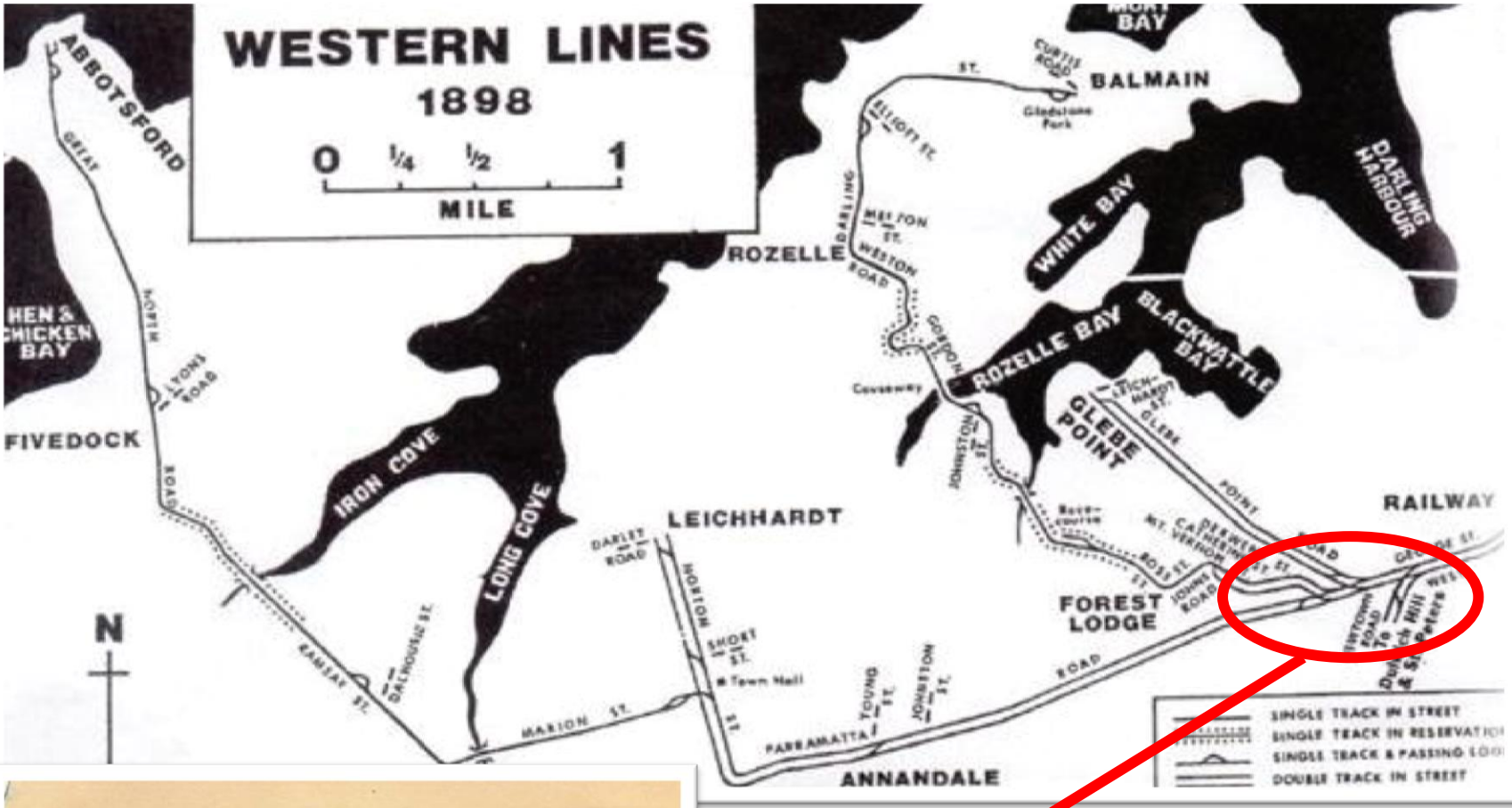
Tramway Signalling in Australia

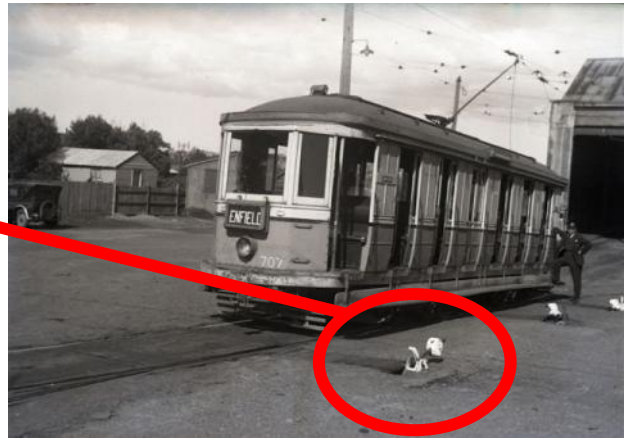


Noel F Reed (Hon FIRSE)
Sydney Tramway Museum

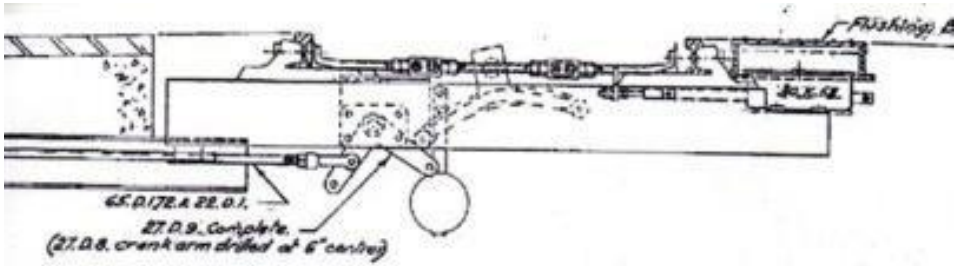

WESTERN LINES
1898
0 1/4 1/2 1
MILE
ABBOTSFORD
HEN & CHICKEN BAY
FIVEDOCK
IRON COVE
LONG COVE
ROZELLE
BALMAIN
WHITE BAY
DARLING HARBOUR
ROZELLE BAY
BLACKWATTLE BAY
GLEBE POINT
LEICHHARDT
FOREST LODGE
ANNANDALE
RAILWAY
N
SINGLE TRACK IN STREET
SINGLE TRACK IN RESERVATION
SINGLE TRACK & PASSING LOOP
DOUBLE TRACK IN STREET

