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3762	High S. New	Burke R. - Bulleen R.	Surfacing	H. 11.	
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1241	Burke Rd	Gardiner Rly Xing	Lifting & Timber renewals	B. 18
1249	S ^t Kilda Rd	N ^o 9 Curves	Re-railing	S. 59
1292	{ Johnston St Brunswick St	Cable-Elec Xing.	Removal of top & re-railing	B. 19
1296	{ Gertrude St Brunswick St	" " "	" " "	B. 20.
1297	{ William St Bourke St	" " "	" " "	W. 13

W.O.	Street.	Limit of Job.	Class of Work.	Ref.
15813	Nicholson St.	At Bus Garage (floor)	Surfacing	N. 3
15854	High St N'cote	Cable Engine House	Paving Floor.	H. 20

W.O.	Street	Limits of Job.	Class of Work	Ref.
25101	Hanna St	Yard siding for	Freight Car	H. 15.
25102	Balaclara Rd.	E. of Hawthorn Rd	Instn. Xover	B. 12.
103	Hawthorn Rd.	Eric S. - P. Neapean R.	Construction	H. 14.
104	"	" "	Surfacing	H. 13.
105	Essendon Depôt	In Yard	4 Storage Tracks	E. 9.
106	Doncaster R.	Bullen R. - Balwyn R	Construction	D. 6.
823	Nicholson St	Traffic Offices at Bus garage	Paving	N. 4.
840	"	Bus garage	Wood blocking	N. 5.
107	Maribyrnong R	Lennox St. - Hurtle St.	Duplication	M. 11.
108	"	" "	Surfacing	M. 12.
301	Queens Pde. Sub.		Alterations to Mains.	R. 3.
401	" " "		Lowering Road.	R. 1.
402	" " "		Surfacing.	R. 2.
846	Nicholson St } Bus Garage }		Paving and Grading etc }	N. 6.
867	Clifton Hill Depôt	Bus Park	Conc. Paving	C. 9X.
113	Glenhuntly Dep.		New Track	G. 32.
109	Maribyrnong Rd		Extension. Sec 1	M. 15.
110	"		" 2.	M. 16.
111	"		" 3.	M. 17.
112	"		Surfacing	M. 18.
845	Johnstone St	Bus Standby Yard	Grading, Paving	J. 1.
25304	MARIBYRNONG RD	RALEIGHS Rd	ALT TO SERVICES	M 19.
25123	"	"	DUPLICATION	M 20.
25115	Essendon Depot	"	NEW TRACK	E 12.
25116	MARIBYRNONG	EXTENSION. STH.		M 21.
25117	"	" "	INST Y JUNC	M 22.
25118	"	RALEIGHS RD	DUPLICATION	M 23.

	W.O.	STREET	LIMITS OF JOB	CLASS OF WORK	REF
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	25120	GORDON ST	INSTALLING NEW TRACK		G 33
	25121	"	JUNC BALLARAT RD	INSTALLATION	G 34
	25122	"	SURFACING W Os.	25120-21	G 35
	25123	Raleighs Rd	Duplication		M 20
	25308	" "	Alterations to Mains (service)		M 25
	45176	St Hilda Rd + City Rd	Ren of junction		C 10
	45177	" " "	Surfacing " "		C 11
	45178	Bourke + Swanston St	Xing removal		B 17
	45207	St Hilda Rd	Filling & decking pits		S 56
	25127	West Rd Y Jctn	Raleigh Rd & West Rd Turnouts	Duplication	W. 12
	25128	Keilor Rd	Birdwood St - Matthews Ave	Extension	K. 1
	25307	Maribyrnig - Ascot Vale Rds	Union Rd - Pickle St	Mains & Services	M. 27
	25125	" " " "	" " " "	Extension	M 26
	P.O. 1204	" - Union Rd	Junction	Recon. & "	M 28
Part of W.O. 25125	P.O. 1205	Maribyrnong Rd	At Rly. Bridge	Strengthening Bge & Laying Track.	M 29
	P.O. 1206	Maribyrnig & Ascot Vale Rds	Curves.	Extension	M 30
	P.O. 1207	McAlex Rd - " "	" "	Junction for "	M 31.
	25126	Cordite Ave	Y Jctn to Terminus	Duplication	C 14
	25129	Keilor Rd Adrane	Keilor Rd - Vaughan St	Extension	K 3
	25308	Keilor Rd	Birdwood St - " "	Mains & Services	K 2
	25139	Essendon Aerodrome Road	27' L + Pack 120' D.T. Road	Xing.	E. 14.
	25131.	Maribyrnong Rd	E. to W. sides Maribyrnig River	Duplication.	M. 34
	25130	Raleigh Rd	North Tracks on Y Jctn	"	R. 19
	25309	Maribyrnong Rd over River	Alteratns Mains & Services	"	M 35
	25404	Maribyrnong Rd	Strengthening Rly Bge	by Rly Dept	
			Included in details of P.O. 1205 & W.O. 25125 See M. 26 & 29		
	25892 (P.O. 1171)	Raleigh Rd	New Maribyrnig Sub-Station	Paving etc	R 20

W.O.	Street	Limits of Job.	Class of Work	Ref.
45101	Lygon St	Rly. Crossing	Renewal	L. 5
102	Nicholson St.	Edna Gr. - Terminus	Reconstruction	N. 2
103	"	See W.O. 3760		N. 1
104	Glenhilly Rd	See previous book		
105	Wallen Rd	West approach to Bridge	Re-alignment etc.	W. 8
106	Fleoty Rd.	Milton S. - Flett St	Lifting & Recon.	P. 13.
107	5th Melb. Route	at Albert R.	Experimental Crossing Movable Rail	S. 45
109	Ballarat Rd	Droop St. - Terminus	Reconstructn.	B. 13.
111	St Kilda Rd.	5th. of City Rd.	Renewal Xover	S. 42.
112	Flinders St.	W. of Swanston St.	part " "	F. 11
113	Barkly St.	Gordon S. - Summerhill R.	Reconstruct ⁿ	B. 14.
115	Dawson St.	Grantham - Melville R.	Refastening	D. 7.
117	William St.	S. of Lt. Collins St.	Rem. Xover	W. 9.
118	Gilbert Rd.	May S. - Regent St.	Reconstruct ⁿ	G. 17.
119	Melville Rd	Albion S. - Moreland R.	Lifting	M. 9.
121	Collins - Swanston	at Intersection	Renewal Sp. Wk.	S. 43.
122	Miller St.	St. Georges R. - Gilbert R.	Reconstn.	M. 10.
123	Glenhuntly R.	Hawthorn Rd. to Manchester Gr.	Surfacing	G. 18.
124	"	A.T. " "	Reconstruct ⁿ	G. 19
125	"	" " "	Surfacing	G. 20
126	Hawthorn Depot	Track removal in yard.		H. 16
127	St. Georges Rd	Hawthorn R. - Woolton Av	Reconstruct ⁿ	S. 46.
128	"	" "	Surfacing	S. 47.
129	Swan St.	Opp. Am. Sports Gnd.	Reconstruct ⁿ	S. 44
130	Swanston St	Victoria S. - Orsby St.	"	S. 48
131	"	" "	Surfacing	S. 49
135	Glenhuntly R.	Broadway Rly. Trm X 119	reconstruction	G. 16.

W.O.	Street	Limit of Job.	Class of Work	Ref.
45, 136	Dandenong R and Hawthorn R	Junction	Reconstruct ⁿ	D. 8.
137	"	"	Surfacing	D. 9.
138	Gilbert R.	Bell St - Murray R.	Reconstruct ⁿ	G. 21
139	"	" "	Surfacing	G. 22
140	Malvern Rd	Mandeville Crescent & Denham Rd	Reconstruct ⁿ	M. 7
141	" "	" "	Surfacing	M. 8
201	Lonsdale St.	Elizabeth - Spencer	Abandonment of Cable Track	L. 6
132	Miller St	Opp. Workshops (St.)	Reconstruct ⁿ	M. 4.
133	"	" "	Surfacing	M. 5.
134	Batman Av.	^{Scissors Tower} Terminus, east of Swanston St.	Recon. of xover approach	B. 15.
142	Dandenong Rd.	Hornby St Curves	Recon ^t .	D. 10.
143	"	"	Surfacty	D. 11.
144	Glenferrie Rd.	Fitzwilliam St - Coltham R.	Reconstruct ⁿ	G. 23
145	"	" "	Surfacing	G. 24
146	Gilbert Rd	Murray R. - May St.	Reconst ⁿ	G. 25
147	" "	" "	Surfacing	G. 26
209	Lonsdale St	Curve at Russell St	Removal and Paving	L. 7.
148	Coltham Rd	Glenferrie R. Jnctn	Repairs	G. 5.
149	"	" "	Surfacing	C. 6
150	Victoria St.	Hiddle St. Curves	Renewal of Rails - E. Curves	V. 4.
151	Swanston St	Lonsdale St. Xing	Removal	S. 50
205	Bridge Rd.	Run In to old Car Shed	Removal	B. 16
152	Holden St	S. Track, Removal	of Rails	H. 18.
153	" "	N. Track	Repairs	H. 19.
154	Preston Depot	Sp. Wks to Roads 1-4	Reconstruct ⁿ	P. 15

W.O.	Street	Limit of Job.	Class of Work	Ref.
45155	Preston Depôt	Sp. Wk. to Roads 1-4	Surfacing (45154)	P. 16
45156	Glenferrie Rd	Gardiner Rd. to Rly.	Reconstruct	G. 27
45157	" "	" " "	Surfacing	G. 28
45158	St. Kilda Rd.	Nº 5 Curve - M.T.	Re-railing	S. 51
45159	Coburg Depot		Reconstruction	C 7
45160	" "		Surfacing	C 8
45161	Esplanade Loop		Renewal of turnout	E 10
45162	" "		Surfacing	E 11
45163	Glenferrie Rd.	Kanyong Rly. Xing	Reconstruction	G. 29.
45164	" "	" " "	Surfacing	G. 30.
45165	Gisborne St	Curves to Victoria Pde.	Renewal	G. 31
45167	Fawkner	Car Depot	Resurf. etc.	F. 13
45169	M ^r Alexander Rd	Moonee Ponds Crk. Edge	Reconstruction	M. 13.
45170	"	" "	Surfacing	M. 14.
45166	Riversdale Rd.	Rly. Crossing	Reconstruction	R. 9.
45167	"	" Approaches	"	R. 10.
45168	"	"	Surfacing	R. 11.
45171	ST KILDA RD	PARK ST JUNCTION	RECONSTRUCTION	S 52
45172	"	STRAIGHT BET JUNCTIONS	"	S 53
45173	"	DOMAIN RD JUNCTION	"	S 54
45174	"	ABOVE 3 W. Os.	SURFACING	S 55
45181	Thindes St - Swanston St Xing		Main Work	F 14
45182	" " "	" " "	Surfacing	F 15
45183	Acland St - Esplanade Curve		Reconstruction	A 1
45175	Essendon Depot	Alterations to Levels on Sp. Wk.		E. 13
45176	City Rd - St Kilda Rd	Junction	"	C 10
45177	" " " "	"	Surfacing.	C 11
45178	Bourke St - Swanston St	C/E Crossing	Removal.	B 17
45207	St Kilda Rd	At Bromby St. Pit.	Filling & Decking	S 56

W.O.	Street.	Limits of Job.	Class of Work	Ref.
45179	Commercial Rd	St Kilda Rd Junction	Reconstruction	C. 12.
45180	" "	" " "	Surfacing	C. 13.
45185	Gamon St	Charles St - Browning St	Reconstr E.T.	G. 37
45856 (P.O. 1291)	Nicholson St	Central Bus Garage No 7 Schöchermer St	Paving Floor.	N. 7
45857 (P.O. 1297)	" "	Gen. Bus Garage, Elec Fitting Shop	" "	N. 8
45190	Bridge Rd	at Punt Rd	Rerailing Curves	B. 21
45191	Cortisle St	at Albert St	Rerailing Curves	C. 18
45192	High St. Kew.	at Princess St	" "	H. 21
45194	Flinders St	at Wellington Pk	" "	F. 16
45195	High St. Kew.	at Belford Rd	" "	H. 22
45196	Church St Rich.	at Prince Patrick St	" "	C. 19.
45197	Gisborne St	at Cathedral Pl.	" "	G. 38
45184	Swanston St.	at Victoria St	" "	S. 66
45186	St Kilda Rd	No 1 Curve.	" "	S. 65
45187	Victoria Par.	at Hoddle St	" "	V. 6
45188	St Kilda Rd	No 4 Curve.	" "	S. 64
45189	St Kilda Rd	No 10 curve.	" "	S. 62
45193	Riversdale Rd	at Power St	" "	R. 21
No. 1247.	St Kilda Rd	No 8. Curve.	Rerailing High legs	S. 63

W.O.	Street	Limit of Job.	Class of Work	Ref.
55101	Wallen R. Bdge.	On Bridge	Alterations	W. 6
102	" "	" "	Bridge deck	W. 7
103	Preston Car Shed	Alterations	Reconstruction	P. 14
55108	Raleigh Rd	40' Road + 100' BT Lift	Road Xing. To Humidity Chamber	R. 18.
55815	Essendon Depot	Rails in N ^o 1 Shed Extn & roadway N ^o of N ^o 1 Shed		E 15
		" "	See also P.O. 1119	in E 16

45183

Acland St - Esplanade Curves. Reconstruct.

1

Acland ST. - Esplanade.

JOB. Curves - Rerailing & Resleeping W.O. No. 45183

From 17' W. of W.T.P. 19' E. of E.T.P. Outer Curve.
16' W. of W.T.P. 10' 16' E. of E.T.P. Inner Curve.

Estimate £ 1316-14-0 Cost £ 1727-0-7

Cost per 100' of S.T. £ 550-0-0 Cost per mile of —

Length 314' of S.T.

Work commenced 14-9-42 Work completed 19-10-42

Date of trial trip — Date of Is. service —

Traffic conditions Under Traffic.

Cost (Lab. & Cart. £ 1151-13-2 Material £ 575-7-5
on Salaries

Cost Lab. & Cart. 66.7 % Material 33.3 %

Percentage Overhead 62% on Lab. Engineer H.F. + H.O.C.
15% on H.Ctg.Particulars

	Existing	New
Drain	Conversion Type.	Existing.
Ashes	3" Av. thickness	"
Foundation	7" R. Concrete	Existing Concrete
Sleepers	1 1/2" Bit. Pack. under sleepers	2 1/2" Bit. Pack. under Sleepers.
Stringers	7 1/2" x 9 1/2" x 1/2" sawn	8 1/2" x 9 1/2" x 1/2" sawn Red Gum.
Posts	96 lb.	New 80 lb (80) with Guard Rail and G.P. on 1/2" plates.
Joints	Fishplated	Thermit Welded.
Fastenings	Dogspikes	Bolts, Clips, knees etc see P9145
Paaving	Bit. Pen. Mac.	Bit. Pen. Mac. alongside rails. Tar " " elsewhere.
Surfacing	Bitumen Seal Coat	Bitumen Seal Coat.

Notes: - Charged to Reconstruction

Chamages: Outer Curve. 9153-9309 = 151' of S.T.

Inner Curve. 9146-9309 = 163' of S.T.

Total Length = 314' of S.T.

Work done by other departments over page.

Work done by other departments.

STORES. Supply of Curves. P2785

Labour £ 24-8-7

Overhead £ 4-17-8

Material —

Total £ 29-6-3.

STORES. Assembly of Curves. P2796

Labour £ 77-3-1

Overhead £ 19-5-9

Material £ 429-4-2

Total £ 525-13-0.

3495	Barkly St. Footscray	Re-blocking	11.
25102	Balaclava Rd.	Installation of Xover	12
45109	Ballarat Rd.	Reconstruction.	13.
45113	Barkly St.	5th Track "	14.
45134	Batman Av.	Reconstruction, xover etc.	15.
45205	Bridge Rd.	Rem. of Rails to old Car Shed	16
45178	Bourke and Swanston St	REMOVAL OF CROSSING	17
P.O. 1241	Burke Rd, Gardiner Rly Xing,	Lifting & Timber renewals	18
P.O. 1292	Brunswick St - Johnston St.	Removal of Top c/c. Xing.	19
P.O. 1296	" " - Gertrude St	" " " " "	20
P.O. 1297	Bourke St - William St	" " " " "	See W. 13.
45190.	BRIDGE & PUNT RDS.	Resiting Curves. ST.	21
20512	Balaclava Rd Recon.	Keeyong Rd to Orrong Rd	22
20526	Balaclava Rd Recon.	Hamthorn Rd to Harmanby Rd	23

JOB. BARKLY St. Footscray. W.O. No. 3495.

Re-blocking both Tracks

7/100

From Victoria St. to Deep St.

Estimate £4680.16.11 Cost £5163.7.4

Cost per 100' of S.T. £147.2 Cost per mile of £

Length 3510' of S.T.

Work commenced 27.8.35 Work completed 14.3.36.

Date of trial trip Date of 1st service

Traffic conditions Usual

Cost. Lab. & Cart. ^{+OH} £3103.11.10 Material £2059.15.6

Cost. Lab. & Cart. ^{+OH} 60.1% Material 39.9%

Percentage Overhead 50 Lab. Engineer H.H. Bell

Particulars

	Existing	New	
Drain	~~~~~~		
Ashes			
Foundation			
Sleepers			
Stringers			
Rails			
Joints			
Fastenings			
Padding			4 1/2" W.B. - Jarrals - New 9 1/2" Class.
Surrounding			

Charge: 50% Renewals; 50% Maintenance

Notes: - W.B. New: 27,000.; "A" Class 115,260.

At commencement, W.B. reconditioned on job, but were later sent to Dorcas St, credited to W.O., Reconditioned, and charged back.

BALACLAVA Rd.
JOB Installation of Crossover

W.D. No. 25102

From East of Hawthorn Road.

Estimate £ 308.3.9. Cost £ 345.0.0.

Cost per 100' of £ Cost per mile of £

Length of

Work commenced Work completed Sept. 1937.

Date of trial trip Date of 1st. service

Traffic conditions

Cost: Lab. & Cart ^{+O.H.} £ 168.2.5 Material £ 176.17.7Cost: Lab. & Cart ^{+O.H.} 48.8% Material 51.2%

Percentage Overhead 50.9% Lab. Engineer D. H. Eakins

Particulars

	Existing	New
Drain	?	
Asnes		
Foundation		
Sleepers		
Stringers		
Rails	90 lb.	
Joints		
Fastenings		
Paving		
Surfacing		

Notes:—

Charge: Capital.

Crossover installed was S.H. (Green)
 charged out at £100.

JOB BALLARAT RD. W.O. No. 7/160
Reconstruction: South Track. 45,109.
From Droop St. to Terminus

Estimate £6,708.7.0 Cost £7,784.0.11
Cost per 100' of S.T. £240. Cost per mile of S.T. 12,672.
Length 3240' of S.T.

Work commenced 22.11.37. Work completed 23.2.38
Date of trial trip Date of 1st service

Traffic conditions Usual

Cost. Lab. & Cart. £5,919.8.4 Material £ 2,364.12.7.

Cost. Lab. & Cart. 69.6 % Material 30.4 %

Percentage Overhead 54 on Lab. Engineer H.H. Bell.

Particulars

	Existing	New
Drain		4" A.G. pipes on concrete
Ashes	?	Average 3" in thickness
Foundation		7" metal under sleepers
Sleepers		New 8' hewn.
Stringers		
Rails		11A S.T. renewed with new 80 lb (80%) balance reconditioned
Joints		Thermit welded (173 at 27/10)
Fastenings		Doqspikes; a few M.S. Plates etc.
Paving		Bit. Pen Mac.
Surfacing		1/8" Filled "Merrimix" Seal coat applied April 1938.

Notes:—
CHARGE: Reconstruction.

JOB BARKLY ST. Reconstruction W.O. No. 45113
SOUTH TRACK and CENTRA BENCH

From Gordon St. to Summerhill Rd.

Estimate £4797.1.6 Cost £4833.16.9

Cost per 100' of S.T. £231.6.0 Cost per mile of S.T. £12202.

Length 2090' of S.T.

Work commenced 15.2.38 Work completed 16.4.38

Date of trial trip Date of 1st service

Traffic conditions Usual

C. & L. ^{+ O.H.} & Cart. £3403.12.9 Material £1430.4.0.

C. & L. ^{+ O.H.} & Cart. 79.5% Material 29.5%

Percentage Overhead 52 to 30.6.38 Engineer H.H. Bell.
 60 after

Particulars

	Existing	New
Drain	A.G. Pipes	4" A.G. "C" Type.
Ashes	Yes	AV. 3" in thickness
Foundation	Ballast.	7" METAL.
Stoppers	Hewn	New hewn: 827 (6/4)
Stringers		
Walls	80 lb. (801)	Existing 80 lb (801); 600 "white" 80 lb
Joints		Thermit-107 Joints 27/9.
Fastenings	Dogspikes	Dogspikes
Paving	Tar-Bit. Pen. Mac	Bit. Pen. Mac.
Surfacing		Merrimix 1/8" Surfaced Feby. 1939.

Notes:—

CHARGE: Reconstruction.

BATMAN AVENUE.

1/210.

JOB Reconstruction; Scissors Xover W.O. 4513 H.
and Approaches

From North track Ch 58' to 525'

South " " 53' 595'

Estimate £6693.12.0 Cost £7590.16.0.

(W.O. £6700)

Cost per 100' of — £ — Cost per mile of —

Length 799' of S.T. and Scissors Xover.

Work commenced 15.1.39 Work completed 1.4.39.

Date of trial trip — Date of 1st. service —

Traffic conditions All work done night shift.

Cost: Lab. & Cart. £4084.7.3 Material £3506.8.9

Cost: Lab. & Cart. 53.8% Material 46.2

Percentage Overhead 6.0% L. & M. Bell
15% Mired Cartg. *W.O. 4513 H.*Particulars

	Existing	New
Drain	4" A.B.	Type "C" (4")
Ashes	Av. 3"	Av. 3" in thickness.
Foundation	7" Con. No Reinfrc. in places 14"-16"	7" metal under sleepers; cement penetration.
Sleepers	7' 6" x 9" x 4 1/2" Timbers under Xover here 6" thick	New 7' 6" x 9" x 4 1/2" sawn M.T. Ch. 420-525 Timber Ties 8' x 9" x 3".
W.M.s		New Timbers under special work.
Rails	90796 lb.	New 90796 lb.; New Sp. Wrk.
Joints	Fish Plates and Thermit welds.	Thermit welded (46 at 29/7.) (Fish plates at Costings)
Fastenings	Bolts & clips, Dogspikes	Tie bolts, plates, straps, clips. also Tie bars.
Padding	W.B.	5" W.B. reconditioned; on 2" fine concrete
Surfacing	Bit. and sand.	Bit. and Toppings

CHARGE: Reconstruction.

Notes: — PLAN, LONG. SEC.	P. 8809.	<u>Scissors Crossover</u>
CROSS SECTIONS	P. 8810.	complete with Timbers
CURVE DETAILS	P. 7673.	and fastenings: £1561.1.2
LAYOUT PLAN	P. 7674.	
SP. WRK. DETAILS	P. 7675.	Cost of assembly: — P.O. 2622
TIMBER SPACING	P. 7676.	£67.0.3.
TRACK DESIGN	P. 8404.	

O.P. 1 - Both Tracks - rails removed - 10.7.02 to Gilbert Rd.

Special Work was installed on Sunday March 5th,
was delayed for a week owing to bad weather.

BRIDGE RD.

1/320

JOB. Removal of Rails from Old Car Shed W.O. No. 45205.

From _____ to _____

Estimate £ { 82.0.0 W.O. Cost £ 109.13.2
66.18.8 Est.

Cost per 100' of _____ £ _____ Cost per mile of _____

Length _____ of _____

Work commenced 23.10.39. Work completed 1.11.39

Date of trial trip _____ Date of 1st service _____

Traffic conditions Night Work

Cost. Lab. & Cart. ^{+O.H.} £ 77-17-11 Material £ 31-15-3

Cost. Lab. & Cart. ^{+O.H.} 71-1-14 Material 28-9

Percentage Overhead 10% Engineer H.H. Bell / J.J.F. / ARS

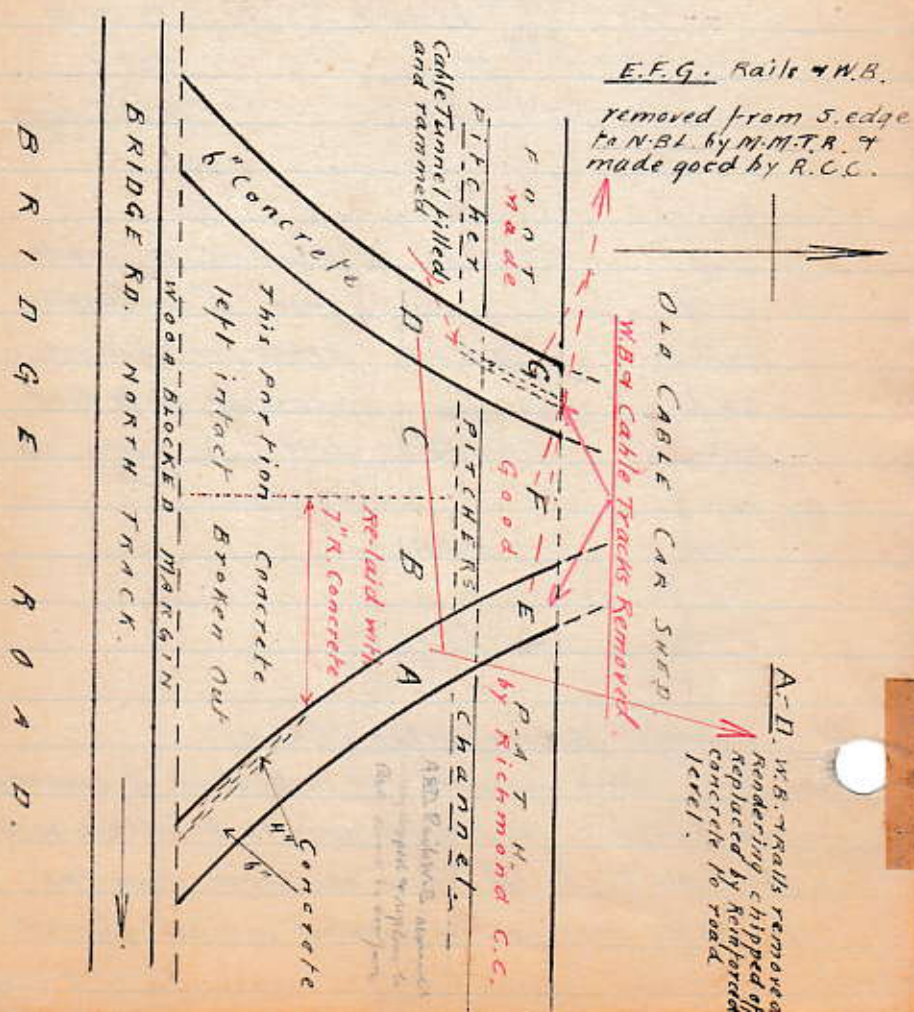
Particulars

	Existing	New
Drain	OLD	Foundation made
Ashes		good, 4" consolidated
Foundation	CABLE	ashes, re-inforced
Sleepers		concrete up to road
Stringers	TRACKS	level; no surfacing on
Rails		roadway.
Joints	INTO	
Fastenings		
Paving		
Surfacing	CAR SHED.	

