

# LONDON & NORTH EASTERN RAILWAY

(SOUTHERN AREA).

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## GIDEA PARK AND SHENFIELD WIDENING.

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### OPENING OF ADDITIONAL RUNNING LINES AND INTRODUCTION OF COLOUR LIGHT SIGNALLING.

Referring to Instruction No. 2714 dated 23rd October, 1933, respecting the opening of the new Down and Up Local Lines and the introduction of Colour Light Signalling between Gidea Park and Brentwood.

On **Sunday, 10th December**, the Down and Up Through and Down and Up Local Lines between Brentwood and Shenfield will be brought into use, together with automatic and controlled colour light signalling, *and the four running lines between Gidea Park and Shenfield will be in use for both Passenger and Goods traffic.*

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The diagram attached hereto shows the whole of the new and altered Permanent Way and Signalling between Gidea Park and Thoby and Billericay, and should be referred to in connection with the various items in this notice.

#### **Track Circuiting.**

All running lines between Gidea Park and Shenfield will be completely track circuited.

At Shenfield the track circuiting will extend on the Down Lines to a point just beyond the trailing junction from Down Local to Through Line at the country end of the station.

The Up Main Line will be continuously track circuited from Thoby Up Starting Signal.

The new Down Southend Loop Line will be continuously track circuited.

The Down Southend Line will be track circuited as far as Billericay Down Home Signal.

The Up Southend Line will be track circuited from the termination of the existing track circuit at Billericay to Shenfield.

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**Run-Back Catch Points.**

Run-back catch points will be provided as under :—

*Down Local Line.*

541	yards	to	rear	of	Signal	D.L.16.
589	”	”	”	”	”	D.L.16.B.
506	”	”	”	”	”	D.L.17.
519	”	”	”	”	”	Signals B.58 and B.28.
485	”	”	”	”	”	Signal B.57.
431	”	”	”	”	”	D.L.18.
510	”	”	”	”	”	D.L.19.

*Down Through Line.*

535	yards	to	rear	of	Signal	D.T.16.
592	”	”	”	”	”	D.T.16.B.
506	”	”	”	”	”	D.T.17.
519	”	”	”	”	”	B.71.
485	”	”	”	”	”	Signals B.68 and B.70.
578	”	”	”	”	”	Signal D.T.18.
510	”	”	”	”	”	D.T.19.

*Up Local Line.*

574 yards to rear of Signal U.L.20.B.

*Up Through Line.*

490 yards to rear of Signal U.T.20 (wide to gauge).

*Down Southend Line.*

2,219	yards	to	rear	of	Billericay	Down	Outer	Home	Signal.	
386	”	”	”	”	”	”	”	”	Home	Signal.

*Up Southend Line.*

661	yards	to	rear	of	Signal	U.S.22.
972	”	”	”	”	”	Signal S.114.
551	”	”	”	”	”	Signals S.113 and S.120.

**PROGRAMME OF BRINGING INTO USE NEW AND ALTERED  
ARRANGEMENTS.**

For details of alterations already carried out at Gidea Park, Harold Wood and London end of Brentwood, see Instruction No. 2714.

**SUNDAY, 10th DECEMBER.**

**Brentwood.**

The existing Station Signal Box and signals will be abolished and all points and signals will be connected up to the new box, as shown on the diagram.

The Country end connection from the Middle Siding to Up Local Line will be worked from a 2-lever ground frame, electrically controlled from the signal box.

The Short Siding with connection to the Up Through Line on the Country side of the station will be worked from a 2-lever ground frame, electrically controlled from the signal box.

Telephone communication will be provided between these ground frames and the signal box.

The following points will be electrically operated, and telephone communication provided to the signal box :—

- Down Local Line to Loco. Depot.
- Down Local Line to Middle Siding.
- Middle Siding (London end) to Up Local Line.
- Crossover road between Down and Up Local Lines at Country end of station.

### **Ingrave.**

The Signal Box and all signals will be abolished, and automatic colour light signals brought into use as shown on the diagram attached.

### **Shenfield.**

The existing Junction Signal Box and signals will be abolished and all points and signals as shown on the diagram will be connected up to the new box, which will be brought into use.

NOTE.—*In the event of it not being practicable to connect up the whole of the points and relative signals on the Country side of Shenfield on the 10th December, the points not connected up will be clamped over and hand-signalmen will be appointed as necessary, and such points and signals will be brought into service as soon as they are connected up.*

*The new Down Southend Loop Line from the Down Local Line to Down Southend Line with trailing junction at a point near to the existing Mountnessing Signal Box will not, however, be in use until 17th December.*

The existing connection from Up Refuge Siding to Up Main Line will be removed, and the new outlet points from Up Reception to Up Through Line will be electrically operated, with telephone communication to the signal box.