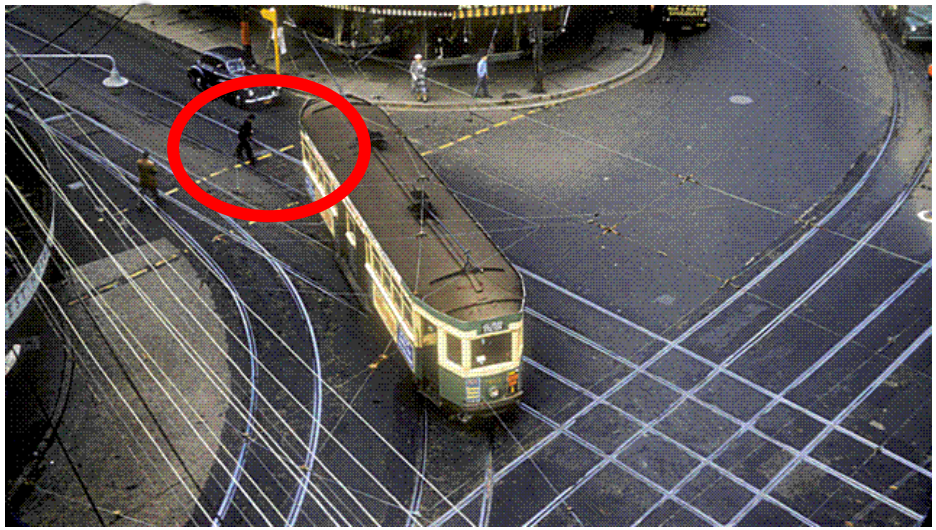


‘Throw over’ lever

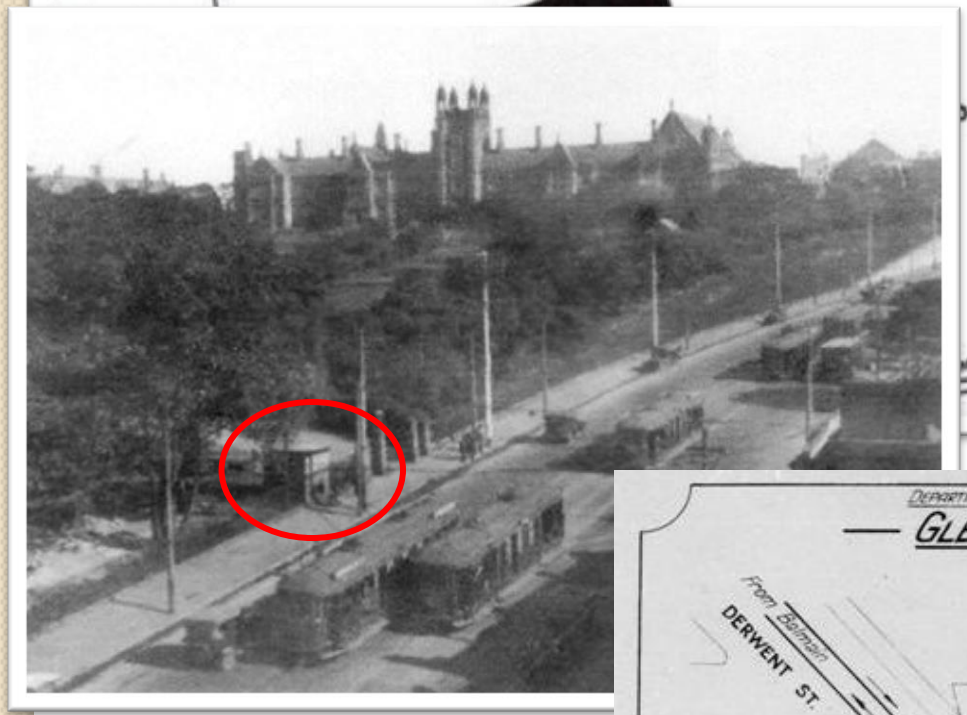


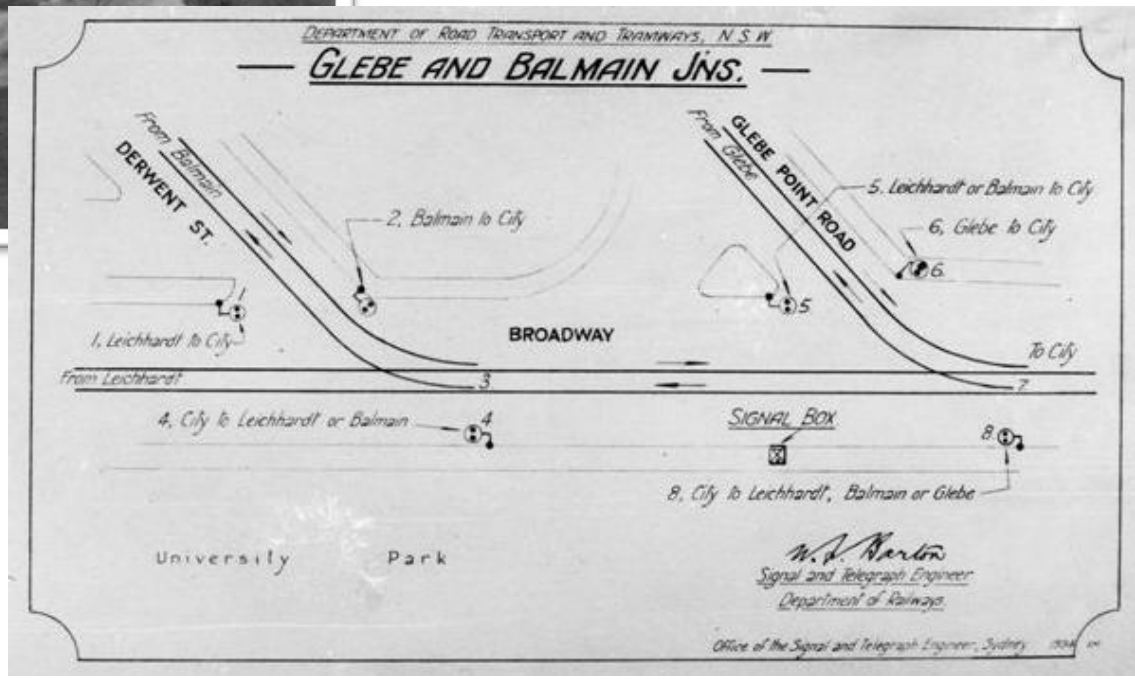
In-road mechanism



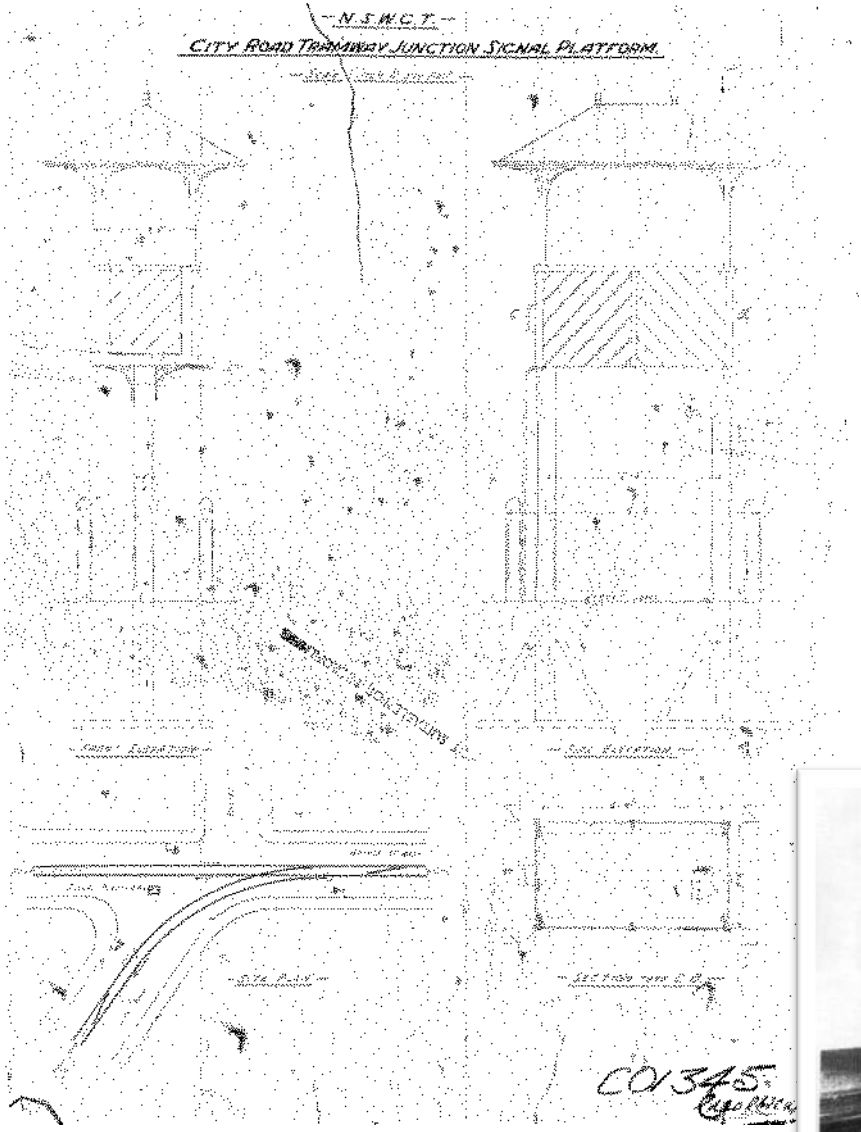




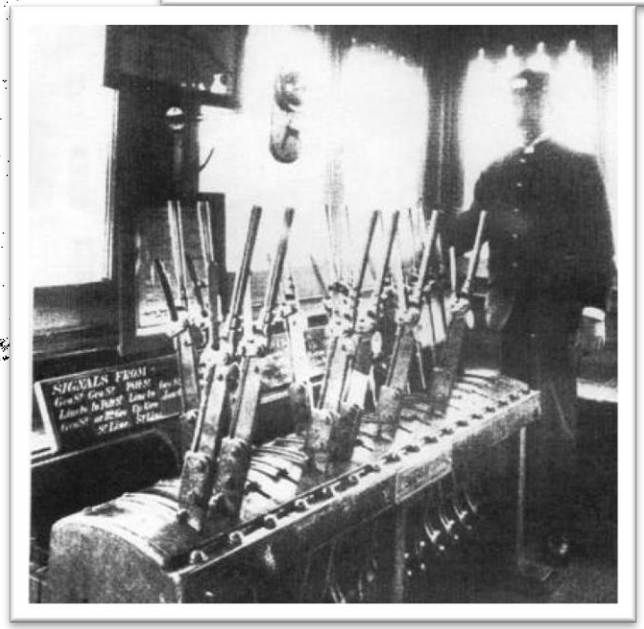



DEPARTMENT OF ROAD TRANSPORT AND TRAMWAYS, N.S.W.
GLEBE AND BALMAIN JNS.
From Balmain
DERWENT ST.
2. Balmain to City
1. Leichhardt to City
BROADWAY
From Leichhardt
4. City to Leichhardt or Balmain
From Glebe
GLEBE POINT ROAD
5. Leichhardt or Balmain to City
6. Glebe to City
To City
SIGNAL BOX
8. City to Leichhardt, Balmain or Glebe
University Park
Signal and Telegraph Engineer
Department of Railways.
Office of the Signal and Telegraph Engineer, Sydney

MILE
ROZELLE
HEN & CHICKEN BAY
WESTON ROAD
GORDON ST
ROZELLE BAY
BLACKWATTLE BAY
GLEBE POINT
JOHNSTON ST
RAILWAY
FOREST LODGE
ROSS ST
YOUNG ST
JOHNSTON ST
ANNANDALE
SINGLE TRACK IN STREET
SINGLE TRACK IN RESERVATION
SINGLE TRACK & PASSING LOOP
DOUBLE TRACK IN STREET


N.S.W.G.T.
CITY ROAD TRAMWAY JUNCTION SIGNAL PLATFORM.