CHARGE: Reconstruction (Cable) :

Notes:—Work included the restoration of roadway and footpath at the entrance to the old Car Shed. The Cable Run in off tracks was left in when the Bridge Rd. track was converted 29.10.27 (W.O. 1535)

	Cost		ESTIMATE
Labour	50-19-7		
D.H.	30-0-0	Eqo.	42-12-9
Cartage	9-7-6		
Materials	31-15-3		27-5-9
	122-2-4		19-12-6
Credit (scrap)	12-9-2		5-0-0
	109-13-2		66-18-6



Sub A/c 1/4/10

B-17

BOURKE AND SWANSTON ST

JOB. REMOVAL OF CROSSING

W.O. No. 45178

From

to

Estimate £ 702-0-0

Cost £ 715-3-11

Cost per 100' of £

Cost per mile of £

Length of

Work commenced 26-10-41 Work completed 12-11-41

Date of trial trip

Date of 1st. service

Traffic conditions Work done at night

Cost. Lab. & Cart. ^{+0.4} £ 579-4-4 Material £ 135-19-7

Cost. Lab. & Cart. ^{+0.4} 81 % Material 19 %

Percentage Overhead 67 Engineer H.H. BELL

Particulars

	Existing	New
Sub Drains	to active drains or tunnels discharged	
Asph	into Ret. Ret outlet sealed	
Foundation	Spall concrete to 21" below rail level.	
Slabs	then 6 1/2" sup. concrete slab.	
TIMBERS	8'x9"x4 1/2" sawn R.G. with plates & sleeper	
Nails	bolts on 4 1/2" bit. metal packing.	
Joints	80 lb (801) 24'2" long replacing crossing	
Fastenings	80 / 102 lb Hermit	
Paving	Ret. pen. mac	
Surfacing		

Notes:—

Charge - Reconstruction

Burke Road.

JOB. Gardiner Rly Crossing.

P.O. No. 1241

From Lifting & renewal of Timbers & Fastenings to

Estimate £ Nil.

Cost £ Railways £ 807-16-7
Tramways 54-4-2 Mainly Material

Cost per 100' of £

Cost per mile of £ 862-0-11

Length of

Work commenced

Work completed 14-12-43.

Date of trial trip

Date of 1st. service

Traffic conditions Not stated

Cost. Lab. & Cart. £

Material £

Cost. Lab. & Cart. %

Material

Percentage Overhead

Engineer H.H.B. J.F./HOC

Particulars

	Existing	New
Drain		
Ashes		Board's Material.
Foundation		11½" x 1" Hex. Bolts 34 N°.
Sleepers		Flat Washers 32 -
Stringers		Lock Washers 32 -
Nails		R.G. Timbers 1175 super ft.
Joints		
Fastenings		
Paving		
Surfacing		

Notes:—

Charged to Maintenance 12/8.
Work carried out by Rlys. Dept.

1/740.

19.

Brunswick St. - Johnston St.

JOB. Removal of Cable-Elec Crossing P.O.
No. 1292
& replacing with rails.

From to

Estimate £ Nil. Cost £ 472-11-5

Cost per 100' of £ Cost per mile of

Length 36' of S.T. equiv.

Work commenced 26-7-43 Work completed 9-8-43

Date of trial trip Da ev, Is. service

Traffic conditions Under traffic except for removal of top & re-railing

Cost. Lab. & Cart^{+OH} £ 414-18-9 Material £ 57-12-8Cost. Lab. & Cart^{+OH} 87.8% Material 12.2%Percentage Overhead 62% on Lab. Engineer H.H.B. J.F./H.O.C.
15% on fixed C/tycParticulars

	Existing	New
Drain		Work done:—
Ashes		Castings removed,
Foundation		deck plates retained,
Steeprs		Cable tunnels covered,
Stringers		S.H. 102/16 rails fastened to
Rails		girders along Brunswick St.
Joints		with bolts & clips,
Fastenings		bit. pen. macadam over
Paving		deck plates.
Surfacing		

Notes :— Charged to P.1287. Cable Maintenance

1/730

20.

Brunswick St. - Gertrude St.

JOB. Removal of Cable-Elec Crossing ^{P.O.} W.D. No. 1296
 From and re-placing with rails

Estimate £300 approx. Cost £428-14-3.

Cost per 100' of £ Cost per mile of

Length 36' of S.T. equiv.

Work commenced 9-8-43 Work completed 21-8-43

Date of trial trip Da. & o. is. service

Traffic conditions Under traffic except for removal of top & re-railing.

Cost. Lab. & Cart +OH £367-19-9 Material £60-14-6

Cost. Lab. & Cart +OH 85.8% Material 14.2%

Percentage Overhead 62% on Lab Engineer H.M.B. J.W.F./H.O.C.
 15% on Hired Clc.

Particulars

	Existing	New
Drain		Work done :-
Ashes		Castings removed, deck plates
Foundation		retained, cable tunnels covered,
Sleepers		S.H. 102 lb. rails fastened to
Stringers		girders along Brunswick St.
rails		with bolts & clips,
Joints		bit. pen. macadam over
Fastenings		deck plates.
Paving		
Surfacing		

Notes :- Charged to P.1285. Cable Maintenance.

BRIDGE RD. of MINT RD.

1/320

JOB. Re-railing Curves W.O. No. 45190

From Outer Curve 10' W of P 4' 0" E. of E.T.P.

to Inner Curve 1' E of P to 6' 6" E of E.T.P.

Estimate £ 1540 Cost £ 1661.12.6

Cost per 100' of S. Track £ 741.8.0 Cost per mile of £

Length 224' of Single Track

Work commenced 5.3.45 Work completed 27.4.45

Date of trial trip Date of 1st service

Traffic conditions Usual Night Work

Cost Lab. & Cart. £ 1218.15.10^{+OH} Material £ 442.16.8Cost Lab. & Cart. 74.5%^{+OH} Material 25.5%Percentage Overhead 58% Lab. Engineer U. A. BELL
15% Fixed C.Particulars

	Existing	New
Drain	6" Conversion type 9" G.I. on Conc. Invert	Existing Retained
Ashes	Av. 3" Thickness	" "
Foundation	8" Reinf. concrete under sleepers	" "
Sleepers	7'6" x 9" x 4 1/2" pine	" "
Stringers		
Rails	6/plate 80lb (801) of Rail.	New 80lb (801) & Guard Rail.
Joints	Fish plates & Elect. Welded, 10" Sole plates	Fish plates, Welding Hermit. Knees fastened with
Fastenings	Coach Screws & Clips	Coach Screws, clips & Dog Spikes
Padding	5" wood blocks	up Track New 1 1/2" x 1/2" blocks Down Track S.H. 5" x 1/2" blocks
Surfacing	Bitumen & Topping	Cut back Bitumen & Topping

Notes:— Charged to Reconstruction

Actual Cost includes

Distribution Department

Temporary Lighting £31.7.11

Stores Department.

Bending of rails. £272.1.9.

Drawings:— Details of Curves P 373E

STORES DEPARTMENT.

Bend Rails.

Labour	52. 7. 3
O'head.	13. 1. 10
Material	<u>206. 12. 8</u>
	<u>272. 1. 9.</u>

DISTRIBUTION DEPARTMENT

Bend Rails.

Labour	10. 9. 8
O'head.	5. 16. 9
Material.	<u>15. 1. 6</u>
	<u>31. 7. 11</u>

JOB. Kooyong Rd to Orrong Rd W.O. No. 20512.

From 8828' to 11505'

Estimate £17,463-10-0 Cost £20,872-8-3

Cost per 100' of S.T. £389.8 Cost per mile of £

Length 5354 of S.T.

Work commenced 12-7-46 Work completed 14-2-47

Date of trial trip — Date of 1st. service —

Traffic conditions Dayshift under traffic.

Cost. Lab. & Cart. ^{+OH.} £14394-5-3 Material £6472-7-1Cost. Lab. & Cart. ^{+OH.} % Material %Percentage Overhead 58% Lab. Engineer HNB. J.F. H. & C.
15% H.C.Particulars

	Existing	New
Drain		B type with selected ashes.
Ashes		3" to 4" ashes
Foundation		7" new metal, Clearway 3" ashes with 8" new & S.H. metal.
Sleepers		New 8'9" x 4 1/2" hewn I.F.
Stringers		South Track 11470'-10776'-new 102lb _n (Aust)
Rails		Balance exist. 90lb retained.
Joints		102lb. thermit fusion on new rails
Fustenings		Dogspikes.
Paving		Bit. pen. mac.
Surfacing		

Notes: — Changed to Reconstruction.

Work done by other Departments

Distribution Dept. Lights etc.

Lab. £45-4-4 Cart. £24-17-4 Mat. £55-11-9 Total, £125-13-5

MMBW. 4" water main (Direct charge) £6-5-11.

JOB. Balaclova Rd Recon'n. W.O. No. 20526

From Hawthorn Rd. to Normanby Rd.

Estimate £30,635.6.0 Cost £25,481.11.2

Cost per 100' of S.T. £448.3 Cost per mile of £ -

Length 5684 of S.T.

Work commenced 10.9.47 Work completed 24.1.49

Date of trial trip - Date of 1st. service -

Traffic conditions Under Traffic.

Cost. Lab. & Cart. £17,984.7.5 Material £6,649.6.10

Cost. Lab. & Cart. 70.5% Material 26.3%

Percentage Overhead 75% Engineer H. H. Bell Jnr.

Particulars

	Existing	New
Drain		Type "C" Subsoil
Ashes		3" to 4" Thickness
Foundation		7" Metal under sleepers. ^{5" in} Clearway.
Sleepers		New heavy IB ^{Crossover - New} heavy jarrats.
Stringers		New 102 lb. in crossover.
Rails		Existing 90 lb Retained.
Joints		New thermit joints used on X'over Thermit joints retained.
Fastenings		New dogspikes generally, bolts, clips.
Paving		Bit. perc. macadam.
Surfacing		-

45148	COTNAM R. - GLENFERRIER. Inc.	Repairs	5.
149	"	" " Surfacing	6
45159	Coburg Depot	Reconstruction	7
45160	"	Surfacing	8
45121	Collins St - Swanston St. Xing - see Swanston St.		5, 43.
25867	CLIFTON HILL BUS DEPOT :	Conc. Paving	9.
45176	CITY RD - ST KILDA RD	RENEWAL OF JUNCTION	10
45177	"	" SURFACING	11
45179	Commercial Rd - St Kilda Rd	Ren of junction	12
45180	"	" - " " Surfacing N.O. 45179	13
25126	Cordite Avenue	Duplication	14.
45856	Central Bus Garage	Paving	See N.7 15
P.O. 1017	Charles St. F'crag,	Reconstr & Lifting S th Trk & C	15
25867	CLIFTON HILL BUS DEPOT.	Conc. path.	16.
15897	COBURG CAR DEPOT -	Level and surfacing	17
45191	Corlisle St at Albert St.	Rerailing Curves	18.
45196	CHURCH ST & PRINCE PATRICK ST.	Rerailing Curves	19.
20523	CLARNDON ST. - ALBERT RD -	Reconstruction of curves	20
P.O. 11198	Comberwell Rd. & Toorak Rd -	Rerailing curve	21
20528	Canterbury Rd - Mills St	Reconstruction	22

COYHAM R. - GLENFERRIE RA INC.

4/210.

JQB. Repairs Partial Renewal of Inctn. W.O.N. 46148.
 Removal of Eastern Curves.

From _____ to _____

Estimate £2387-14-0. Cost £3207-1-8.

Cost per 100' of S.T. £463 Cost per mile of _____

Length 693' of S.T.

Work commenced ~~21-1-59~~¹¹⁻⁹⁻⁵⁹ Work completed 4-11-59

Date of trial trip _____ Date of 1st. service _____

Traffic conditions: Usual.

Cost. Lab. & Cart. £2665-0-8 Material £542-1-0

Cost. Lab. & Cart. 83.1% Material 16.9%

Percentage Overhead 60 Lab. Engineer H.H. Bell *H.H. Bell*
A.R.S.

Particulars

	Existing	New <u>F.8433A.</u>
Drain	150'-95'-4" A.G. 95'-00'-Nil	4" A.G. Type B.
Ashes	150'-95'-3" deep 95'-00'-Nil	At 3 1/2" in thickness.
Foundation	Metal 6" conc. under xings	7" metal under sleepers.
Sleepers	N.T. 8" x 8" good 40% Reused	New Timbers & 8" sawn sleepers
Stringers	Bal. of tracks Tas. Blue Gum in bad state	also some S.H. used - see over.
Nails	90% 96 lb. worn a little on bull x	Existing 90% 96 Lb.; Sp. Wh. see over.
Joints	slightly rusted on feet.	Reconditioned
Fastenings	Dogspikes	Thermit fusion where renewed.
Paving	Tar pen. mac.	Dogspikes; curves and S.W. double dogged.
Surfacing		Bit. Pen. Mac. To be done under W.O. 46149

CHARGE: Reconstruction.

Notes: - Estimate includes P.O. 9AA Dist. Dept. £75

2757 Stores " £385

More work done than provided for in estimate,
 150' S.T. lifting provided for, was fully reconstructed.

For Details of Sp. Wh. see SPECIAL WORK BOOK.

W.O. 45148 (CONT'D.)

(Current to west.)

SPECIAL WORK: n 5 Crossings (Edgar Allen) existing
were retained with exception of one which was
replaced by a B.V. Crossing (See special work book)

Switch & Make in S.T. - New - Hadfields

Switches in N.T. - New - Davies and Baird

NOTES FROM Ganger's Field Book.

SLEEPERS:

<u>S.H.</u>	In Sth. Track:	From -135 to -150 = 7.	Heads
		" + 70 "	+150 = 33. "
- Nth.	"	" -130 "	-150 = 11. "
		" + 70 "	+150 = 32. "
			<u>TOTAL. 83 "</u>

New 8' x 9" x 9 1/2" = 234. Class "A"

Timbers = 60. "

FORMATION: Clay. - yellow.

No welding mart was obtainable.

COTHAM R. - GLENFERRIE. JNC.

4/210.

JOB. Surfacing W.O. 45140.

W.O. No. 45149.

From _____ to _____

Estimate £ 70 Cost £ 55-10-7.

Cost per 100 Sq. Yds £ 1-2-11 C-st. per mile of _____

Length of _____ ; 868 SQ. YDS.

Work commenced 19-12-39 Work completed 20-12-39.

Date of trial trip _____ Date of 1st. service _____

Traffic conditions USUAL

Cost. Lab. & Cart. ^{+ O.H.} £ 27-9-6 Material £ 28-1-1

Cost. Lab. & Cart. ^{+ O.H.} 49.5% Material 50.5%

Percentage Overhead

Engineer H.H. Bell
J.H.B.
12/23

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Rails		
Joints		
Fastenings		
Paving		
Surfacing		

CHANGE: Reconstruction

Notes: — ESTIMATE: 900 Sq Yds at £7-2-10 p. 100 S. Yds.

5/220.

JOB. COBURG DEPOT YARD
RECONSTRUCTION

W.O. No. 45159.

From Switches, Main Entrance to Entrance to Shed, all tracks.

Estimate £ 2908.0.0 Cost £ 2632.17.11.

Cost per 100' of — £ — Cost per mile of £ —

Length 1140' of S.T. including Sp. Wk.

Work commenced 15.7.40 Work completed 10.10.40.

Date of trial trip — Date of 1st service —

Traffic conditions Usual.

Cost. Lab. & Cart. ^{+ O.H.} £1852.0.7 Material £ 774.17.4

Cost. Lab. & Cart. ^{+ O.H.} 70.6% Material 29.4%

Percentage Overhead 67 Lab. Sal Engineer H.H. Bell,
15 H. Cart.

Particulars See P. 8726.

	Existing	New
Drain	Tracks 4, 5, 6 "C" Bul. "B"	Type "C" where renewed at yard entrance and where needed at special Wk. Same Type "B".
Ashes	6" to 12"	3 1/2" in thickness.
Foundation	App. 6" Metal.	7" metal.
Sleepers ^{+ Timbers}	Sawn R.G., Jarrah	Renewed in places
Stringers	9" x 1 1/2" under 80 lb. Sp. Wk.	Some renewed.
Rails	95-90-80 lb.	See below.
Joints	Fish Plates	F.P. Joints; some renewed.
Fastenings	Dogs spikes	Plates, bolts, straps, clips on New Sp. Wk. Elsewhere Dogs.
Paving	Tar mac.	Dist. Tar pen. Mac.
Surfacing	Tar.	Bit. & Toppings To be done under W.O. 45160.

CHARGE Reconstruction.

N-45-

Sp. Wk. and Curve to Old Quarry was removed and replaced by 96 lb. Rail.

Sp. Wk. at Depot entrance renewed. (new 90 lb. rail.)

9" x 1 1/2" Jarrah Timbers under 80 lb. Sp. Wk. to make it same level as 90 lb. Sp. Wk.

W.O. 45159 (CONT'D)

NOTES RE RAILS AND SP.WRK FROM GANGERS

FIELD BOOK "A"

Nº 10 Track. 90 lb. Switch, Mate, & Crossing leading to old quarry, removed and replaced with second hand 90 lb. rail

Junction Tracks 9 & 10: 90 lb. Hadfield Switch & Mate

Brand on Switch

071355 M.M. 1944. 100-0.
HADFIELD'S PATENT ERA
MANGANESE STEEL 4240.

" " Mate

same.

Rails 90 lb. Curved



B.S. Nº 1 C. 96. 0 B. B.V. & Co L.D.
1925. M.M. 555.

Track 7-8. 90 lb. curved Rails - 90 lb. Switch, Mate, & Crossing

Switch & Mate Brand:- same as above.

Crossing 221358 M.M. 75.
H.P. ERA.
M.N.S.

Track 6: Found in excellent condition.

Track 5: sleepers had to be put in.

Track 4, rails had to be crowed.

Tracks 1-2-3 New sleepers from Sp.Wrk. to face of shed and from gate to switch.

No mention of Sub-soil.

5/220

JOB. Caburg Depot Surfacing

W.O. No. 45160

From _____ to _____
 Estimate £ 77 Cost £ _____
 Cost per 100' of _____ £ Cost per mile of _____ £
 Length _____ of _____
 Work commenced _____ Work completed _____
 Date of trial trip _____ Date of 1st. service _____
 Traffic conditions _____
 Cost. Lab. & Cart. £ _____ Material £ _____
 Cost. Lab. & Cart. % _____ Material % _____
 Percentage Overhead _____ Engineer _____

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Nails		
Joints		
Fastenings		
Paving		
Surfacing		

WORK NOT CARRIED OUT

Notes :-

WO closed 15/4/42.

CLIFTON HILL DEPOT

JOB. Conc. Paving - Bus Park

W.O. No. 25267.

From _____ to _____

Estimate £ _____ Cost £ _____

Cost per 100' of _____ £ _____ Cost per mile of _____ £ _____

Length _____ of _____

Work commenced _____ Work completed _____

Date of trial trip _____ Date of 1st. service _____

Traffic conditions _____

Cost. Lab. & Cart. £ _____ Material £ _____

Cost. Lab. & Cart. % _____ Material % _____

Percentage Overhead _____ Engineer _____

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Nails		
Joints		
Fastenings		
Paving		
Surfacing		

NOTES:—

Sub A/c 2/110

CITY RD - ST KILDA RD

JOB. RENEWAL OF JUNCTION
and re-railing curvas to City Rd

W.O. No. 45176

From to

Estimate £ 4480-8-0 Cost £ 4688-8-1

Cost per 100' of £ Cost per mile of £

Approx. Lengths. 257' of S.T. on Sp. Wk
245' of " " Curves off sp. Wk.

Work commenced 6-9-43 Work completed 30-10-43

Date of trial trip Date of 1st service

Traffic conditions Under traffic except on 25-9-43.

Cost. Lab. & Cart. ^{+OH} £ 3346-7-11 Material £ 1342-0-2
Includes other depts.Cost. Lab. & Cart. ^{+OH} 71.4% Material 28.6%Percentage ^{Per. Way} Overhead 58% on Lab. Eng. H.N.B. W.F./A.C.
15% on hired site.Particulars

	Track Design P. 9399 Reconstruction At Special Work	Re-railing On curves off sp. Wk.
Drain	Existg. Conversion Type cleaned & retained	Existg. Type A cleaned & retained
Ashes	3 1/2" Av. thickness	Existing retained
Foundation	8" Rein. Cem. Pen, taken to tops of timbers	Existg Conc "
Sleepers		Existing "
Timbers		
Stringers	9" x 4 1/2" Sawn P.G. Various (gths)	Outer
Rails	90 & 96 lb.	High Outer S.H. 90lb, low Inner new 96 lb.
Joints	Thermit (F.P. at Switches)	Thermit
Fastenings	{ Plates, straps, clips Bolts & washers	Plates & Dogspikes
Paving	Bit. Pen. Mac.	Re-rendered & re-blocked (As "reconditioned") clear way undisturbed.
Surfacing	Bit.	Bit.

NOTE :-

Charged to Reconstruction

Special Work - 90lb. Switches & Mate, 100lb B.U. Xings. (T. rail)

For details see Sp. Wk. "Where laid" book page 59

Work by Other Departments :-

Preston W'shops :- Manufacture of 6 No. B.U. Xirigs (100lb T rail)

Lab. £289-1-4, O.H. £131-7-2, Mat. £176-12-0, Total £597-0-6

Stores :- Assembly & supply of Sp. WK & curves

Lab. £134-8-1, O.H. £35-10-1, Mat. £601-17-7, Total £771-15-9

Distribution :- Long Bonding.

Lab. £12-7-10, O.H. £6-16-4, Mat. £22-10-7, Total £41-14-9.

" Lighting.

Lab. £16-6-9, O.H. £8-18-5, Mat. £1-13-5, Total £26-18-7.

Sub A/c 2/10 C-11

CITY RD - ST KILDA RD

JOB. SURFACING

W.O. No. 45777

From _____ to _____

Estimate £ 33-0-0 Cost £

Cost per 100' of £ Cost per mile of £

Length _____ of _____

Work commenced _____ Work completed _____

Date of trial trip _____ Date of 1st service _____

Traffic conditions _____

Cost. Lab. & Cart. £ Material £

Cost. Lab. & Cart. % Material %

Percentage Overhead _____ Engineer _____

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Rails		
Joints		
Fastenings		
Paving		
Surfacing		

WORK NOT CARRIED OUT.

Notes - W.O. closed 12-6-45

Sub-Acc. 2/110.

Commercial Road - St. Kilda Rd

JOB. Renewal of junction W.O. No. 45179
 From 16' N. of Switches ^(Both Tracks) to 35' S. of crossing on E.T. } including
 54' S. " " " W.T. } runouts

Estimate £ 3341-8-0 Cost £ 3818-0-8

Cost per 100' of S.T. £ 1540 Cost per mile of £

Length 248' of S.T. (Full depth reconstruction)
 excluding runouts.

Work commenced 12-7-42 Work completed 3-9-42

Date of trial trip Date of 1st. service

Traffic conditions Night work; All night cars running except nights
 installing special work & concreting 5th runout.

Cost. Lab. & Cart. ^{+ O.H. & Sol.} £ 2447-0-8 Material £ 1371-0-0

Cost. Lab. & Cart. ^{+ O.H. & Sol.} 64 % Material 36 %

Percentage Overhead 62% on Lab Engineers ^{S.H.H. Bell}
 15% on H. Ctge. ^{J.F./H.O.C.}

Particulars

Track Design P. 2223.

	Existing	New (Full depth).
Drain	Conversion Type	Existing retained.
Ashes	3" Av. thickness	3½" Av. thickness.
Foundation	7" R. Conc. under timbers	Pen. Conc. 8" under timbers.
Sleepers & Timbers.	9" x 4½" Sawn, various lengths	9" x 4½" red gum, various lengths. (Sawn)
Stringers	On W.T. to N. & S. of Jctn.	
Rails	80lb (801) rails & S.W.	102 lb castings, 90 & 96 lb. rails.
Joints	Fishplated	Fishplates on S.W., Thermit on runouts.
Fastenings	C'screws & clips	Straps, bolts, plates, clips, washers.
Paving	5" Wood Blocks	Pen. Mac. Bit along rails, Tar elsewhere
Surfacing	Bitumen.	Bitumen seal coat.
Bit. Packing		½" under rails between timbers.

Notes: — Charged to Reconstruction

On runouts, short 80lb (801) closures of various lengths were used (see P. 8857)

On both tracks in St. Kilda Rd, 5th of special work, some channel anchors & steel ties were used, for limits see Drgs P. 8875 & P. 8878.

(over)

Special Work :- See Special Wk "Where laid" Book, page 52
 96 lb. L.H. interconn. switches, Davies & Baird, Cont. 1152
 102 lb. RH to L Mate " " " " 877.
 102 lb. LH to L Switch Hadfield's (Aust.) " 567.
 102 lb. Crossings A.B.C.D.E.F Davies & Baird " 1198.
 Crossing "E" defective & under a 5 years guarantee.

