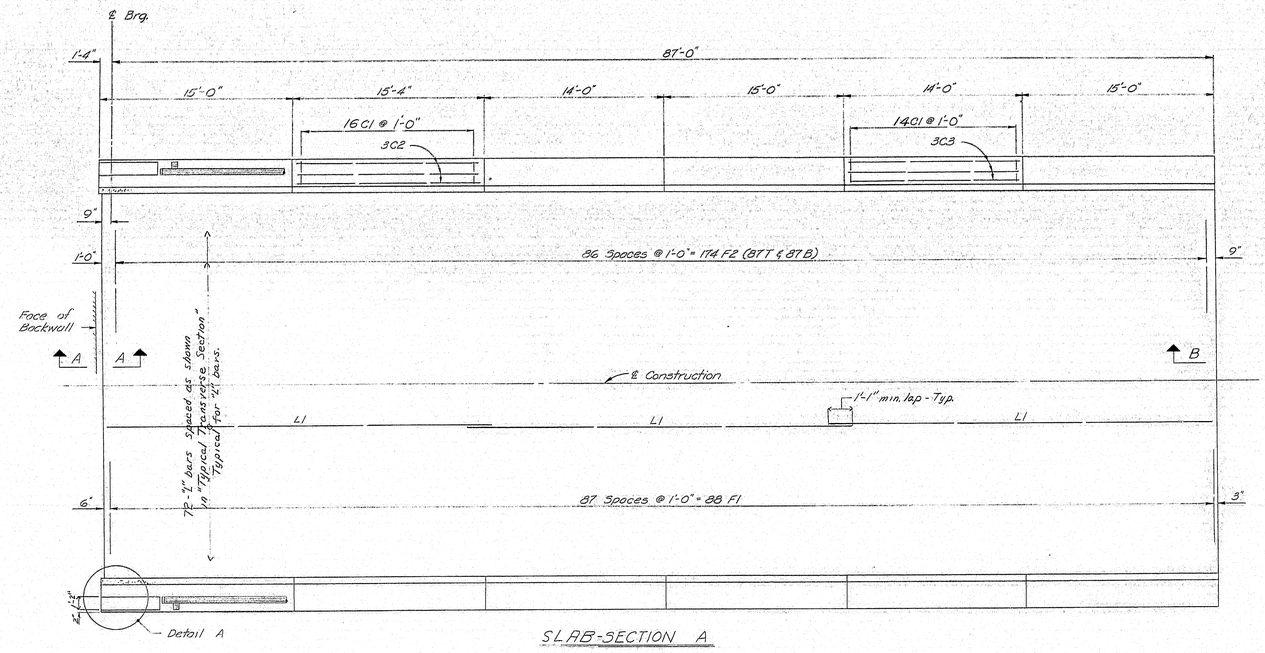
SHEET 19 OF 47 AUGUSTA, MAINE SEPT 1964

C. B. CO., NO. 44-131 28768

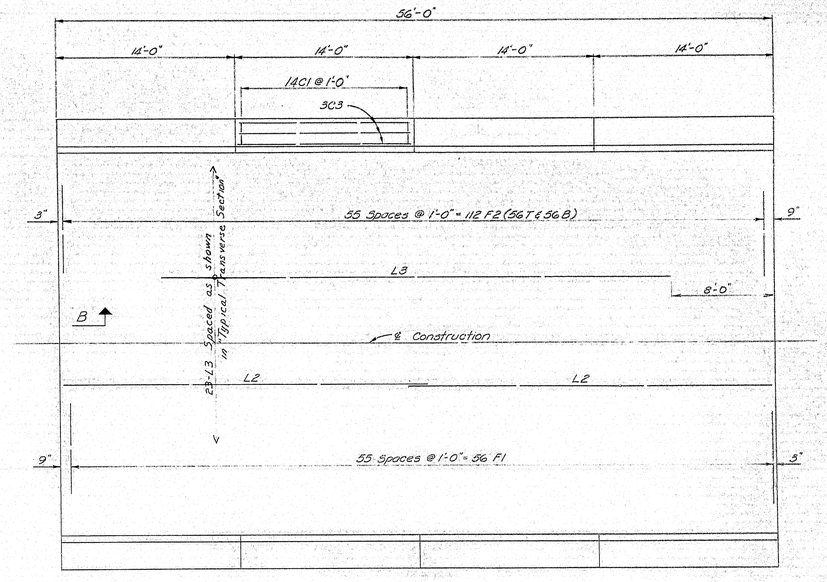
96-33



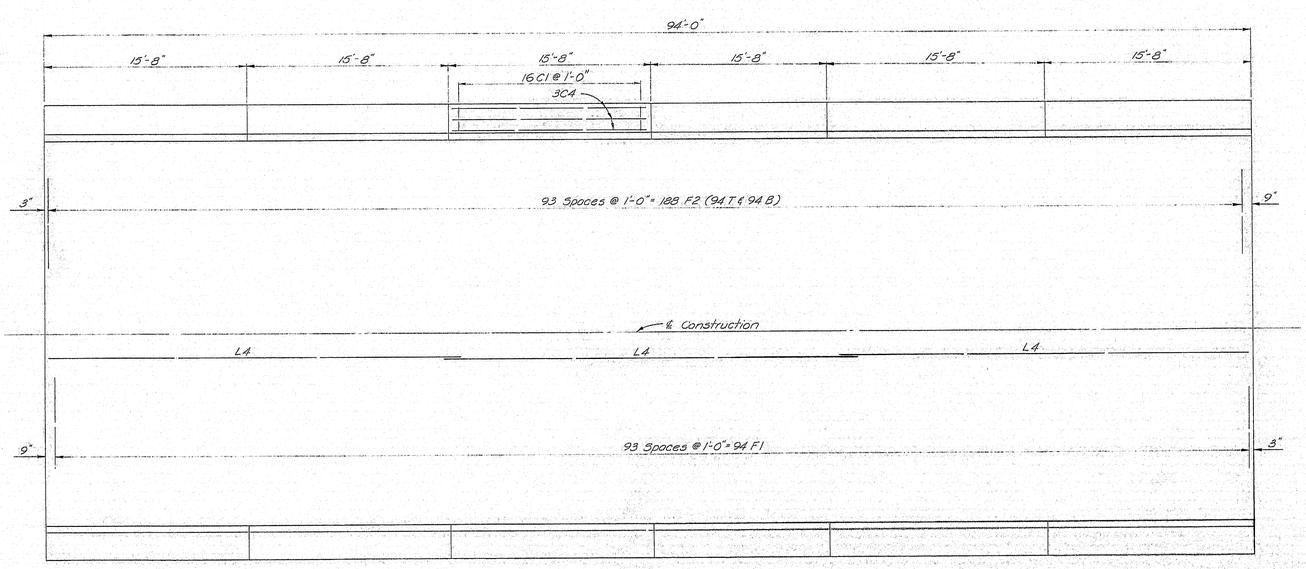
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I95-8(57)	20	47



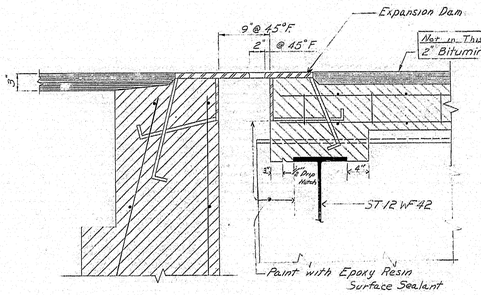
SLAB-SECTION A



SLAB-SECTION B



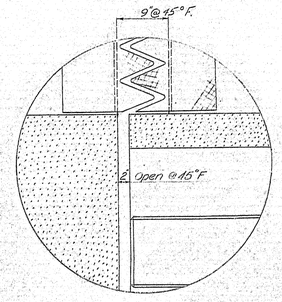
SLAB-SECTION C



SECTION A-A

SECTION B-B

At joints in concrete and granite curbs over piers 1, 2, & 3 and at slab construction joints, use ½" preformed expansion joint filler. At all other joints, break the bond between concrete surfaces with a coat of asphalt paint.



