PERMANENT WAY NOTES

B.R.109 F.B. & B.S.110A F.B. COMMON CROSSING

REPAIR PARTS, BASEPLATES, BLOCKS ETC. FOR QUARTER ANGLES 1 IN 6¼ TO 1 IN 8¾

THESE NOTES ARE INTENDED FOR THE GUIDANCE AND ASSISTANCE OF STAFF ENGAGED UPON PERMANENT WAY WORK THEY DO NOT IN ANY WAY MODIFY, SUPPLEMENT OR AMEND THE INSTRUCTIONS LAID DOWN IN E.D.I., STANDARD DRAWINGS, CIRCULARS ETC., WHICH SHOULD BE REFERRED TO IN ALL CASES.

ANGLE 1 IN	Z	Y	X	A	B	C	D	E	F	G	K	L	S	CHECK
6¼	-	1'-8 15/16"	3"	3"	1'-9 39/64"	3'-4"	-	-	11'-6"	1'-10 5/8"	8'-2"	12'-6"	3'-6"	13'-0"
6¾	-	1'-10 11/32"	3"	3"	1'-10 37/64"	3'-4	-	-	11'-6"	1'-9"	8'-2"	12'-6"	3'-6"	13'-0"
7¼	-	1'-5¼"	3"	3"	1'-11 41/64"	3'-4	-	-	14'-0"	1'-11¾"	8'-2"	12'-6"	3'-6"	13'-0"
7¾	-	1'-6 7/16"	3"	3"	2'-0 33/64"	3'-4	-	-	14'-0"	1'-10¼"	8'-2"	12'-6"	3'-6"	13'-0"
8¼	-	1'-7 5/8"	3"	3"	9"	2'-3"	3'-4"	-	14'-0"	1'-8 15/16"	8'-2"	12'-6"	3'-6"	13'-0"
8¾	-	1'-8 13/16"	3"	3"	9"	2'-3"	3'-4"	-	14'-0"	1'-7 13/16"	8'-2"	12'-6"	3'-6"	13'-0"

REPAIR PARTS FO
F.B.109 LB. CROSSIN
VEE POINTS, WING RA
AND CHECK RAILS
SUPPLEMENTARY T
P.W. NOTE SHEET R.4
WHICH INCLUDES
EXPLANATORY DIAG

BASEPLATE	a	b	N
109 & 98 6¼ A	1'-1 7/8"	1'-10 9/16"	12·5
" 6¾ A	1'-1 13/16"	1'-10 31/64"	13·5
" 7¼ A	1'-1¾"	1'-10 7/16"	14·5
" 7¾ A	1'-1 45/64"	1'-10⅜"	15·5
" 8¼ A	1'-1 43/64"	1'-10 11/32"	16·5
" 8¾ A	1'-1⅝"	1'-10 29/64"	17·5

BASEPLATE	a	b	N	type
109 & 98 6¼ C	1'-1 7/8"	1'-10 9/16"	12·5	V A
" 6¾ C	1'-1 7/64"	1'-9 25/32"	13·5	V A
" 7¼ C	1'-0 7/16"	1'-9⅛"	14·5	V A
" 7¾ C	11 55/64"	1'-8 17/32"	15·5	NO SHOULDERS
" 8¼ C	11 23/64"	1'-8 1/32"	16·5	-"-
" 8¾ C	10 29/32"	1'-7 37/64"	17·5	-"-

BASEPLATES FOR F.B.109 LB XING
TYPES 'A' 'B' 'C' 'D' 'E' 'X' & 'Y' BASEPLAT
SUPPLEMENTARY TO P.W. NOTE SHEE
R.4303 & R.4304A WHICH INCLUDE
THE EXPLANATORY DIAGRAMS.