SIGNALS FROM

B. Banner Signals.—The "Danger" signal is indicated by the glass-enclosed red arm being in the horizontal position, thus



The "All Clear" signal is indicated by the arm being in the vertical position, thus



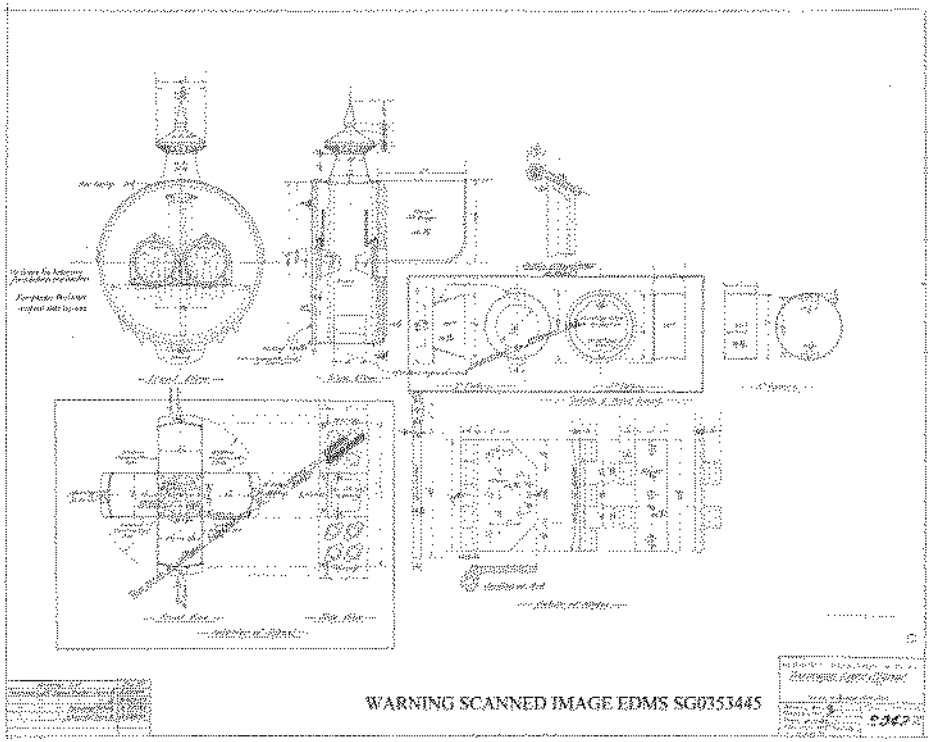
The same indications are displayed during dark, the arm being illuminated.

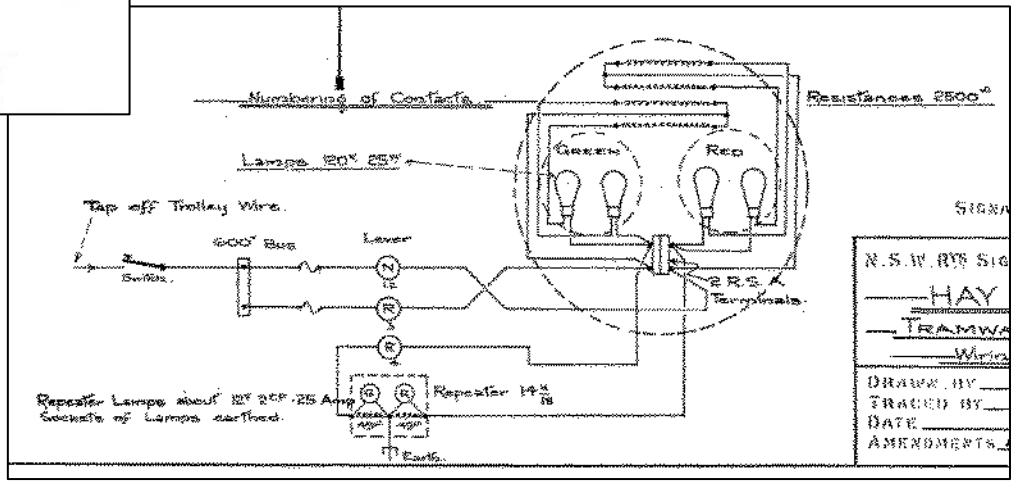
C. Light Signals—Standard.—The "Danger" indication is given by a red light during daylight and dark, thus

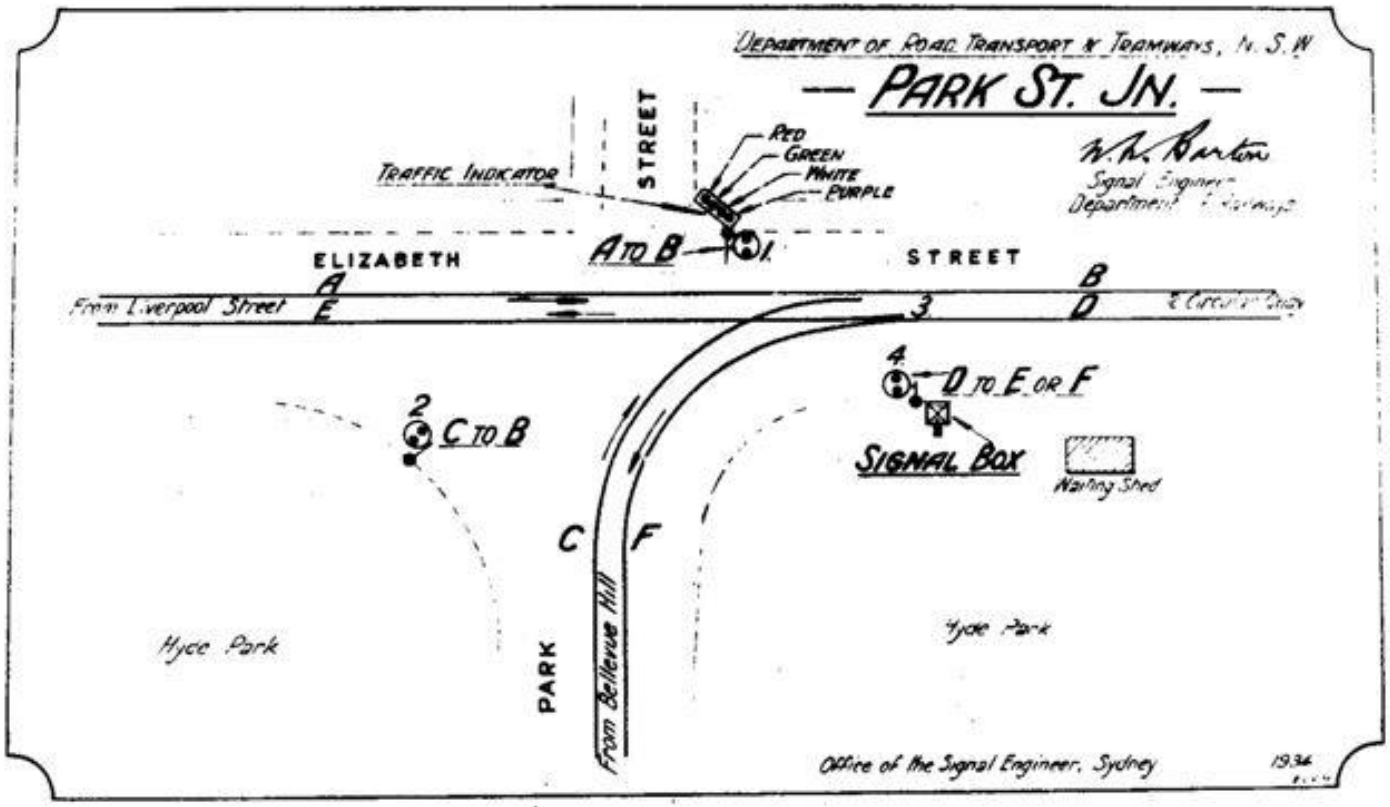


The "All Clear" indication is given by a green light during daylight and dark, thus