DETAIL A

Note: For location of Slab A, B & C see Sh #19.

DESIGN- T.H.K.
TRACE- D.S.T. E.E.L.
CHECK- EDH

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PISCATAQUIS RIVER BRIDGE

INTERSTATE 95
IN THE TOWN OF

HOWLAND

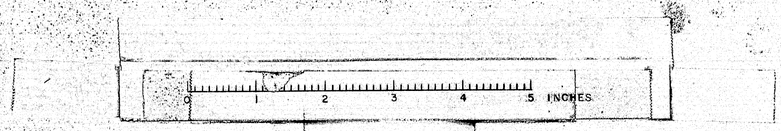
PENOBSCOT COUNTY

SUPERSTRUCTURE

SHEET 20 OF 47 AUGUSTA, MAINE SEPT 1964

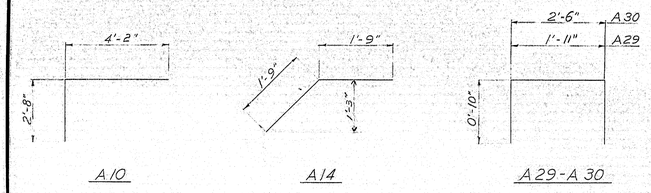
96-34

C. B. CO., NO. 44-131 28788



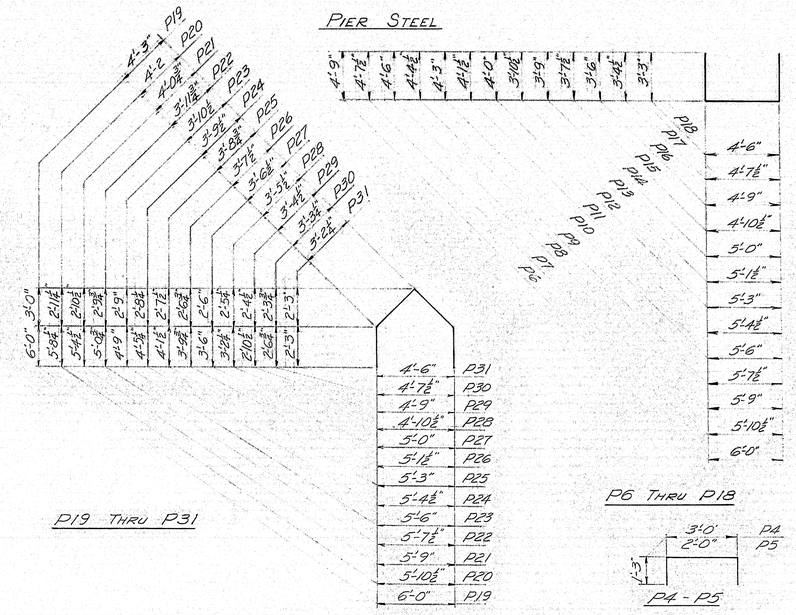
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(59)	21	47

ABUTMENT STEEL



A10 A14 A29-A30

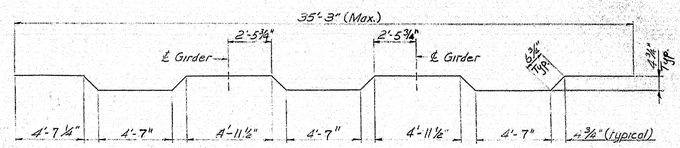
PIER STEEL



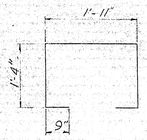
P19 THRU P31 P6 THRU P18

P4 - P5

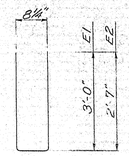
SUPERSTRUCTURE STEEL



F1



C1



E1 & E2

BENT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
A1	#5	46	6'-10"	Bridge Seat
A14	#6	40	3'-6"	Backwall
A29	#4	16	3'-7"	Bearing Pads
A30	#4	16	4'-2"	" "

