

BRITISH RAILWAYS

(LONDON MIDLAND REGION)

SUPPLEMENTARY NOTICE OF SIGNALLING ALTERATIONS

INTRODUCTION OF RADIO ELECTRONIC TOKEN BLOCK  
WORKING BETWEEN SHREWSBURY AND ABERYSTWYTH/PWLLHELI

CREWE  
September, 1988

P. G. RAYNER  
REGIONAL OPERATIONS MANAGER

# SIGNALLING RECORD SOCIETY

[www.s-r-s.org.uk](http://www.s-r-s.org.uk)

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### COMMISSIONING SCHEDULE

The altered signalling arrangements described herein will be brought into use progressively in three stages as follows:

#### FRIDAY 30TH SEPTEMBER (STAGE 1)

Sutton Bridge to Machynlleth

#### SATURDAY 1ST OCTOBER (STAGE 2)

Dovey Jn to Aberystwyth and Dovey Jn to Barmouth \*

\* At this stage, Radio Electronic Token Block working will be brought into use on the Dovey Jn side of Barmouth but Electric Token Block working will apply between Barmouth and Harlech. Also, the level crossing barriers will be on local control, pending the introduction of Trainmen-operated barriers.

#### SUNDAY 2ND OCTOBER (STAGE 3)

Barmouth to Pwllheli (excluding Porthmadog Trainmen-operated barriers which will be brought into use on Wednesday 12th October)

### DESCRIPTION OF SCHEME

Westbury, Welshpool, Newtown, Caersws, Talerddig, Dovey Jn, Tywyn, Barmouth, Harlech and Porthmadog signal boxes will be closed as block posts and Electric Token/No Signalman Token working will be withdrawn. Westbury and Caersws boxes will remain manned by a Crossing Keeper (See below)

Machynlleth signal box will control all train movements between Sutton Bridge Jn and Aberystwyth and between Dovey Jn and Pwllheli.

### METHODS OF WORKING

The line between Machynlleth and Dovey Jn will continue to be worked in accordance with the Track Circuit Block System.

On all other lines, Radio Electronic Token Block working will be introduced, controlled from Machynlleth signal box.

Token exchange points will be provided at the following locations:

Sutton Bridge Jn	Tywyn
Westbury	Barmouth
Welshpool	Llanaber(not crossing place)
Talerddig	Harlech
Machynlleth	Porthmadog
Dovey Jn	Penychain(not crossing place)
Borth(not crossing place)	Pwllheli
Aberystwyth	

Emergency telephones giving communication with Machynlleth signal box will be provided in a locked cupboard at all token exchange points on

the side of the line indicated on the enclosed plans. The locked cupboard will be opened by a B.R. No. 1 key.

A token will normally apply between one Token exchange point and the next in the direction of travel. At Talerddig, Borth, Tywyn, Llanaber and Penychain token exchange points, a yellow sign will be provided at both the down and up direction stop boards, authorising Drivers who are in possession of 'Long section' tokens issued at the previous token exchange point, to proceed without carrying out the token exchange procedure. In such circumstances, Drivers must continue to advise the Signaller at Machynlleth box when their train has passed the Train clear marker board.

#### RADIO CHANNELS

The extent of the area covered by each radio channel is as shown on the enclosed plans.

#### MOTOR TROLLEY MAINTENANCE

All lineside telephones situated between former block posts provided with motor trolleys will be taken away.

The existing arrangements for carrying out track maintenance utilising occupation key tokens at trolley 'run off' points will cease and the "WORKING INSTRUCTIONS FOR THE MOTOR TROLLEY SYSTEM OF MAINTENANCE" booklet, dated July 1985 is CANCELLED.

Occupation of the line by the Engineering Departments will henceforth be normally by the issue of an 'Engineering token' applicable between distant marker boards at adjacent token exchange points. Rule Book, Section T, Part III protection may however still be used when appropriate.

#### LEVEL CROSSINGS

At the following gated public road level crossings, the signals will be retained and a Crossing Keeper will be on duty. A Driver must not proceed over any of these crossings, even though he is in possession of the necessary token until the signal protecting the crossing is cleared or the Crossing Keeper authorises him to proceed:

Westbury	Bennar Fawr
Llanidloes Road	Merllyn
Caersws	
Carno	
Borth Capel Soar	
Llandre	

#### GROUND FRAMES

The following ground frames will be controlled by Annetts keys kept in a locked cupboard on site. Access to the cupboard will be by means of a key attached to the Cab display unit key.