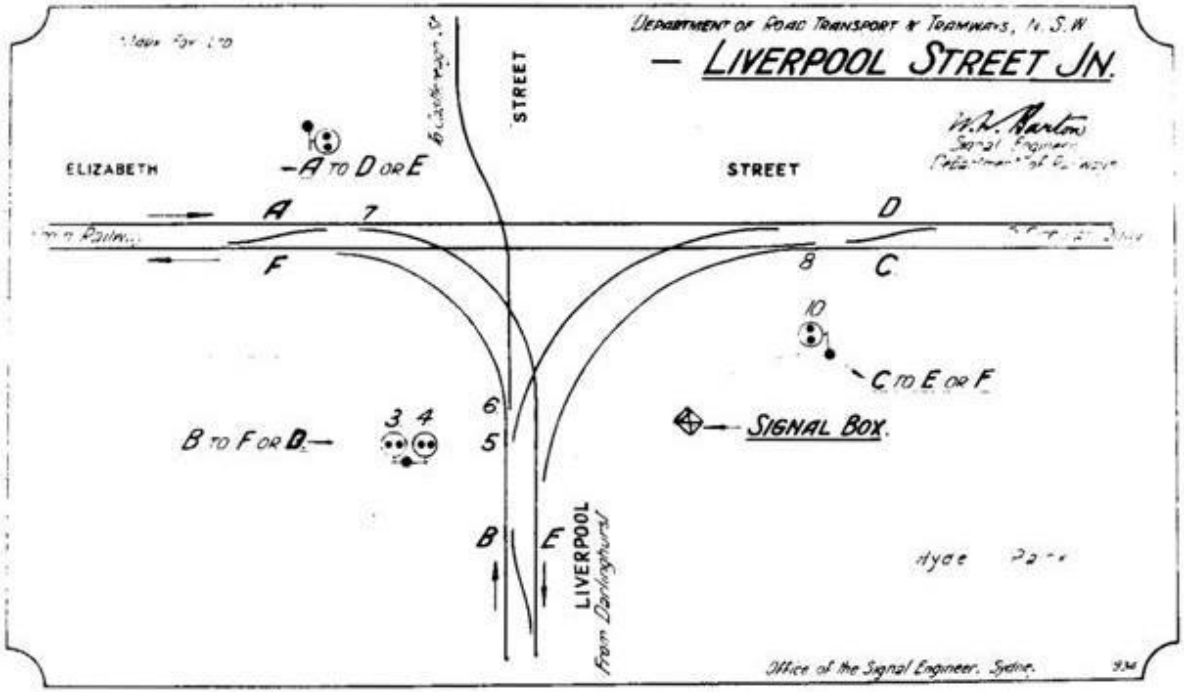


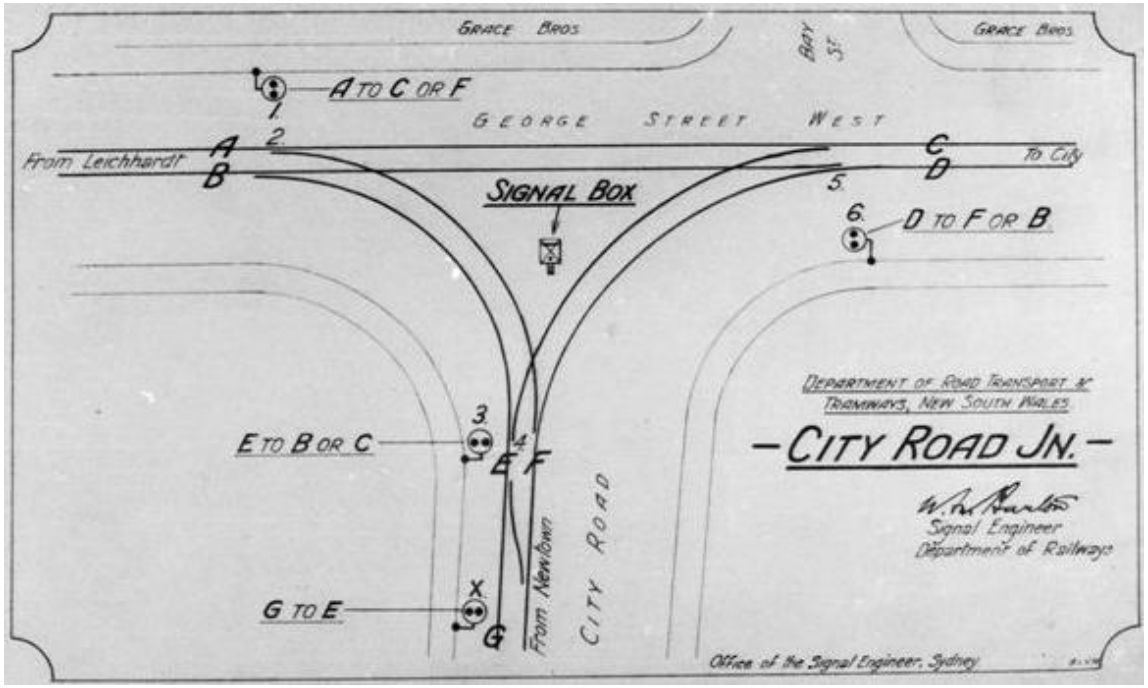


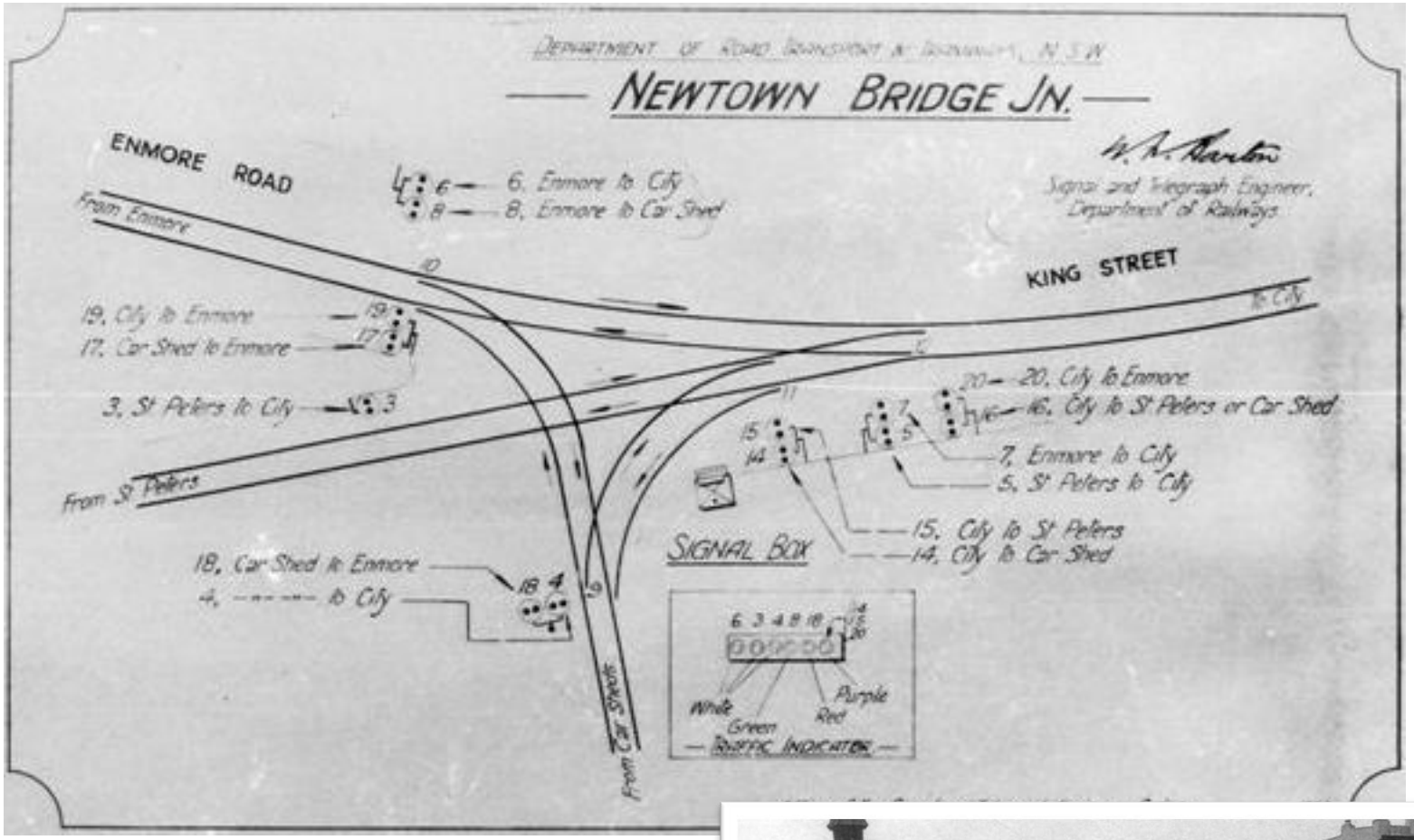



DEPARTMENT OF ROAD TRANSPORT & TRAMWAYS, N. S. W.
— PARK ST. JN. —
W. H. Barton
Signal Engineer
Department of Tramways
TRAFFIC INDICATOR
STREET
RED
GREEN
WHITE
PURPLE
ELIZABETH
A TO B
STREET
From Liverpool Street
A
E
B
D
3
4
D TO E OR F
2
C TO B
SIGNAL BOX
Nailing Shed
C
F
PARK
From Bellevue Hill
Hyde Park
Hyde Park
Office of the Signal Engineer, Sydney
1934




DEPARTMENT OF ROAD TRANSPORT & TRAMWAYS, N. S. W.
— LIVERPOOL STREET JN.
W. R. Hanton
Signal Engineer
Department of Railways
ELIZABETH
STREET
STREET
A TO D OR E
A
D
F
8
C
10
C TO E OR F
SIGNAL BOX.
B TO F OR D
3 4
6
5
B
E
LIVERPOOL
From Darlinghurst
Office of the Signal Engineer, Sydney.