Work by Other Departments :-

P. 2707. Stores Assembly & Supply of Junction

Labour £ 93-0-4

O'head £ 23-5-0

Material £ 1040-12-10

Total £ 1156-18-2

D. 843. Distribution Long Bonding.

Labour £ 18-12-4

O'head £ 10-4-9

Material £ 12-16-7

Total £ 41-13-8

D. 844. Distribution Lighting.

Labour £ 6-6-7

O'head £ 3-9-7

Material £ 1-8-0

Total £ 11-4-2

Commercial Rd - St Kilda Rd

JOB, Surfacing W.O. 45179 W.O. No. 45180

From to

Estimate £ 47-0-0 Cost £

Cost per 100' of £ Cost per mile of £

Length of

Work commenced Work completed

Date of trial trip Date of 1st. service

Traffic conditions

Cost. Lab. & Cart. £ Material £

Cost. Lab. & Cart. % Material %

Percentage Overhead Engineer

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Rails		
Joints		
Fastenings		
Paving		
Surfacing		

WORK NOT
CARRIED OUT

Notes:—

W.O. Closed 12-6-45.

CORDITE AV. DUPLICATION

Sub. Acc 7/220

JOB Cordite Avenue Duplic. (N.T) W.O. No. 25126.
& Lifting - Metalling Existing 5th Track.

From 106' West of Y Junct. to 100' East of Terminus.

Estimate £ 3693-14-0 Cost £ 3182-4-6.

Cost per 100' of ^{1086'} ^{1250'} ^{313'} of ^{ST. Duplication N.T.} ^{ST. Lift etc. (Less 2 turnouts) ST.} ^{ST. Siding.} Cost per mile of

Work commenced 19-5-42 Work completed 23-7-42.

Date of entry 1 Date of Is. service 19-6-42.

Traffic conditions Lifting existing track only, done under traffic.

Cost. Lab. & Cart. } £ 1852-11-4 Material £ 1329-13-2
OH. & Salaries }

Cost. Lab. & Cart. } 58.2% Material 41.8 %
OH. & Salaries }

Percentage Overhead 62% on Labour Engineer. J.F. & H.O.C.
15% on hired Gys.

Particulars	Duplication	Lifting ^{ST.}	Siding
Excavation	Forming	Removal ^{some} ashes	Forming.
Subsoil Drain	Nil	Nil	Nil.
Cross Drains.	15-4"	15-4"	3-4"
ashes	4" thickness	4" thickness	4"-6" thickness.
Foundation	4" metal	4" metal ^{orig} on ashes	-
Sleepers	New 8'9" x 4 1/2"	Existing 8'9" x 4 1/2"	New 8'9" x 4 1/2" Hewn
Stringers	hewn Yellow Stringy Bark	sawn Red Gum	Yellow Stringy Bark
ails	80 LBAS.	Existing 80 LBAS.	80 LB. AS
oints	Fishplated	Fishplated	Fishplated
ntenings	Dogspikes on straight, Bolts & Clips on Special Work		
Paving	- open Ballast Tracks -		
Surfacing			

Notes: - Charged to Construction.

Chainage Duplic. N.T. 16362' - 17448' = 1086' of ST

Lift etc. S.T. 16212' - 17548' = 1250' ST. (Less 2 turnouts)

Siding. 17193' - 17506' = 313' ST.

Special Work over page.

Special Work. The turnout, with timbers, on the West end of the "Y" Junction was used for the East end of duplication. The original siding turnout with timbers was used for the new siding.

The turnout at the West end of duplication was made up of S.H. castings from the crossover removed from St Georges Rd at Woolton Av.

Charles St. Footsray.

JOB. Reconstruct'n & Lifting on 5th Trk. P.O. No. 1017.

From Gamon St to Victoria St

Estimate £ Nil Cost £ 958-4-8.

Cost per 100' of £ Cost per mile of
Length 170' of S.T. Reconstr., 110' Centre Bench Reconstr.
60' of S.T. Lifting

Work commenced 8-1-44 Work completed 1-2-44

Date of trial trip Date of 1st service

Traffic conditions Under Traffic

Cost. Lab. & Cart. ^{HOH} £ 806-13-0 Material £ 151-11-8Cost. Lab. & Cart. ^{HOH} 84.2% Material 15.8%Percentage Overhead 58% on Lab. Engineer H.H.B. J.F./M.C.
15% on Hired Ctye.Particulars

	Existing	New (Reconstruction).
Drain	Type A	New Type B
Ashes	3" Av. thickness	3"-4" thickness, probably.
Foundation	Spalls	7" metal under sleepers "
Sleepers	8' Sawn.	New 8'-0" x 10" x 5" stringy bark
Stringers		
Jails	80lb (801) + G. Plate	80lb (801). 22' S.H. renewals Existing. 30' G. new G.P. renewals Existing.
Joints	Fishplates same joint plates.	
Fastenings	Dogspikes	Dogspikes
Paaving	Bit. Pen. Mac.	Pen. Mac. - Bit along rails Tar elsewhere.
Surfacing	"Duratenax"	Bit. Seal Coat.

Notes: — Charged to Maintenance 12/1.

Work done: — 170' S.T. Reconstr. on 5th Track

60' S.T. Lifted on outer curve to Victoria St.

110' Centre Bench reconstr'd at Gamon St end of Charles St

JOB. CLIFTON HILL DEPOT W.O. No. 25867

From _____ to _____
Estimate £ 2,841-0-0 ^{LABOUR ONLY} Cost £ 32-10-9

Cost per 100' of _____ £ _____ Cost per mile of _____ £ _____

Length _____ of _____

Work commenced _____ Work completed _____

Date of trial trip _____ Date of 1st. service _____

Traffic conditions _____

Cost, Lab. & Cart. £ _____ Material £ _____

Cost, Lab. & Cart. % _____ Material % _____

Percentage Overhead _____ Engineer _____

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Rails		
Joints		
Fastenings		
Paving		
Surfacing		

changed to construction.

Notes :- The construction of a concrete bus park at QUEEN'S PARADE, CLIFTON HILL.

Work abandoned 12/6/45

JOB. COBURG CAR DEPOT - Surfacing. W.O. No. 15897.

From _____ to _____

Estimate £ 110-0-0 Cost £ 96-14-8.

Cost per 100' of _____ £ Cost per mile of _____

Length of _____

Work commenced 19-6-'45 Work completed 25-6-'45

Date of trial trip _____ Date of Is. service _____

Trade conditions

Cost Lab. & Cart. ^{+O.H.} £ 86-15-5 Material £ 9-19-3

Cost Lab. & Cart. ^{+O.H.} 89.7% Material 10.3%

Percentage Overhead _____ Engineer _____

Particulars

	Existing	New
Drain		
Leaves		
Foundation		
Sleepers		
Stringers		
Joists		
Trunks		
Fastenings		
Clawing		
Surfacing		

Notes :- Charged to maintenance.

Levelling and surfacing floor of the running shed.
Workshops at Coburg Depot with bituminous material.
Area surfaced - 160 syds.

CAST

LABOUR	£44-3-3
OVERHEAD	25-9-6
MATERIAL	9-19-3
CARTAGE	14-18-0
" " <u>OF HEAD</u>	<u>2-4-8</u>
<u>TOTAL</u>	<u>£96-14-8</u>

CARLISLE ST. of ALBERT ST.

SUB ACCOUNT 3/540

JOB. Berailing Curves (Nth Track only) W.O.N^o. 45191

From Outer Curve, 14.3 W of W.A. to. 15.8 E of A.P.

Estimate £ 580. 0. 0 Cost £ 995. 5. 0

Cost per 100' of S-Track £ 562. 3 Cost per mile of ~~£~~

Length 177' of Single Track

Work commenced 9.2.45. Work completed 28.2.45.

Date of contract

Date of completion

Traffic conditions Under Traffic

Cost Lab & Cart £ 713. 0. 2 Material £ 282. 5. 6

Cost Lab & Cart 74.5% Material 25.5%

Percentage Overhead 58% Lab. 15% A. Cart. Engineer H. A. BELL.

Particulars

	Existing	New
Drain	4" A.G. Pipes	Existing Retained,
Ashes	Av. 3" Thickness	Existing Retained.
Foundation	5" Ballast under Sleepers	Existing not disturbed except 3" under Sleepers.
Sleepers	7'6" x 9" x 4 1/2"	On Curves 8'0" x 9" x 4 1/2" I.B. Sleepers Abutment of S.W. drain, existing stringers edged down, also various lengths of 9' x 4"
Stringers		
Rails	96lb.	96lb rail plus 250' S.A. rail 90lb across S.W. drain.
Joints	Fishplates, elect weld	Thermit fusion.
Fastenings	Dogspikes	Dogspikes, clips.
Painting	Tar. Pen. Mac.	ALL Bit. Pen. (Premixed over S.W. drain)
Surfacing		

Notes :-

Changed to Reconstruction

Actual Cost Includes.

Stores Department - Supply & Bend Rails £ 125. 18. 5

Drawings. Details of Curves P2441

Stores Department
Supply of Bend Rails.

Labour 8. 16. 6.

Overhead 2. 4. 1

Material 114. 17. 10.

125. 18. 5.

CHURCH ST. RICHMOND

1/130

JOB Re-railing Curves of Prince Act. St. W.O. No. 45196.

From ^{outer track} ^{outer} Curve 10.5. S.T.P. 10. N. N.T.P.
Inner Curve 10.5. S.T.P. 10.3" N. N.T.P.

Estimate £ 540. 0. 0. Cost £ 493. 5. 0

Cost per 100' of S.T. £ 4.11 Cost per mile of £

Length 60' of Double Track

Work commenced 17.4.45 Work completed 1.5.45

Date of trial trip - Date of 1st. service -

Traffic conditions Under traffic

Cost. Lab. & Cart. £ 415. 5. 3. Material £ 77. 12. 9

Cost. Lab. & Cart. 84.3 % Material 15.7 %

Percentage Overhead 58% on Lab. Engineer H.H. BELL
15% N.C.Particulars

	Existing	New
Drain	4" Gutter Tiles ON CONCRETE INFILL	Existing Retained
Ashes	AV. 3" THICKNESS	" "
Foundation	7" Reinforced under stringers.	" "
Sleepers		
Stringers	10 1/2" x 1 1/2" x 15'0. Jarrah	" "
Rails	90 lb.	SA. 90 lb (ex. Block Rock Rlys Tongs)
Joints	-	ELECT. WELDED
Fastenings	ANCHOR BOLTS	ADDITIONAL ANCHOR BOLTS 8" dia.
Paving	Concrete Surface	Bored in each side of rail with premixed metal.
Surfacing	1/2" Below Rail with W.B. heaters along rail 50/50 Bit & Distilled Tar. binded with 5" screenings.	Approx 3" of premixed screening & Toppings 6" each side of rail.

Notes. - charged to Reconstruction

Actual Cost Includes.

Stores. Department - Supply & Bend 735.4.3.

Drawings Details of Curves. D9971.

Stores Department

Supply of Bend rails.

Labour 5. 13. 2

O. Head 1. 8. 4

Material 28. 2. 9

£ 35. 4. 5.

CLARENDON ST-ALBERT RD.

JOB. Reconstruction of curves W.O. No. 20523

From _____ to _____

Estimate £2,200-0-0 Cost £3,491-7-11

Cost per 100' of S.T. £410 Cost per mile of £

Length 852' of S.T.

Work commenced 27-9-'47 Work completed 7-11-'47

Date of trial trip _____

Date of 1st. service _____

Traffic conditions Under Traffic.

C. & L. Lab. & Cart. £2,341-0-5 Material £ 562-12-0

C. & L. Lab. & Cart. 67.2 % Material 16.1 %

Percentage Overhead ^{58% on Labour}
^{60% on Carting} 15% on H.C. Engineer H. H. BellParticulars

	Existing	New
Drain	—	New type "C"
Ashes	Average 3" thickness	Varying depth of ashes.
Foundation	7" Ballot under sleepers	7" New S.H. Metal under sleepers. Lifting— 3" New metal under sleepers.
Sleepers	8' x 9" x 4½" hemm	Curves—New sawn jarrah, Straight—New hewn I.B. Lifting—S.H. hewn sleepers.
Stringers	—	—
Batts	90 lb	Curves—high leg new 102 lb (Aust), Low leg— 96 lb, Straight—existing 90 lb retained.
Joints	Dog spikes	Thermit welded
Fastenings	Fishplates, electric welding, sole plates.	½" Plate, clips, batts, dog spikes.
Paving	Tar. Per. Mac.	Bit. Per. Mac.
Surfacing	—	—

Notes: — charged to reconstruction.

Actual cost included:—

Stores Dept - assembly of curves £570-16-8.

Disch. Dept - Lighting etc. £16-18-10.

JOB. *Sambowak Rd of Gooarak Rd. P.O. No. 11198*

From *Realigning down # track curve*

Estimate £ — Cost £1016-16-8

Cost per 100' of S.T. £609 Cost per mile of £ —

Length *167' of S.T*

Work commenced *8-4-47* Work completed *22-4-47*

Date of final iron — Date of 1st service —

Traffic conditions *Under traffic.*

Cost. Lab. & Cart. £866-2-7 Material £150-14-1

Cost. Lab. & Cart. *85.2 %* Material *14.7 %*

Percentage Overhead — Engineer *H.H. Bell*

Particulars

	Existing	New
Drain	4" Ag. pipes	Not disturbed
Ashes	Av. 3" thickness	" "
Foundation	6" Ballast under sleepers	" "
Sleepers	Sawn jarrah also timbers	8x9x1/2" new heavy I.B.
Stringers	—	—
Rails	96 lb.	High leg - new 102 lb. (Aust). Low leg - new 96 lb.
Joints	Elec. welded fishplates	Thermit Fusion.
Fastenings	Dogs spikes	Dogs spikes.
Facing	Tor Pen Mac.	Bit. Pen. Mac.
Surfacing	—	Bit. Seal.

Notes :—

JOB. Canterbury Rd - Mills St. Recon. W.O. No. 20528

From Down Track - 26' N. N.P. Albert Rd 83' S. S.B.L. Page St.
Up track - 34' N. T.P. in " " 50' N. N.B.L. Richardson St.

Estimate £ 21,448.0.0 Cost £ 22,572.16.2

Cost per 100' of S.T. £ 471.9.0 Cost per mile of £ -

Length 4783' of S.T.

Work commenced 7.11.47 Work completed 23.9.48

Day of trial trip - Date of 1st service -

Traffic conditions Under Traffic.

Cost of L.S. & Cart. £ 16,265.6.0 Material £ 4,821.19.0

Cost of L.S. & Cart. 72 % Material 21.4 %

Percentage Gearhead 75 % Engineer H. H. Bell Jr.

Particulars

	Existing	New
Drain	4" Gutter Tiles.	Type "C" Albert Rd Curves only.
Ashta	3" Thickness	3 1/2" Thickness.
Foundation	7" Ballast	7" Metal.
Surfaces	8' x 9" x 4 1/2" hevn.	New jarrah on curves. New I.B. on straight.
Stringers	-	-
Wheels	90 lb.	Curves - High leg 102 lb. Low leg 96 lb. Straight - Up track - exist. removed recon. & reused. Balance existing generally retained.
Wheels	Sole Plates. Fish Plates. Elec. Weld.	Thermit fusion. Balance existing, plated & welded joints retained & repaired.
Pointings	Dogspikes	Dogspikes.
Pointing	Tar Perx. Mac.	Bit. perx. Macadam.
Surrounding		

Notes: -

25106	DONCASTER RD.	Construction.	6.
45115	DAWSON ST.	Grantham S-Melville R.	
		Refastening	7.
45136	DANDING R.-HAWTHORN JNC.	Reconstruction	8.
45157	"	"	9.
45142	DANDENONG RD.	Hornby St Curves Reconst"	10.
45143	"	"	11.
45198	Dandenong R ^d - Glenferrie R ^d	Curves Retrailing	12
20511	Domain R ^d - Park St & Park St - Toorak R ^d	Curves. Retrail	13

~~20517~~

4/110.

JOB: Doncaster Rd. Cop. W.O. No. 15,106

From Bulleen Rd. 18,773-31 to Balwyn Rd. 22,768-76.

Estimate £ 10,025 ^{excluding surfacing} Cost £ 9897 ^{including surfacing £176-14-1}

Cost per 100' of S.T. £ 232-6-7 Cost per mile of S.T. £ 12266.

Length 3992.44' of S.T. + Loop 268.1' S.T. (T.P. to T.P.)

Work commenced 3-10-38 Work completed 10-12-38 (Main Work)
11-3-39 (complete.)

Date of trial trip 9-12-38 Date of 1st service

Traffic conditions No Tram traffic; Vehicular only.

Cost: Lab. & Cart £ 3968-7-10 Material £ 5752-4-10 ^{exc. surfacing}

Cost: Lab. & Cart 40.8% Material 59.2%

Percentage Overhead 6.0% Lab Engineer
1.5% Hire (19c. H.H. Bell.)

Particulars less shore cost 109-13-4.

	Existing	New
Drain		"B" Type.
Ashes		Av. 3 1/2 in thickness.
Foundation		7" Metal under sleepers
Sleepers		8' Hewn (1775) also 98 timbers.
Switches		Switches, mate, 7 crossings S.H.
Rails		102 Lb. New (ex Con. 1062)
JOINTS		Thermit Welded (combined) 188.
Fastenings		Dogs spikes (7182) fusion A.
Fixing		Bit. Pen. Mac
Surfacing		1/2" Merrimix; 1.83 tons per 100 Sq yds.



CHARGE: Construction

Notes:- Original Estimate was £9650 but 5% was added

Surfacing done under P.O. 1229 a cost £176-14-1 (16-6-39)

S.H. metal from St Georges Rd. ^(No. 45127) used for Boxing in; new metal for bottom 9 5" over surface.

Manufacture and assembly of 2

Summits L. 44-10-1

O 23-2-10

M 257-5-6

5324-18-5

Surfacing - P.O. 1229 Area done 8650 sq. yds.

Cost per 100 sq. yds. £ 4. 16. 10

Labour + O.H. £ 63. 5. 8

Cartage + O.H. 6. 8. 3

Materials: Merrimac 96. 17. 6

(40-4T) Emulsion 8. 2. 10

(200 gal.) Misc 1. 19. 10

(No Estimate) £ 176. 14. 1

NATURE OF MATERIAL MET WITH WHILE PROVING MAINS 29-7-38 (C.L.)

Ch. 18972.6

7' E. of W.B.L. Marwal St.

5" Metal.

5"-25" Clay + loam filling.

25"-36" Loam (natural).

36"-42" Clay.

Ch. 19390.3

7' 6" E. of W.B.L. Highbury St.

4" metal

4"-24" Clay

24"-36" + very soft Reef (Silurian)

Ch. 20190.7

7' E. of W.B.L. Thackray St.

4" metal.

4"-36" Clay.

Ch. 20502

10' W. of E.B.L. Longview St.

4" Metal.

4"-24" Clay.

24"-36" + Soft Reef.

Ch. 21196

9' E. of Panoramic Rd.

4" Metal.

4"-24" Clay.

Ch. 21832

10' E. of W.B.L. Hill Rd.

5" metal.

5"-50" soft Reef.

C. Coleman.

JOB Dawson St. Refastening & Re-surfacing W.O. No. 45,115. 5/310.

From Grantham St. to Melville Rd

Estimate £2720 ⁽²⁷¹⁵⁻¹⁵⁻³⁾ Cost £2155-8-0.

Cost per 100' of S.T. £15-16-3 Cost per mile of S.T. £3475

Length 3275' of S.T. (1637' at)

Work commenced 7-2-38 Work completed 30-5-38 in main, surfacing 13-2-39

Date of trial trip Date of 1st service

Traffic conditions U.S.U.A.

Cost: Lab. & Cart. ^{+OH} £1613-19-3 Material £541-8-9.

Cost: Lab. & Cart. ^{+OH} 74.8% Material 25.2%

Percentage Overhead 52% to 30-6-38 Engineer H.H. Bell.
60 afterwards.

Particulars 15' Hired Cartage.

	W.O. Existing 747	Existing 20-6-25	New
Drain	TYPE A		Existing
Ashes	Av. 4" thickness		"
Foundation	7" A. Concrete under stringers.		"
Sleepers			with mastic & plates.
Stringers	10 1/2 x 1 1/2 x 16' darrak		"
Rails	90 lb. BSN 1 - new.		"
Joints	F.P. elec weld.		" (No welding done)
Fastenings	1" A.B. and Clips 3-2 1/2" centres.		36 sleeper plates; 6 x 2 pieces M.S. plate. Some fastenings renewed.
Paving	Bit. Pen Mac.		9A new Tiebars.
Surfacing			Bit. Pen mac. 1/8" Merrimix; 2 1/2 Tons per 100 sq. yd.

CHARGE: Reconstruction.

Notes:— CHAINAGE of Job:

<u>5th Track.</u>	9390 to 11075 = 1685'	} 3275'
<u>Nth "</u>	9485 to 11075 = 1590'	

DANDENONG RD - HAWTHORN RD. JUNCTION.

2/110

JOB: Reconstruction

W.O. No. 45136.

From 6595-12-0 to

Estimate £(6602) Cost £ 6533-8-4

Cost per 100' of Ste £ 545 Cost per mile of

Length = 100' of D.T. including special work.

Work commenced 6-3-39 Work completed 10-5-39

Date of trial trip Date of 1st. service

Traffic conditions Usual.

Lab. & Cart. £3047-13-0 Material £ 3485-15-4

Lab. & Cart. 46.7% Material 53.3

Overhead 10 Lab Engineer H.M. Bell
15 H. Cart. *J.P. R.S.*

Particulars

	Existing	New
Drain	4" A.G. "B" Type 4" A.G. Pipes.	4" A.G. "B" Type.
Ches	S.E. Curves: 3" Bal. Nil.	Av. 3 1/2" in thickness.
Foundation	N.W. Curve 4 in Haw. Rd. 7" Conc.	7" Metal under sleepers.
SLEEPERS	Bal: Metal 7' 6" & 8' Hewa Saws	New Timbers and sleepers.
W.M.		Steel work Con. 1098.
Legs	90 and 96 lb.	New on E. 75. legs; Balance existing.
Joints	F.P.'s elec. weld.	Thermit weld: fusion; 32 Joints
Connections	Dogs spikes	Dogs spikes
Paving	Bit. Pen Mac.	Tie plates & straps - coach bolts.
Surfacing		Bit. Pen. Mac.
		See W.O. 45137.

CHANGE: Reconstruction.

- Notes: - Plans: - Details of Curves P. 7643
 Layout & timbers P. 7667-8016-8458
 Track designs P. 8473.
 Grading 7668. 7669. 8457
 Assembly of Junction, timbers etc P.O. 2647 £2450-0-11.

W.O. 45136 (Contd.)

NOTE:-

Allowance was made in Estimate for Cement Penetration under the Sth. leg of Junction

This work was not done owing to water main under the location.

Items affected:

<u>L.</u> Cement Pen.	£10
L. & P. extra	15
O.H.	15
<u>M.</u> Cement 7 T.	28.7
Sand 15 c. yds	7.5
	£76.2

Probably £80 too much allowed

SLEEPERS: (see note over page also)

8' Hewn	137 in Dandenong Rd.	} 196 Total.
	19 " Hawthorn Rd.	
	40 " S.W. Curves (N.W.)	
8' Sawn	50 " S.E. Curves	

These sleepers apparently in addition to sleepers in connection with Sp.Wk. from Hanna St.

All Track Centres excavated and replaced with 3" ashes and 7" metal.

FORMATION:

<u>Dandenong Rd:</u> Both Tracks	Sand (good)
S.W. Curve	" "
S.E. "	Clay & marl.
<u>Hawthorn Rd</u> Both Tracks:	Clay & marl (wet & soft)

EXPERIMENTAL. Existing crossings retained in West end of Junction, also rails of S.W. curves.

→ VARIATIONS FROM DESIGN: S.E. Curves, Plates, Bolts, Clips etc

→ S.W. Curves: Double dogspiked (no plates)
Hawthorn Rd. Approach: Full depth reconstruction?
ET. 75', W.T. 60' from T.P.s with new sleepers for 15' from T.P. in each track, balance of existing sleepers retained and respaced. Other details and limits according to design.

TRACK DESIGN: P. 8473.

MORE SLEEPER DETAILS: (from Ganget's F. book-A)
Supplementing sleeper information shown on previous sheet.

1. "ALL SPECIAL WORK and South east Curves have 8' Jarrah Timbers and fastenings."
2. 20 New 8' hewn iron bark sleepers used on West end for 45' West of T.P., North & South Tracks.
3. 20 New 8' hewn iron bark sleepers used on east end for 50' E. of T.P. - North & South Tracks
4. 97 New 8' hewn iron bark sleepers used on straight tracks between special work on North & South tracks in Dandenong Rd.
5. 40 New 8' hewn iron bark sleepers used on South West curves on existing rails
6. 19 New 8' hewn sleepers used on S. end for 15' S. of T.P. then existing sleepers respaced for another 60' on E.T. and 45' on W.T.

DANDENONG RD. - HANTHORN RD. JNC.

2/610

JOB, Surfacing (45136) 937 sq yds W.O. No. 45,137.

From _____ to _____

Estimate £ 68 Cost £ 99.19.9.

Cost per 100 sq. Yds. £ 9.12.3 Cost per mile of _____

Length AREA of 1040 sq. Yds

Work commenced 8.12.39 Work completed 11.12.39.

Date of trial trip _____ Date of 1st service _____

Traffic conditions Usual.

Cost, Lab. & Cart. ^{10.0%} £ 58.9.0 Material £ 41.10.9Cost, Lab. & Cart. ^{10.0%} 68.5% Material 41.5%

Percentage Overhead Engineer H.H. Bell

H.H.B.
10.12.39Particulars

	Existing	New
Drain		
Lines		
Excavation		
Skimmers		
Grinders		
Gruts		
Gruts		
Fasenings		
Rolling		
Surfacing		

CHARGE: ReconstructionNotes: — Estimate: 1124 sq. Yds at £6.1.0 per 100 sq. Yds.

2/10.

DANDENONG R₂ Reconstruction.

JOB. Hornby St. Curves.

W.O. No 45142

From NORTH TRACK Ch. 268 - 830.To SOUTH " 253 - 830.

Estimate £ 3320.18.0 Cost £ 3112.3.9.

Cost per 100' of S.T. £ 273 Cost per mile of S.T. 14,414.

Length 1140' of S.T.

Work commenced 10.5.39. Work completed 8.7.39.

Date of trial trip Date of 1st service

Traffic conditions As usual.