The following points will also be electrically operated and telephone communication provided to the signal box :—

- Junction between Main and Southend Lines.
- Through connection from Up Main to Up Local Line.
- Country end Crossover between Down and Up Main Lines.
- Crossover between Up Main and Down Southend Lines.

The following trailing points will be spring controlled :—

- Down Local to Down Main Line (at country end of Shenfield Station).
- Down Southend Loop Line (near the former Mountnessing Box).

The connection between Up Sidings and Up Reception Line at the London end of the Goods Yard will be worked from a 2-lever ground frame, electrically controlled from Shenfield Box, and telephone communication provided to the signal box.

A board lettered "Drivers must not pass this board until authorised by Shunter or Signaller" will be provided at the Turntable Road at the fouling point with the connection leading from Back Platform Line to Run-round Road or Shunting Spur.

A "Limit of Shunt" lamp will be provided on the Up Southend Line and shunting movements on this line must not pass this lamp.

### SUNDAY, 17th DECEMBER.

#### Shenfield.

The Down Southend Loop Line will be opened for traffic.

#### Mountnessing.

The Signal Box and all signals, together with the spur from No. 1 Siding, will be abolished and automatic colour light signals brought into use as shown on the diagram.

The overcrossing from Down Main to Up Siding and slip connection forming Main Line crossover road will be removed.

The Up Siding connection will be worked from a 2-lever ground frame which will be controlled by the Up Line track circuits.

The Main Line crossover will be controlled by Hodgson's lock, the keys of which will be kept in a cupboard near the siding ground frame. The key of this cupboard will be kept in Shenfield Signal Box. The withdrawal of the Hodgson's keys will place or maintain Signals U.S.22, U.S.23 and Shenfield Down Starters S.64 and S.79 at Red.

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### GENERAL INSTRUCTIONS.

#### Colour Light Signals.

All colour light signals are marked on the signal posts with reference letters and numerals to identify each signal, and a full description of each is given in the list of signals included in this circular.

Controlled colour light signals bear the following letters, indicating from which box they are worked:—

- G.P.—Gidea Park Junction Box.
- B.—Brentwood Box.
- S.—Shenfield Box.

These signals normally display the Red aspect.

Automatic signals bear the following letters indicating the line to which the signals apply :—

- D.L.—Down Local.
- U.L.—Up Local.
- D.T.—Down Through.
- U.T.—Up Through.
- D.S.—Down Southend.
- U.S.—Up Southend.

Certain Automatic signals bear the prefix letter “ R ” (for example “ R.U.S.23 ” between Mountnessing and Billericay). These signals act as automatic Distant Signals for the Stop Signal bearing the same number, and do not show a Red aspect.

The automatic signals normally display the aspects as shown in the list of signals.

Drivers and others having to call attention to the working of these signals must always quote these letters and numbers.

All colour light signals (with the exception of those shown below) will be placed to Red, and all electrically operated semaphores replaced to their normal positions, immediately the engine passes them. (See Rule 68, clause c.)

Signals R.S.114, R.D.S.22 and R.U.S.23 will be placed to Yellow immediately the engine passes them, and signal R.S.112 will be placed to Yellow when the engine reaches signal S.112.

All colour light signals are of the “ Searchlight ” type except where shown in this circular to be of the “ Multi-unit ” type. Searchlight signals display Red, Yellow or Green aspects, through one lamp, and where the Double Yellow aspect is required an upper lamp is added. Multi-unit signals display these aspects through separate lamps.

The aspects and meanings of colour light signals are as shown below :—

Aspect.	Searchlight.		Multi-unit.	Meaning.
	2 or 3 aspect.	4 aspect.	2 aspect (miniature).	
Red.		No light	No light	Stop.
Single Yellow.		No light	—	Proceed—prepare to stop at next signal.
Double Yellow.	—		—	Proceed—pass next signal at restricted speed.
Green.		No light	—	Proceed.
Green.	—	—	No light	Proceed as far as the line is clear or to the next Stop Signal only.

The attention of Drivers is drawn to the fact that under *normal conditions* a Red signal is always preceded by a Yellow signal. *In emergency*, however, a signal displaying either Single Yellow, Double Yellow, or Green, may be placed to Red in front of a train.

For examples of 3-aspect and 4-aspect colour light signals, see Instruction No. 2717 dated 9th November, 1933.

### Banner "Shunt" and "Calling-On" Signals.

Banner "Shunt" or "Calling-on" signals will be provided below certain of the colour light signals, as shown on the diagram, and the application of these Banner signals is as follows :—

Type.	Normal Indication.	" Off " Indication.	Meaning of " Off " Indication.
Shunt.			Shunt ahead in accordance with instructions.
Calling-on.			Proceed at caution into occupied platform.