STRAIGHT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
A1	#6	136	6'-6"	Footing
A2	#6	26	34'-0"	"
A3	#6	40	10'-6"	"
A4	#6	16	5'-6"	"
A5	#6	16	4'-6"	"
A6	#6	16	4'-0"	"
A7	#6	16	3'-0"	"
A8	#6	110	2'-6"	"
A9	#5	46	5'-9"	"
A11	#5	24	17'-6"	Bridge Seat
A12	#5	46	3'-0"	" "
A13	#4	40	17'-2"	Backwall
A15	#5	92	7'-6"	"
A16	#6	8	11'-0"	Wing
A17	#6	8	10'-8"	"
A18	#6	8	10'-2"	"
A19	#6	8	9'-8"	"
A20	#6	8	9'-2"	"
A21	#6	8	8'-8"	"
A22	#6	8	8'-2"	"
A23	#6	8	7'-8"	"
A24	#5	16	9'-0"	"
A25	#5	16	10'-0"	"
A26	#5	8	9'-3"	"
A27	#5	8	7'-3"	"
A28	#5	8	5'-3"	"
A31	#4	40	29'-6"	Approach Slab
A32	#5	232	14'-6"	" "

Bend in field

DET. E.E.L.

BENT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
P4	#5	24	5'-6"	Bearing Pads
P5	#5	24	4'-6"	" "
P6	#5	2	15'-6"	Shaft - Pier 1 & 3
P7	#5	3	15'-1"	" - Pier 1,2 & 3
P8	#5	3	14'-9"	" "
P9	#5	3	14'-4"	" "
P10	#5	3	14'-0"	" "
P11	#5	3	13'-7"	" "
P12	#5	3	13'-3"	" "
P13	#5	3	12'-10"	" "
P14	#5	3	12'-6"	" "
P15	#5	3	12'-1"	" "
P16	#5	3	11'-9"	" "
P17	#5	3	11'-4"	" "
P18	#5	3	11'-0"	" "
P19	#5	2	20'-6"	" - Pier 1 & 3
P20	#5	3	19'-8"	" - Pier 1,2 & 3
P21	#5	3	18'-10"	" "
P22	#5	3	18'-0"	" "
P23	#5	3	17'-3"	" "
P24	#5	3	16'-6"	" "
P25	#5	3	15'-8"	" "
P26	#5	3	14'-10"	" "
P27	#5	3	14'-1"	" "
P28	#5	3	13'-3"	" "
P29	#5	3	12'-6"	" "
P30	#5	3	11'-8"	" "
P31	#5	3	10'-10"	" "

STRAIGHT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
P1	#7	266	4'-0"	Footing
P2	#7	88	18'-6"	Shaft
P3	#5	76	33'-0"	"
P32	#7	88	17'-6"	"
P33	#7	90	19'-6"	"

DET. G.M.C.

BENT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
F1	#6	532	36'-3"	Slabs
C1	#5	1098	6'-1"	Curbs
E1	#5	8	6'-9"	End Posts
E2	#5	8	5'-11"	" "

STRAIGHT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
F2	#6	1060	35'-3"	Slabs
L1	#5	132	3'-5"	"
L2	#5	432	28'-5	"
L3	#5	9	40'-0"	"
L4	#5	432	32'-0"	"
C2	#5	48	1'-3"	Curbs
C3	#5	96	13'-8"	"
C4	#5	72	15'-4"	"
D1	#6	8	1'-0"	Curb Dowels
E3	#4	24	4'-2	End Post

DET. E.E.L

NOTE: Dimensions to ℄ bars. Reinforcing steel to be of Intermediate Grade.

DESIGN- J.H.K.
TRACE- E.E.A., DET. AS SHOWN
CHECK- E.D.H.

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PISCATAQUIS RIVER BRIDGE

INTERSTATE 95
IN THE TOWN OF
HOWLAND
PENOBSCOT COUNTY
REINFORCING STEEL

SHEET 21 OF 47 AUGUSTA, MAINE SEPT. 1964

96-35

O. B. CO., NO. 44-131 29729