GRACE BROS.
GRACE BROS.
A TO C OR F
GEORGE STREET WEST
From Leichhardt
A
B
2
C
D
To City
SIGNAL BOX
5
6
D TO F OR B
DEPARTMENT OF ROAD TRANSPORT & TRAMWAYS, NEW SOUTH WALES
— CITY ROAD JN. —
W. R. Hanton
Signal Engineer
Department of Railways
E TO B OR C
3
4
E
F
G TO E
X
G
From Newtown
CITY ROAD
Office of the Signal Engineer, Sydney

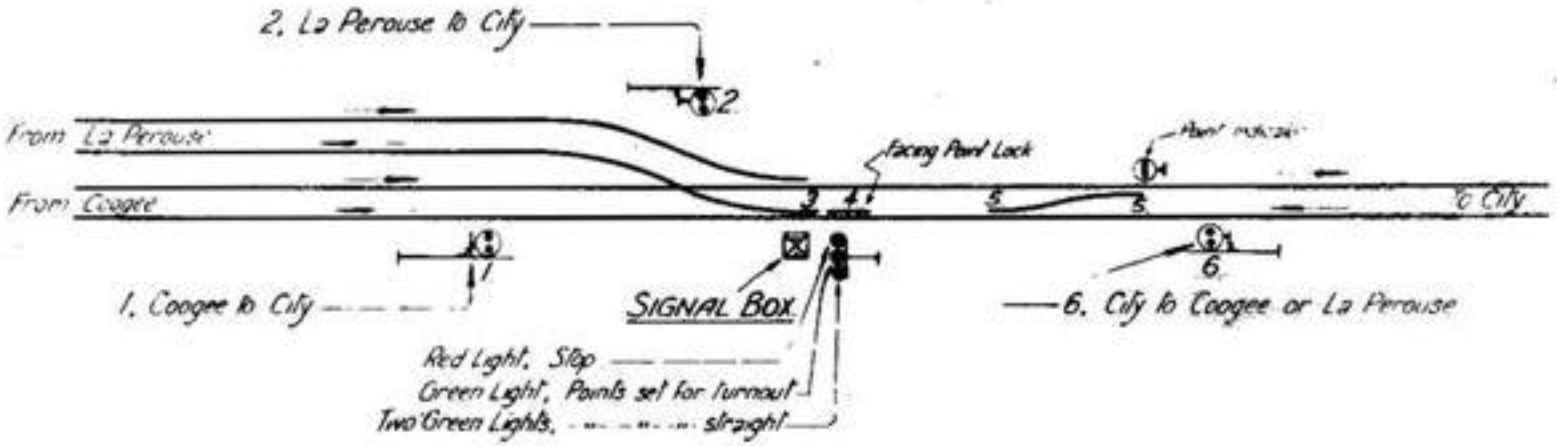

DEPARTMENT OF ROAD TRANSPORT & TRAFFIC, N.S.W.
NEWTOWN BRIDGE JN.
ENMORE ROAD
From Enmore
6. Enmore to City
8. Enmore to Car Shed
W. A. Hamilton
Signal and Telegraph Engineer,
Department of Railways
KING STREET
To City
19. City to Enmore
17. Car Shed to Enmore
3. St Peters to City
From St Peters
20. City to Enmore
16. City to St Peters or Car Shed
7. Enmore to City
5. St Peters to City
15. City to St Peters
14. City to Car Shed
SIGNAL BOX
18. Car Shed to Enmore
4. ---- to City
From Car Sheds
6 3 4 9 18
White
Green
Purple
Red
TRAFFIC INDICATOR


NEWTOWN
LAGER TB AIR

DEPARTMENT OF ROAD TRANSPORT AND TRAMWAYS, N.S.W.

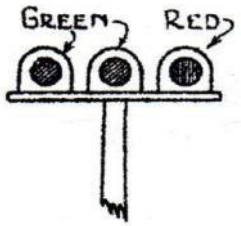
KENSINGTON JN.

W. A. Purton
Signal and Telegraph Engineer
Department of Railways



Office of the Signal and Telegraph Engineer, Sydney. 1934.

E. Colour Light Indicator (Kensington Junction).—This indicator is provided at a facing junction, and consists of three electric lamps, fixed horizontally, thus

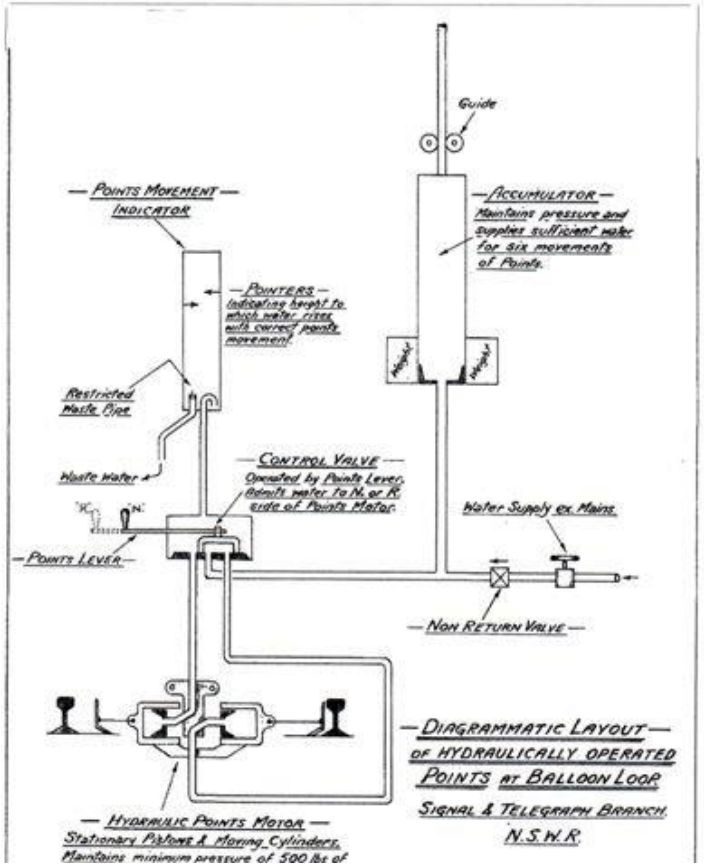


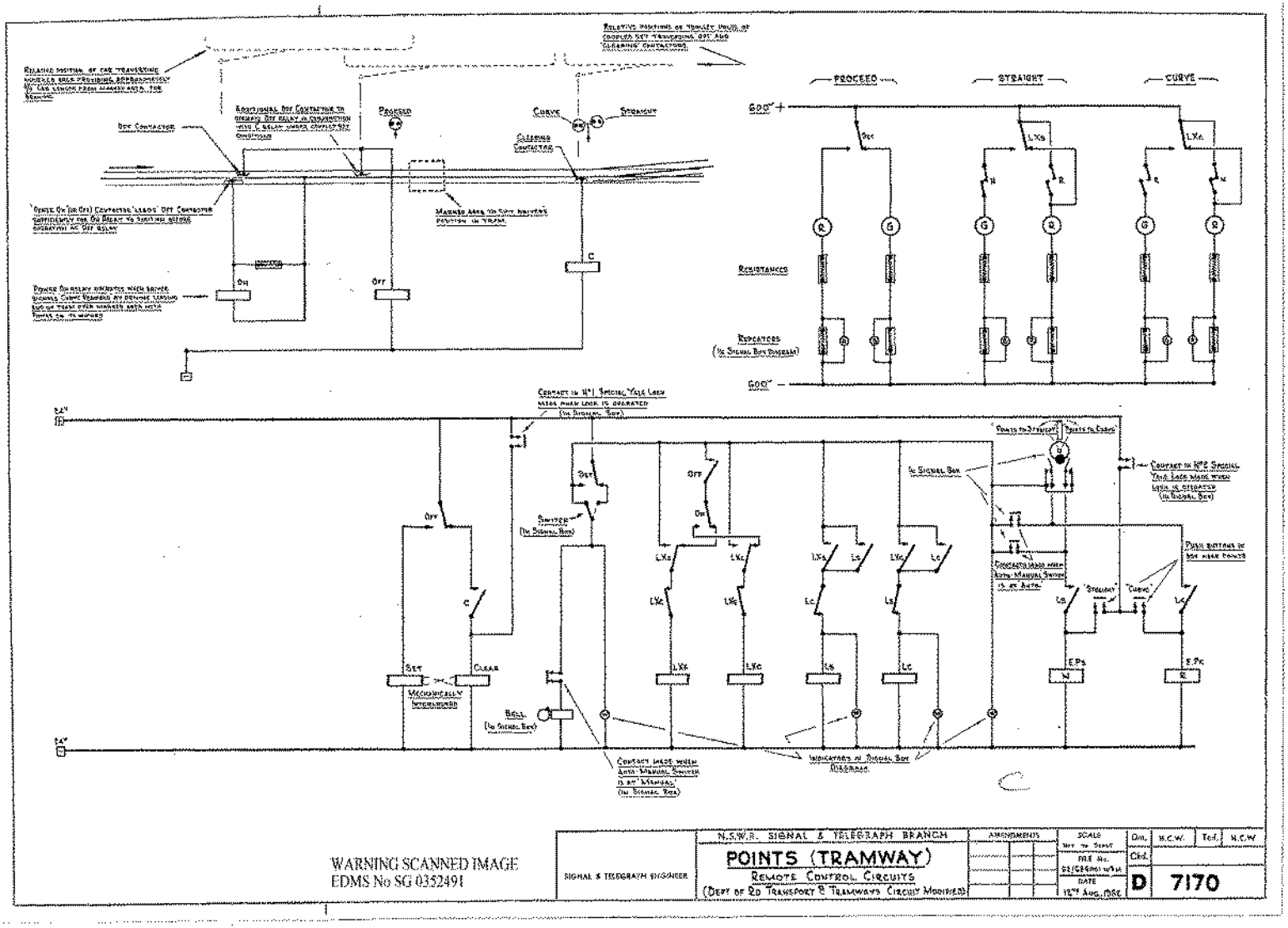
The indications displayed are as follow:—