Welshpool  
Newtown  
Talerddig  
Aberystwyth Nos. 1 and 2

Tywyn  
Barmouth North  
Porthmadog  
Pwllheli Crossing  
Pwllheli West

#### PERMISSIVE WORKING

Permissive working on the down main platform line at Barmouth will be withdrawn from Saturday 1st October. The down main and 'up & down' main lines will be renamed 'down loop' and 'up loop' respectively.

#### TRAIN-OPERATED POINTS

Except at Machynlleth, train-operated points are provided at all crossing loops and lie normally for left-hand running. A speed restriction of 15mph applies over all such points. A pump handle, clips and scotches are provided in a locked cupboard at each location. Access to the cupboard is by means of a B.R. No. 1 key.

If the yellow 'points indicator' light is not illuminated or a train to which the appropriate section token has been issued, requires to run to the opposite direction crossing loop at a token exchange point, the points must be manually operated by means of the pump handle and secured by clip and scotch. NOTE. At WESTBURY a points indicator light is not provided in the up direction due to the presence of the stop signal protecting the level crossing. In this case it will only be necessary to clip and scotch the points if the Driver is authorised to pass the signal at Danger in accordance with the Rules and Regulations.

A shunting movement which requires to be made through a set of train-operated points in a trailing direction against the normal lie must proceed completely through the points before any setting-back movement is made. If the shunting movement requires to set back on the same line, the points must be secured by clip and scotch before any backwards movement is made.

#### AUTOMATIC WARNING SYSTEM(AWS)

AWS track equipment is provided between Machynlleth and Dovey Jn and at all distant marker boards and at all advance warning boards approaching automatic level crossings.

#### LONG SECTION TOKENS

The following long section tokens will be available:

NEWTOWN to MACHYNLLETH	MACHYNLLETH to NEWTOWN
DOVEY JN to ABERYSTWYTH	ABERYSTWYTH to DOVEY JN
DOVEY JN to BARMOUTH	BARMOUTH to DOVEY JN
BARMOUTH to HARLECH	HARLECH to BARMOUTH
PORTHMADOG to PWLLHELI	PWLLHELI to PORTHMADOG

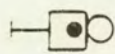
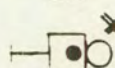
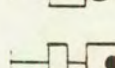
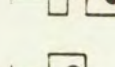
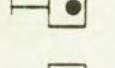
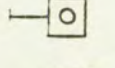
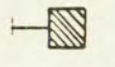
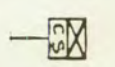
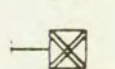
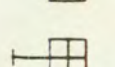
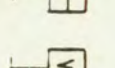
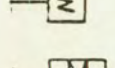
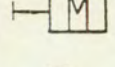
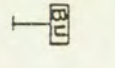
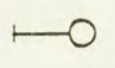
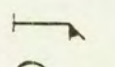
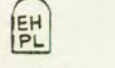