Inst. Lab. & Cart. £ 1981.19.0 Material £ 1130.4.9

Inst. Lab. & Cart. 63.7% Material 36.3%

Percentage Overhead 60 Lab. Engineer H.H. Bell

15 H.Cart.

Particulars

	Existing	New
Drain	280-305 Nil 305-253(S) 4" A.G. 288(N)	New F. 8A33 B. P. 8651 A. 4" A.G.
Pipes	Nil where no drain 3" over balance	Av. 3 1/2" in thickness.
Foundations	7"-8" metal	7" metal under sleepers (see opp.)
Sleepers	7'6" x 8' 9 7/8"	New 8' x 9' x 9 1/2" Hewn. A. 7 B. (508)
Weights		New 102 lb. & 96 lb. on curves.
Weights	90 & 96 lb.	Existing 90 lb. on straight tracks.
Welds	F.P. Elec. weld	Thermit welded. 54 joints 28/7.
Plantings	Dogspikes	Dogspikes: 125 new tiebars. Curves double dogged.
Plantings	Bit. Pen. Mac.	Bit. Pen. Mac. outside plantations Lilydale Screening loosely spread on open ballast inside plantations
Surfacing		Surfacing under W.O. 45143.

CHARGE: Reconstruction.

Drainage: Both tracks 830-807 4" A.G. pipes along margins.
830-809 on S.T. & 830-856 on NT - open ballast - 4" G. tiles
on surface replace council pitcher drain.

W.O. 45142 (CONT'D)

W.O. 45142 CONT'D

	<u>Original Est.</u>	<u>Final Est.</u>	<u>Cost.</u>
<u>MATERIAL</u>	£ 1121	1121	1130
<u>L.-ON-S.</u>	£ 2016	2200	1982
<u>TOTAL</u>	<u>3137</u>	<u>3321</u>	<u>3112</u>

20' of S.T. less done than estimated which represents $\frac{273}{8} = £55$

If estimated length had been carried out the original estimate (£3137) would have been within £30 of the actual cost i.e. $3112 + 55 = £3167$ (N.A.)

HAND BEATER PACKING.

On the Sth. Track - open ballast - from 630 to 607, the sleepers were hand beater packed (Experimental).

ON RLY. BRIDGE: Top of conc. arch is about 12" below R.L. at shallowest part. No ashes for about 10' in each track, over bridge.

LIFTING ONLY: W. of Bridge: From 305 - 268 N.T.
" 305 - 243 S.T.

<u>FORMATION</u> :	<u>North Track</u>	<u>South Track</u>
Ch. 830	Marl & Clay made up	Marl & Clay made up
800	Black sand	" "
750	" "	" "
700	Sand	Sand & Clay
650	" "	" "
600	" "	" "
550	Sand & Clay	" "
500	" "	" "
450	" "	Old metal - made up
400	" "	" "
350	Old metal - made up	" "
300	" "	" "
270	Clay	Clay

Mainly from Gangers Field Book

W.O. 45142 (CONT'D.)

RAIL BRAND: 96 LB. B.S. N° 1 CABDL PC° LTD
CLD 1933

" " 102 LB. CABDL PC° LTD. 1933 & 1937.

DANDENONG R^d Surfacing

2/610.

JOB. Hornby St. Curves

W.O. No 45743.

From Ch. 250. to Ch. 830.

Estimate £ 38. Cost £ 66.1.5

Cost per 100 SA Yds. £ 7.9.1 Cost per mile

AREA of 698 SA Yds

Work commenced 7.12.39 Work completed 7.12.39.

Date of trial trip _____ Date of 1st service _____

Traffic conditions USUAL

Cost. Lab. & Cart. ^{+O.H.} £ 26-1-1 Material £ 40-0-4 (Exc. P.C.C.)

Cost. Lab. & Cart. ^{+O.H.} 39.4% Material 60.6%

Percentage Overhead Engineer H.A. Bell

J.P. Y. / A.R.

Particulars

	Existing	New
Drain		
Asphs		
Foundation		
Steeprs		
Stringers		
Rails		
Joints		
Fastenings		
Paving		
Surfacing		Bit. 7 1/2' screenings Seal Coat. Toppings & Bitumen 1/8" Merrimix Premixed Material.

Notes:— Ch. 830-607 Open ballast, topped 2" Lilydale Scr

ESTIMATE: 746 SA Yds. at £5-2-0 per 100 SA Yds = £30. (actual)

Included in total cost is £14 Prahran C.C. edging.

Sub/Acc 4/330

Dandenong Rd - Glenferrie Rd. (20503)

JOB. Curves Rerailing W.O. No. 45198

From 22' along straight to from T.P.s.

Estimate £3220-0-0 Cost £3,305-17-2

Cost per 100' of ST £569.7 Cost per mile of - £ -

Length 580' of ST.

Work commenced 11-6-45 Work completed 30-7-45

Date of trial trip - Date of 1st service -

Traffic conditions Under traffic.

Cost. Lab. & Cart. ^{+OH} £ Material £Cost. Lab. & Cart. ^{+OH} % Material %Percentage Overhead ^{58% on Lab.} 15% on H.C. Engineer H.H.B., J.F. H.O.C.Particulars

	Existing	New
Drain	4" A.G. pipes.	Type B renewed on portion of outer rail.
Ashes	Av. 3" thickness	3" replaced under inner curve N. of Secant & under all outer curves.
Foundation	7" ballast under sleepers	8" to 9" under sleepers.
Sleepers	8' x 4 1/2" hewn.	New 8' x 9" x 4 1/2" sawn Jarrah.
Stringers	80lb (801) with 60lb G.R.	New 80lb (801) and G.R. on plates with clips & 7/8" bolts. 22' st. 90lb closures
Rails	90lb on straight	on new sleepers with plates & bolts, on all ends except E. track Glenferrie Rd which was 80lb (801).
Joints	Fishplates, Junction plates, elec weld, sole plates.	Thermit welded
Fastenings	Dogspikes.	As above in rails.
Paving	Bit. pen. mac.	Pen. tar & bitumen with seal coat bitumen.
Refusing		

10/38 - Charged to Reconstruction.

Work done by other Departments.

Stores Dept Supply & bend rails.

Lab. £172-0-9 OH £43-0-1 Mat £122-13-5 Total £337-14-3

Distribution Dept Temporary Lights

Lab. £8-2-7 OH £4-17-8 Mat £1-15-8 Total £14-15-11.

Domain RD - Park ST &
Park ST. - Toorak RD.

JOB. Curves Rerailing. W.D. No. 20511.

From Sec Plans to

Estimate £ 4,800-0-0 Cost £ 4102-0-4

Cost per 100' of ST. £ 672-4 Cost per mile of £

Length 610' of ST.

Work commenced 26-3-46 Work completed 10-5-46

Date of trial trip - Date of 1st service -

Traffic conditions ^{Day work under traffic} All night cars cut to put in rails.

Cost. Lab. & Cart. ^{+OH} £ 2969-15-1 Material £ 1132-5-3

Cost. Lab. & Cart. ^{+OH} % Material %

Percentage Overhead ^{58% Lab.} 15% H.C. Engineer H.R.B. J.F. H.C.

Particulars

	Existing	New
Drain	Conversion type	Not disturbed.
Ashes	As 3" ashes	" "
Foundation	7" R.C. under sleepers	" "
Sleepers	7'6" x 9 1/2" sawn Jarrah	Existing adged & plated where necessary
Stringers	80lb (801) & guard pl.	New 80lb (801), guardrail & guard plate.
rails	Guardrail inner rail.	
oints	Fishplates, dec weld.	Thermit fusion
astanings	Anchorbolts, clips	low rods c/s. knuc with 2 coach screws plus 11 coach screw & P&C clips. High rail 2 coach screws on high side & 1 on low side, all with P&C clips.
oading	5" Jarrah W.Bs.	Exist. used & 7 1/2% reconditioned.
urfacing		Sealed with bitumen, crude oil & tar oil & covered with toppings.

Notes :- Charged to Reconstruction.

Work done by other Departments.

Stores (a) Domain Rd (b) Toorak Rd. Both bending curves etc.

a) Lab £ 94-8-3 OH £ 23-10-4 Mat £ 286-12-5 Total £ 404-11-0

b) Lab £ 100-2-6 OH £ 25-1-11 Mat £ 278-13-11 Total £ 404-3-0

Distribution Lighting etc.

Lab 15-3-4 OH 8-6-11 Mat £ 15-12-10 Total £ 39-3-1

25105	Essendon Depot	a storage tracks in yard	9
45161	Esplanade Loop.	Renewal of turnout	10
45162	"	" Surfacing	11
25115	ESSENDON DEPOT	NEW TRACK	12
45175	"	" ALT TO LEVELS OF SPC WORK.	13
25129.	Essendon Aerodrome	Extens'n	See K-3.
25139	Essendon Aerodrome,	Road Xing E. of Matthews Ave	14
55815	"	Depot. Rails in N ^o 1 Shed Ext'n & road N ^o of N ^o 1 Shed	15
P.O. 1119	"	" Laying rails in N ^o 1 Car Shed Ext'n (part of 55815)	16
P.O. 1142	"	" Removal of 6 Temp Trks on S. side of Shed 1941	17
15898	ESSENDON DEPOT -	Surfacing.	18
25140	Essendon Aerodrome.	Road Xing at Treadwell R.D.	19
20517	Eastern Rd.	Reconstruction Dorcas St to Park St.	20

ESSENDON DEPÔT 1/150.
 JOB. 4 storage tracks in yard. W.O. No. 25,105

From 10

Estimate £1760.0.0 Cost £2104.18.0.

Cost per 100' of S.T. £167.9.0 Cost per mile of S.T. 8841.11.8

Length 1257' of S.T. (equivalent 10)

Work commenced 26.7.38 Work completed 18.9.38.

Date of trial trip Date of 1st. service

Traffic conditions Nil.

Cost. Lab. & Cart. ^{104.} £1182.9.9 Material £922.8.3

Cost. Lab. & Cart. ^{104.} 56.2% Material 43.8%

Percentage Overhead 60 on Lab. Engineer H.H. Bell.
 15 Hire Cart.

Particulars

	Existing	New
Drain		4" A.G. "B" Type (part only)
Ashes		3" ?
Foundation		Metal
Sleepers		Sawn timbers ^{4 new} & S.H. sleepers.
Stringers		
ails		Arch. T. Rail; 80 lb AS; 46 lb.
nuts		6 B. BOXINGS P.O. 2552 - £18.3.4 each.
fastenings		Curves, S.W. " 2553 - £395.11.2 total
clawing		Dogspikes
surfacing		Bit. pen mac. - Part only.
		Bitumen.

CHARGE: Construction.

Notes: - New tracks and necessary special work in yard parallel to existing tracks.

3/540

JOB. *Esplanade Loop*
Renewal of Turnout W.O. No. 45161
 From 45' W. of W.T.P. of Turnout ^{70' E. of Heel end of Switch on} KOT'out on S.T. - W.T.P. of X-over _{on N.T.}

Estimate £ 1,017.18.0. Cost £ 975.6.7.

Cost per 100' of £ Cost per mile of £

Length of

Work commenced 18.6.40 Work completed 7.8.40

Date of trial trip Date of 1st. service

Traffic conditions Usual

Cost. Lab. & Cart. £ 507.1.4 Material £ 468.6.3.

Cost. Lab. & Cart. 52 % Material 48 %

Percentage Overhead 67 L. & Sal. Engineer H. Bell.
 15 H. Cart.

Particulars

	Existing	New
Drain	Nil on T'out 4" Ag. E. of "	Formation: Yellow Clay. Type "C".
Ashes	Nil	At 3½" in thickness.
Foundation	Ballast, ? depth	7" metal under sleepers
Sleepers	8' Hewn	New Sawn 8' sleepers, and timbers. R.G.
Stringers		
Nails	90 996 (worn out)	New 102 Lb., some S.H. 90 996 ; Sp. WK 102 Lb. new.
Joints	Fish plated	Sp. WK Fish P. ; elsewhere Thexmit
Fastenings	Dog spikes	plates, bolts, clips etc. Sp. WK elsewhere dog spikes.
Paving	Tar Mac.	Bit. Pen. Mac.
Surfacing	Bitumen.	See W.O. 45162.

Notes:—

W.O. 45161 (CONTD.)

NOTES FROM GANGERS FIELD BOOK

Rails 96 lb. S.H. Brands not visible.

" 102 lb. 1927 Branded O.B.: BV-Co. 1927.

Switches and 1 in 5 Crossing by D.V.B.

From Switches to T.P. East on North track, 96 lb. S.H. Rail
on low leg, 102 on High leg.

OBSTRUCTIONS:

9" Gas Main running E7W. under S. track
from a point 16' W. of T.P. of Points to 40' E. of
1 in 5 crossing. Depth below surface at
W. end 17"; at E. end on south track
14" below scarified level.

3/500

JOB. *Esplanade Loop. Surfacing* W.O. No. *45162*

From _____ to _____

Estimate £ *16-0-0* Cost £

Cost per 100' of £ Cost per mile of £

Length of _____

Work commenced _____ Work completed _____

Date of trial trip _____ Date of 1st. service _____

Traffic conditions _____

Cost. Lab. & Cart. £ Material £

Cost. Lab. & Cart. % Material %

Percentage Overhead _____ Engineer _____

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Nails		
Joints		
Fastenings		
Paving		
Surfacing		

WORK
 CARRIED
 NOT
 OUT

Notes :-
W.O. closed 12-6-45

SUB A/C 6/150

Essendon Depot Car Shed No 3

JOB. Laying tracks 13 to 18 W.O. No. 25115

From Face of Shed to End of Pits

Estimate £ 720 - 0 - 0 Cost £ 593 - 15 - 1

Cost per 100' of S.T. £ 58-4-3 Cost per mile of S.T. £ 3073-11-0

Length 1020' of S.T.

Work commenced 26-5-41 Work completed 20-10-41

Date of trial trip — Date of 1st service —

Traffic conditions Nil

Cost. Lab. & Carl. ^{+0%} £ 315-15-9 Material £ 277-19-4Cost. Lab. & Carl. ^{+0%} 53.19% Material 46.81%Percentage Overhead 67% Labour Engineer H.H.B.
15% hired cart.Particulars

	Existing	New
Drain		Shed Pit Drainage
Ashes	Existing tracks	
Foundation	removed under	
Timbers	P.O. 1142	Red Gum timbers on pit walls, supplied + fastened by carpenter Dept.
Stringers		
Stringers		Tracks 13-17. New 80 lb. (801)
Rails		Track 18 S.H. 80 lb. (801)
Joints		Fishplated + bonded.
Fastenings		Rifps, washers, coach screws, dogpikes, fishbolts
Paving		
Surfacing		

Charged to Construction

Notes :-

Previous tracks removed under P.O. 1142

Second hand rails used, were from removal of tracks P.O. 1142 + did not go through Stores Lodgers.

Sub A/c 6/150

ALTERATIONS TO LEVELS—SPECIAL WORK TO TRACKS 13-18

JOB ESSENDON DEPOT

W.O. No. 45175

From Begin. of Special Work to Place of Car Shed N^o 3

Estimate £750-0-0 Cost £736-6-6

Cost per 100' of S.T. £147-5-4 Cost per mile of S.T. £7775-15-10

Length 500' of S.T.

Work commenced 18-7-41 Work completed 19-11-41

Date of trial trip — Date of 1st service —

Traffic conditions —

Cost. Lab. & Cart. ^{+OH.} £527-1-8 Material £209-4-10Cost. Lab. & Cart. ^{+OH.} 71.58% Material 28.42%Percentage Overhead 87% on labour Engineer H.H.B.
15% on hired cart.Particulars

	Existing	New
Drain	Type "B" part only.	4" A.G.
Asnes	3"	4"
Foundation	4" metal under sleepers	7" metal under sleepers
Timbers STRAKES	New sawn sleepers and timbers	Existing timbers at Special Work. New sleepers for remainder.
<u>Stringers</u>		
Rails	96 lb.	Existing 96 lb.
Joints	Wishplates bonded	Wishplates + bonded
Fastenings	See below.	Mostly existing
Paving	Bilpen. mac. on Sp. Wk.	2 Coat bit. for mac. 60/70
Surfacing	Cal. curves unpaved	But back 5% sprayed hot.

Notes:—

Charged to Reconstruction

Special Work: SH 90 lb. Latches + mates installed Sept. 1938

6-96 lb. B.U. Crossings See W.O. 25105

Fastenings:—Plates, bolt, clips, spring washers on Sp. Wk.
Dog spikes on balance of curves.

6/160

14.

(On Keilor Rd Extension to Aerodrome)

(P.O. 1034)

JOB. Essendon Aerodrome W.O. No. 25139From Macadam road Xing, East of Matthews Ave

Estimate £ 485 Cost £ 204-17-10

Cost per 100' of £ Cost per mile of £

Length of road 27'; Lifted & Packed 120' of D.T.

Work commenced Work completed 18-3-44

Date of trial trip Date of 1st. service

Traffic conditions Usual Tram Service

Cost. Lab. & Carl. ^{+OH.} £159-8-7 Material £ 45-9-3Cost. Lab. & Carl. ^{+OH.} 77.8% Material 22.2%Percentage Overhead 62% on Lab. Engineer H.N.B. J.W.F./Hoc
15% on Hired CityParticulars

	Existing	New
Drain		Tracks lifted & packed = 120' D.T.
Ashes	Open	Road Xing 27' long, metalled
Foundation	Ballast	to rail level, macadam paving.
Sleepers	Construction	Margins built up where
Stringers	see P. 9398.	necessary & some fencing
Nails		removed.
Joints		
Fastenings		
Paving		
Surfacing		

Notes: — Charged to W.O. 25139. Construction.

6/150

15

ESSENDON DEPOT. (Per Way Work in connectn with W.O. 55815)
 Tracks in N^o 1, Car Shed Extension, and
 10B. Roadway between Offices & N^o 1 Shed W.O. No. 55815.

from _____ to _____
 Estimate £ None Cost £ ^{Taks} For N^o 1 Shed Ext'n see P.O. 1113 in E. 16.
 Cost per 100' of _____ £ _____ Cost per mile of _____
 £ Roadway in with Architects' costs not separated.

Length _____ of _____

Work commenced 10-11-41 Work completed 19-11-41.

Date of trial trip _____ Date of 1st. service _____

Traffic conditions _____

Cost. Lab. & Cart. £ _____

Material £ _____

Cost. Lab. & Cart. % _____

Material % _____

Percentage Overhead _____

Engineer H.H.B. / D.J.F./HOC.

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Stoppers		
Stringers		
Rolls		
Joints		
Fastenings		
Paving		
Surfacing		

Notes:—

For cost of ^{Taks} N^o 1 Car Shed Extens'n see P.O. 1113 E. 16.

ESSENDON DEPOT.JOB. Tracks in N^o 1 Car Shed Extension P.O.
~~W.O.~~ No. 1113

From _____ to _____

Estimate £ None Cost £ 133-15-2

Cost per 100' of S.T. £ 1/4-6-3 Cost per mile of — £

Length 180' of single track (6/30' lengths of S.T.)

Work commenced 1-7-41 Work completed 2-8-41

Date of trial trip _____ Date of 1st. service _____

Traffic conditions Nil

Cost. Lab. & Cart.^{ton} £ 80-15-6 Material £ 52-19-8Cost. Lab. & Cart.^{ton} 60.4% Material 39.6%Percentage Overhead 64% on Lab. Engineer HMB. W.F./HAC
1075% on Head Cfg.Particulars

	Existing	New
Drain		
Ashes		Rails on roads N ^o 1, 2, 3, 5 & 6
Foundation		fastened to timbers on
Stoppers		transverse brick piers in pits.
Stringers		Rails on road N ^o A laid in
Balls		recesses in concrete foundation
Joints		(no pit).
Fastenings		Type of Rails 80lb (201).
Grading		
Surfacing		

Notes:— Charged to W.O. 55815.

Mr Fischer will pick up the heat numbers of these rails to establish the contract. H.D. 28.11.44

Essendon Depot.

JOB. Removal of 6 Temp. Tracks
on Sth side of Shed (1941)P.O.
No. 1142

From to

Estimate £ Nil. Cost £ 204-15-0 (Credit)

Cost per 100' of £ Cost per mile of

Length of

Work commenced Work completed May 1941

Date of trial trip Date of 1st. service

Traffic conditions

Cost. Lab. & Cart.^{ton.} £ 2-9-10 Material £ 207-4-10 (Credit)Cost. Lab. & Cart.^{ton.} % Material

Percentage Overhead Engineer M.H.B. J.F.

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Rails		
Bolts		
Washers		
Hoopings		
Surfacing		

Charge - Renewals.

Notes:— Tracks removed to allow for construction
of new shed and pits. (Car shed No 3)
Special Wk + curves at front retained

JOB ESSENDON DEPOT - Surfacing. W.O. No. 15898

From _____ to _____

Estimate £ 711-0-0 Cost £ 584-17-6

Cost per 100' of £ _____ Cost per mile of £ _____

Length _____ of _____

Work commenced 19-8-44 Work completed 28-8-44.

Date of trial trip _____ Date of 1st service _____

Traffic conditions _____

Cost, Lab. & Cart. £ 402-1-3 Material £ 182-16-3

Cost, Lab. & Cart. 68.7 % Material 31.3 %

Percentage Overhead _____ Engineer _____

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Galls		
Joints		
Fastenings		
Paving		
Surfacing		

Notes: - Charged to maintenance 14/98

Surfacing and resurfacing work adjacent to the new traffic offices.

392syds. graded paved and top dressed.

Work done under P.O. 1080

LABOR £279-5-1

OVERHEAD 122-16-2

MATERIAL 182-16-3

TOTAL £584-17-6

ESSENDON AERODROME Sub/ACC 6/160

Boxing in portion of Tramway to provide a road crossing at Treadwell Rd. & the provision

JOB of two Cattle Pits. W.O. No. 2514-0 (20003)

From to Estimate £693-12-0 Cost £779-8-8 Cost per 100' of £ Cost per mile of £

Length of Work commenced 21-5-45 Work completed 12-6-45

Date of trial trip Date of 1st. service

Traffic conditions Under traffic

Cost. Lab. & Cart. 10H £566-18-2 Material £212-10-6

Cost. Lab. & Cart. 10H 72.8 % Material 27.2 %

Percentage Overhead 58% on Lab. 15% H.C. Engineer H.H. Bell / J.F. H'c

Particulars

	Existing	New
Drain	Open side drains each Type C under N & S margins between side of tracks.	Type C under N & S margins between cattle pits.
Ashes	22" wide, 4 1/2" up side to 6" down side.	Exist 4 1/2" up side to 6" down side.
Foundation	4" of 3" metal rolled, 2" packing metal under sleepers	Exist 6" metal under sleepers (Metal to top of sleepers)
Sleepers	80.9 x 9 1/2" heavy S.B. (80% yellow, 14% white.)	Exist S.B. retained. Jorrah on 10" x 10" brams at cattle pits.
Stringers	80lb (801)	
Rails		Exist 80lb (801) plus new guard plate.
Joints	Fishplated.	Electric welded.
Fastenings	Dogs spikes	
Paving	-	Between outer rails only. For 8 Brit. Pen. Mac.
Surfacing	-	

Notes: - Charged to Reconstruction.

Work done by other departments. Architects Dept. - 2 Cattle pits & fencing etc. Charged direct to this W.O.

JOB. EASTERN RD. RECONSTRUCTION W.O. No. 20517

From Dorcas St. to Park St.

Estimate £ 9250.2.0 Cost £ 12,197.5.10

Cost per 100' of S.T. £ 455 Cost per mile of £

Length 2680' of S.T.

Work commenced 24.2.47 Work completed 31.10.47

Date of 1st trip Date of 1st service

Traffic conditions Under Traffic.

C's. Lab. & Cart. £ 8358.3.10 Material £ 2275.4.11

Cost. Lab. & Cart. 68.5% Material 18.6%

Percentage Overhead 58% Labour 15% C Engineer H.H. Bell

Particulars

	Existing	New
Drain	4" Gutter tiles to Chroudar St. subway	New type "C" in part down track, balance existing retained & relaid where necessary.
Ashes	Average 3" thickness	3 1/2" thickness.
Foundation	7" ballast under sleepers.	7" New of S.H. metal under sleepers.
Sleepers	8" x 9" x 4 1/2" heavy	Str. track - New 8" heavy I.B. Sleepers. Curves - New 8" sawn jarrah.
Stringers	10 1/2" x 2 1/2" Jarrah.	Existing stringers retained.
Rails	90 lb.	Straight - existing rails retained (90 lbs)
Joints	Fishplates, etc. welding, Side plates.	Curves - 96 lb and 102 lb. Straight track - existing joints retained. Curves - Hermit Fusion.
Fastenings	Dogspikes	
Painting	Tar. Pen. Mac.	Woodblocks sealed with cut bark and tappings. Bit. pen. macedam.
Surfacing	Tar & Tappings.	

45112	FLINDERS ST.	Xover Renewal - partial.	11.
3688	"	" Xover Installation	12
45842	FOOTSCRAY DEPÔT	Resurfacing etc.	13
45181	Flinders St - Swanston Xing	Main Work	14
45182	"	" " Surfacing	15
45194.	FLINDERS ST WELLINGTON RD	Re-railing CURVED SPRINGS	16

FLINDERS ST. WEST of SWANSTON ST. 1/310

JOB: Partial Renewal of Crossover. W.O. No 45112.

From _____ to _____
Estimate £ 280. Cost £ 280.2.9.
Cost per 100' of £ _____ Cost per mile of £ _____
Length _____ of _____

Work commenced ✓ Work completed February, 1938.
Date of trial trip _____ Date of 1st. service _____

Traffic conditions _____
Cost, Lab. & Cart. £ 99.16.1 ^{+O.H.} Material £ 185.6.8
Cost, Lab. & Cart. 33.9% ^{+O.H.} Material 66.1%
Percentage Overhead 52 on Lab. Engineer H.H. Bell.

Particulars

	<u>W.O. 1532</u>	<u>2.8.27</u>	
	<u>Existing</u>		<u>New</u>
Drain	6" Conversion Type	Existing	Existing
Ashes	Av. 3" thickness	"	"
Foundation	8" R.F. Concrete under sleepers	"	"
Sleepers	7'6" x 9" x 4 1/2" sawn & xored timbers	"	"
Stringers			
Rails	80 Lb (801) with guard rail & plate	New 80 Lb. switch, make, and 1 in 5 crossing.	
Fastenings	Coach screws, clips	Balance of xorer existing	Mostly existing
Paving	5" W.B.	"	"
Surfacing	Bitumen, Toppings	Emulsion and sand.	

CHARGE: Reconstruction.

The special work cost £12.17.5
Other material, less credits, 22.9.3.