### Ground Disc Signals.—Rule 47.

All ground disc signals at Brentwood and Shenfield will be of the Upper Quadrant type as shown below :—

Type.	Normal Indication.	" Off " Indication.	Meaning of " Off " Indication.
Disc.	 Red arm and light. or  Yellow arm and light.	 Green light.	Proceed as far as line is clear or to the next Stop Signal.

### Fogsignalling Arrangements.

Until further notice fogmen will be provided for the following signals only :—

#### *Gidea Park.*

Up Local Outer Home No. G.P.53.

Up Local Homes and Up Local Inner Distant Nos. G.P.50A, G.P.51 and G.P.52 (on same bracket).

Up Through Outer Home No. G.P.47.

Up Through Homes and Up Through Inner Distant Nos. G.P.45, G.P.46, G.P.50B and G.P.82 (on same bracket).

#### *Automatic Signals.*

Nos. U.L.17B and U.T.17B.

*Brentwood.*

Down Local Homes Nos. B.28 and B.58 (on same bracket).

Down Through Outer Home No. B.71.

Up Local Home No. B.51.

Up Through Home No. B.60.

A fogman will also be stationed at the signal box to act under the signalman's instructions.

*Shenfield.*

Down Local Homes Nos. S.62 and S.70.

Down Through Homes Nos. S.61 and S.71.

Up Main Distant for S.112, No. R.S.112.

A fogman will also be stationed at the signal box to act under the signalman's instructions.

**Capacity of Reception Lines and Refuge Sidings.**

<i>Place.</i>	<i>Reception Line or Refuge Siding.</i>	<i>Capacity.</i>
Brentwood	... Down Refuge Siding ...	50 wagons, engine and brake.
Brentwood	... Down Reception Line ...	35 wagons, engine and brake.
Shenfield	... Up Reception Line (between inlet from Through Line and outlet to Through Line).	60 wagons, engine and brake.
Shenfield	... The Down Carriage Siding nearest the Down Local Line may be used for refuging purposes.	35 wagons, engine and brake.

**SPECIAL INSTRUCTIONS.****Signals at which Telephone Communication is Provided.**

Drivers of trains brought to a stand at the signals provided with a telephone, as indicated by "D" signs, must, after waiting ONE minute, communicate with the signalman in accordance with the following:—

Train .....detained at signal No.....

Drivers must then act on the signalman's instructions, and if authorised to pass a signal showing Red they must carry out the provisions of Rule 55, clause (g).

In the event of a failure of a colour light signal causing no light to be exhibited the signal must be considered a Danger signal, and the driver must advise the signalman by means of the telephone, where provided, of the circumstances and act in accordance with the instructions received.

Should the telephone communication to the signal box be out of order the driver may use the telephone for the other line in the same direction, but he must inform the signalman of the fact that he is using the telephone for such other line, and that the telephone for the line on which his train is standing is out of order.

If telephone communication to the signal box cannot be established drivers must, after waiting THREE minutes, act in accordance with Rule 55, clause (g), but should telephone communication fail at signals *controlled* from either Gidea Park, Brentwood or Shenfield Box, the driver must send his fireman to the signal box concerned to advise the signaller of the circumstances and obtain his instructions.

Should a driver require to proceed in accordance with the preceding paragraphs, he must satisfy himself that there is sufficient room for his train to be brought to a stand clear of run-back catch points if the section ahead is occupied.

#### **Train Stopped by Accident, Failure or Obstruction.**

The colour light signals must not be relied upon for the protection of a train stopped by accident, failure or obstruction, and General Rules 178-181 must be carried out. In the event of it being necessary for a second train to approach from the rear to render assistance, the guard of the disabled train, after the signaller has been communicated with by telephone, need not go back beyond the first Stop Signal in the rear, and after having advised the signaller of his arrival there must wait to pilot the assisting engine or train to the rear of his own train.

#### **Ballast Train Working in Section or Platelayers' Trolleys being Placed on the Line.**

Ballast trains must in no circumstances be set back in the facing direction for even a short distance except when the driver is in possession of a Wrong Line Order issued by the signaller (*see* General Rule 175). It will be necessary to protect such trains in the rear whilst standing in the section, and the guard must go back as far as the first Stop Signal in rear in the observance of General Rule 216.

Platelayers' Trolleys must not be placed on the line until the permission of the signaller at the box in advance has been obtained and the trolley must then be protected in accordance with General Rule 215.

#### **Gidea Park.**

The instructions under the above heading shown on page 21 of No. 3 Supplement to the Appendix are cancelled.

#### **Harold Wood.**

The instruction under the heading "Up Auto. Stop Signal" shown on page 21 of No. 3 Supplement to the Appendix is cancelled.