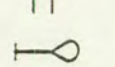
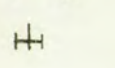
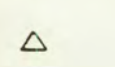
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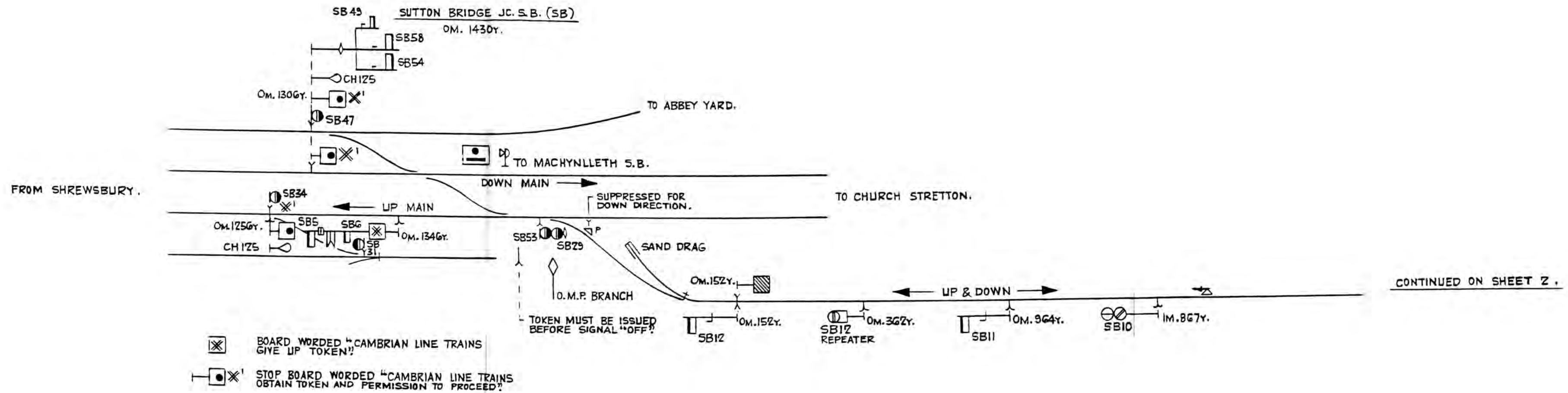
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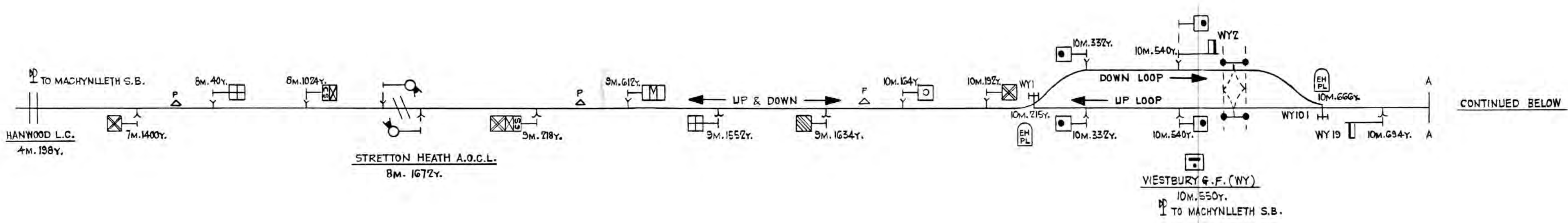
110 E  
Sep 1988

## PROVISION OF RADIO ELECTRONIC TOKEN BLOCK.

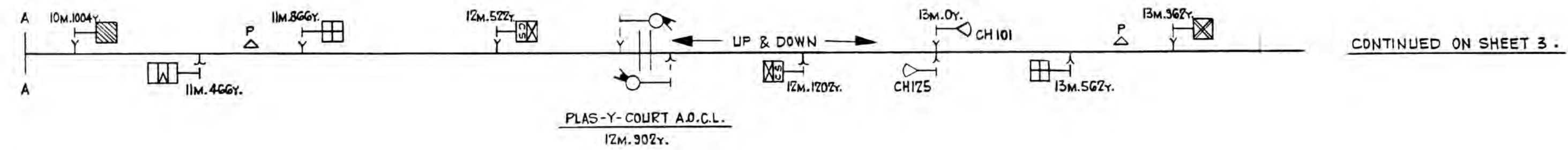
### KEY TO SYMBOLS.

-  STOP BOARD WORDED "OBTAIN TOKEN AND PERMISSION TO PROCEED, OPERATE BARRIERS AND OBTAIN WHITE LIGHT BEFORE PROCEEDING"
-  STOP BOARD WORDED "OPERATE BARRIERS AND OBTAIN WHITE LIGHT BEFORE PROCEEDING"
-  BOARD WORDED "DRIVERS IN POSSESSION OF A LONG SECTION TOKEN MAY PROCEED"
-  STOP BOARD WORDED "OBTAIN TOKEN AND PERMISSION TO PROCEED"
-  BOARD WORDED "POINTS INDICATOR" WITH YELLOW PROCEED LIGHT.
-  TRAIN CLEAR MARKER / STATION LIMITS.
-  CROSSING SPEED BOARD.
-  "CANCEL AWS" INDICATOR BOARD.
-  LEVEL CROSSING ADVANCE WARNING BOARD.
-  WHISTLE BOARD.
-  DISTANT BOARD.
-  "BARRIERS UP" INDICATOR.
-  DRIVERS FLASHING WHITE LIGHT (NORMALLY OUT).
-  SIMULATED TRAIN HEADLAMP (NORMALLY OUT).
-  EMERGENCY HAND PUMP LEVER HOUSED IN LOCKED CUPBOARD.
-  UNSTAFFED CROSSING.
-  CHANNEL CHANGE MARKER BOARD.
-  TRAIN OPERATED POINTS.
-  STANDARD AWS.
-  PERMANENT MAGNET ONLY.
-  EFFECTIVE FOR MOVES IN DIRECTION OF ARROW ONLY. SUPPRESSED FOR MOVES IN OPPOSITE DIRECTION.