FLINDERS ST. E. of Market St.

1/310.

JOB Installation of Crossover W.O. No. 3688

From

to

Estimate £ 840.5.11

Cost £ 780.12.5

Cost per 100' of £

Cost per mile of £

Length of

Work commenced ✓

Work completed 15.2.37.

Date of trial trip

Date of 1st. service

Traffic conditions Night work.

Cost. Lab. & Cart. ^{+A.H.} £ 206.16.6 Material £ 573.15.11Cost. Lab. & Cart. ^{+D.H.} % Material %

Percentage Overhead 53% on Lab Engineer H.H. Bell

Particulars

	Existing	New
Drain	NO. 1532 (1927) 6" Conversion	No Change
Asnes	Av. 3" thickness	"
Foundation	8" R. Concrete	"
Sleepers	9" x 4 1/2"	Timbers in position.
Joints	F.P. elec. weld.	
Nails	80 lb (801)	80 lb Crossover assembled at Dorcas St of a cost of £519.19.0
Fastenings	Coachscrews & Clips	Same
Paving	5" W.B.	"
Surfacing	Bitumen-toppings	"

CHARGE: Capital.

Sleepers for Crossover were placed in position during Conversion in 1927. Chainage 5867-5954.

FOOTSCRAY DEPOTJOB Removing Plantation; Resurfacing etc. W.O. No. 7/141 48892From 40Estimate £ 304 (see file) Cost £ 285-12-11.Cost per 100' of — £ — Cost per mile of — £ —Length — of —Work commenced 8-8-40 Work completed 21-8-40Date of trial run — Date of 1st service —Traffic conditions —Lab. & Cart. ^{+OH} £ 183-5-8 Material £ 102-7-3Lab. & Cart. 64.2% Material 35.8%Percentage Overhead 67 Lab-sal. Engineer H.H. Bell.
1 3/4 H. Cart.Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Rails		
Joints		
Formings		
Paving		
Surfacing		

Notes:—

SEE OVER. CHARGED TO:- Building and
Lands Reconstruction.

The removal of the Plantations at each side of the entrance to the yard and paving for storage of buses.

DETAILS: Area excavated for an average Depth of 15" — an average depth of 6" of garden soil was carted to Stn. Melb. and credited to the job.

The Excavation was remade with 3" of ashes and 7" of metal, penetrated with bitumen & surfaced. The existing asphalt (111 sq. yds.) was patched and top-dressed

Total Area re-made was 470 sq. yds.

	<u>COST</u>	<u>ESTIMATE.</u>
<u>LABOUR</u>	74. 17. 1	} 134
<u>CARTAGE</u>	37. 9. 10	
<u>O'HEAD</u> (67% on Lab. & some salaries.)	51. 18. 4	
<u>SALARIES</u>	13. 16. 0	
<u>O'HEAD, H. cartage</u>	5. 4. 5	
<u>MATERIAL</u>	102. 7. 3	107
	<u>£ 285. 12. 11</u>	<u>£ 304</u> (see file)

Pub. Acc. 1/410.

Flinders St. - Swanston St

JOB. Crossing Main Work W.O. No. 45181

From to

Estimate £2059-10-9 Cost £ 3018-12-7

Cost per 100' of S.T. £3018-12-7 Cost per mile of £

Length 100' of S.T.

Work commenced 31-5-43 Work completed 13-7-43

Date of trial trip Date of 1st. service

Traffic conditions Under traffic. Done by Night Shift.

Cost. Lab. & Cart. £2332-19-9 Material £ 685-12-10

Cost. Lab. & Cart. 77.3 % Material 22.7 %

Percentage Overhead 62% Labour Engineer J.J.F./H.O.C.
15% Cartage

Particulars.

	Existing	New (See P9218)
Drain	4" A.G. Pipes.	Tile drain layed on concrete slab under Flinders St. tracks.
Sleepers	Av3" to 4" thickness	Nil.
Foundation	9 1/2" conc. with rails	Existing rail, reinforced concrete Slab. Top 1 1/2" below rail level.
Stringers	10" x 5"	8'0" x 9" x 4 1/2" Sawn Red Gum on (Flinders St) 3 3/8" Pre-mixed Bitumen packing 12" x 6" Sawn Red Gum (Swanston St) on 2 3/8" Pre-mixed Bitumen Packing.
Walls	102 lb thermit weld	N.E. and W. new 80 lb (801) South new 96 lb. (Closures)
Joints	thermit	Fishplates on crossing
Fastenings	Fang washer, bolts, bevel washers.	thermits on Runouts. Bolts, Clips + Lock + Flat washers.
Paving	Cement Pen. metal rendering 4 1/2" W.Bs.	Xing Bit. Pen. Mac. Runouts - rerendered and Blocked.
Surfacing		Bitumen + toppings.

Notes :- 1/2 MS. plates on all timbers on 4" x 4" x 3/4" cushions. 1/2 MS. plates on all timbers.

Charged to Reconstruction.

Special Work. East Manganese Crossing ex.

Flinders St + Market St - Reconditioned. (over page).

Work done by other Departments over page.

<u>Stores</u>	<u>Supply of Crossing</u>
P2777	Labour £215-9-3
	Overhead 79-11-1
	Material 389-11-2
	<u>Total</u> £684-11-6

<u>Distribution</u>	<u>Electric lighting</u>
P874	Labour £13-5-0
	Overhead 7-5-9
	Material 16-15-5
	<u>Total</u> £37-6-2

Special Work Reconditioning of Crossings as follows:-
 Cable tracks on crossing widened from 9'0" to 11'0" centres by inserting four-2'0" Cast Manganese Steel closures.
 At intersections of cable slots & electric rails new Cast Manganese Steel blocks were provided.
 See P9218.

Flinders St - Swanston St

JOB. Crossing Surfacing W.O. No. 45182

From to

Estimate £ 24-0-0 Cost £ ———

Cost per 100' of £ Cost per mile of £

Length of

Work commenced Work completed

Date of trial trip Date of 1st. service

Traffic conditions

G-st. Lab. & Cart. £ Material £

Cost. Lab. & Cart. % Material %

Percentage Overhead Engineer

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Rails		
Joints		
Fastenings		
Paving		
Surfacing		

WORK NOT
CARRIED OUT.

Notes :—

W.O. Closed 12-6-45

FLINDERS ST WELLINGTON PDE 1/320

JOB. Rerailing Curves at Spring S.W.O. No. 215194.
Outer Track 10W. W.T.P. 10' E. E.T.P.
From Inner Track 10W. W.T.P. 10' E. E.T.P.

Estimate £ 3245.0.0 Cost £ 2046.3.10
Cost per 100' of S. Track £ 524.7. Cost per mile of £

Length 195' of Double Track.

Work commenced 26.4.45 Work completed 9.6.45.

Date of trial trip Date of 1st service

Traffic conditions Under Traffic

Cost. Lab. & Cart. £ 1466.11.10 Material £ 579.12.10

Cost. Lab. & Cart. 71.5% Material 28.5%

Percentage Overhead 58% Lab 15% 4 C. Engineer H. V. BULL

Particulars

	Existing	New
Drain	6" Conversion	Existing Retained.
Ashes	As 3" Thicknes	" "
Foundation	8" Rein. Concrete	" "
Sleepers	7.6" x 9 x 4 1/2 ^{Sawn} Jarrah	" "
RAILS	80lb (60) Guard rail ^{plate}	New 80lb (60) & Guard rail.
Joints	Fishplates Hot Weld	Thermit Fusion Welds.
Fastenings	Coch Screws & Chas. Knives, Coch Screws, Clips, Dogspikes.	
Paving	5" x 3" rocks on Sleepers	Retained plus S.R. 5" from 10000 S.R.
Surfacing	Bitumen of Toppings.	Top dressed with hot cut back Bitumen of Toppings.

Notes: — Changed to Reconstruction.

Actual Cost Includes.

Distribution Department

Temporary Lighting £ 21.19.7

Stores Department

Supply & Bend Rails. £ 461.17.1

Drawings Details of Curves P2647 P.T.O

STORES DEPARTMENT

Supply of Bend rails

Labour 81. 12. 6

O'Head 20. 8. 2

Material 359. 16. 5

461. 17. 1

DISTRIBUTION DEPARTMENT

Temp Lights

Labour 11. 11. 9.

O'Head 6. 16. 5

Material 3. 11. 5

21. 19. 7.

45135	GLENHUNTLY RD. Broadway Rly/Twy	16.
	xing renewal	
45118	GILBERT RD. May St-Regent St. Reconst ⁿ	17.
45123	GLENHUNTLY RD. Hawthorn R-Manchester Gv.	
	In Previous Book.	
	Surfacing	18.
45124	GLENHUNTLY RD. Nth Track Reconstruction	19, 19 ^A
45125	" " " Surfacing	20.
45138	GILBERT R. Bell St.-Murray St. Reconstruction	21
45139	" " " Surfacing	22
45144	GLENFERRIE RD. Fitzwilliams-Caltham R. Reconst ⁿ	23
45145	" " " Surfacing	24
45146	Gilbert Rd. Murray Rd.-May St. Reconst ⁿ	25
45147	" " " Surfacing	26.
45156	GLENFERRIE RD. Gardiner Rd-Rly. Reconstruct ⁿ	27
45157	" " " Surfacing	28.
45163	" Kenyanq Rly. Xing. Reconstruction	29
45164	" " " " Surfacing	30
45165	Gishorne St. Victoria Pde. Curves Renewal	31
25113	GLENHUNTLY DEPÔT:-Installing new track	32
25120	GORDON ST FOOTSCRAY " "	33
25121	GORDON ST JUNC BALLARAT RD INSTALLATION	34
25122	" " SURFACING W.O.s. 25120-21	35
25306	" " Footscray Alter to Mains etc	36
45185	Gamon St " Charles St-Browning St. Recon. E.T.	37
P.O.1241	Gardiner Rly Xing, Lifting etc. Burke Rd	See B.18.
P.O.1296.	Gertrude St. Brunswick St. Removal of G/E Xing	See B.20
45197.	GISBORNE ST. CATHEDRAL PL. Residing Curves.	38
26505	Glenhuntly Rly/Twy Crossing Renewal	39.
JD1100	" RD Crossover E. of Elsternwick Gates	40

20009	Glendunty Rd. Duplication	41
20520	Glendunty Rd. Reconstruction	42

JOB. Glenhuntly-Broadway W.O. No. 45135
 From Rly Tery Xing Renewal.

Estimate £ 2570 Cost £ 2819-16-4 exc. Surfacing

Cost per 100' of — £ — Cost per mile of — £ —

Length 250' of D.T. including 39' 9" Crossing

Work commenced 18 1-29 Work completed 22-2-39 Main Work.
 Surfacing still to do

Date of trial trip Date of 1st service

Traffic conditions

Cost. Lab. & Cart. £ 1381-5-3 Material £ 1438-11-1

Cost. Lab. & Cart. 49% Material 51%

Percentage Overhead 60 on Lab. Engineer H.H. Pell

15 Hire Cart.

J.I.F.
A.R.S.

Particulars

	Existing	New
Drain		Net. along M.M.T.B. tracks
Ashes		6" EW. under Rly. track over xing
Foundation		East approach ?
Sleepers		West " average 2" thick.
Stringers		Crossing " 3 "
		Approaches: 4" Ballast.
		Crossing: Slab 28' x 28' 9" x 11 1/2"
		9 x 4 1/2 Timbers 9 sleepers
		Run N.Y.S.
		90% existing on approaches but
		102 lb for 11's each side of xing
		Franking see over.
		Fusion Welded Thermit in G'ly Rd.
		(both new and existing.)
		Bit Pen Mac
		To be done under P.O. (see over)
		1/2 Merrimix Premixed Material

Notes:— CHARGE: Reconstruction.

Limits: In Glenhuntly Rd. 10200 - 10450 - 250' D.T.

Actual xing: Width 20'; Length (along G. Rd) = 39' 9"

Bal. of length. = approaches each side.

Sleepers at approaches: Existing on N.E. leg bet. 10200 - 10262
 Respiked with existing dogs in good condition
 New sleepers and dogs over balance of tracks

Work done by M.M.T.B. on Railway approaches.

Lifting and Packing N.E. 109 78' from slab.

N.W. " 131' " "

Boxing in being penetrated with 60/70 bitumen sealed with toppings (& some 1/2" screenings) with bitumen.

For above work on Rly. tracks. the railways supplied the metal, and M.M.T.B. the screenings, toppings, bitumen, and labour, also Roller etc.

South West track similarly dealt with 139'

" East " " " 119'

Formation at Xing ishad, consisting of silt dredged from river

Crossing: 102th. Davies & Baird. ^{Cor. 1069} See P. 7263.

7261 Layout

SURFACING: Area done 430 sq. Yds.

P.O. 1023.

	<u>Cost</u>	<u>Per 100 S. Yds</u>
<u>Lab. & O.H.</u>	18-11-1	4-3-0
<u>Cartage</u>	3-0-0	14-0
<u>Material: Merrimix 14.1 tons</u>	25-8-6	5-18-3 (3.20 tons)
" Emulsion 77 galls	2-14-6	12-8 (18 galls)
" Miscellaneous	0-14-0	3-9
	<u>45-10-1</u>	<u>10-11-8</u>

ESTIMATE: 98 sq Yds 3/8" Damman Asphalt at

£29-11-10 per 100 s. yds = £29.

1st Premixed material £6-10-0 per 100 s. yds.

= £6-7-6.

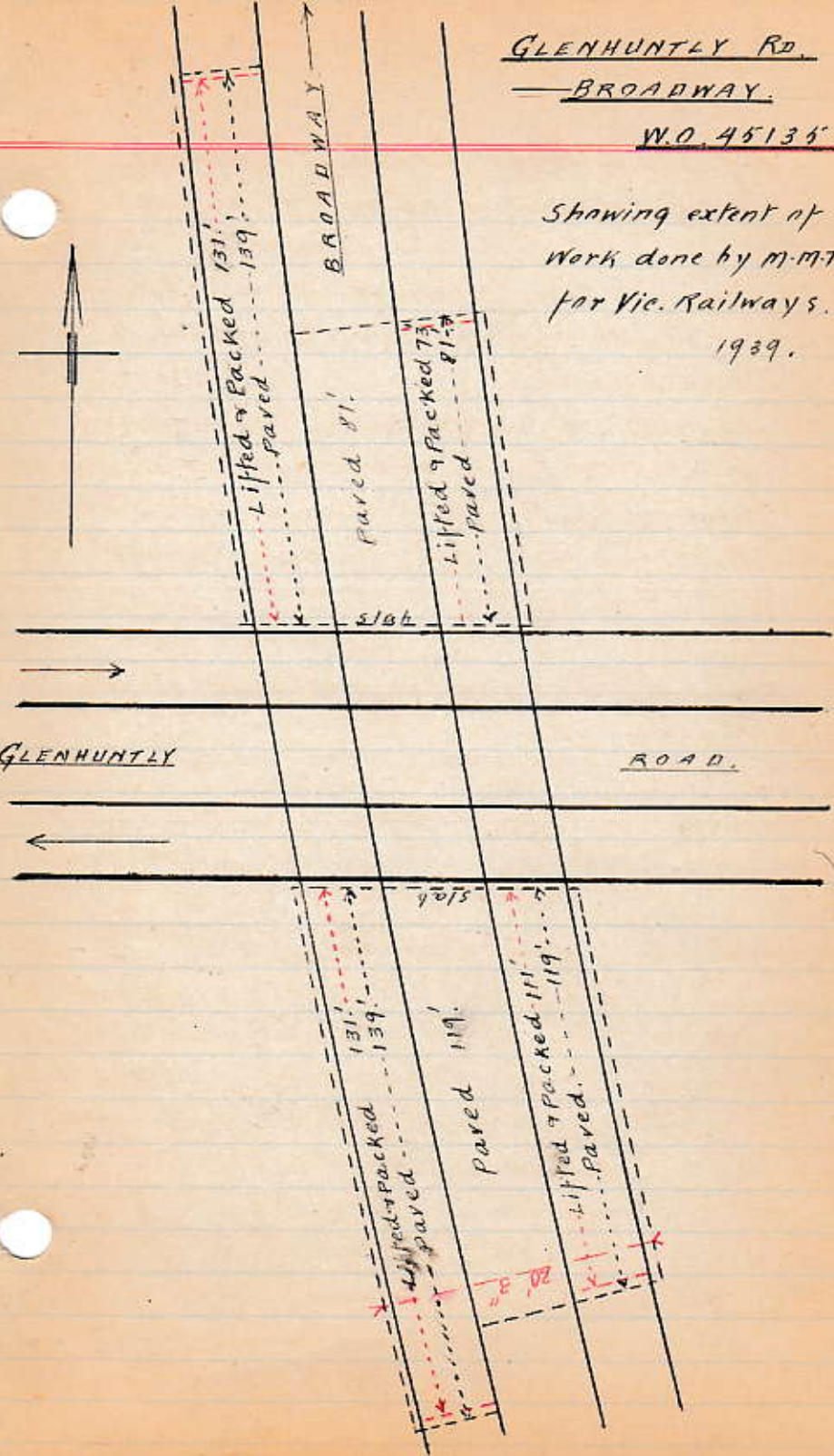
GLENHUNTLY RD.

BROADWAY.

W.O. 45135

Showing extent of
work done by M.M.T.B.
for Vic. Railways.

1939.



5/140.

JOB GILBERT RD. Reconstruction No. 45118From May St. inc. Tinto to Regent St. (Terminus)Estimate £ 2970 ^(2961-16-0.) Cost £ 3,203.2.4.Cost per 100' of S.T. £ 250.16.0 Cost per mile of S.T. £ 13,244.Length 1276' of S.T. + Turnout 105' = 1381' S.T.Work commenced 16.4.38 Work completed 25.6.38 main
14.2.39 surfacing

Date of trial trip _____ Date of 1st service _____

Traffic conditions UsualCost. Lab. & Cart. ^{+O.H.} £ 2084-6-6 Material £ 1118.15.10Cost. Lab. & Cart. ^{+O.H.} 65% Material 35%Percentage Overhead 52% To 30.6.38 engineer H.A. Bell
6.7. after J.F. ARS.
15 Hire Chge.Particulars

	<u>Existing</u> <u>17.6.37</u>	<u>New</u>
<u>Drain</u>	<u>3" A.G. Pipes</u>	<u>4" A.G. on concrete.</u>
<u>Ashes</u>	<u>Av. 3" thickness</u>	<u>Av. 3" in thickness.</u>
<u>Foundation</u>	<u>6" Ballast under sleepers</u>	<u>7" metal under sleepers.</u>
<u>Sleepers</u>	<u>7' 6" x 7 1/2" x 4 1/2" down.</u>	<u>New where necessary.</u>
<u>Stringers</u>		
<u>Rails</u>	<u>80 lb. 0017 G.P.</u>	<u>Existing reconditioned.</u> <u>with 480' New.?</u>
<u>Joints</u>	<u>?</u>	<u>Thermit welded: 73 at 28/6.</u>
<u>Fastenings</u>	<u>Dogspikes</u>	<u>Dogspikes</u>
<u>Paving</u>	<u>Tar Pen Mac. origin ally. Probably</u>	<u>Bit. Pen. Mac.</u>
<u>Surfacing</u>	<u>Bit. Pen Mac 1932 when track was lifted (no. 2937)</u>	<u>1/2" Merrimix; 2.08 Tons</u> <u>per 100 sq. yds.</u>

Notes :- CHARGE: Reconstruction.Limits :- 8750 - 10026 + Turnout 105'

3/230.

JOB GLENHUNTLY RD Reconstruction, D. No. 45124

From Hawthorn Rd to Manchester Grave.

Estimate £ 8736

Cost £ 7841-11-4

Cost per 100' of S.T. £ 130-7-0 Cost per mile of S.T. £ 7304-17-7.

Length 5667' of S.T. + Centre.

Work commenced 7-6-38 Work completed 2-10-38.

Date of trial trip Date of 1st. service

Traffic conditions As Usual

Cost. Lab. & Cart. £ 5627-7-6 Material £ 2214-3-10.

Cost. Lab. & Cart. 71.8% Material 28.2%

Percentage Overhead 52 To 30-6-38 Engineer D. H. Eakins In 29-8-38
60 After H. H. Bell Since
15 Hire Chge.Particulars

	W.O.S. 844 1921 Existing	New
Drain	Haw. R-Laura S. 4" A.G. Balance: Type "A" Av. 3"	4" A.G. Pipes; 4150 new pipes ? Part evidently existing
Ashes	To Laura S. 6" metal Balance: 7"	Av. 3 1/2" in thickness.
Foundations	8' x 9' x 4 1/2" Hemn	7" metal under sleepers.
Sleepers		New Hemn. 8'; 941 Charged up. ? about 50% existing.
Stringers		
Joists	90 lb.	Existing 90 lb. - also charged up GREEN 298' WHITE 84' NEW 210'
Joints	F.P. Elec. weld.	Thermit Welded. 281 at 28/9.
Fastenings	Dogspikes	Dogspikes; 8844 charged up.
Paving	Tar. Mac.	Bit. pen. Mac.
Surfacing		See W.O. 45125.

CHARGE - Reconstruction.Notes: - LIMITS: - Chainage 1185 to 11852 N.T.

See 19A. for work done

Glenhuntingly Rd Reconstn Nth Track WO. 45124.

Work done as follows:

Full depth reconstruction $6280' - 6455' = 175'$
 $9910' - 10377' = 467'$
 $10740' - 10865' = 125'$
767'

Reconstn to top of ashes + drain renewal

$6455' - 7700' = 1245'$

Lifting plus drain renewal $7700' - 9910' = 2210'$

Lifting — $10377' - 10740' = 363'$
 $10865' - 11852' = 987'$
1350'

MS
28/7/40

5/230.

JOB GLENHUNTLY RD. Surfacing W.O. No. 45125
 From Hawthorn Rd. ^{NORTH TRACK CENTRE} to Manchester Grove.

Estimate £ 595 Cost £ 333 : 12 : 0

Cost per 100' of £ Cost per mile of £

Length 5667' of S.T. + Centre AREA DONE 7570 SA Yds.

Work commenced 20.2.39 Work completed 7.8.39.

Date of trial trip Date of 1st. service

Traffic conditions As Usual

Con. Lab. & Cart. ^{+OH.} £ 148.19.6 Material £ 189.12.6.

Cost. Lab. & Cart. ^{+OH.} 44.7 % Material 55.3 %

Percentage Overhead 12 Lab. Engineer D.H. Eakins to 29.8.38
 15 H. Carriage N.H. Bell from 29.8.38.

Particulars

	Existing	New
Drain		
Arch		
Foundation		
Stoppers		
Stringers		
Rails		
Joints		
Fastenings		
Paving		
Surfacing		1/2" seal coat of premixed asphalt.

CHARGE: Reconstruction } 1/8" Merrimix.

Notes: Materials: Cost Estimate.

Merrimix 90.65 Tons	£ 163.9.4	191 Tons	£ 329.9.6
Emulsion 419. Gall.	19.16.9		
Misc.	6.11.5		8.4.9
	£ 189.12.6		£ 337.14.5
Area surfaced	7570 S.Yds		7050 S.Yds
Total Cost per S.Yd.	11 ^d		1-6 1/2

5/140.

JOB GILBERT RD. Reconstruction W.O. No 45138.

From Bell St. to Murray Rd.

Estimate £ 8,687-12-0 Cost £ 8476-4-7.

Cost per 100' of S.T. £ 186-14-0 Cost per mile of S.T. £ 9857-15-0

Length 4540' of S.T.

Work commenced 6-3-39 Work completed 29-7-39

Date of trial trip Date of 1st service

Traffic conditions Usual

Cost. Lab. & Cart. ^{+O.H.} £ 6,298-4-3 " " " " £ 2,178-0-4

Cost. Lab. & Cart. ^{+O.H.} 74.5 % " " " " % 25.7

Percentage Overhead 60 Lab. 10 H.H. Bell.
15 Cart.

Particulars

	Existing	New <u>£ 8479.</u>
Drain	"A" Type mainly	Mainly "A" Type: renovated.
Ches	4x5"	also replacing existing AG pipes
Foundation	7" metal	7" metal under sleepers:
Timbers	8'x9'x4 1/2" Hewn	Partly existing - 30%; New 70%
Wires	{ W.T. 90lb. Recon. }	275' of New were Sawn; all others Hewn.
Wires	{ E.T. 80lb. 801. }	Existing; reconditioned (mainly)
Joints	F.P. Elec. Weld.	284'-90lb; 403'-80 lb. Both S.H.
Fastenings	Dogs-pikes	Charged up
Driving	Bit Pen Mac	Thermit fusion where joints renewed.
Surfacing		Dogs-pikes
		Bit. Pen. Mac
		To be done under W.O. 45139.

CHARGE: Reconstruction.

Chainage: East Track 4950-7200.

West " 4910-7200

Total Length 4540' S.T.

45132 (CONTD)

NOTES from Gangers Field Book

NATURE of SUBSOIL:-

West Track :- 4910 - 5400. Soft Yellow Clay.
5400 - 7200. Yellow Clay

East Track :- 7204 - 6900. " "
6900 - 6000. Grey sandy loam.
6000 - 4950. Yellow Clay.

SLEEPERS:

E.T. S.H. Reused 4950 - 5213. } 269.
6553 - 6817. }

New B' Class 5215 - 6551. } 868
(Iron Bark) 6819 - 7200. }

W.T. New B' Class (Iron Bark) Hevn 4910 - 6099 = 500

S.H. Hevn Reused 6099 - 6561 = 231

New Sawn (R.G) 20/B class, Bal "A". 6561 - 7200 = 215

TOTAL 2143 ; S.H. 30% of Existing re-used
equal to 25% of Total.

Marks on Rails were obliterated.

JOB GILBERT RA. Surfacing 45138 W.O. No. 45139.

From Bell St. to Murray Rd.

Estimate £ 230. Cost £ 304.3.4 (Exc. Margins)

Cost per 100 sq. Yds £ 8.0.3 Cost per mile of ~~£~~

AREA of 3797 sq. Yds.

Work commenced 21.11.39 Work completed 27.11.39.

Date of trial trip _____ Date of 1st. service _____

Traffic conditions USUAL

Cost. Lab. & Cart. £125.16.0 Material £178.7.4

Cost. Lab. & Cart. 41.5% Material 58.5%

Percentage Overhead _____ Engineer H.H. Bell

Particulars

	Existing	New
Drain		
Acres		
Foundation		
Stickers		
Stringers		
Rails		
Joints		
Fastenings		
Paving		
Surfacing		1/8 Merrimix Premixed Material

CHARGE: Reconstruction.