#### **Engines Assisting in Rear of Down Trains from Brentwood.**

The instructions under the heading "Assisting trains up Brentwood Bank by engine in rear" shown on page 79 of the Appendix are cancelled, and the following substituted:—

When it becomes necessary to assist a train by an engine in the rear on either the Down Local or Down Through Line the assisting engine must cease pushing at the 19¼ mile post, and must stop at either signal D.L.19.B. or

D.T.19.B., as the case may be. The fireman of the assisting engine must advise the signaller at Shenfield Box, by telephone, of its arrival at the signal, and this engine must proceed to Shenfield when the signal shows one of the "Proceed" aspects.

Before an engine is allowed to assist a train the signallers at Brentwood and Shenfield must confer, and the assisting engine must not be allowed to proceed until the line is clear ahead of the train which requires assistance to the Shenfield Down Local or Through Home Signal, according to which line is affected. A competent person from Brentwood must accompany the assisting engine and authorise the driver to pass signals displaying the Red aspect which are replaced to Danger by the train engine up to signal D.L.19B or D.T.19B.

#### **Working into and Out of Loco. Depot and Middle Siding at Brentwood.**

The instruction under the heading "Engines leaving Loco. Shed" shown on page 79 of the Appendix is cancelled, and the following substituted:—

The connections leading into and out of the Loco. Depot and the London end of the Middle Siding are electrically operated, telephones being provided near to the points for the purpose of communicating with the signaller.

When movements are required to be made out of the Loco. Depot, enginemen must use the telephone to advise the signaller of the movement which is required to be made.

The telephone at the Middle Siding must be used to intimate to the signaller when an engine requires to go to, or leave, the pit, or when a train is ready to leave the Middle Siding.

#### **Shenfield.**

##### **Up Reception Line.**

The Up Reception Line will be worked under the "No Block" system in accordance with the instructions shown on page 48 of No. 3 Supplement to the Appendix.

The instructions under the heading "Shunting Trains" shown on page 79 of the Appendix are cancelled.

##### **Mountnessing Up Sidings—Ground Frame.**

The Up Sidings at Mountnessing are worked from a 2-lever ground frame which is controlled by the Up Line track circuits.

When it is necessary for the siding connection to be used for attaching or detaching purposes, the portion of the train to be left on the running line must stand in the rear of the marker post at the fouling point between Up Line and Up Sidings, and the front portion must be brought to a stand clear of the marker post near Signal R.D.S.22. When the track circuit between these posts is clear, No. 1 lever in the ground frame can be pulled which will place or maintain Signals U.S.22 and U.S.23 at Danger, and No. 2 lever, which controls the points between Up Line and Up Sidings, can then be operated. *It is essential that the track circuit between the marker posts be kept clear until No. 1 lever has been pulled as otherwise the ground frame cannot be worked, also that No. 1 lever is not replaced to normal until the train has left the sidings.*

## LIST OF SIGNALS.

NOTE.—The following abbreviations are used in connection with colour light signal aspects :—

R	...	...	...	Red.
Y	...	...	...	Single Yellow.
Y/Y	...	...	...	Double Yellow.
G	...	...	...	Green.

Reference No.	Type of Signal.	Description.	Remarks.	Into use.
GIDEA PARK.				
A	Semaphore Miniature.	Down Reception to Down Local ... ..	---	Already in use.
1	Semaphore Miniature.	Down Reception to Spur Shunt ... ..	—	Do.
4	Ground disc (Red).	Carriage Sidings to Shunt Spur ... ..	—	Do.
5	Semaphore Miniature.	Carriage Sidings to Down Local ... ..	—	Do.
7A	Ground disc (Red).	Up Reception Road to Shunt Spur or Down Through.	—	Do.
7B	Ground disc (Red).	Set back on Up Reception Road ... ..	Applies as far as " Limit of shunt " lamp.	Do.
9	Ground disc (Red).	Down Through to Up Reception Road ... ..	—	Do.
11	Ground disc (Red).	Up Local to Shunt Spur or Down Local ... ..	—	Do.
13	Ground disc (Red).	Shunt Spur to Up Reception Road, or Up Local, or Down Reception Road or Carriage Sidings.	—	Do.
14	Ground disc (Red).	Down Local to Up Reception Road, or Up Local, or Down Reception Road or Carriage Sidings.	—	Do.
15	Semaphore.	Down Through to Down Local Starter ... ..	Diamond sign ... ..	Do.
19	Semaphore.	Down Local Starter ... ..	Diamond sign ... ..	Do.
20	Semaphore.	Down Local Directing Signal ... ..	Diamond sign ... ..	Do.
G.P. 21	3-aspect Colour light R.Y.G.	Down Local Advance ... ..	Telephone to Gidea Park Junction Signal Box.	Do.
25	Semaphore.	Down Through Starter ... ..	Diamond sign ... ..	Do.
26	Semaphore.	Down Local to Down Through Directing Signal.	Diamond sign ... ..	Do.
G.P. 27	3-aspect Colour light R.Y.G.	Down Through Advance ... ..	Telephone to Gidea Park Junction Signal Box.	Do.
44	Semaphore.	Up Through Inner Home ... ..	Diamond sign ... ..	Do.
45	Semaphore.	Up Through Home ... ..	Electrically operated. Telephone to Gidea Park Junction Signal Box.	Do.