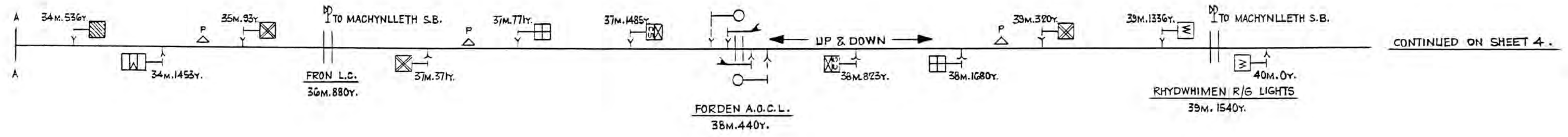
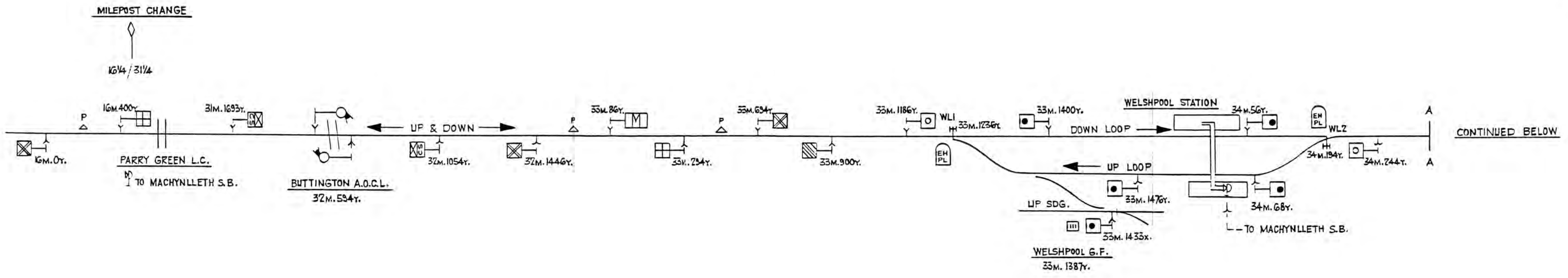


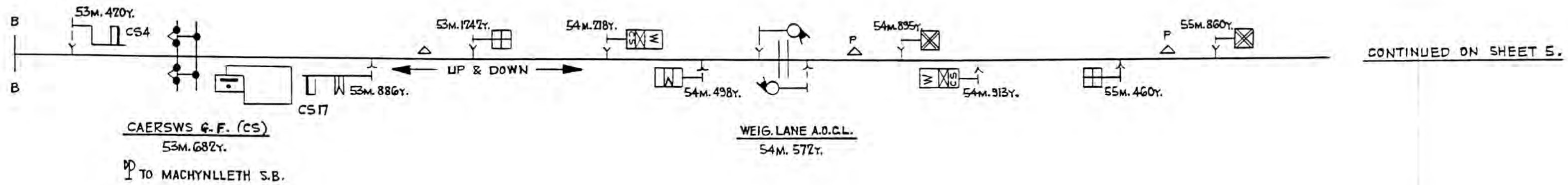
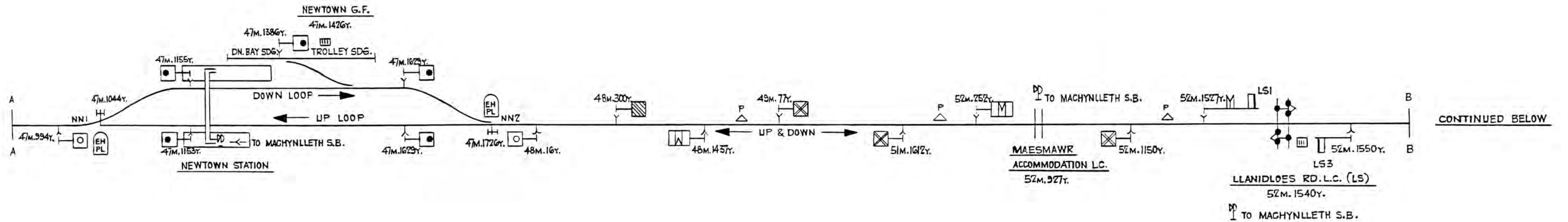
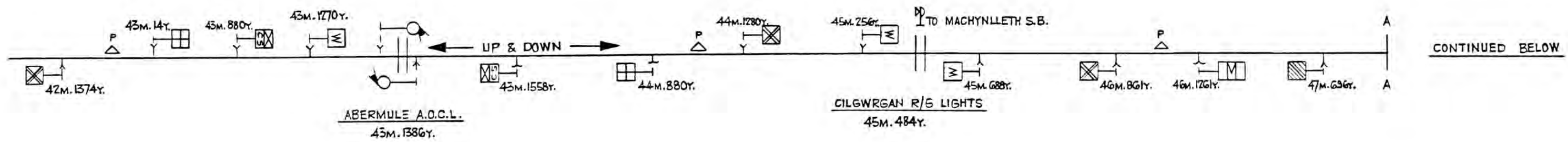
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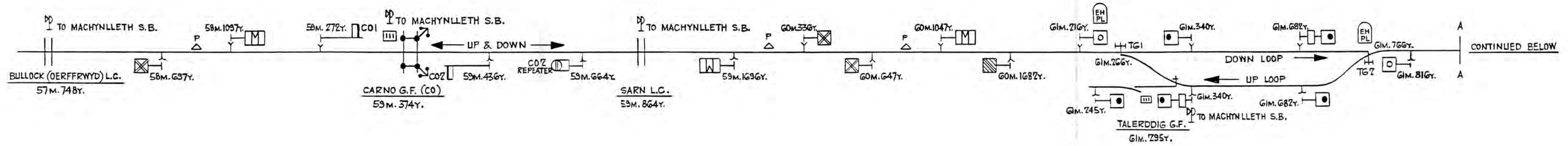