Notes: — ESTIMATE: — 4600 sq Yds. (inc. margins) at £5 per 100 sq Yds. = £230.

Margins not yet done. Council reconstructing roadway.

GLENFERRIE RD.

4/310.

JOB. Reconstruction

W.O. No. 45144

From Fitzwilliam St. to Cotham Rd.

Estimate £ 7783.18.0 Cost £ 7199.9.7.

Cost per 100' of S.T. £ 219.6.0 Cost per mile of S.T. 11,579.

Length 3280' of S.T. widened to 11' centres.

Work commenced 18.6.39. Work completed 16.9.39

Date of trial trip. Date of 1st. service

Traffic conditions Usual

Cost. Lab. & Cart. ^{+O.H.} £4679.9.7 Material £ 2514.15.1.Cost. Lab. & Cart. ^{+O.H.} 66.1%. Material 34.9%Percentage Overhead 60 Lab. Engineer H.H. Bell ^{J.P. R's.}
15 Cart.Particulars

	Existing	New P. 8433A.
Drain	Nil; Brick bats in centre of 4'; Spalls also.	4" A.G. Pipes
Ches	Nil	Av. 3 1/2" in thickness.
Foundation	Metal under sleepers only 3" in places	7" metal under sleepers.
Sleepers	Badly decayed Tas. Blue Gum 7-6	New Sawn 1359/8'; 51/7-6'; R. Gum
Timbers	Ironbark 2 8x9x5	S.H. Hewn: 25 I. Bark-E.T. - 3715-3767. Also new timbers - sleepers on Xover.
Wigs	All hewn. 90 Lb. 60'	Existing; reconditioned in situ.
Welds	F.P. elec. weld. Some Old Thermit Welds (app. 18%)	26 Thermit welded; Bal. existing F.P. and Old welds.
Fastenings	Dogs spikes	Dogs spikes.
Grading	Tar on Pen. Mac. Bit. Pen. Mac.	
Surfacing	Bit.	To be done under W.O. 45145.

Notes: — CHARGE: Reconstruction.CHAINAGE: 3710' - 5350' inc. X over.CROSSOVER: - Details of Sp. Wk. in Special Work Book.

W.O. 451AA (Contd)

NATURE of SUBSOIL.

<u>East Track:</u>	3700 - 3850.	Yellow Clay.
	3850 - 3950.	Reef Formation
	3950 - 4000.	Yellow Clay
	4000 - 4400.	Sandy loam
	4400 - 5350.	Yellow Clay.
<u>West Track:</u>	3713 - 3850.	Not stated sandy loam
	3850 - 3950.	Reef
	3950 - 4200	Not stated
	4500 - 5350	Clay.

Variations from Track design - Nil.

Old Thermite Welds were in good condition.

Existing 90 lb. rails - 60'

GLENFERRIE RD.

4/810.

JOB. Surfacing

W.O. No. 45,145

From Fitzwilliam St. to Cotham Rd.

Estimate £ 195. Cost £ 189.17.4. (Exc. Margins)

Cost per 100^{sq} Sq. Yds. £ 6.18.11 Cost per mile of ———

AREA of 2733 Sq. Yds.

Work commenced 15.12.39 Work completed 19.12.39.

Date of trial trip ——— Date of 1st. service ———

Traffic conditions Usual

Cost. Lab. & Cart. ^{+O.H.} £ 117.2.3 Material £ 72.15.1Cost. Lab. & Cart. ^{+O.H.} 62 % Material 38 %

Percentage Overhead

Engineer H.H. Bell

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Rails		
Joints		
Fastenings		
Paving		
Surfacing		

1/2" Merrimix Premixed Material.

Notes: — Margins not yet done; Council reconstructing roadway.

ESTIMATE: 3345 Sq. Yds. (inc. margins) £ 5.16.7 p. 100 Sq. Yds.

5/140.

JOB GILBERT RD Reconstruction W.O. No. 45146

From Murray Rd to May St. BOTH TRACKS.

Estimate £ 5885.12.9. Cost £ 5840.7.1.

Cost per 100' of S.T. £ 158.4.0 Cost per mile of S.T. £ 9.937.

Length 3100' of S.T.

Work commenced 19.7.39 Work completed 14.10.39.

Date of trial trip Date of 1st service

Traffic conditions Usual

Cost. Lab. & Cart. £4244.18.5 Material £ 1595.8.8

Cost. Lab. & Cart. 72.7% Material 27.3%

Percentage Overhead: 60% Lab., Engineer H.H. Bell
15% Cart.Particulars

	Existing	New <u>P. 8479.</u>
Drain	4" Type "A".	Existing drains recondition'd.
Asnes	3" to 3 1/2"	Av. 3 1/2" in thickness
Foundation	7" metal	7" to 13 1/2" metal; section of tracks raised.
Sleepers	8' newn.	New 8' sawn mainly (Red Gum) on W.T. 8550-8641, 7'-6" Red Gum.
Stringers		
Trails	{ E.T. 80 Lb (801) W.T. 90 Lb.	Existing; reconditioned.
Joints	F.P. elec. welded 10" sole plates on E.T.	Thermit fusion - 94 joints - Balance existing F.P.
Fastenings	Dogspikes	Dogspikes.
Paving	Bit. Pen. Mac.	Bit. Pen. Mac.
Surfacing		To be done under W.O. 45147.

CHARGE : Reconstruction.Notes :- Chainage Limits : E.T. 7200 - 8765.

W.T. 7200 - 8735.

4/11/11

DR. GILBERT RD. SURFACING

W.D. No. 45197 in Play St. both Tracks

Estimate \$ 165 Cost \$ 150 - H. 8. (Exc Margins)

Cost per 100' 1 1/2 Sa. Yds \$ 5.0 - 5 (Exc Net mtl of

1 1/2' 185.0' of D.T. 2594 Sa. Yds.

Work commenced 27-11-39 Work completed 29-11-39

Date of completion _____ Date of final invoice _____

1 1/2' in conditions Usual

Exc. 1 1/2' & Cart \$ 50.15-2 Material \$ 19.9-6

Exc. 1 1/2' & Cart 39% Material 61%

Engineer H. Bell / G. H. S.

Overhaul

Drain

Asph

Foundation

Surveys

Streets

Dams

Joints

Openings

Finishing

Surfacing

Exc. 1 1/2' Merimix "Premixed Material"

Exc. 1 1/2' Merimix "Premixed Material"

Exc. 1 1/2' Merimix "Premixed Material"

Exc. 1 1/2' Merimix "Premixed Material"

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Exc. 1 1/2' Merimix "Premixed Material"

Exc. 1 1/2' Merimix "Premixed Material"

GLENFERRIE RD RD

4/320.

JOB. Reconstruction of Both Tracks W.O. No. 45156From Gardiner Rd (Ch 7800) to Kaoyung Railway (Ch 6300)

Estimate £7,008.0.0. Cost £6,836.18.11.

(see note below.)

Cost per 100' of S.T. £227.18.0 Cost per mile of S.T. £12,053.

Length 3,000 Ft. of S.T.

Work commenced 29.7.40 Work completed 5.5.41. See note.

Date of trial trip _____ Date of 1st service _____

Traffic conditions Usual.

Cost. Lab. & Cart. £4,727.9.4 Material £1,909.9.7.

Cost. Lab. & Cart. 72.07% Material 27.93%

Percentage Overhead 67 Engineer H.H. Bell.
15 H.C.Particulars

	Existing	New
Drain	Brickbats.	Type B7C4" A.G. Pipes.
Ashes		E.T. on Concl. W.T. on Sec. or ashes. 3" to 4" of Forkings and some ashes. (100 c.p.)
Foundation	Metal under sleepers	7" metal under sleepers.
Sleepers	Hewn. 7'6". Tas. Blue gum. Same replacement of 8' R. Gum Box.	New 8' Hewn 65k. E.T. ^{SAWED} 7885-7770.
Stringers		New 8' Sawm 64k. W.T. less some in E.T.
Rails	90 Lb. (60')	Existing 90 Lb. with some S.H. renewals - 70'.
Joints	F.P. der weld. old type Thermit.	New Joints Thermit welded. Others as existing.
Fastenings	Doqspikes	Doqspikes
Paving	Probably Tar	Bit. Pen. Mac. - Machine Sprayed.
Surfacing	Pen. Mac. originally	See W.O. 45157.

CHARGE:- Reconstruction

Notes :- Work commenced 29.7.40 Closed 22.10.40.

West Track then completed.

Re-commenced 23.1.41 Closed 1.5.41.

Re-opened 27.3.41 Completed 5.5.41.ESTIMATE: Originally was £6622.Extension 375 TOTAL £7002.

W. O. 45156. (Contd.)

GLENFERRIE RD. Gardiner Rd. to Kooyong Rly.
6300 to 7000.

EAST TRACK: 23.1.41 To 5.5.41

(Closed 1.3.41 to 27.3.41)

From Gunger's Field Book N° 2.

Formation: Consists of Filling of soft stone
and Clay for whole length of Job.

S.S. Drain: - 4" A.G. Pipes on Concrete.
No Drain over bridge.

Ashes: - No ashes used on any portion this track.
Forkings used in place, rammed with
pneumatic rammer.

Sleepers: 8' Hewn; some sawn 7684' to 7770' (85')

Ballast: S.H. Metal, the top 3" new metal.

Paving: metal sprayed with 60/70 bitumen.
1/2" oiled screenings spread & rolled, a
further spray of 60/70 bitumen covered
with 1/8" toppings.

The same remarks on Paving also apply
to West Track.

6.5.42

Not started ~~20-7-41~~GLENFERRIE RD.

A/320.

JOB. Surfacing work done under W.O. 45156 W.O. No. 45157

From Gardiner Rd. to Hooyong Rd.

20.2.40.

Estimate £ 212

Cost £

Cost per 100' of £

Cost per mile of £

Length of

Work commenced

Work completed

Date of trial trip

Date of 1st service

Traffic conditions

Cost. Lub. & Cart. £

Material £

Cost. Lub. & Cart. %

Material %

Percentage Overhead

England

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Stiffness		
Stringers		
Balls		
Gravel		
Footings		
Paving		
surfacing		

Note. The only work carried out & charged to this W.O. was top dressing of the margins by Malvern City Council.

275 sq. yds @ 1/- = £13-15-0

W.O. closed 15/4/42.

GLENFERRIE RD-KOBYONG RLY. CROSSING.

4/320.

108.

Reconstruction.

W.O. No. 45163.

E.T. From Chainage 6150 } 6300 } 347' S.T.
 W.T. " " " 1667 } 8300 }
 Includes estimate £ 967 M.M.T.B. Cost £ 2626.7.10.
 Surfacing 2634 Total + 450 addition = £3084 (see File)
 Cost per 100' of £ Cost per mile of

Length of

Work commenced 8.7.40 Work completed 4.9.40

Date of trial trip Date of 1st. service

Traffic conditions

Est. Lab. & Carl. £1096.10.3 Material £ 373-18-10.

Est. Lab. & Carl. 85.8% Material 14.2%

Inventor Overhead 67. on Lab. Engineer H.H. Bell.
15. on H. Carl.Particulars For Approaches to Crossing.

	Existing	New
Formation:		Yellow Clay.
Drain	1" A.G.	Type "B"
Sleepers	Yes, ? thickness	3 1/2" in thickness
Foundation	Ballast, ? depth	7" metal under sleepers.
Sleepers	7'6" x 9' x 4 1/2" Hewn	New 8' sawn, Jarrah & R. Gum.
Rails	90 Lbs.	5. of Xing. New 102 lb. 23' long N. " " " W.T. 26.6 " " " " " E.T. 18.6 "
Fastenings	Thermit old Type	Thermit Fusion where renewed
Doqspikes	Doqspikes	Doqspikes.
Bit. Mac. Sth. T	Bit. Mac. Sth. T	Bit. Pen. Mac.
Tar Mac. Nth. T	Tar Mac. Nth. T	
Bitumen	Bitumen	See W.O. 45164.

Notes: Estimate made up as follows: Per Way £ 890

Distribution 50

Catch Points renewed each side of Xing. }
 S.H. Switches. }
 Surfacing 27
 Total M.M.T.B. 967
 Railways 1667

TOTAL £ 2634

Addition 480

Total 3114

P.T.O.

W. O. 45163 (CONT'D.)

NOTES from Gangers Field book.

Existing Pit under Crossing repaired & strengthened & timber decking on southern portion of pit was renewed by Rly. Dept. Manganese Steel Crossing made by Commonwealth Steel Coy. 14' 6" x 9" x 8" Timbers running N. 75 - intermediate Rly. sleepers 9' x 14" x 6" with $\frac{3}{4}$ " bearing plates, bolts etc. installed by Rly. Dept. Crossing installed on night of 13.7.40. The Board packed the Crossing with premixed $1\frac{1}{2}$ " Bit. metal approx. 6" thick, and boxed in and paved the area of Crossing.

RAILS were serviceable 90 Lbs (before reconstruction)
These retained N. 75 of 102 Lbs. new closures.

H. CROSSING: Badly Broken

CATCH POINTS: Worn & Cracked; replaced by good S.H.

TIMBERS under Crossing: - Badly cut into.

GLENFERRIE RD-KOONONG RLY. XING
 '08. Surfacing 45163 W.O. No. 4/320.
 om to 45164.

Estimate £ 27-0-0. Cost £
 Cost per 100' of £ Cost per mile of
 Length of
 Work commenced Work completed
 Date of trial trip. Date of 1st. service
 Traffic conditions
 Est. Lab. & Cart. £ Material £
 Est. Lab. & Cart. % Material %
 Percentage Overhead Engineer

Particulars

	Existing	New
Drain		
Isles		
Foundation		
Sleepers		
Stringers		
Ballast		
Gravel		
Excavation		

WORK NOT
 CARRIED
 OUT.

W.O. closed 15/9/42.

GISBORNE ST. VICTORIA PDE. CURVES

1/110.

JOB. Renewals W.O. No. 45185.

From App. S.T.P. (Gisborne) App NE. TP in Victoria Pde.

Estimate £ 715.19.0 Cost £ 705.16.6.

Cost per 100' of S.T. £ 256.13.4 Cost per mile of S.T. £ 13551.16.9

Length 27.5' of S.T.

Work commenced 15.8.40 Work completed 26.8.40.

Date of trial trip _____ Date of 1st. service _____

Traffic conditions Mainly Night Shift Work.

Cost. Lab. & Cart. £ 461.13.1 Material £ 244.3.5

Cost. Lab. & Cart. ^{+O.H.} 65.4% Material 39.6%

Percentage Overhead 67. Labour Engineer A.H. Bell.
15. Hire Cart.

Particulars See P. 5242.

	Existing	New
Drain	W.O. 2192 — 10.11.29 Conversion type	Existing
Ashes	Av. 3" in thickness	"
Foundation	8" F.C. under sleepers	"
Sleepers	7'6" x 9" x 4 1/2" sawn Jarrah	"
Stringers		
Rails	102 Lb. with 96 lb inner rail on Curves.	New 96 lb. on low side: Both Tracks New 102 lb. W.R. - W.T. south end.
Joints	E.F. elec. welding	Thermit Welds.
Fastenings	Plates, straps, bolts, clips.	Plates straps, bolts, clips.
Paving	4 1/2" W.B. Jarrah	Existing W.B. cleaned & relaid with some renewals.
Surfacing	50% Bit. 50% Tar with Toppings.	Down Track: 180-250 pen. Bit. "UP" " 80-100 " " Both with Toppings.

Notes: — CHARGE: Reconstruction.

RAILS: - 96 Lb. Rail Contract 854. 456.71' used.
102 " " " 1062. 2/45' used.

GANGERS' FIELD BOOK WANTED
2/11 24.6.41

W.D. 45165 (CONT'D.)

Work consisted of Rerailing the inner (low) rails of both tracks, also portions^{1/4"} of outer rail of south end of curve in the west track. Existing subsoil, concrete, & sleepers were not affected. Nuts on the holding down bolts were removed and the bolts re-threaded. All new nuts used.

Existing tie bars retained, but ends cut off where necessary, and then new ends welded on.

M^r Fischer to send along GANGERS' FIELD BOOK 25.6.41

WELDS - Thermit

GLENHUNTLY DEPOT.

3/230.

JOB: Installation of New Track. W.O. No. 25113

From TO ACCOMMODATE 7 ADDITIONAL CARS

Estimate £ 668-14-0 Cost £ 860-6-8

Cost per 100' of £ Cost per mile of

Length APP 607' of S.T.

Work commenced 6-1-41 Work completed 31-3-41

Date of trial trip Date of 1st. service

Traffic conditions

Cost. Lab. & Cart. ^{+ OH} £ 517 Material £ 343Cost. Lab. & Cart. ^{+ OH} 60 % Material 40 %

Percentage Overhead Engineer H.H. BELL

Particulars

	Existing	New
Drain		
Ashes		
Foundation		<u>FOUNDATIONS</u> - GRITTY LOAM AND S.H METAL MIXED - NEW METAL USED IN PAVED PORTION AT
Sleepers		TURNOUT,
Stringers		<u>TIMBERS</u> - NEW SAWN SLEEPERS.
Rails		<u>RAILS</u> - NEW 8018 ON STRAIGHT
Joints		90 + 96 lbs. S.H ON CURVES
Fastenings		SIDING NOT PAVED, BUT BIT
Paving		PENE AT TURNOUT, 130'
Surfacing		S.T. WAS REMOVED AT W. END
		OF EXISTING. SIDING

Notes :-

CHARGE CAPITAL

CONSTRUCTION

JOB. GORDON ST FOOTSCRAY W.O. No. 25120

From Ballarat Rd to River Street

Estimate £21649-2-0 Cost £21493-4-10

Cost per 100' of £ Cost per mile of

Length $\frac{385.8'}{60'}$ of $\frac{D.T.}{S.T.}$ } = 7776" S.T.

Work commenced 7-7-41 Work completed 20-12-41

Date of trial trip Date of 1st. service 9-11-41

Traffic conditions Nil.

Cost. Lab. & Cart. £11386-4-10 Material £10107-0-0

Cost. Lab. & Cart. 55-6% Material 44-4

Percentage Overhead $\frac{67\%+62\%}{15\%}$ on Lab. Engineer H.H. Bell
15% on H.C.Particulars

Track Design P9038

	Existing	New
Drain		Type 'C' covered with ashes.
Ashes		3" to 4" thickness
Foundation		7" thickness under sleepers
Sleepers		8'0" x 9' x 4 1/2" hewn Iron Bark & Box.
Stringers		New 80lb(80i) + Guard Plate.
Rails		New 80lb(80i) + Guard Plate.
Joints		Thermit
Fastenings		Dogs, pneumatically driven.
Paving		Bit. Pen Mac. Cut back bit.
Surfacing		W.O. 25122

Notes: — Charged to Construction.

For cost of Alterations to Mains see W.O. 25306 — G. 36.

Work done by other departments over page.

Work done by other departments (included in cost on previous sheet)

Stores Dept. - 80 lb L/H turnout

Cost L £35-5-3, O.H. £8-5-4, M £235-18-11 = £279-9-6

Temp. R/H turnout.

Cost L £20-9-7, O.H. £5-2-4, M £35-7-5 = £58-19-4

Adzing + Boring Sleepers

Cost L £42-6-0, O.H. £10-11-6 = £52-17-6

Rolling Stock Dept. One (1 in 5) B.U. crossing.

Cost L £18-10-3, O.H. £6-6-9, M £8-18-10 = £35-15-10

300/1/8" G/Plate shims.

Cost L £1-2-2, O.H. £0-9-11, M £0-2-3, = £1-14-4

Distribution Dept. Long Bonding.

Cost L £3-16-9, O.H. £2-2-3, M £4-17-11 = £10-16-11

Permanent Way Dept.: Temp. X-over. Install. + Removal.

Cost L £104-8-2, C £9-15-8, QN £63-18-10, M £40-14-7

= £218-18-3

Special Work 80 lb (80) turnout

L.H. to L. Switch, Contract 501, Cam. Steel Coy. } Second
R.H. to L. mate, Contract 501. Waratah N.S.W. } hand.

1 in 5 crossing B.U. at Preston Workshops (96 lb)

CONSTRUCTION

JOB. GORDON ST. JUNCT. BALLARAT RD W.O. No. 25121

From 10

Estimate £2565-13-10 Cost £2189-17-4

Cost per 100' of £ Cost per mile of

Length 403 of ST equiv.
110' of ST Ballarat Rd curve realignment

Work commenced 23-8-41 Work completed 8-11-41

Date of trial trip Date of 1st. service 9-11-41

Traffic conditions Trains along Ballarat Rd.

Cost. Lab. & Cart. £1302-8-3 Material £ 877-9-1
+QH.Cost. Lab. & Cart. 59.5% Material 40.5%
+QMPercentage Overhead 67% on L. Engineer H H Bell
15% on H.C.Particulars

	Existing	New
Drain		Type "C" covered with ashes
Ashes		3" to 4" thickness
Foundation		7" thickness under sleepers.
Slab		9" x 4 1/2" sawn Red Gum,
Timbers		various lengths.
String		
Rails		80lb (801) curves off Special Wk.
Joints		F.P. at castings, Thermit elsewhere.
Fastenings		M.S. straps, Lock Washers, tie bolts, & clips, flat washers, tie bars
Paving		Bit Pen. Mac.
Surfacing		W.O. 25122.

Notes:—

Charged to Construction.

For cost of Alterations to Mains see W.O. 25306 - G 36.

Work done by other departments & Special Work over page.

Work done by other departments (included in cost on previous page)

Stores Dept - Manufacture of one 96lb BU. crossing.

Cost	Labour	£ 36-19-7
	O.H.	16-0-5
	Material	<u>9-17-0</u>
	Total	<u>£ 62-17-0</u>

Supply of curves & Special Work.

Cost	Labour	£ 93-4-7
	OH	22-2-1
	Material	<u>674-4-6</u>
	Total	<u>£ 789-11-2</u>

Distribution Dept - Bonding

Cost	Labour	£ 8-11-11
	Cartage	17-0
	O.H.	4-14-7
	Material	<u>17-5-6</u>
	Total	<u>£ 31-9-6</u>

Special Work 90/96lbs. The crossings & closures on outer curve were part of the original Eastern portion of Chapel St. - Carlisle St. junction. (C.S.P. Contract 306)

Crossing on inner curve 96lb BU. at Preston Workshops
Second hand switches & mate used.

See "Special Work where laid" book page 50 for further particulars.

JOB. *Gordon St surfacing W.O.'s* W.O. No. *25122*
25120 + 25121

From *to*

Estimate £ *617-0-0* Cost £

Cost per 100' of £ Cost per mile of £

Length of

Work commenced Work completed

Date of trial trip Date of 1st. service

Traffic conditions

Cost. Lab. & Cart. £ Material £

Cost. Lab. & Cart. % Material %

Percentage Overhead Engineer

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Rails		
Joints		
Fastenings		
Paving		
Surfacing		

WORK
CARRIED
NOT
OUT

Notes: *W.O. closed 12-6-45*

Gordon St Footway (W.O.s 25120-21).

JOB. Alterations to Mains etc. W.O. No. 25306

From Ballarat Rd to River St.

Estimate £ 368 Cost £ 365-12-11

Cost per 100' of Route ^{P.T.} £ 9.05 Cost per mile of Route ^{P.T.} £ 478

Length of

Work commenced 7-7-41 Work completed 25-10-41

Date of trial trip Date of 1st service 9-11-41

Traffic conditions Road Traffic only in Gordon St
Tram in Ballarat Rd

Cost Lab. & Cart. £ Material £

Cost Lab. & Cart. % Material %

Percentage Overhead Engineer H.H. Bell

Particulars

	Existing	New
Drain		
Asphes	To Coat & Board Work + Materials	£129-1-3
Foundation	Other Utilities	
Sleepers	Colonial Gas Co.	16-8-0
Stringers	M + M B.W.	220-3-8
Rails		
Joints		
Fastenings		
Daving		
Surfacing		
		<u>Total £ 365-12-11</u>

Notes: - Charged to Construction.

For W.O.s 25120 & 21 see G 33 & G 34.

JOB. Goman St. Fscray. Reconstr E.T. W.O. No. 45185

from Charles St to Browning St

Estimate £ 2740 Cost £ 2460-6-5

Cost per 100' of S.T. Recon. £ 304-2-4 Cost per mile of S.T. £ 16,057

Length 809' of S.T. Reconstruction
91' " " Runouts, lifted.

Work commenced 8-11-43 Work completed 23-12-43.

Date of trial trip Date of 1st. service

Traffic conditions Usual Traffic.

Est. Law & Cart. + OH £ 1928-18-5 Material £ 531-8-0

Est. Law & Cart. + OH 78.4% Material 21.6%

Percentage Overhead 62% on Lab. Eng. neer H.A.B
15% on Hired C/ys J.F./H.C.

Particulars

	Existing	New
Drain	3" Ag. Blocked	Type "C".
Ashes	3" Av. thickness	Existing retained
Foundation	6" metal under sleepers	6" new metal under sleepers
Sleepers	7'6" Hewn. (decayed)	8'0" Hewn Yellow & White Stringy Bark 30% renewed.
Stringers		
Rails	80lb (80) & G. Plate	Existing retained
Joints	Elec. weld (no joint plates)	Existing retained, cracks repaired some broken G. Plates replaced with 'lip fishplates.
Fastenings	Dogspikes.	Dogspikes
Paving	Tar Pen. Macadam	Pen. Mac. Bit. along rails, tar elsewhere
Surfacing	Bit.	Bitumen seal coat.

Notes: —

Charged to Reconstruction

GISBORNE ST & CATHEDRAL PL.

1/6/10.

JOB. Rerailing Curves both Tracks. W.O. No. 45197.
 Outer Track 7' N of N.T.P. 7' S. of S.T.P.
 From Inner Track 7' N of N.T.P. 7' S. of S.T.P.

Estimate. £ 2160. 0. 0 Cost £ 1674. 2. 8.

Cost per 100' of S.T. £ 467. 6. Cost per mile of £

Length 358' of Single Track.

Work commenced 11. 6. 45 Work completed 17. 7. 45.