LIST OF SIGNALS—*continued.*

Reference No.	Type of Signal.	Description.	Remarks.	Into use.
<i>GIDEA PARK—continued.</i>				
46	Semaphore.	Up Through Inner Distant ... ..	Electrically operated ...	Already in use.
G.P. 47	4-aspect Colour light R.Y.Y/Y.G.	Up Through Outer Home ... ..	Telephone to Gidea Park Junction Signal Box.	Do.
49	Semaphore.	Up Local Inner Home ... ..	Diamond sign ... ..	Do.
50A	Semaphore.	Up Local Home ... ..	Electrically operated. Telephone to Gidea Park Junction Signal Box.	Do.
50B	Semaphore.	Up Through to Local Home ... ..	Electrically operated. Telephone to Gidea Park Junction Signal Box.	Do.
51	Semaphore.	Up Local Inner Distant ... ..	Electrically operated ...	Do.
52	Semaphore.	Up Local to Up Through Home ... ..	Electrically operated. Telephone to Gidea Park Junction Signal Box.	Do.
G.P. 53	4-aspect Colour light R.Y.Y/Y.G.	Up Local Outer Home ... ..	Telephone to Gidea Park Junction Signal Box. Co-actor provided on Down side of Local Line.	Do.
78	Semaphore.	Up Reception to Up Through ... ..	—	Do.
79	Ground disc (Red).	Up Reception to Up Siding ... ..	—	Do.
80	Semaphore.	Up Reception Home ... ..	—	Do.
82	Semaphore Miniature.	Up Through to Up Reception Home ...	Electrically operated. Telephone to Gidea Park Junction Signal Box.	Do.
X	Elevated disc (Red).	Shunt past Colour light on Up Local ...	Operated from Crossover Ground Frame at Lon- don end of Harold Wood.	Do.
<i>BETWEEN GIDEA PARK AND BRENTWOOD.</i>				
<i>Down Local Line.</i>				
D.L. 15	3-aspect Colour light R.Y.G.	Automatic (normal Green aspect) ... ..	Telephone to Brentwood Signal Box. Controlled to Red by 5-lever Ground Frame at Harold Wood Siding.	Already in use.
D.L. 15B	3-aspect Colour light R.Y.G.	Automatic (normal Green aspect) ... ..	Telephone to Brentwood Signal Box.	Do.
D.L. 16	3-aspect Colour light R.Y.G.	Automatic (normal Green aspect) ... ..	Telephone to Brentwood Signal Box.	Do.

LIST OF SIGNALS—*continued.*

Reference No.	Type of Signal.	Description.	Remarks.	Into use.
<i>BETWEEN GIDEA PARK AND BRENTWOOD—continued.</i>				
<i>Down Local Line—continued.</i>				
D.L. 16B	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Double Yellow aspect)	Telephone to Brentwood Signal Box.	Already in use.
D.L. 17	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Yellow aspect) ...	Telephone to Brentwood Signal Box.	Do.
<i>Down Through Line.</i>				
D.T. 15	3-aspect Colour light R.Y.G.	Automatic (normal Green aspect) ...	Telephone to Brentwood Signal Box.	Already in use.
D.T. 15B	3-aspect Colour light R.Y.G.	Automatic (normal Green aspect) ...	Telephone to Brentwood Signal Box.	Do.
D.T. 16	3-aspect Colour light R.Y.G.	Automatic (normal Green aspect) ...	Telephone to Brentwood Signal Box.	Do.
D.T. 16B	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Double Yellow aspect)	Telephone to Brentwood Signal Box.	Do.
D.T. 17	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Yellow aspect) ...	Telephone to Brentwood Signal Box.	Do.
<i>Up Local Line.</i>				
U.L. 17	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Green aspect) ...	Telephone to Gidea Park Junction Signal Box.	Already in use.
U.L. 17B	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Double Yellow aspect)	Telephone to Gidea Park Junction Signal Box.	Do.
U.L. 16	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Yellow aspect) ...	Controlled to Red from Gidea Park Junction Signal Box when Harold Wood Ground Frames are in use. Telephone to Gidea Pk. Junction Signal Box.	Do.
<i>Up Through Line.</i>				
U.T. 18	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Green aspect) ...	Telephone to Gidea Park Junction Signal Box.	Already in use.
U.T. 17	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Green aspect) ...	Telephone to Gidea Park Junction Signal Box.	Do.
U.T. 17B	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Double Yellow aspect)	Telephone to Gidea Park Junction Signal Box.	Do.
U.T. 16	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Yellow aspect) ...	Telephone to Gidea Park Junction Signal Box.	Do.