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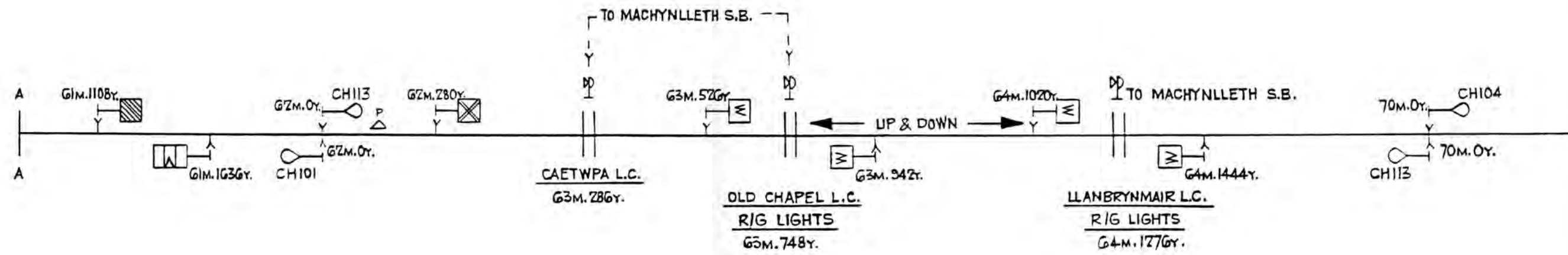