Red Light	"Danger."
One Green Light	"All Clear"—Points set for La Perouse line.
Two Green Lights	"All Clear"—Points set for Coogee line.

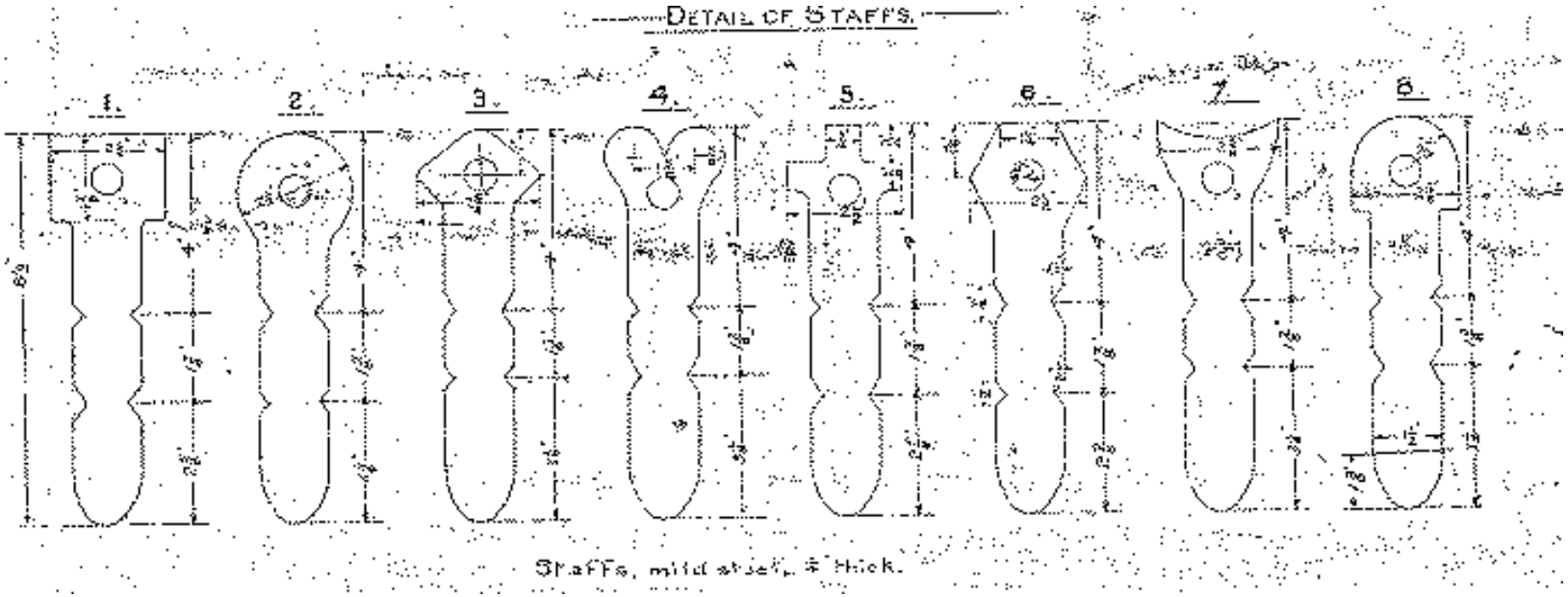


‘Type L’ Frame
ex Queens Square





WARNING SCANNED IMAGE
EDMS No SG 0352491


DETAIL OF STAFFS.
1.
2.
3.
4.
5.
6.
7.
8.
Staffs, mild steel, ¼" thick.



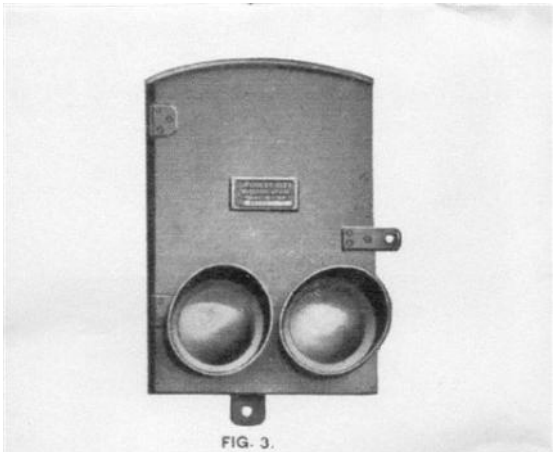


FIG. 3.

Type "B" Non Car Counting Signals

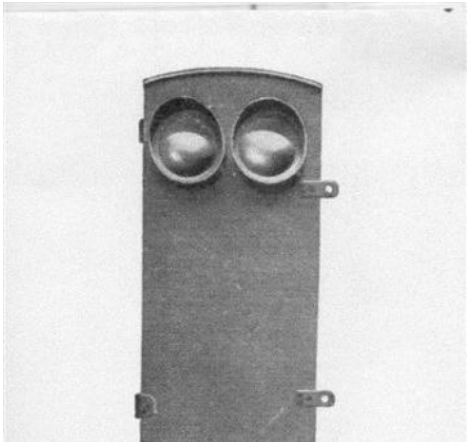
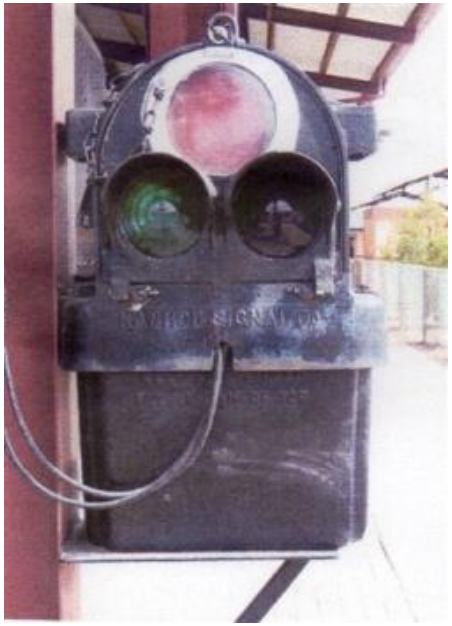
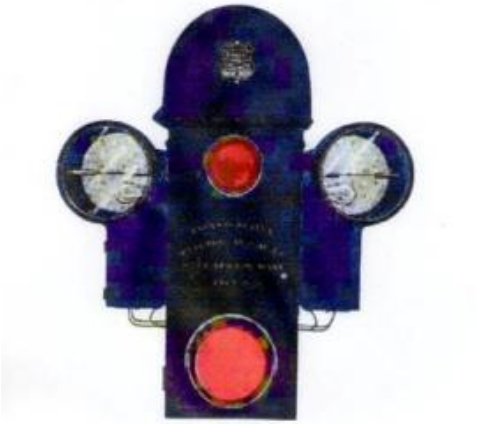


FIG. 2.