## LIST OF SIGNALS—continued.

Reference No.	Type of Signal.	Description.	Remarks.	Into use.
BRENTWOOD.				
7	Ground disc (Red).	Down Local to Up Local or Down Reception Road or Down Sidings or Goods Shed.	—	Already in use.
9	Ground disc (Red).	Goods Shed to Down Local ... ..	—	Do.
10	Ground disc (Red).	Down Local to Up Local or Down Reception Road or Down Sidings.	—	Do.
12	Ground disc (Red).	Down Reception Road to Down Local ...	—	Do.
14	Ground disc (Yellow).	Down Sidings to Down Local ... ..	—	Do.
16	Ground disc (Red).	Up Local to Down Local ... .. Set back to Up Local Platform ... ..	Existing application ... Additional application ...	Do. Dec. 10th.
19	Ground disc (Red).	Down Local to Up Local or Down Reception Road.	—	Already in use.
21	Ground disc (Yellow).	Down Reception to Down Local ... ..	—	Do.
22	Ground disc (Yellow).	Down Sidings to Up Local or Spur ...	—	Do.
24	Ground disc (Yellow).	Down Reception to Up Local ... ..	—	Do.
25	Ground disc (Red).	Down Local to Up Local ... ..	—	Do.
B.28	2-aspect Colour light. Miniature R.G. (Multi-Unit type).	Down Local to Down Reception Road ...	On same post as Down Local Home. Telephone to Brentwood Signal Box.	Do.
30	Ground disc (Red).	Up Local to Down Sidings or Down Reception Road or Down Local.	—	Do.
35	Ground disc (Red).	Middle Siding to Engine Spur ... ..	Centre disc of group ...	Dec. 10th.
36	Ground disc (Red).	Engine Spur to Middle Siding ... ..	—	Do.
37	Ground disc (Red).	Middle Siding to Up Local ... ..	Left hand disc of group	Do.
39	Ground disc (Red).	Up Local to Middle Siding ... ..	—	Do.
40	Ground disc (Red).	Middle Siding to Up Local or Down Local or Loco.	Right hand disc of group	Do.
41	Ground disc (Red).	Down Local to Up Local or Loco. or set back to Down Local Platform.	—	Do.
43	Ground disc (Red).	Down Local to Middle Siding ... ..	—	Do.
45	Ground disc (Red).	Loco. to Down Local ... ..	Top disc of pair ...	Do.

LIST OF SIGNALS—*continued.*

Reference No.	Type of Signal.	Description.	Remarks.	Into use.
<i>BRENTWOOD—continued.</i>				
46	Ground disc (Red).	Loco. to Middle Siding ... ..	Lower disc of pair ...	Dec. 10th.
48	Ground disc (Red).	Up Local to Middle Siding via Up Local or Down Local.	—	Do.
B.50	4-aspect Colour light R.Y.Y/Y.G.	Up Local Outer Home ... ..	Telephone to Brentwood Signal Box.	Do.
B.51	4-aspect Colour light R.Y.Y/Y.G.	Up Local Home ... ..	Telephone to Brentwood Signal Box.	Do.
B.52	4-aspect Colour light R.Y.Y/Y.G.	Up Local Inner Home ... ..	Diamond sign. Co-actor provided on Down side of Local Line.	Already in use.
B.53	4-aspect Colour light R.Y.Y/Y.G.	Up Local Starter ... ..	Telephone to Brentwood Signal Box.	Do.
B.56	4-aspect Colour light R.Y.Y/Y.G.	Down Local Starter ... ..	Telephone to Brentwood Signal Box.	Dec. 10th.
B.57	4-aspect Colour light R.Y.Y/Y.G.	Down Local Inner Home ... ..	Diamond sign ... ..	Already in use.
B.58	4-aspect Colour light R.Y.Y/Y.G.	Down Local Home ... ..	Telephone to Brentwood Signal Box.	Do.
B.60	4-aspect Colour light R.Y.Y/Y.G.	Up Through Home ... ..	Telephone to Brentwood Signal Box.	Dec. 10th.
B.61	4-aspect Colour light R.Y.Y/Y.G.	Up Through Inner Home ... ..	Telephone to Brentwood Signal Box.	Do.
B.62	4-aspect Colour light R.Y.Y/Y.G.	Up Local to Up Through Inner Home ...	Diamond sign. Co-actor provided on Down side of Local Line.	Already in use.
B.68	4-aspect Colour light R.Y.Y/Y.G.	Down Through to Down Local Home ...	Diamond sign ... ..	Do.
B.69	4-aspect Colour light R.Y.Y/Y.G.	Down Through Starter ... ..	Telephone to Brentwood Signal Box.	Dec. 10th.
B.70	4-aspect Colour light R.Y.Y/Y.G.	Down Through Home ... ..	Diamond sign. At present displays Red aspect only. In use for traffic purposes	— Dec. 10th.
B.71	4-aspect Colour light R.Y.Y/Y.G.	Down Through Outer Home ... ..	Telephone to Brentwood Signal Box.	Already in use.

