

PERMANENT WAY NOTES

PERMANENT WAY COMPONENTS FOR ONE MILE OF TRACK. (B.H.)

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

PLAIN LINE		RAIL SECTION	B.S.						OO					
		NUMBER OF SLEEPERS PER RAIL LENGTH	NORMAL		1 EXTRA		2 EXTRA		NORMAL		1 EXTRA		2 EXTRA	
			18	24	19	25	20	26	18	24	19	25	20	26
LENGTH OF RAILS		45'	60'	45'	60'	45'	60'	44'-6"	60'	44'-6"	60'	44'-6"	60'	
RAILS	B.S. 95, OO, TONS	148'6	148'6	148'6	148'6	148'6	148'6	153'2	153'2	153'2	153'2	153'2	153'2	
	B.S. 85 TONS	133'4	133'4	133'4	133'4	133'4	133'4	-	-	-	-	-	-	
ORDINARY SLEEPERS	NON-J ROUTE, EA	2112	2112	2229	2200	2346	2288	2136	2112	2254	2200	2373	2288	
	J ROUTE EA	1878	1936	1995	2024	2112	2112	-	-	-	-	-	-	
JOINT SLEEPERS EA		234	176	234	176	234	176	-	-	-	-	-	-	
KEYS EA		4224	4224	4458	4400	4692	4576	4272	4224	4508	4400	4746	4576	
FISHPLATES	LONG CWT	68	51	68	51	68	51	66	49	66	49	66	49	
	SHORT CWT	34	25	34	25	34	25	35	26	35	26	35	26	
FISHBOLTS	FOR LONG FISHPLATES CWT	16	12	16	12	16	12	18	13	18	13	18	13	
	FOR SHORT FISHPLATES CWT	8	6	8	6	8	6	9	7	9	7	9	7	
CHAIRBOLTS (WITH WASHERS) CWT		245	245	259	255	272	266	248	245	262	255	275	266	
ORDINARY CHAIRS	NON J ROUTE	B.S. 95 OR OO TONS	86'7	86'7	91'5	90'4	96'4	94'0	99'2	98'0	104'7	102'1	110'2	106'2
		B.S. 85 TONS	75'4	75'4	79'6	78'6	83'8	81'7	-	-	-	-	-	-
	J ROUTE TONS	77'1	79'5	81'9	83'1	86'7	86'7	-	-	-	-	-	-	
JOINT CHAIRS TONS		11'1	8'3	11'1	8'3	11'1	8'3	-	-	-	-	-	-	
S.T. CHAIRS TONS		98'1	98'1	103'5	102'1	108'9	106'2	112'0	110'7	118'2	115'4	124'5	120'	

NOTES

FOR LARGE-SCALE ESTIMATING PURPOSES PERMANENT WAY FITTINGS MAY BE EQUATED TO CHS. OF CROSSING WORK AS FOLLOWS:-

SINGLE CONNECTION	= 2 3/4 c.
DIAMOND	= 3 3/4 c.
SINGLE COMPOUND	= 4 3/4 c.
DOUBLE COMPOUND	= 5 3/4 c.
3-WAY CONNECTION	= 4 c.

BALLAST (TOP) --- 600 C.YDS. PER MILE OF PLAIN LINE OR CROSSING WORK (APPLIES TO RELAYING ONLY, NOT NEW WORKS)

CROSSING WORK

		RAIL SECTION		
		BS 95	BS 85	OO
RAILS	TONS	168	150	173
KEYS	EA	3600	3600	365
FISHPLATES	CWT	92	92	88
FISHBOLTS	CWT	22	22	24
CHAIRS (ORDINARY)	TONS	50	43	55
CHAIRS (S & C)	TONS	30	27	40
FANGBOLTS	CWT	216	216	216
CROSSING TIMBER	C.FT.	6000	6000	600