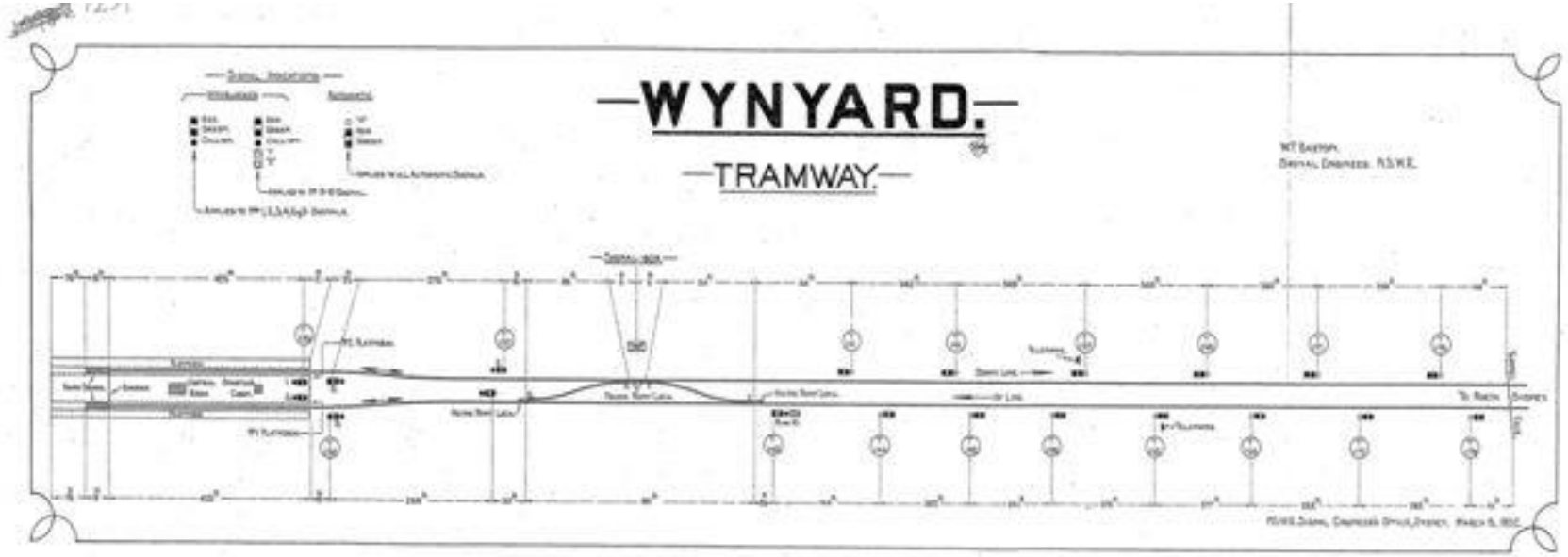
Type "C" Car Counting Signal
To count up to 10 Cars.



UNITED STATES
ELECTRIC SIGNALS

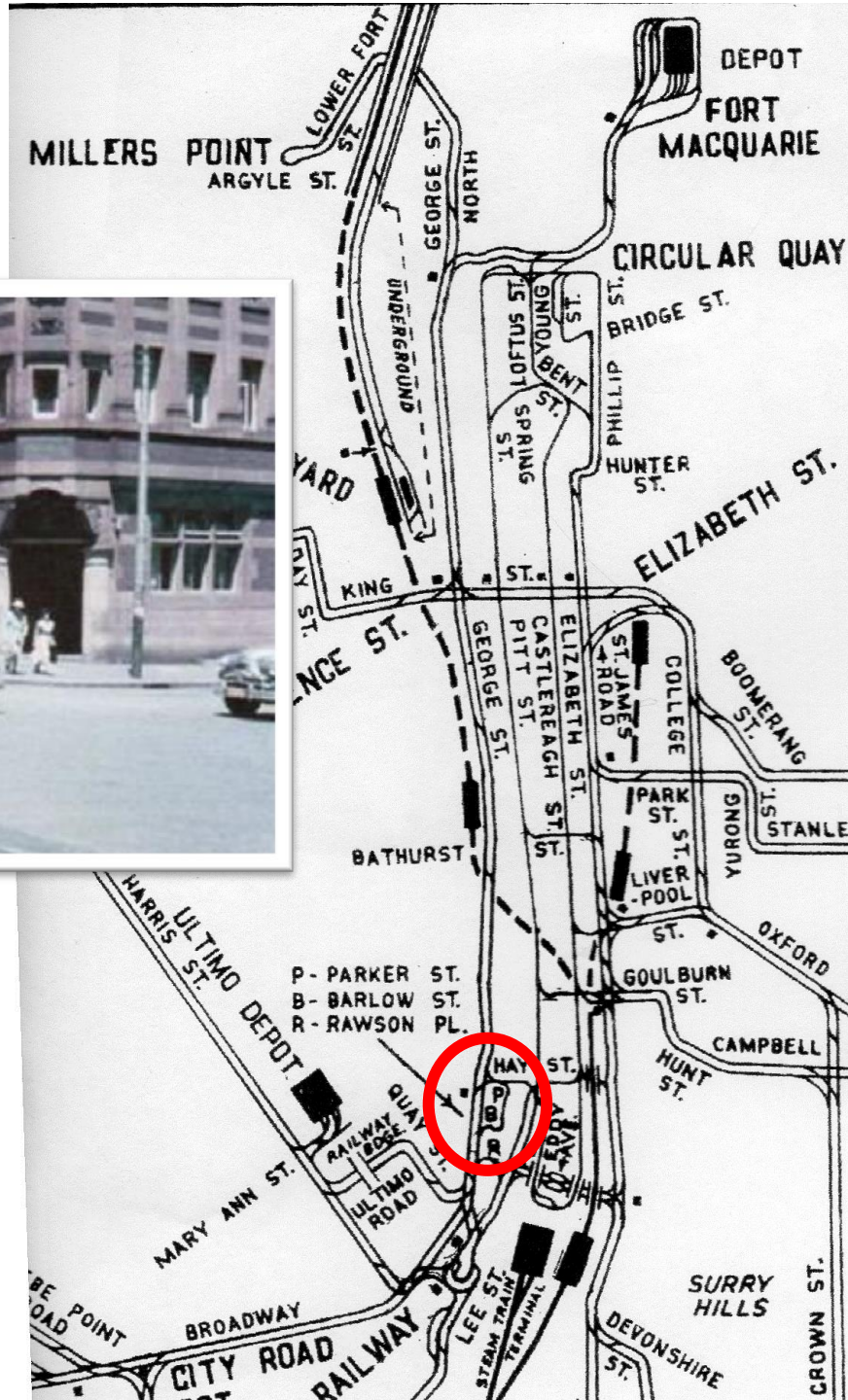


Type K-2 Signal


WYNYARD.
TRAMWAY.