Date of final in - Date of 1st. service -

Traffic conditions Under Traffic (Day Work)

Cost Lab. & Cart. £ 1164. 13. 6. Material £ 509. 7. 2

Cost Lab. & Cart. 69. 4% Material 30. 6%

Percentage: Overhead ^{58% on Lab.} 15% on M.C. Engineer H.H. BELL

Particulars

	Existing	New
Drain	Conversion Type	Existing Retained.
Ashes	4x3" Thickness.	" "
Foundation	8" R.C. Under Sleeper	" "
Sleepers	7'6" x 9 1/2" x 5 1/2" Sawn fir	" "
Springers	102 lb with 96 lb	New 96 lb on Low legs.
Rails	Inner rail on curves Fish plates of Elect	" 102 lb - High UP TRACK. ELECT. WELD.
Joints	welded joint plates	DOWN TRACK. Thermite Fusion.
Fastenings	1/2" M.S. Plate. 1/2" M.S. Strap under sleeper	UP TRACK. Replaced by sleeper plates down track.
Paving	4 1/2" w/8 block land.	Existing cleaned & reused 1/2 New.
Surfacing	50% 50% Tar with Toppings.	80/100 cut back Bitumen & Toppings.

Notes: -

Changed to Reconstruction.

Actual Cost Includes.

Stores Department Pending Rails. 266. 9. 1.

Drawings. Details of Curves. P. 4663.

P.T.O.

Stores Department.

Bending Rails.

Labour 24.12.2'

Cartage. 6.3.7'

Material 235.11.4'

266.9.1'

Glenhumbly Rly / Timway Crossing

S/A. 3/220.

Renewal of Crossing

JOB. & Lifting of Approaches W.D. No. 20505

From 12117' to 12147'

Estimate £2702-12-0 Cost £3085-18-11

Cost per 100' of — £ — Cost per mile of — £ —

Length — of —

Work commenced 17-9-45 Work completed 12-10-45

Date of trial trip — Date of 1st. service —

Traffic conditions ^{No tram or train traffic during}
(a) Installation of Steel Work.
(b) Concreting base slab.Cost. Lab. & Cart. ^{+0.4} £2533-15-0 Material £552-3-11Cost. Lab. & Cart. ^{+0.4} % Material %Percentage Overhead ^{58% on Lab.} 15% HC. Engineer HMB J.F.H.G.C.Particulars

	Existing	New
Drain		Type E around 4 edges of slab.
Ashes		Ashes under concrete raft - 5H. rails & 1/2" bars. Premixed bit. metal.
Foundation		14" x 6" sawn R.G. stringers & 8" x 9" x 4 1/2" hewn 1B. sleepers.
Sleepers		
Stringers		
Rails		Special Casting 90° standard Xing 102 1/2" closures.
Joints		Fishplated insulated to thermic fusion.
Fastenings		Castings bolted otherwise dogs spiked.
Paving		Bit. pen. & seal over arc of Xing.
Surfacing		Remainder standard tar & bit. pen. with bit. seal

Notes: — Charged to Reconstruction.

Work done by other departments.

Distribution Dept Long Bonding.

Cart £1-2-6

Lab £17-14-7 O.H. 11-16-1 Mat £93-3-2 Total £125-16-1

Temporary Lighting

Lab O.H. £16-4-0 Cart 7/6 Mat £10-6-1 Total £54-2-9.

£21-5-2

Glenhantly R.P.

S/A3/220

Repairs to Xover East of

JOB. Elsternwick Rly Gates.

W.O. No. J.D.11100

From — to —

Estimate £ — Cost £ 874-2-9.

Cost per 100' of S.T. £ 348.3 Cost per mile of £

Length 251' of S.T.

Work commenced 12-10-95 Work completed 30-10-95

Date of trial trip — Date of 1st. service —

Traffic conditions Day shift under traffic.

Cost. Lab. & Cart. ^{+OH} £ 699-2-9 Material £ 175-0-0Cost. Lab. & Cart. ^{+OH} % Material %Percentage Overhead 58% Lab. Engineer H.H.B. J.F. H.O.C.
15% H.C.Particulars

	Existing	New
Drain		4" ag. pipes not disturbed.
Ashes		3" ashes generally not disturbed
Foundation		8" new & SH metal under sleepers
Sleepers		50% renewed, sawn Jarrah
Stringers		under castings. Hewn S.B. elsewhere
Rails		Curved & straight leads both
Joints		tracks 90lb SH Crossing Up
Fastenings		Track replaced with SH. King
Paving		70 castings, plated & bonded
Surfacing		At closures thermit fusion.
		Dogspikes
		Tar & bit. pen. with bit seal.

Notes: - Charged to Maintenance.

Work done by other Departments.

Distribution, Temporary Lights

Lab. £ 6-0-5 O.H. £ 3-12-2 Total £ 9-12-7

5/17 3/230.

JOB: Blanketly Rd. Duplication WVO. No. 20009

From Sperda Ave. to Paganini Rd.

Estimate: £4,183-8-0 Cost: £5673-9-11

Cost per RDC off S.T. £163 Cost per mile of

Length 1225 of S.T.

Work commenced 18/6/47 Work completed 1/9/47

Date of trial trip - Date of 1st service

Traffic conditions Not under traffic

Cost. Lab. & Cart. £3370-18-0 Material £2302-11-11
+ Excavator

Cost. Lab. & Cart. 59.5% Material 40.5%

Percentage Overhead 58% LAB. 15% CART. Engineer H. H. BELL

Particulars

	Existing	New
Drain	-	Type "C"
Ashes	-	4 to 5" 4" ashes in clearway
Foundation	-	7" metal - 8" metal in clearway
Sleepers	-	Summit - jarrah & R.G. Saw & SH heavy sleepers.
Stringers	-	
Rails	-	Revd. Hornout - new 102lb stud.
Joints	-	On 102lb rails - combined sleepers except where cutting in traffic - others Fusion plated & bonded at special work.
Fastenings	-	Dogspikes
Paving	-	Brit. Bone macadam
Surfacing	-	

Notes: -

S.A. 3/230

JOB. Glendonby Rd. Reconstruction W.O. No. 20520

From ~~Mernda~~ Ave. 10 Pruganini Rd.

Estimate £5,203.6.0 Cost £6,524.16.7

Cost per 100' of S.T. £ 464. Cost per mile of £ -

Length 1406' of S.T.

Work commenced 13-5-47 Work completed 7-11-47

Date of trial run - Date of 1st. service -

Traffic conditions Under traffic (single line)

Cos. Lab. & Cart. £4812.12.10 Material £1690.13.9

Cost. Lab. & Cart. 73.7 % Material 25.7 %

Percentage Overhead $\frac{58\%}{15\%}$ L.H.C. Engineer H.H. Bell.Particulars

	Existing	New
Drain	"A" type, 4" gutter tiles on concrete invert	Existing repaired - new type "C"
Ashes	Av. 4" (where bottom bad)	Average 4" to 5"
Foundation	6" ballast under sleepers where bottom bad.	7" metal under sleepers
Sleepers	8' x 9" x 1/2" hewn.	New hewn I.B. Jarrah and Red Gum at turnout.
Stringers		
Rails	90 lb. B.S. 1 Recond.	Existing 90 lb retained except 200' of S.T. which was replaced with 90 lb. recond rail ex. S th Melb.
Joints	Elec. weld. fishplates. sole plates.	All new joints 90 lb fusion (thermit) - where exist. plated & welded.
Fastenings	Dogspikes	Dogspikes
Metting	Tar Macadam	Bit. pen. macadam.
Surfacing		

No.			
3750	HAWTHORN RD.	Duplication West Track	5
3752	"	Extension North Rd. - Eric St	8
3753	"	" Top-dressing	9
3763	HIGH ST. E. Kew	Surfacing Duplication (3668)	10.
3762	"	" Extension (3669)	11.
3751	HAWTHORN RD.	Duplication, Surfacing (3750)	12.
25104	"	Extension, Surfacing (3752)	13.
25103	"	" Eric St. - Pt Nepean Rd	14.
25101	HANNA ST. STAKE YARD	Siding for Freight Car.	15.
45126	HAWTHORN DEPÔT	Track removal in yard	16
3567	HAYWARD ST.	Removal of old Cable Tracks.	17.
45152	HALDEN ST.	Removal of Rails, S. Track	18.
45153	"	Repairs to North Track	19.
15854	High St. N'cote,	Cable Engine House, Paving Floor	20
45192	High St Kew.	at Princess St. Rerailing Curves	21
45195	High St Kew.	at Belford Rd. Rerailing Curves	22
25133	Hanna St - Sturt St	Junction	23
25134	Hanna St	Construction, City Rd to Sturt St	24
25135	Hanna St - Queensbridge St.		25
20504	Hanna St - Park St	Curves Reconf & Realignment.	26
20006	Hawthorn Rd.	Duplication Northern Ave to Pt. Nepean Rd	27
20524	Hanna St	Reconstruction - Sturt St to Park St	28

JOB. HAWTHORN RD.

W.O. No. 3750

From Duplication West Track.

Saturn St. to North Rd.

Estimate £ 3620.1.2 Cost £ 2500.18.10
Exclusive of Top dressing

Cost per 100' of S.T. £ 190.19.0 Cost per mile of S.T. £ 10,081.6.0

Length 1467' of S.T.

Work commenced 9.8.37. Work completed 18.9.37.

Date of trial trip Date of 1st. service

Traffic conditions

+ a.m. Cost. Lab. & Cart. £ 1380.6.7. Material £ 1420.12.3.

+ a.m. Cost. Lab. & Cart. 49.3% Material 50.7%

Percentage Overhead 53 on Lab. Engineer D.H. Eakins

Particulars

	Existing	New
Drain		4" A.G. Pipes
Ashes		Average 3 1/2" in thickness.
Foundation		7" Ballast under Sleepers.
Sleepers		8' x 9" x 4 1/2" heavy R.G. New.
Stringers		102 lb. New.
Spikes		Thermit: 71 Joints 28/8.
Fastenings		Dogspikes
Rolling		Bit. Pen. Mac.
Surfacing		To be done under W.O. 3751.

Notes:—

Charge:— Capital.

HAWTHORN RD.

3/430.

JOB. Extension

W.O. No. 3752.

From North Rd. to Eric St. (near)

Estimate £3,475.3.7 Cost £2,674.10.1.

Cost per 100' of S.T. £205.5.0 Cost per mile of S.T. £10,837.11.6.

Excluding Sp. Wrk. 192-11.0

Length 1,303' of S.T.

Work commenced 19.7.37 Work completed 23.8.37.

Date of trial trip Date of 1st. service

Traffic conditions

Cost. Lab. & Cart. £^{+ O.H.} Material £1,507.8.10Cost. Lab. & Cart. 43.7%^{+ O.H.} Material 56.3%

Percentage Overhead 52% on Lab. Engineer D.H. Eakins.

Particulars

	Existing	New
Drain		4" A.G. Pipes
Ashes		Average 3 7/8" thickness.
Foundation		7" Ballast under sleepers
Sleepers		8' x 9' x 4 1/2" hewn R.G. Poor Quality
Joints		Thermit : 59 at 28/6.
Grass		102 Lb. New.
Rails		Diagspikes
Fastenings		Bit. Pen. Mac.
Paving		Yet to be done : W.O. 3753.
Surfacing		

Charge: Capital

HAWTHORN RD. EXTENSION

3/430.

JOB. Top-dressing (W.O. 3752.) W.O. No. 3753.

From North Rd. to near Eric St.

Estimate £ 110.0.0. Cost £ 69.4.9.

Cost per 100' of S.T. £ 5.6.3 Cost per mile of S.T. £ 280.7.4

Length 1303' of S.T.

Work commenced Work completed April 1938.

Date of trial trip Date of 1st. service

Traffic conditions

Est. Lab. & Cart. ^{+O.H.} £ 33.2.10 Material £ 36.1.11Est. Lab. & Cart. ^{+O.H.} 47.8% Material 52.2%

Percentage Overhead 52% on Lab. Engineer D.H. Eakins

Particulars

	Existing	New
Drain		
Aspes		
Foundation		
Stewers		
Stringers		
Rails		
Fastenings		
Paving		
Surfacing		

Notes - CHARGE: Capital.

Surfacing used was 1/8" filled asphalt -

"Merrimix" ; 1303 sq. yds. cost per sq. yd. 12.7^d.

HIGH ST. E.KEW

4/110.

JOB Surfacing Duplication (3668) W.O. No. 3763.

From Clyde St. to Burke Rd.

Estimate £ 250. Cost £ 206.3.7.

Cost per 100' of S.T. £ 7.3.0 Cost per mile of £ 377.3.10

Length 2886' of S.T. 3848 sq. yds.

Work commenced Work completed Dec. 1937.

Date of initial trip Date of 1st service

Traffic conditions Usual

Cost. Lab. & Cart. ^{+0.11} £ 79.9.10 Material £ 126.13.9.Cost. Lab. & Cart. ^{+0.11} 38.9 % Material 61.1 %

Percentage Overhead 52 Engineer D. H. Eakins

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Rails		
Fastenings		
Paving		
Setting		

Charge: Capital

Material: 1/8" filled asphalt - Merrimux

Cost per Sq. Yd. 12.86 d.

HIGH ST. EAST KEW

JOB. Surfacing Extension (W.O. 3669) W.O. No. 3762.

From Burke Rd. to Bulleen Rd.

Estimate £ 370-0-0. Cost £ 187-12-1.

Cost per 100' of S.T. £ 4-11-0 Cost per mile of S.T. £ 240-7-2.

Length 2013' of A.T. & 95' of S.T. 4084 sq. yds.

Work commenced Work completed Dec. 1937

Date of trial trip Date of 1st service

Traffic conditions Usual

Cost. Lab. & Cart. ^{+O.H.} £ 68-14-2 Material £ 118-17-11Cost. Lab. & Cart. ^{+O.H.} 36.7% Material 63.3%

Percentage Overhead 52 Engineer D.H. Eakins

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Stewers		
Stringers		
Rails		
Curbs		
Paving		
Surfacing		

Charge: Capital.

Material: 1/8" filled asphalt "Merrimix".

Cost per Sq Yd. 11d.

3/420.

HAWTHORN RD. DUPLICATION

JOB. Surfacing (No. 3750)

W.O. No. 3751.

From Saturn St. to North Rd.

Estimate £150.0.0. Cost £90.3.7.

Cost per 100' of S.T. £6.3.0. Cost per mile of S.T. £324.14.4

Length 1467' of S.T.

Work commenced Work completed April 1938.

Date of trial trip Date of 1st. service

Traffic conditions

Cost. Lab. & Cart. ^{+O.H.} £34.17.9 Material £55.3.10

Cost. Lab. & Cart. ^{+O.H.} 39 % Material 61 %

Percentage Overhead 52 % Engineer D.H. Eakins

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Stoppers		
Stringers		
Rails		
Fastenings		
Paving		
Surfacing		1/2" filled asphalt "Merrimix" 1956 sq. yds. 11 ^d . per sq. yd.

Notes:- CHARGE: Capital

HAWTHORN RD. EXTENSION. Con. 1066.

3/430.

JOB. Surfacing. W.O. No. 25,104.

From near Eric St. to Point Neapean Rd.

Estimate £250.0.0. Cost £125.16.8.

Cost per 100' of S.T. £2.19.4. Cost per mile of S.T. £156.14.7

Length 4239' of S.T.

Work commenced Work completed April 1938.

Date of trial trip Date of 1st service

Traffic conditions Usual

Cost. Lab. & Cart. ^{+OH} £39.11.2 Material £86.5.6Cost. Lab. & Cart. ^{+OH} 31.8% Material 68.3%

Percentage Overhead 52 on Lab. Engineer D. H. Eakins

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Rails		
Fastenings		
Paving		
Surfacing		1/8" Filled "Merrimix" 48.65T. at 31/- £75.8.2. 3815 sq.yds. Per Yd. 7.9d.

Notes: CHARGE: Capital.

HAWTHORN RD

3/430.

JOB, Extension: Contract 1066 (Wales) W.O. No. 25103

From near Eric St. to Pt. Neapean Road

Estimate £ 7690. Cost £ 7,322.13.6.

Cost per 100' of S.T. £172.14.10 Cost per mile of S.T. £ 9121

Length 4239' of S.T.

Work commenced 13.9.37 Work completed 6.12.37.

Date of trial trip Date of 1st. service

Traffic conditions Nil.

Cos. Lab. & Cart. £

Material £

Cost. Lab. & Cart. %

Material %

Percentage Overhead

Engineer D.H. Eakins

Particulars

	Existing	New
Drain		4" A.G. Type 'B'
Ashes		Ar 3" in thickness.
Foundation		7" metal under sleepers.
Sleepers		8' x 9" x 4 1/2" new hewn.
Stringers		
Rails		102 Lb. new on straight
Joints		Thermit welded. (combined)
Fastenings		Dogs pikes
Paving		Bit. Pen Mac.
Surfacing		See W.O. 25104

Council
 Roadway.

CHARGE: Capital

JOB HANNA ST. STORE YARD W.O. No. 25,101.
Siding for Freight Car.

From _____ to _____

Estimate £ 475 Cost £ 601.1.6.

Cost per 100' of S.T. £ 100 Cost per mile of £

Length 600' of S.T. from Junction near Hanna St.

Work commenced 10.8.37 Work completed 2.10.37

Date of trial trip _____ Date of 1st. service _____

Traffic conditions NIL

Cons. Lab. & Cart. £ ? Material £ ?

Cost. Lab. & Cart. ? % Material ? %

Percentage Overhead ? Engineer W.A. Pollock ?

Particulars

	Existing	New
Drain		4" A.G. Pipes
Askes	STONE	?
Foundation		3" Metal under sleepers.
Sleepers	YARD	Second-hand.
Stringers		
Rails	ROAD	Scrap lengths.
Fastenings		Doqspikes S.H.
Paving	WAY.	Raw Tar & 1/2" screenings
Surfacing		Emulsion and Toppings

Notes: CHARGE:- Capital.

Metal used was second hand ex M. Alexander Rd.

JUNCTION: New B.U. Crossing ; S.H. Switch and Mals.

HAWTHORN DEPOT

4/510

JOB. Track Removal in YardW.O. No. 45,126

From _____ to _____

Estimate £ 50 (Cr. deduct^d) Cost £ 219.5.9
Credits 220.2.1
IN CREDIT 0 16 4

Cost per 100' of _____ £ _____ Cost per mile of _____

Length _____ of _____

Work commenced 4.7.38 Work completed 23.7.38

Date of trial trip _____ Date of 1st service _____

Traffic conditions N.I.L.Costs: Lab. & Cart. ^{+ O.H.} £ 212.13.2 Material £ 6.12.7Percentage Lab. & Cart. 97% Material 3%Percentage Overhead 60 on Lab. Engineer H.H. BellParticulars

	Existing	New
Drain		
Flags		
Foundation		
Wheels		
Stringers		
Rails		
Joints		
Fastenings		
Paving		
Surfacing		

CHARGE: Reconstruction

Notes:— Cost: Labour 126.15.0
 (Gross) Salaries 2.17.0
 Cartage 7.8.2
 O/H. 60% 75.13.0
 Material 6.12.7
£ 219.5.9. at 29.9.38.

HOWARD ST.

JOB Removal of old Cable Tracks W.O. No. 3567.

From Victoria St. to Cable Depot

Estimate £ 120 Cost £ 137-3-0

Cost per 100' of ST. £ 68-11-6 Cost per mile of

Length 200' of ST.

Work commenced Work completed June 1936.

Date of trial trip Date of 1st service

Traffic conditions No Trams;

Exp. 120' d Cart. £ 55-18-6 Material £ 81-4-6

Exp. 120' d Cart. ^{+OH.} 40% Material 60%

Percentage Overhead Engineer H.H. Bell.

Particulars

	Existing	New
Drain pipes	Cable	Re-instatement of
Foundation		Bit. Pen Mac
Steps	Tramway	Roadway.
Stringers		
Posts		
Joints		
Fastenings		
Painting		
Surfacing		

Notes :- Charge :- Reconstruction

HOLDEN ST.

5/117.

JOB: Removal of Rails, S. Track, W.O. No. 45152,

From Lygon St. ^{to} St. Georges Rd.
including sp. wk. at both ends of Job.

Estimate £1402.8.9 Cost £1487.5.11.

Cost per 100' of S.T. £28.5.6 Cost per mile of S.T. 1628

Length 5260' of S.T.

Work commenced 25.10.39 Work completed ^{H.H.40} (23.12.39 in main)

Date of trial trip Date of 1st service

Traffic conditions Usual

Cost. Lab. & Cart. ^{+O.H.} £1989.1.2 Material £151.15.3 Cr.

Cost. Lab. & Cart. ^{+O.H.} ? % Material ? %

Percentage Overhead 60. Engineer H.H. Bell.

Particulars

	NO Existing ⁹⁹⁶ _{21.2.25}	New
Drain	{ Pilkington St. 4" AB balance Type "A"	Track excavated to a depth at 6" and all sleepers and rails removed.
Asnes	At 5" thickness	
Foundation	6" ballast	
Sleepers	8' x 4 1/2" Hewn	Existing drain & foundations
Stringers	-	left undisturbed.
Grill	90 lb. B.S. New.	Macadam with 2 coats
Joints	F.P. elec. weld.	bitumen penetration
Fastenings	Dogs spikes	paring
Paving	Tar pen mac.	
Surfacing		

NOTE: CHARGE: Reconstruction.

26.6.41
440
See Field work book 91-92
Track change books 128/P. 71-72
P. 38
149/103

W.O. 45152 (Cont'd)

NOTES from Ganorts Field Book.

Rails in Holden were 90 Lb. and branded

B.S. N°1-90-O.B.-B.V. & Co. LTD-1928-M.M.T.B.

The 90 lb. x over abandoned was in fair condition.

Curves to Lygon St. of 96 Lb. rail branded

B.S.-N°1-96-O.B.-B.V. & Co. LTD. 1928 M.M.T.B.

Removal of Points & Crossings in Lygon St.:-

Switch, Mate and Crossing 90 lb.

all cracked and worn; no visible brands

HOLDEN ST.

5/110

JOB. Repairs to North Track W.O. No. 45153

From Lygon St. to St. Georges Rd.

Estimate £ 1,545-13-7 Cost £ 1171-2-6

Cost per 100' of S.T. £ 22-8-3 Cost per mile of S.T. £ 1282

Length 5260' of S.T. (approx)

Work commenced 13-11-39 Work completed ~~23-12-39~~ 4-4-40

Date of trial trip Date of 1st. service

Traffic conditions Usual

Cost. Lab. & Cart. £ 294-19-3 Material £ 276-4-3

Cost. Lab. & Cart. ^{+ P.H.} 76.5% Material 23.5%

Percentage Overhead 60% Engineer H.H. Bell

Particulars

	Existing	New
Drain	<i>Shown on previous page - 5th. Track</i>	Formation. Clay.
Ashes		Repairs as follows:-
Foundation		Rae St. - Lygon St approx 700'
Sleepers		lifted & packed; balance
Stringers		either scarified or legged
Nails		and pared with Bit. Pen Mac.
Joints		Rae St. to St Georges Rd.
Fastenings		approx. 20' lifted; balance
Faving		patched & top dressed
Surfacing		with emulsion & toppings
		Special Work: work also
		Included removal of
		Crossovers at Barkly St.
		& in Holden St. near Lygon St.

Estm - CHARGE: Reconstruction

W.O. 45153 (CONT'D.)

NOTES from Gungers Field book.

From Ch. 2375' to Lygon St. 3'-6" of C.B.
against inner rail of Nth. track was scarified
& repaved simultaneously with the repairing
of the Sth. Track removal job, but charged
to W.O. 45153.

HIGH ST NORTHCOTE.

JOB. Paving Floor of old
Cable Engine House

W.O. No. 15854
(P.O. 1272)

From to

Estimate £ 823 Cost £ 1058-7-9

Cost per ^{sq. yd} of Area £ 26/5 Cost per mile of £

Length Total of Area done = 800 sq yds

Work commenced 20-4-43 Work completed 8-5-43.

Date of trial trip Date of 1st. service

Traffic conditions Nil.

Cost. Lab. & Cart. ^{+ OH.} £ 746-17-0 Material £ 311-10-9

Cost. Lab. & Cart. ^{+ OH.} 70.6% Material 23.4%

Percentage Overhead 58% on Lab Engineer H.H.B. J.J.F./HOC.
15% - Head Office

Particulars

	Existing	New
Drain		Work consisted of cleaning pits
Ashes		laying spalls in pits, removing
Foundation		concrete projections & levelling off,
Sleepers		laying 3" of ashes, and
Stringers		6" of concrete reinforced
Rails		only over old pits and at
Joints		entrance
Fastenings		
Paving		
Surfacing		

Notes: — Charged to Buildings & Land.

HIGH ST. LEM. at PRINCESS ST.

A/110.

JOB. Rerailing Curves W.O. NO. 45192.

Outer track 12° 8' S of S.T.P. 38' E of S.T.P.
From Inner Track 28° 5' S of S.T.P. 32' 6" E of S.T.P.

Estimate £ 1360.0.0 Cost £ 1915.7.0

Cost per 100' of Single T. £ Overhead * x

Length 196' of Double Track

Work commenced 1.3.45 Work completed 10.4.45.

Date of trial run Date of service

Traffic conditions Under traffic

Cost. Lab & Cart. £ 1340.10.10 Material £ 574.16.2
+ O.H.

Cost. Lab & Cart. 70 % Material 30 %

Percentage Overhead 58% Lab 15% H.C. Engineer A. H. BELL

Particulars

	Existing	New
Drain	4" AG. Pipes	Existing Retained.
Ashes	Av. 3" Thickness	" "
Foundation	6"-7" Ballast under Sleepers.	Existing Bottom ballast retained. 4"-5" New metal under sleepers
Sleepers	8' x 9" x 4 1/2"	New 8'-0" x 9" x 4 1/2" 1.8 Sleepers
Stringers		
Rails	90lb - 96lb	New 96lb.
Joints	Fishplates Elec. Weld	Thermit weld, Fishplates.
Fastenings	Dogspikes	Dogspikes.
Routing	Bit. Pen. Mac.	Down Track Bit. Pen. Up Track Torq. Bit Pen.
Surfacing.	Surfaced with cobs	

Notes:—

Changed to ReconstructionActual Cost Includes:

Stores Department

Supply & Bend Rails 268.12.10

Drawings: Details of Curves P6566.P.T.O.

Stores Department.

Supply & Bend Rails.

Labour 22.4.0

O'head 5.11.0

Material 240.9.10

£ 268.14.10

High St New of BELFORD RD.

4/110

JOB Rerailing Curves

W.O. No. 45195.