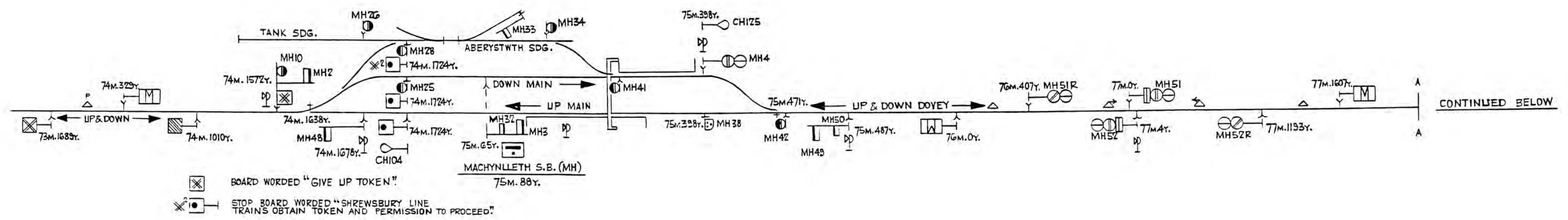




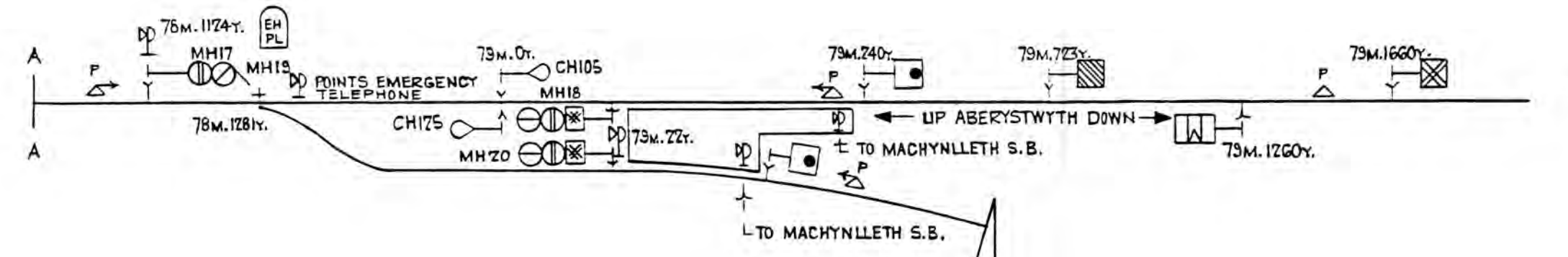
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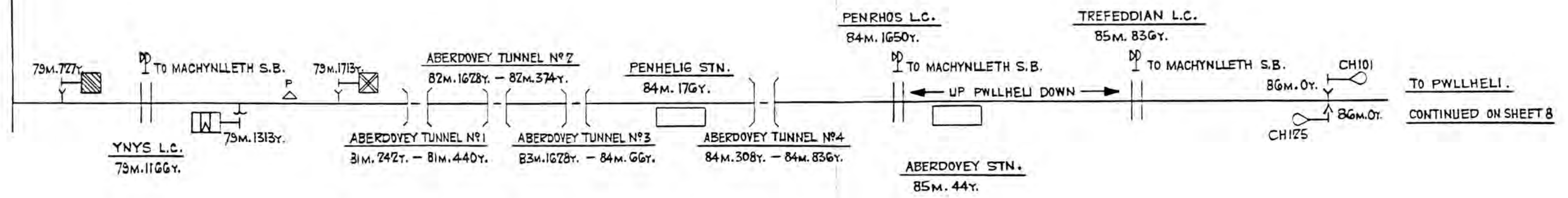
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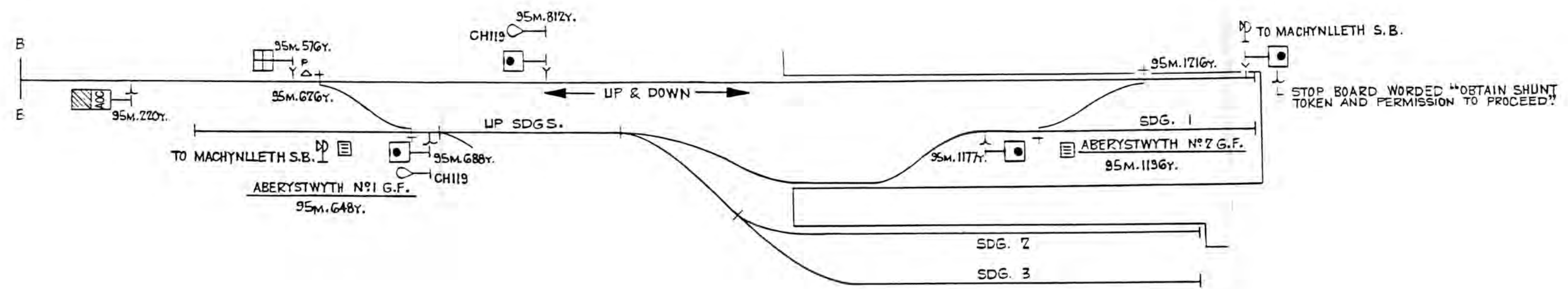
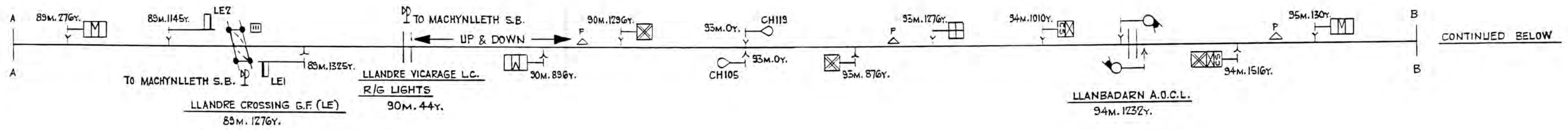
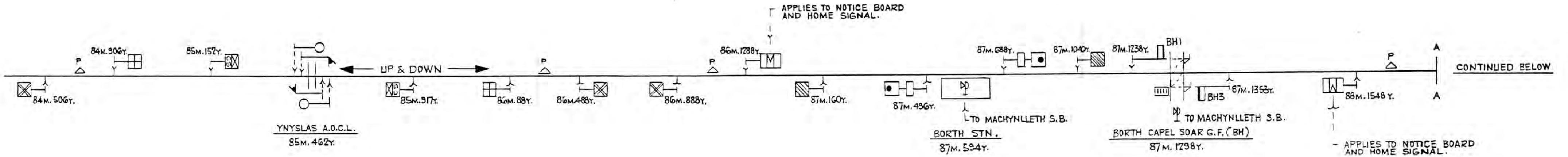