George & Hay St



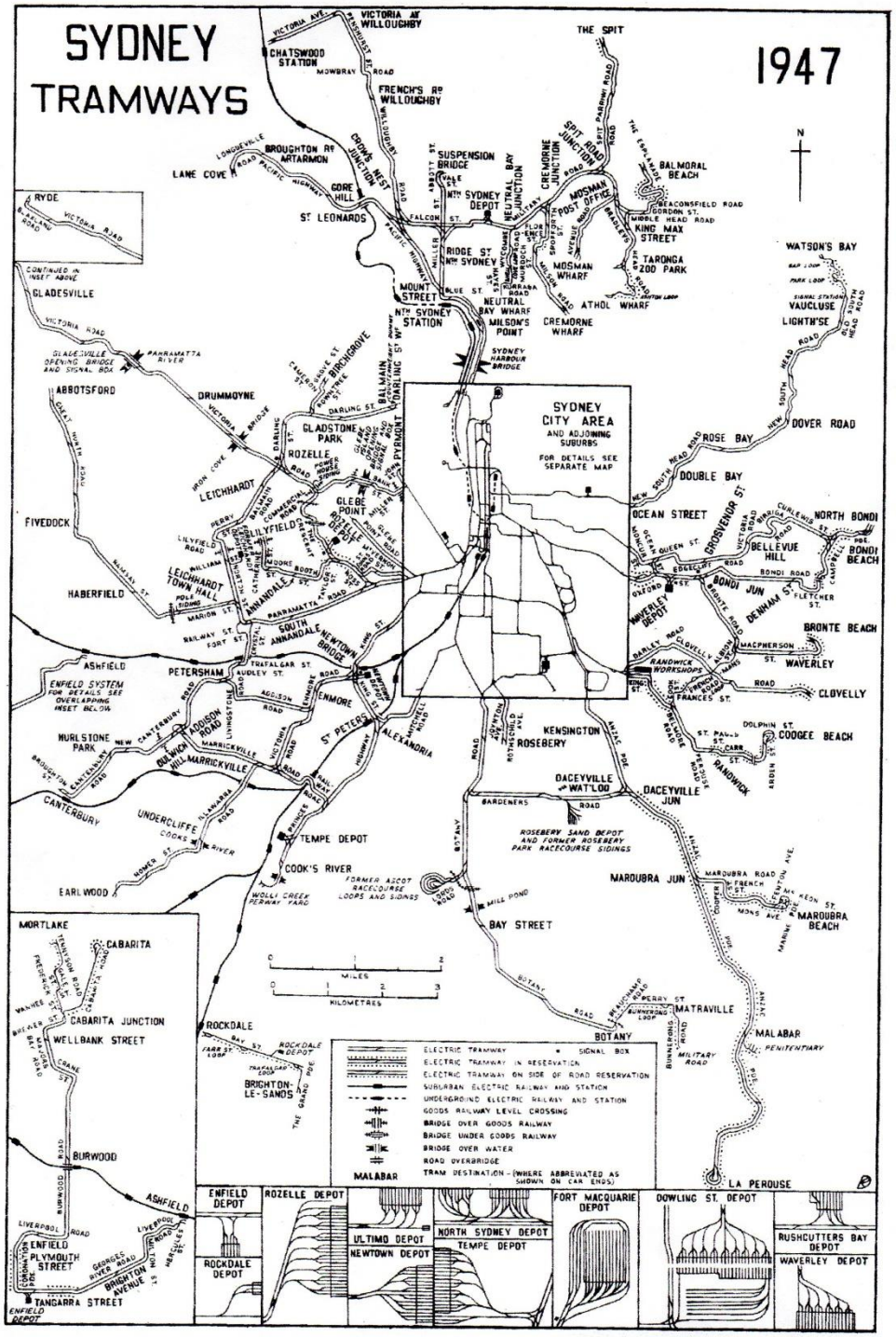




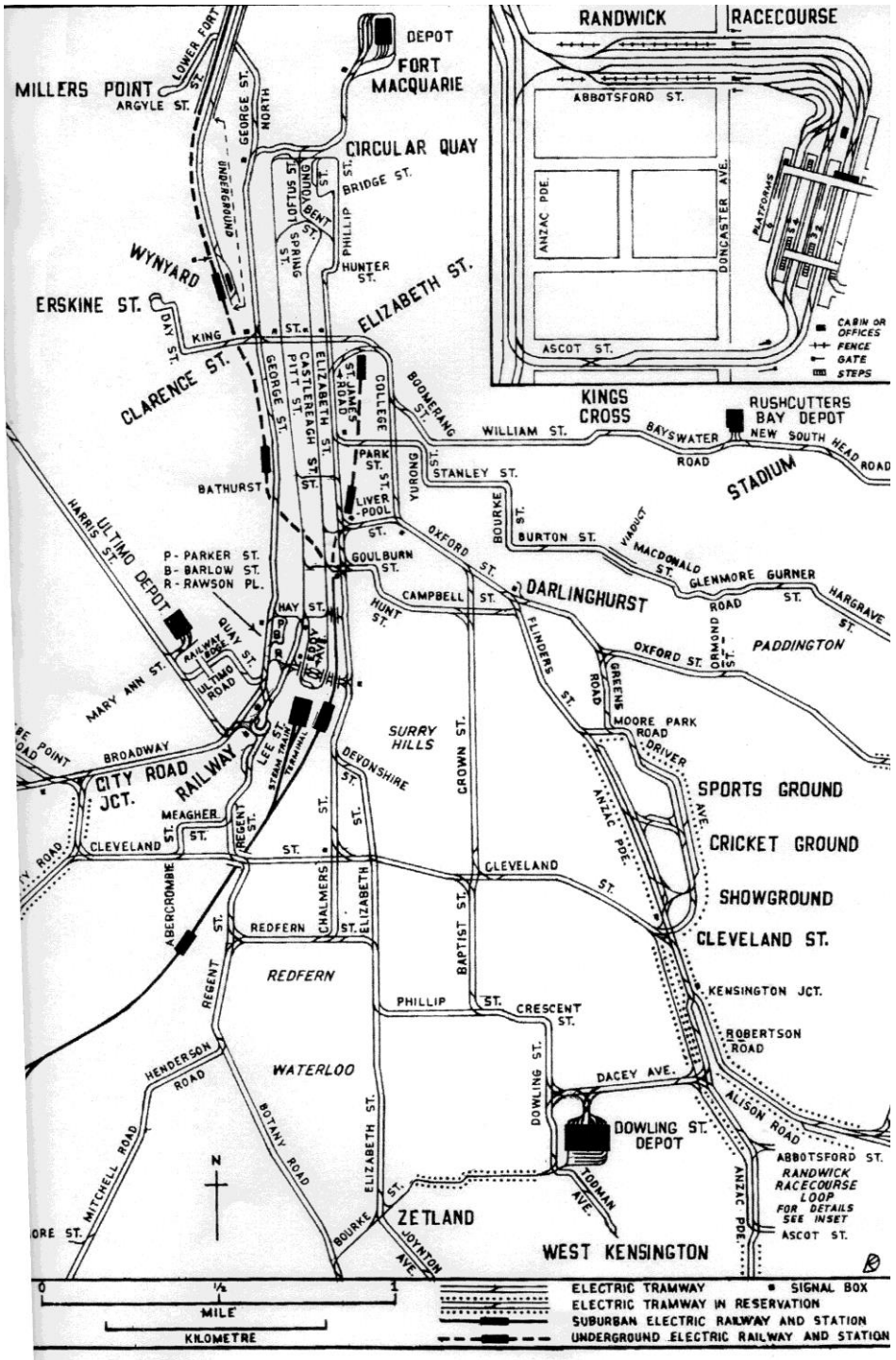
Adelaide



Questions?


SYDNEY TRAMWAYS
1947
SYDNEY CITY AREA
AND ADJOINING SUBURBS
FOR DETAILS SEE SEPARATE MAP
ELECTRIC TRAMWAY
ELECTRIC TRAMWAY IN RESERVATION
ELECTRIC TRAMWAY ON SIDE OF ROAD RESERVATION
SUBURBAN ELECTRIC RAILWAY AND STATION
UNDERGROUND ELECTRIC RAILWAY AND STATION
GOODS RAILWAY LEVEL CROSSING
BRIDGE OVER GOODS RAILWAY
BRIDGE UNDER GOODS RAILWAY
BRIDGE OVER WATER
ROAD OVERBRIDGE
TRAM DESTINATION - (WHERE ABBREVIATED AS SHOWN ON CAR ENDS)
ENFIELD DEPOT
ROCKDALE DEPOT
ROZELLE DEPOT
ULTIMO DEPOT
NEWTOWN DEPOT
NORTH SYDNEY DEPOT
TEMPE DEPOT
FORT MACQUARIE DEPOT
DOWLING ST. DEPOT
RUSHCUTTERS BAY DEPOT
WAVERLEY DEPOT

Questions?


RANDWICK RACECOURSE
ABBOTSFORD ST.
ANZAC PDE.
DONCASTER AVE.
PLATFORMS
ASCOT ST.
CABIN OR OFFICES
FENCE
GATE
STEPS
DEPOT
FORT MACQUARIE
MILLERS POINT
ARGYLE ST.
LOWER FORT ST.
GEORGE ST. NORTH
UNDERGROUND
CIRCULAR QUAY
LOFTUS ST.
YOUNG ST.
BRIDGE ST.
SPRING ST.
BENT ST.
PHILLIP ST.
HUNTER ST.
WYNYARD
ERSKINE ST.
DAY ST.
KING ST.
ELIZABETH ST.
CLARENCE ST.
GEORGE ST.
CASTLEREAGH ST.
PITT ST.
ELIZABETH ST.
ST. JAMES ROAD
COLLEGE ST.
BOOMERANG ST.
KINGS CROSS
RUSHCUTTERS BAY DEPOT
WILLIAM ST.
BAYSWATER ROAD
NEW SOUTH HEAD ROAD
STADIUM
PARK ST.
LIVERPOOL ST.
STANLEY ST.
YURONG ST.
BATHURST
BOURKE ST.
BURTON ST.
VIADUCT
MACDONALD ST.
GLENMORE ROAD
GURNER ST.
HARGRAVE ST.
HARRIS ST.
ULTIMO DEPOT
P - PARKER ST.
B - BARLOW ST.
R - RAWSON PL.
GOULBURN ST.
OXFORD ST.
CAMPBELL ST.
DARLINGHURST
HUNT ST.
HAY ST.
QUAY ST.
RAILWAY TERRACE
ULTIMO ROAD
MARY ANN ST.
FLINDERS ST.
ORMOND ST.
PADDINGTON
GREENS ROAD
MOORE PARK ROAD
DRIVER
BROADWAY
CITY ROAD
RAILWAY
JCT.
LEE ST.
STORM TRAFFIC TERMINAL
SURRY HILLS
DEVONSHIRE ST.
CROWN ST.
ANZAC PDE.
SPORTS GROUND
CRICKET GROUND
SHOWGROUND
MEAGHER ST.
REGENT ST.
CLEVELAND ST.
ABERCROMBIE ST.
REDFERN
CHALMERS ST.
ELIZABETH ST.
BAPTIST ST.
CLEVELAND ST.
KENSINGTON JCT.
REGENT ST.
PHILLIP ST.
CRESCENT ST.
ROBERTSON ROAD
HENDERSON ROAD
WATERLOO
DACEY AVE.
DOWLING ST.
DOWLING ST. DEPOT
ALISON ROAD
ABBOTSFORD ST.
RANDWICK RACECOURSE LOOP FOR DETAILS SEE INSET
ASCOT ST.
MITCHELL ROAD
BOTANY ROAD
ELIZABETH ST.
BOURKE ST.
JOYNTON AVE.
ZETLAND
TODMAN AVE.
WEST KENSINGTON
ANZAC PDE.
N
0
1/2
1
MILE
KILOMETRE
ELECTRIC TRAMWAY
ELECTRIC TRAMWAY IN RESERVATION
SUBURBAN ELECTRIC RAILWAY AND STATION
UNDERGROUND ELECTRIC RAILWAY AND STATION
SIGNAL BOX