## LIST OF SIGNALS—continued.

Reference No.	Type of Signal.	Description.	Remarks.	Into use.
<i>BETWEEN BRENTWOOD AND SHENFIELD.</i>				
<i>Down Local Line.</i>				
D.L.18	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Green aspect) ... ..	Telephone to Shenfield Signal Box.	Dec. 10th.
D.L.19	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Double Yellow aspect)	Telephone to Shenfield Signal Box.	Do.
D.L.19B	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Yellow aspect) ...	Telephone to Shenfield Signal Box.	Do.
<i>Down Through Line.</i>				
D.T.18	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Green aspect) ... ..	Telephone to Shenfield Signal Box.	Dec. 10th.
D.T.19	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Double Yellow aspect)	Telephone to Shenfield Signal Box.	Do.
D.T.19B	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Yellow aspect) ...	Telephone to Shenfield Signal Box.	Do.
<i>Up Local Line.</i>				
U.L.20	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Double Yellow aspect)	Telephone to Brentwood Signal Box.	Dec. 10th.
U.L.20B	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Yellow aspect) ...	Telephone to Brentwood Signal Box.	Do.
<i>Up Through Line.</i>				
U.T.20	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Double Yellow aspect)	Telephone to Brentwood Signal Box.	Dec. 10th.
U.T.20B	4-aspect Colour light R.Y.Y/Y.G.	Automatic (normal Yellow aspect) ...	Telephone to Brentwood Signal Box.	Do.
<i>SHENFIELD.</i>				
6	Semaphore Miniature.	Down Carriage Sidings to Up Local Plat- form.	—	Dec. 10th.
7	Semaphore Miniature.	Down Carriage Sidings to Down Local Platform or Up to No. 10 Disc Signal.	—	Do.
9	Ground disc (Red).	Down Local to Down Carriage Sidings ...	—	Do.

LIST OF SIGNALS—*continued.*

Reference No.	Type of Signal.	Description.	Remarks.	Into use.
SHENFIELD— <i>continued.</i>				
10	Ground disc (Red).	Down Siding No. 1 to Down Local Platform	—	Dec. 10th.
12	Ground disc (Red).	Down Local to Up Reception Road or Up Through or Down Carriage Sidings.	—	Do.
15	Ground disc (Red).	Up Local to Down Carriage Sidings ...	—	Do.
18	Ground disc (Red).	Turntable Road to Stop Board ... ..	—	Already in use.
19	Semaphore Miniature.	Goods Yard to Back Platform or up to Stop Board.	—	Dec. 10th.
20	Semaphore Miniature.	Goods Yard to Down Through ... ..	—	Do.
22	Ground disc (Red).	Back Platform to Goods Yard ... ..	—	Already in use.
24	Ground disc (Red).	Down Through to Goods Yard ... ..	—	Do.
S.27	3-aspect Colour light R.Y.G.	Up Reception Road Starter to Up Through	Telephone to Shenfield Signal Box.	Dec. 10th.
28	Ground disc (Red).	Up Reception Road to Down Local or Up Local or Down Through or Back Platform or Run-round Road or Up Reception Siding.	—	Do.
31	Semaphore Miniature.	Up Reception Siding to Up Reception Road	—	Do.
32	Ground disc (Red).	Up Through to Down Local or Up Local or Down Through or Back Platform or Run-Round road.	—	Do.
S.35	2-aspect Colour light Miniature R.G. (Multi-Unit type).	Up Through to Up Reception Road ... ..	Diamond sign ... ..	Do.
38	Ground disc (Red).	Down Through to Up Reception Road or Up Through.	—	Do.
39	Ground disc (Red).	Up Through to Up Local or Back Platform or Run-round Road.	—	Do.
40	Ground disc (Red).	Up Through to Back Platform or Run-round Road.	—	Already in use.
41	Ground disc (Red).	Up Reception Siding to Back Platform or Run-round Road.	—	Do.
42	Ground disc (Red).	Back Platform set back or to Run-round Road	—	Do.
S.46	2-aspect Colour light Miniature R.G. (Multi-Unit type).	Back Platform to Up Reception Siding ... ..	Diamond sign ... ..	Dec. 10th.