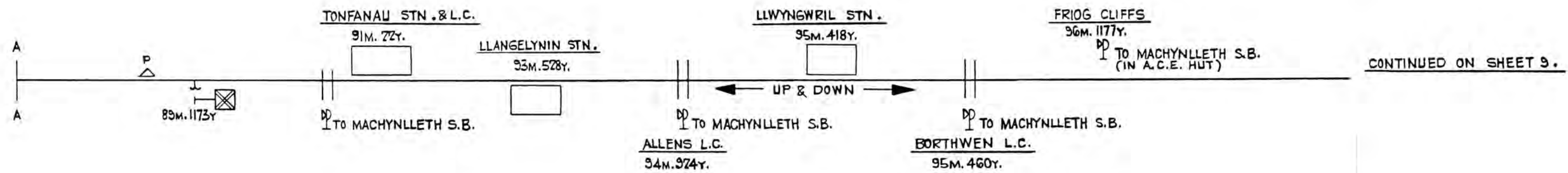
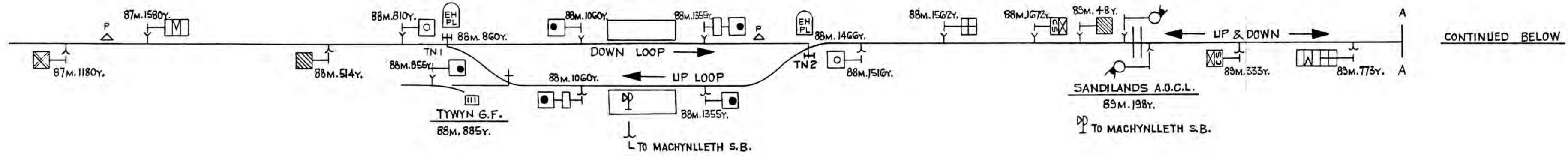
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TO ABERYSTWYTH.  
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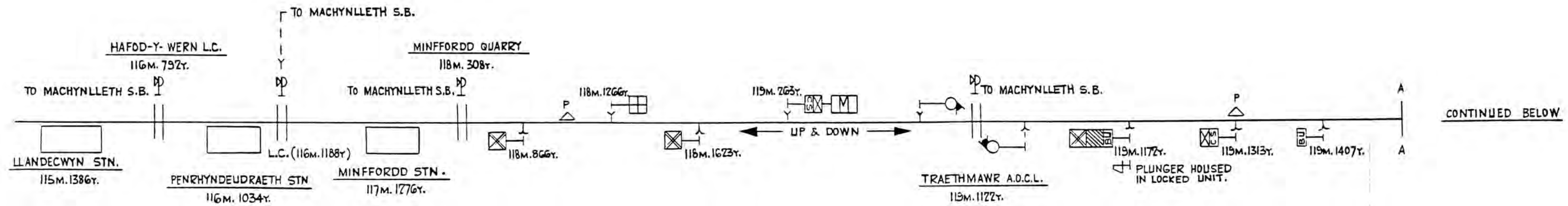