BASEPLATE	a	b	N
109 & 98 6¼ B	1'-6 43/64"	2'-3 23/64"	12·5
" 6¾ B	1'-6¼"	2'-2 15/16"	13·5
" 7¼ B	1'-5 57/64"	2'-2 37/64"	14·5
" 7¾ B	1'-5 37/64"	2'-2¼"	15·5
" 8¼ B	1'-5 19/64"	2'-1 31/32"	16·5
" 8¾ B	1'-5 1/16"	2'-1 47/64"	17·5

BASEPLATE	a	b	N	type
109 & 98 6¼ D	Replaced by Two L Baseplates			
" 6¾ D	1'-5 3/64"	2'-1 23/32"	13·5	I A
" 7¼ D	1'-4 5/64"	2'-0¼"	14·5	III A
" 7¾ D	1'-3 7/32"	1'-11 29/32"	15·5	III A
" 8¼ D	1'-2 27/64"	1'-11 5/32"	16·5	III A
" 8¾ D	1'-1 53/64"	1'-10½"	17·5	V A
" 8¾ E	1'-5¼"	2'-1 59/64"	17·5	I A

BASEPLATE	a	b	c	e	f	d
109 & 98 7¼X	1'-7 49/64"	11 3/32"	11 1/16"	1'-0 29/64"	1'-9⅛"	9 1/4
" 7¾X	1'-7 41/64"	10 31/32"	10 57/64"	1'-0 11/64"	1'-8 27/32"	9 1/4
" 8¼X	1'-7 9/16"	10 29/32"	10 47/64"	11 15/16"	1'-8 39/64"	9 1/4
" 8¾X	1'-7 37/64"	10 59/64"	10 19/32"	11 47/64"	1'-8 13/32"	9 1/4

BASEPLATE	a	b	N	type
109 & 98 6¼X	1'-0 5/16"	1'-9"	12·5	V NO SHOULDERS
" 6¾X	1'-0 1/64"	1'-8 11/16"	13·5	I
" 6¼Y	1'-5 7/64"	2'-1 51/64"	12·5	II
" 6¾Y	1'-4 29/64"	2'-1 9/64"	13·5	II

BASEPLATE	a	b	N	type
109 & 98 7¼Y	1'-3 57/64"	2'-0 32/64"	14·5	III
" 7¾Y	1'-3 13/32"	2'-0 5/64"	15·5	III
" 8¼Y	1'-2 31/32"	1'-11 41/64"	16·5	III
" 8¾Y	1'-2 19/32"	1'-11¼"	17·5	III

INNER WING BLOCKS FOR FB 109 LB CROSSINGS — SEE P.W NOTE SHEET R.4305 FOR EXPLANATORY DIAGRAM

XING 1 IN	TYPE	LENGTH	WIDE END a	b	c	d	e	f	g	h	i	NARROW END j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
6¼	III	6"	2	1 19/32	55/64	17/64	1 3/64	⅜	2 15/32	2 35/64	2	1 45/64	-	1 3/64	21/64	49/64	9/32	-	1 3/64	1 29/32	1 31/32	1 13/16	1 19/32	1 3/64	1 5/64	1 21/64	5/32	2 1/16	1
6¾	III	6"	2 1/64	1 37/64	53/64	¼	1 3/64	⅜	2 11/32	2 27/64	2 1/32	1 23/32	-	1 1/32	5/16	47/64	17/64	-	1 5/32	1 55/64	1 15/16	1 53/64	1 19/32	1 3/64	1 5/64	1 21/64	-	1 7/64	1
7¼	III	6"	2 1/64	1 17/32	51/64	¼	1 3/64	⅜	2 1/4	2 11/32	2 1/16	1 47/64	-	1	5/16	45/64	¼	-	1 1/8	1 27/32	1 59/64	1 55/64	1 37/64	1 3/64	1 5/64	1 21/64	-	9/64	1
7¾	IV	6"	1 63/64	1 31/64	49/64	15/64	1 3/64	⅜	2 3/16	2 9/32	2 3/32	1 49/64	-	31/32	19/64	43/64	¼	-	1 3/32	1 13/16	1 57/64	1 57/64	1 37/64	1 3/64	1 5/64	1 21/64	-	-	1
8¼	IV	6"	2 7/64	1 17/32	11/16	7/32	1 3/64	⅜	2 15/64	2 5/16	2 11/64	1 7/8	-	7/8	17/64	47/64	17/64	-	1 5/32	1 7/8	1 31/32	1 63/64	1 37/64	1 3/64	1 5/64	1 21/64	-	-	1
8¾	IV	6"	2 3/64	1 27/64	11/16	7/32	1	23/64	2 1/8	2 7/32	2 11/64	1 55/64	-	7/8	17/64	21/32	15/64	-	1 5/64	1 51/64	1 7/8	1 63/64	1 37/64	1 3/64	1 5/64	1 21/64	-	-	1