Outer Curve Inner Rail 3' E of E.T.P. - 20'-6" W of W.T.P.
 Inner Curve Outer Rail 4' E of E.T.P. 20'-0" W of W.T.P.
 Inner Rail 4' E of E.T.P. 4'-6" W of W.T.P.

Estimate £ 660-0-0 Cost £ 271-17-4

Cost per 100' of £ Cost per mile of £
 length 245' of Double Track, 35' of rail on outerTH Outer Curve,
 was built up & grooved ground.

Work commenced 11.4.45 Work completed 11.4.45.

Date of trial run Date of 1st service

Traffic conditions Under Traffic

Cost Lab. & Carl. £ 228-12-5 Material £ 43-4-11
 + 04. F.O.H.

Cost Lab. & Carl. 84.3% Material 15.7%
 58% Lab. 15% F.C. Engineer 11.4.5ELL.

Percentage Overhead 58% Lab. 15% F.C. Engineer 11.4.5ELL.

Particulars

	Existing	New
Drain	4" A.G. pipes.	Existing Retained
Ashes	1/2" thickness.	Existing Retained.
Foundation	6" ballast under sleepers	Existing Retained
Sleepers	8'-0" x 9" x 4 1/2" heavy	Existing Retained (poor condition)
Stringers		
Rails	90lb.	S.H. 90lb from Holden St.
Joints	Elec. Weld fishplates	Elec. Welded
Fastenings	Dogspikes	Dogspikes
Painting	Tar Pen Mac.	Bit. Pen Mac.
Surfacing		

Notes: Charged to Reconstruction.

Actual Cost Includes

Stores Department - Supply and bend rails - £42-19-10

Drawings - Details of Curves - P2979

Stores Department

Supply & Bend rolls

Labour £ 6 . 12 . 7

o'Head. £ 1 . 13 . 1

Material £ 34 . 14 . 2

42 . 19 . 10

5/12/210

JOB. STURT ST. - HANNA ST J^N W.O. No. 25133

From _____ to _____

Estimate £ 8730-16-0 Cost £ 8612-17-7

Cost per 100' of ST £ 790-2 Cost per mile of _____

Length 545' of D.T.

Work commenced 22-3-44 Work completed 22-11-44

Date of trial trip _____ Date of 1st. service _____

Traffic conditions & shifting of Special Work under traffic except for installation

Cost Lab. & Cart. ^{+OH} £ 5062-13-10 Material £ 3550-3-9Cost Lab. & Cart. ^{+OH} 58.8 % Material 41.2 %Percentage Overhead ^{58% Labour} 15% H.C. Engineer H.H.B. J.J.F. H.O.C.Particulars

	Existing	New
Drain		Type "A"
Ashes		5 1/4" sq
Foundation		8" Metal cement penetrating to top of sleepers.
Sleepers		8'0" x 9'2 1/2" beam Red Gum.
Timbers		12' x 6" spliced in 6'
Stringers		
Rails		Old J ⁿ 90/96lb reused. New portion 80lb(80) B.up. crossings Cast Mn. Sw. & Mate. Diamond cast Mn. 96lb Curves North half 96lb South half 80lb(80) & G.P.
Joints		
Fastenings		Fishplates Thermit weld. Dog spikes, Clips P46, 53, 55.
Paving		Wood blocks at Switches in Sturt St. Bit & Tar Pen. Mac.
Surfacing		North of Hanna St J ⁿ

Notes: - Charged to Construction

Actual Cost includes Work done by other Departments.

Over page.

Stores Assembly & supply complete Junction

Labour £ 281-1-11

Overhead £ 72-9-8

Material £ 2238-5-5

£ 2591-17-0

Distribution Long Bonding

Lab & Cart. £ 40-6-5

Overhead £ 18-2-7

Material £ 50-13-2

£ 109-2-2

Temp. Elec. Lighting

Labour £ 16-5-3

Overhead £ 8-15-7

Material £ 17-0-5

£ 42-1-3

JOB. HANNA STREET W.O. No. 25134

From City Rd. (3500') to Sturt St. (3802')

Estimate £13,951-10-0 Cost £13,798-4-9

Cost per 100' of S.T. £300-7-0 Cost per mile of S

Length 4588' of S.T.

Work commenced 20-3-44 Work completed 21-12-44

Date of trial trip - Date of 1st. service -

Traffic conditions Nil.

Cost. Lab. & Cart. ^{+OH} £7384-4-10 Material £6413-19-11Cost. Lab. & Cart. ^{+OH} 53.5 % Material 46.5 %Percentage Overhead 58% Labour Engineer H.H.B. J.F. H.O.C.
15% H.C.Particulars

	Existing	Now
Drain		Type 'A'
Ashes		4½" to 6" av.
Foundation		7" Metal under sleepers.
Sleepers		8'0" x 9" x 4½" hewn I.B. - ^{PAVED} Ballast.
Slabs		8'0" x 10" x 5" hewn V.S.B. - ^{OPEN} Ballast.
Rails		80lb (801) & G.P.
Joints		Fishplated - Open Ballast
Fastenings		Thermit - Paved Ballast.
Paving		Clips P71 & P72, dog spikes, A. bolts & A. irons
Surfing		4½" W.B.s. at City Rd. end. Tar & bit. pen. at street crossings
Kerbing		Precast conc. set in sand.

Notes: - Charged to Construction

1714' D.T. of Open Ballast.

489' D.T. of Pene. Mac.

91' D.T. of Conc. & Wood blocks.

Distribution Temporary Telephone.

Labour £ 6-13-4

Overhead £ 3-11-6

Material £ 5-8-6

£ 15-13-4

S/A 2/240

QUEENS BRIDGE ST. - HANNA ST.

JOB. CURVES **W.O. No. 25135**

From 3242' to 3500'

Estimate £3748-8-0 Cost £4670-15-6.

Cost per 100' of S.T. £891-4-0 Cost per mile of =

Length 524' of S.T.

Work commenced 22-5-44 Work completed 26-9-44

Date of trial trip - Date of 1st service -

Traffic conditions Nil.

Cost Lab. & Cart. £3279-1-1 Material £1391-14-5

Cost Lab. & Cart. 70.2 % Material 29.8 %

Percentage Overhead 58% Lab. Engineer H.H.B. J.F. H.O.C.
15% H.C.

Particulars

	Existing	Now
Drain		Queens Bridge St. "A" type under margins
Ashes		Cable tunnels stabbed over. City Rd. Curves. "A" type under outer margins.
Foundation		3 1/2" av. outside tunnels.
Sleepers		7" Conc. base slab, 4 1/2" bit metal under sleepers.
Stringers		8'0" x 9" x 4 1/2" sawn Jarrah.
Rails		80lb (801) with guard rail on curves
Joints		Thermit fusion
Fastenings		Clips, P46, Coach bolts, tie straps & plates.
Paving		Tar & bit. pen.
Surfacing		

Notes :- Charged to Construction

Work done by other Departments.

STORES Assemble & supply curves City Rd

- Queens Bridge St

Labour £117-19-4, O'head £29-19-8, Mat. £403-16-6

Total £553-15-6

HANNA ST - PARK ST. Curves S/A 2/220.

Realignment & Reconstruction

JOB. of Curves.

W.O. No. 20504

From D.T. 6832' to 7137'
U.T. 6832' to 7163'Estimate £ 3296-18-10 Cost £ 3213-14-5
~~3203-7-10~~Cost, per 100' of S.T. £ ~~45~~^{2505.3} Cost per mile of - £ -Length ~~8~~ 636' of S.T.

Work commenced 17-7-45 Work completed 17-10-45

Date of trial trip - Date of 1st. service -

Traffic conditions Under traffic (runouts & freight cars only)

Cost. Lab. & Cart. ^{TOH} £ 2423-14-3 Material £ 790-0-2Cost. Lab. & Cart. ^{10H} % Material %Percentage Overhead ^{58% Lab.} 15% H.C. Engineer H.H.B. J.F. H.C.Particulars

	Existing	New
Draip		Open ballast, type 'A' in margin round curve, type 'C'
Ashes		Av 5 1/2" where used.
Foundation	SCC	"New & S.H. under sleepers.
Sleepers		8' x 9 1/4" S.B. sleeper open ballast.
Stringers	W.D. 1213.	Iron Bark on curves.
Wails		New 80lb (601), exist 96lb.
Joints		bent to new radius on curves.
Fastenings		Thermit fusion & exist elec. work
Fluting		Dogspikes
Surfacing		Tar & bit. pen.

Notes: - Charged to Reconstruction.

Work done by other Departments

Distribution Dept. Temporary Lights.

Lab £5-11-9 OH £3-10-7 Mat £3-11-10 Total £13-0-2.

Hawthorn Road

JOB. Duplication

W.O. No. 20006

From Northern Ave to Point Nepean Road.

Estimate £17,028-12-0 Cost £19,147-6-7

Cost per 100' of S.T. £440-6 Cost per mile of

Length 4346' of S.T.

Work commenced 27-11-'46 Work completed 19-5-'47

Date of trial trip

Date of 1st. service

Traffic conditions Not under traffic.

Cost. Lab. & Cart. £10,812-16-0 Material £7,886-11-2
and Excavator

Cost. Lab. & Cart. 56.4 % Material 41.2 %

Percentage Overhead 73% Engineer H. H. Bell

Particulars

	Existing	New
Drain	Type B 4" AG. on ashes	Type "C"
Ashes	3" thickness	3½" thickness
Foundation	7" metal	7" New metal
Sleepers	8' x 9" x 4½" hewn	New 8' sleepers I.B. New sawn R.G. Existing loop timbers reused under Xovers.
Stringers	-	-
Rails	102lb.	New 102 lb (Aust)
Joints	Thermit welded	Thermit fusion, plated & bonded.
Fastenings	Dogspikes	Bolts, plates, P55 clips. Dogspikes.
Bedding	Bit. Pen. Mac.	Bit. Pen. Mac. &
Surrounding	Merrim	Bitumen seal

Notes:-

5/A 2/220

JOB. HANNA ST RECONSTRUCTION W.O. No. 20524

From STURT ST to PARK ST

Estimate £10,115-8-0 Cost £10,238-19-3

Cost per 100' of S.T. £439 Cost per mile of £

Length 2331' of S.T.

Work commenced 4/6/47 Work completed 4/12/47

Date of trial trip - Date of 1st. service -

Traffic conditions - Under Traffic

Cost. Lab. & Cart. £7,446-1-7 Material £2,749-12-6

Cost. Lab. & Cart. 73.2% Material 26.8%

Percentage Overhead 53% Labour 15% Cartage. Engineer H.H. BELL

Particulars

	Existing	New
Drain	4" A.G.	New type 'C' subsoil (under margin)
Ashes	Av. 3" thickness.	Varying depth 2" to 16"
Foundation	5" Ballast	7" New metal under sleepers.
Sleepers	8' x 9" x 1 1/2" beam.	9' x 4 1/2" new sawn jarrah under special work. Others Iron bark.
Stringers	-	-
Boils	90 lb. Rail on straight 96 lb. new on curves	Existing 90 lb. At junction & junction retained. New 96 lb. on curve into Depot. Balance 80 lb. Pair at end of ballast - fishplated.
Joints	Fishplates elec. weld.	New thermit welded.
Fastenings	Dogspikes.	Castings in junction - plates, bolts, clips Balance - dogspikes.
Passing	Tar. Pen. Mac.	Bit. Pen. Mac.
Surfacing	-	-

Notes: - Charged to reconstruction.

25893 JOHNSTONE ST. BUS STANDBY YARD: Grading, Paving 1.
P.O. 1292, Johnston St - Brunswick St. Removal c/E. Crossing See B.19

108. JOHNSTON ST. BUS STANDBY YARD. W.O. No. 252 H 3.

Grading and Concrete Paving of Site

(P.1064)

Estimate £ 1560

Cost £ 1840-17-2

per 100' of £ Cost per mile of

of

Work commenced 23-3-40. Work completed 10-8-40.

Date of trial trip

Date of 1st service

Work conditions

Lab. & Cart. £ 1166-0-10

Material £ 674-16-10

Lab. & Cart. 62.3 %

Material 37.7 %

Overhead 65 }
87 }
15 on Cartage

Engineer M.H. Bell.
J.F. A.R.S.

Particulars

W
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Existing



New

Clearing, grading, concreting
1600 sq. yds. at site in Johnston St
opposite Yarra Falls Knitting Mills
for a bus standby yard -
also paving (asphalt) 142 sq. yds
Conc. 6" Reinforced.
Ashes 4" Consolidated
4" Ag. drains along E & N. sides of
conc, also open drains in conc.
covered with B.U. steel gratings

Charged: Capital - (Building branch.)

- | | | |
|-------|--|---|
| 25128 | Keilor Rd Extens'n, Birdwood St to Essdon Aerodrome | 1 |
| 25308 | Keilor Rd Extens'n, Water, power, & telephone | 2 |
| 25129 | Keilor Rd Extension (open ballast) Keilor Rd to Vaughan St | 3 |

JOB. Keilor Rd Extension

W.D. No. 25128.

From Birdwood St to & including curves turning North to Aerodrome.

Estimate £ 15177-4-0 Cost £ 15101-18-9

Cost per 100' of S.T. £ 335 Cost per mile of S.T. £ 17,688

Length 4508 of S.T.

Work commenced 17-12-42 Work completed Main Work 1-4-43
Curves 30-4-43.

Date of trial trip Date of 1st. service 9-5-43.

Traffic conditions Nil.

Cost. Lab. & Cart. £ 8245-02 Material £ 6856-18-7
OH & Sal.Cost. Lab. & Cart. 54.6% Material 45.4%
OH & Sal.Percentage Overhead 62% on Labour Engineer J.J.F/HOC.
15% on Hired Ctrg.

Particulars Paved Ballast Tracks Open Ballast Tracks

Track Design P.3400 Track Design P.9398 (modified).

Drain 4" Ag. Type C. 4" Ag. Type C on inner margin

Asies 3½" Av. thickness 5½" Av. thickness across D.T.

Foundation 7" metal under sleepers 6" metal under sleepers

Sleepers { 8'0" hewn I.B. on straight
" 8'0" sawn R.G. " curves 8'0" sawn red gum.

Timbers sawn R.G. various lgths on Xover

Rails { 80lb (8or) with G Plate.
G.R. on inner rail of curves 80lb (8or) with inner G.R. outer G.P.Joints { Filated on crossover
Thermit weld elsewhere Thermit Welded.Fastenings { Straps, bolts, plates, clips on Xover
Dogspikes on straight. Knees, straps, bolts, plates, clips.

Paving Pen. Mac. Bit along rails Nil.

Surfacing tar elsewhere
finished off with
bit. seal coat.

Notes :- Charged to Construction

Chamage: — 5th Track 8300' - 10432' = 2132' } Total length
 Nth " 8114' - 10440' = 2326' } = 4508' of S.T.
 Plus Half Crossover = 50'

On Existing N.T. 80' was lifted East of Birdwood St Xover; not included in length.

Paved Ballast Constr: — In Keilor Rd & on portion of curves to 2 ft Nth of NBA Keilor Rd

Open " " :- On portion of curves North of Keilor Rd

Over

WD. 25128. Keilor Rd Extension (cont'd)

Special Work:- 90lb.(s.H.) Half Crossover added to existing turnout at Birdwood St. {See Sp.Wk Book "Whore laid" pages 6}

Loading Platform:- 150 lin.ft. constructed at Curres.

New Conc. Culverts:- (1) At 46" Water Main at Hoffmann's Rd
(2) At storm water culvert at chainage 9500'.

Work done by Other Departments:-

Stores:- P.2859. Assembly & Supply of Crossover - Birdwood St
Lab. £46-1-2; O.H. £11-10-3; Mat. £403-3-10; Total £460-15-3
Half crossover only used:- Credit Mat. £205-1-4.

Stores:- P.2858. Assembly & Supply of Curves to Matthews Ave
Lab. £182-1-10; O.H. £51-5-2; Mat. £734-14-4; Total £968-1-4.

Distribution:- P.898. Bonding.
Lab. £15-0-9; O.H. £8-18-6; Ctye £1-11-2; Mat. £15-3-3; Total £40-13-8

Sub Acc. 6/130.

Keilor Rd. Extension

JOB. Alter.^s water, power + telephone W.O. No. 25308

From Birdwood ST to Vaughan ST.

Estimate £ 800-0-0 Cost £ 1242-18-4

Cost per 100' of D.T. £ 158-6 Cost per mile of D.T. £ 820-6-6

Length 8032' of D.T.

Work commenced

Work completed 28-5-43

Date of first trial

Date of 1st service

Traffic conditions Road traffic in Keilor Rd. only.

Cos. Lab. & Cart. £ 628-9-9 Material £ 614-8-7

Cost. Lab. & Cart. 50.5 % Material 49.5 %

Percentage Overhead 42% on Labour 15% on Cart. Engineer J.F./H.O.C.

Particulars

	Existing	New
Drain		
Ashes		
Foundation		
Sleepers		
Stringers		
Rails		
Joints		
Fastenings		
Facing		
Surfacing		
Notes :-		

See Over Page.

Work carried out by:-

- PMG Laying 4" pipes across Keilor Road.
- M.M.B.W. Sleeve 4" Water Main in Keilor R^d at Treadwell R^d.
Sleeve 3" Service pipes in Keilor R^d.
- Aerodrome Authorities Laying 104' of 3" dia. S.W. pipes
at Green S^t and Treadwell R^d.
- Laying 52' of 21" dia. S.W. pipes at Hart S^t.
- Laying 52' of 12" dia. pipes across Treadwell R^d at
Vaughan^{S^t} as temporary S.W. drain.
- Doctor Morgan Relay and connect water services.
Also lay diversionary Dutch drain.

Keilor Rd Extension to
 JOB. Essendon Aerodrome
 Open Balkast Portion W.O. No. 25129
 From N. end of curves at Keilor Rd to 350' E. of Treadwell Rd in Vaughan St.

Estimate £22460-2-0 Cost £23564-19-10

Cost per 100' of S.T. £205/18/- Cost per mile of S.T. £10,872

Length 11456' of S.T.

Work commenced 18-12-42 Work completed 29-5-43

Date of trial trip 6-5-43 Date of 1st. service 9-5-43

Traffic conditions Nil.

Cost. Lab. & Cart. ^{+OH} £11026-17-5 Material £12538-2-5
 includes other departments.

Cost. Lab. & Cart. ^{+OH} 46.8% Material 53.2%

Percentage ^{Per Way} Overhead 62% on Lab. Engineer H.H.B. / J.J.F. - HOC.
 15% on Hired Cogs.

Particulars:

Track Design P.2398.

	Existing	New	
Drain		Open earth side drains	
Ashes		22'0" wide, from 4 1/2" to 6" deep.	
Foundation	Aerodrome Land.	6" Metal under sleepers	
Sleepers		{ 8' Hewn Stringy Bark on straight.	
Stringers		{ 8' Sawn Red Gum on curves.	
Nails		New 80lb (80) BHP. GR. AGP. on curves _{only}	
Joints		Fishplates on straight, Thermit on curves	
Fastenings		{ Dogspikes on " , Knees plates	
Paving		{ bolts, clips, straps on curves & Xover.	
Surfacing		Nil.	
			Nil.

Notes:— Charged to Construction.

Chainage:— Down Track 10432' - 16164' = 5732' of S.T.
 Up " 10440 - 16164 = 5724' - -

Total: 11456' - -

Special Work:— 1 Lt. 80lb (80) Mg. Xover in Vaughan St.
 For details see Special Wk "Where laid" book page 56

Loading Platforms:— 6 Constructed

Cattle Stops :— 3 "

Fencing:— 12050' supplied by Architects Dept.; Erected by Per Way.

Work by Other Depts.— (Included in total cost on front of sheet)

Stores— P.2860. Assembly & supply of Curves into Vaughan St.

Lab. £169, O.H. £46-12-6, Mat. £794-0-1. Total £1009-12-7.

" P.2861. Assembly & supply of Xover at Terminus.

Lab. £65-6-2, O.H. £13-15-8, Mat. £486-7-11, Total £565-9-9

Architects P.9839 Constructing 3 cattle stops.

Lab. £130-12-6, O.H. £48-1-3, Mat. £143-12-2, Total £322-5-11

" P.9838 Supply of Fencing.

Lab. £117-7-6, O.H. £33-10-8, Mat. £350-3-10, Total £501-2-0

45101	LYGON ST.	Renewal of Rly./Tram Xing.	5.
45201	LONSDALE ST.	Abandonment of Cable Tracks	6.
4520A	"	at Russel St. curve. Rem. Cable tracks	7.
45151	"	at Swanslon St. C/E Xing Removal	
		See Swanslon St.	S. 50.
3501	"	at William St. C/E Xing Removal	
		See William St.	W. 5.

LYGON ST.

5/210.

JOB. Renewal of Rly-Tram Crossing W.O. No. 45,101.

From _____ to _____
Estimate £3093. Cost £3269.11.11 (see note)

Cost per 100' of _____ £ _____ Cost per mile of _____ £ _____
Length _____ of _____

Work commenced 11.9.37 Work completed 16.12.37.
Date of trial trip _____ Date of 1st. service _____
Surfaced: Jan'y. 1938.

Traffic conditions _____
Crs'. Lab. & Cart. £^{+O.H.} Material £315.17.6 supplied by M.M.T.B.
Cost. Lab. & Cart. %^{+O.H.} Material %
Percentage Overhead 55% on Lab. Engineer H.H. Bell.

Particulars

	W.O. 1473.	7-5-27	
	Existing		New
Drain	4" A.G. pipes		6" A.G. Pipes.
Ashes	Ar. 3" thickness		
Foundation	Ballast		Premixed Concrete; 67 lb. rail as re-inforcement.
Sleepers	Timbers under crossing		New timbers.
Stringers			
Rails	90 lb. outside xing		New Mn. Steel crossing
Fastenings	90 spikes " "		
Paving	Bit. Pen. Mac.		Pen. Vialit emulsion
Surfacing			1/8" filled "Merrimix"

Notes:

CHARGE: Reconstruction.

The steelwork was supplied by the Rly. Dept. and the installation of same carried out in conjunction with the Board. Cost of material & labour supplied by Rlys. was chargeable to M.M.T.B. & amt. to approx. £2102 (Rlys. 22.6.38)

Amt. spent by Board itself was 1167-11-11

Showing total cost £3269-11-11.

LONSDALE ST. ABANDONMENT OF CABLE TRACKS. Con. 1067.

JOB Removal of Tracks; Paving Roadway W.O. No. 45,201.

From Elizabeth St. at 00 to Spencer St. 2850 less 20' William St. Xing

Estimate £ 3521.0.8 **Nett Cost** £ 3389.14.11 **Nett.**

Cost per 100' of £ **Cost per mile of D.T.** £ 6320
 [Est. " 6564]

Length 2830' of D.T.

Work commenced 9.9.37. **Work completed** Dec. 1937.

Date of trial trip **Date of 1st. service**

Traffic conditions

Cost Lab. & Cart. £ ? **Material £ ?**

Cost Lab. & Cart. ? % **Material ? %**

Percentage Overhead **Engineer** M^{rs} O'Meara, R. Smith.

Particulars

	Existing	New
Drain		<u>Work done by VICTORIA ROADS PRY. LTD.</u>
Ashes		After Removal, the Tunnel was filled
Foundation		with old metal and covered with Ashes;
Stoppers		Marginal strips either side ^{of tracks} excavated
Stringers		and ashes laid. Defective Concrete
Rails		removed. The whole area then
Fastenings		covered with Rolled Concrete up
Paving		to 2" below surface level, and
Surfacing		paved with 2" hot mix asphalt.



<u>COSTS:-</u>	Payment to Contractor	→ 3429.3.11.
	Material supplied by Board to Contractor	→ 530.13.6.
	Surcharge (O.H.) on CON. PAYMENTS	→ 103.5.6.
	Boards labour	→ 172.13.10.
	Salaries	→ 378.4.0.
	Boards Cartage	→ 1.19.8.
	Overhead charge on Labour	→ 31.9.16.
	Material supplied by Board, not Chrg. to Cont.	→ 166.16.10.
	Misc. charges	→ 11.4.11.
	<u>TOTAL COST</u>	£ 4820.12.0
	Less Value Recovered Materials	949.5.9
	paid by M.C.C.	401.11.4
		1430.17.1
	<u>NETT TOTAL COST</u>	3389.14.11

Charge: Renewals

LONSDALE ST. RUSSELL ST. CURVE

JOB Rem. of Cable Tracks, & PAVING **W.D. No.** 4520 H.

(26.8.39)

From 67' W of W.B.L. Russell St. to 81' N. of N.B.L. Lonsdale St.

(Total £435) 120.18.11 M.M.T.B

Estimate £60 + £375 work Cost £ +375.0.0 Est. for M.C.C. }
by M.C.C.

Cost per 130' of S.T. £30.14.0 Cost per mile of S.T. £1621.

Length 210' 6" D.T.

Work commenced 11.9.39 Work completed 17.9.39 (SUMM. 20.9.39)

Date of issue Da-30; 1st. service

Top of conditions Ordinary Road Traffic.

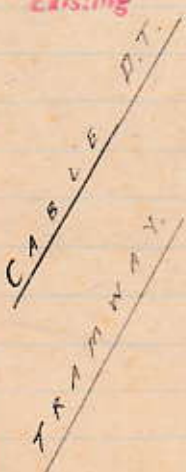
Cost Labour & O.H. £116.13.7 Material £ 12.5.4

Cost Labour & O.H. 90.5% Material 9.5%

Particulars Overhead 60 on Lab. Engineer H.H. Bell
15 H. Cart. *H.H. Bell*
W.A.R.S.

Particulars

	Existing	New
Drain		
Asph		? Bit. Pav. on. Paving with asphaltic surface
Foundation		
Sillings		
Stringers		
Rails		
Joints		
Fastenings		
Paving		
Surfacing		



CHARGE: Reconstruction (Cable)

Notes - Work consisted of removing the disused cable track materials and restoring the surface.

Work of restoring the Roadway surface done by M.C.C. at cost to Board. See P. 8583.

<u>Costs:</u> Labour	£ 62. 2. 0
(Board Work) Salaries	64. 6. 11
Cartage Hired	5. 5. 0
Boards	11. 12. 8
O'Head 60% Lab.	38. 18. 1
15% H Cart.	15. 9
Materials	12. 5. 4
	<u>195. 5. 2</u>
Credits	66. 6. 3
	<u>£ 128. 18. 11.</u>