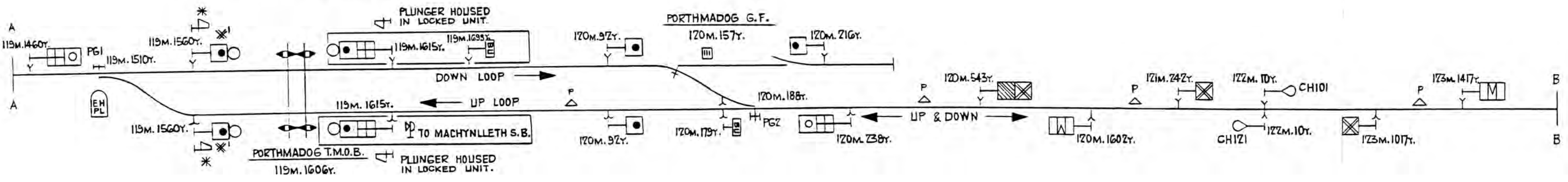




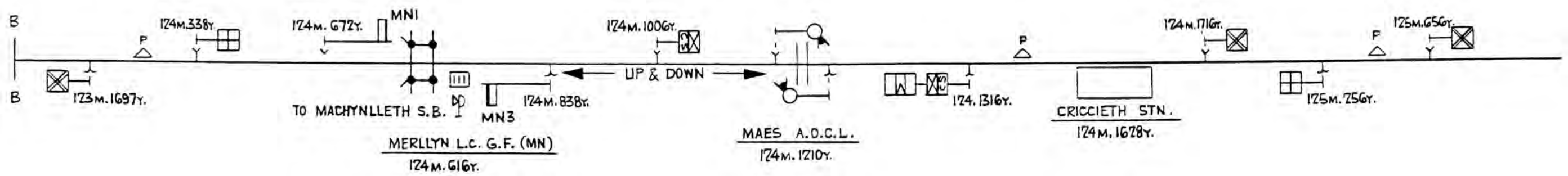


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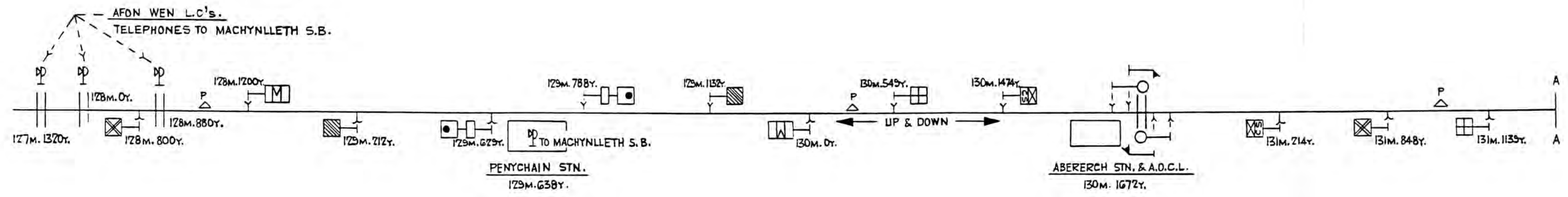
\* PLUNGER HOUSED IN LOCKED UNIT WITH EXTERNAL WIRE PULL FOR DOWN OPERATION OF T.M.O.B.



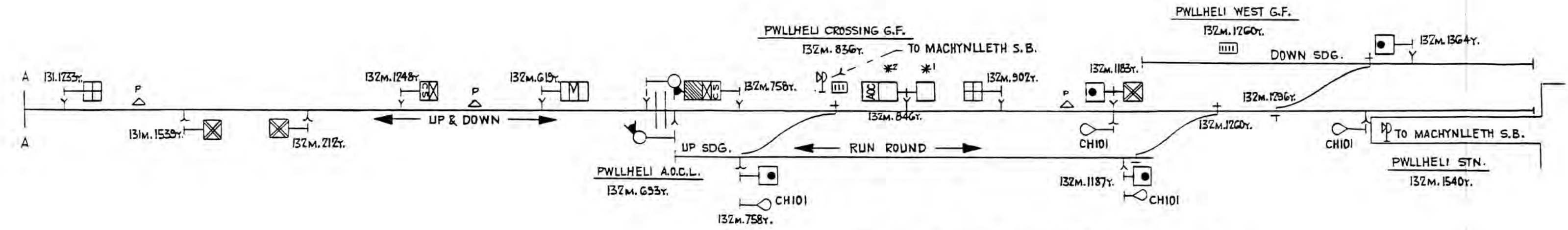
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- \*<sup>1</sup> LOCO MUST CLEAR THIS POINT BEFORE NORMALISING G.F.
- \*<sup>2</sup> LOCO MUST STOP HERE BEFORE OPERATING G.F.