XING 1 IN	TYPE	WIDE END a	b	c	d	e	f	g	NARROW END h	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	LENGTH BOLT
6¼	I	1 25/32	2 55/64	1 19/32	1 63/64	1 21/64	-	-	1 29/32	2 55/64	1 19/32	1 3/64	⅜	1 64	⅜	-	-	2 55/64	1 19/32	1 3/64	1 5/64	1 21/64	-	-	1'-7½"
6¾	I	1 25/32	2 55/64	1 19/32	1 15/32	13/16	-	-	1 29/32	2 55/64	1 19/32	1 3/64	⅜	27/64	*	-	*4 3/32	2 55/64	1 19/32	1 3/64	1 5/64	1 21/64	-	-	1'-7"
7¼	I	1 25/32	2 55/64	1 37/64	1 1/32	13/32	-	-	1 29/32	2 55/64	1 37/64	1 3/64	⅜	13/64	*	-	*3 47/64	2 55/64	1 37/64	1 3/64	1 5/64	1 21/64	-	-	1'-6½"
7¾	I	1 25/32	2 55/64	1 37/64	-	-	4 5/64	4 3/16	1 29/32	2 55/64	1 37/64	1 3/64	⅜	-	-	3 5/16	3 13/32	2 55/64	1 37/64	1 3/64	1 5/64	1 21/64	-	-	1'-6½"
8¼	I	1 25/32	2 55/64	1 37/64	-	-	3 3/4	3 27/32	1 29/32	2 55/64	1 37/64	1 3/64	⅜	-	-	3 1/64	3 1/64	2 55/64	1 37/64	1 3/64	1 5/64	1 21/64	-	-	1'-6"
8¾	I	1 25/32	2 55/64	1 37/64	-	-	3 29/64	3 35/64	1 29/32	2 55/64	1 37/64	1 3/64	⅜	-	-	2 49/64	2 55/64	2 55/64	1 37/64	1 3/64	1 5/64	1 21/64	-	-	1'-6"

OUTER WI
BLOCK, SE
P.W. NOTE S
R.4306
EXPLANAT
DIAGRAM

XING 1 IN	NARROW END a	b	WIDE END c	d	e	f	LENGTH BOLT
6¼	2 11/32	2 9/16	3 19/64	3 33/64	1 1/16	1 5/64	1'-0"
6¾	2 21/64	2 9/16	3 7/32	3 7/16	1 1/16	1 5/64	1'-0"

	radius r	LENGTH BOLT
7¼	4'-3"	11"
7¾	4'-10"	11"
8¼	5'-6½"	11"
8¾	6'-2½"	11"

NECK BLOCKS SEE P.W. NOTE SHEET R.4307 FOR EXPLANATORY DIAGRAM.

NOSE BLOCKS SEE P.W. NOTE SHEET R 4307 FOR EXPLANATORY DIAGRAM.

XING 1 IN	TYPE	WIDE END g	h	j	K	SECTION n	o	NARROW END p	q	r	s	BOL A	E
6¼	I	1 1/16	1	37/64	13/64	25/32	33/64	1 19/32	1 55/64	1 1/16	1 5/64	1'-1½"	
6¾	I	1 43/64	31/32	35/64	13/64	25/32	33/64	1 5/8	1 47/64	1 1/16	1 5/64	1'-1½"	
7¼	I	1 43/64	15/16	33/64	3/16	1 25/32	33/64	1 21/32	1 49/64	1 1/16	1 5/64	1'-1½"	
7¾	I	1 21/32	29/32	½	3/16	1 25/32	33/64	1 43/64	1 25/32	1 1/16	1 5/64	1'-1½"	
8¼	II	1 43/64	¼	53/64	19/64	1 25/32	33/64	1 45/64	1 13/16	1 1/16	1 5/64	1'-1½"	
8¾	II	1 43/64	13/64	25/32	5/32	1 25/32	33/64	1 23/32	1 53/64	1 1/16	1 5/64	1'-1½"	

AMENDED NOVEMBER 1940