LIST OF SIGNALS—*continued.*

Reference No.	Type of Signal.	Description.	Remarks.	Into use.
SHENFIELD— <i>continued.</i>				
47	Ground disc (Red).	Run-round Road or Siding to Turntable or Goods Yard or Back Platform.	—	Dec. 10th.
50	Ground disc (Red.).	Up Local to Middle Sidings... ..	—	Do.
52	Semaphore Miniature.	Middle Sidings to Up Local... ..	—	Do.
S.53	3-aspect Colour light R.Y.G.	Up Local Platform Starter to Southend via Loop Line.	Diamond sign ... ..	Dec. 17th.
56	Ground disc (Red).	Down Local to Middle Sidings ... ..	—	Dec. 10th.
59	Ground disc (Red).	Down Local to Up Local Platform or set back to Down Local Platform.	—	Do.
60	Semaphore Miniature.	Middle Sidings to Down Local Platform...	—	Do.
S.61	4-aspect Colour light R.Y.Y/Y.G.	Down Through to Down Local Home ... ..	Telephone to Shenfield Signal Box.	Do.
S.62	4-aspect Colour light R.Y.Y/Y.G.	Down Local Home ... ..	Telephone to Shenfield Signal Box.	Do.
S.63	3-aspect Colour light R.Y.G.	Down Local to Down Southend Loop Inner Home.	Diamond sign. Illuminated and displaying red from Dec. 10th till brought into use on ...	Dec. 17th.
S.64	2-aspect Colour light R.G.	Down Southend Loop Starter ... ..	Telephone to Shenfield Signal Box.	Do.
S.65	3-aspect Colour light R.Y.G.	Down Local Inner Home ... ..	Diamond sign ... ..	Dec. 10th.
S.66	2-aspect Colour light R.G.	Down Local Starter to Main ... ..	Telephone to Shenfield Signal Box fixed between Down Through and Local Line.	Do.
S.69	2-aspect Colour light R.G.	Back Platform Starter to Down Through	Diamond sign ... ..	Dec. 10th.
S.70	4-aspect Colour light R.Y.Y/Y.G.	Down Local to Down Through Home ... ..	Telephone to Shenfield Signal Box.	Do.
S.71	4-aspect Colour light R.Y.Y/Y.G.	Down Through Home ... ..	Telephone to Shenfield Signal Box.	Do.
S.72	3-aspect Colour light R.Y.G.	Down Through Inner Home ... ..	Diamond sign ... ..	Do.

LIST OF SIGNALS—*continued.*

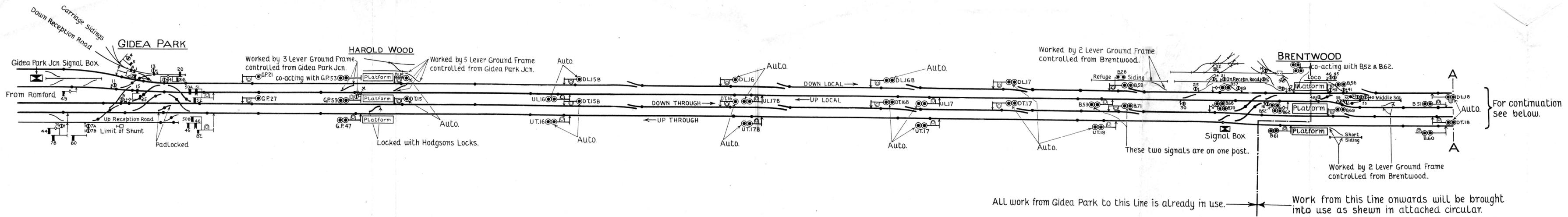
Reference No.	Type of Signal.	Description.	Remarks.	Into use.
SHENFIELD— <i>continued.</i>				
S.73	2-aspect Colour light R.G.	Down Through Starter to Main ... ..	Telephone to Shenfield Signal Box.	Dec. 10th.
S.75	Banner "Shunt."	Down Through to Down Southend Line Shunt.	—	Do.
S.76	3-aspect Colour light R.Y.G.	Down Through to Down Southend Inner Home.	Diamond sign ... ..	Do.
S.77	Banner "Shunt."	Back Platform to Down Southend Line Shunt.	—	Do.
S.78	3-aspect Colour light R.Y.G.	Back Platform Starter to Down Southend	Diamond sign ... ..	Do.
S.79	2-aspect Colour light R.G.	Down Southend Starter ... ..	Telephone to Shenfield Signal Box.	Do.
94	Ground disc (Red).	Up Through to Up Southend Line as far as Limit of Shunt.	—	Do.
100	Ground disc (Red).	Down Southend to Back Platform or Down Through Platform.	Pulled off together with Colour light S. 101 for the running movement Up Main to Back Plat- form.	Do.
S.101	2-aspect Colour light Miniature R.G. (Multi- Unit type).	Up Through to Back Platform ... ..	Telephone to Shenfield Signal Box.	Do.
S.102	3-aspect Colour light R.Y.G.	Back Platform to Up Local Inner Home ...	Diamond sign ... ..	Do.
S.103	4-aspect Colour light R.Y.Y/Y.G.	Up Through to Up Local Inner Home ...	Diamond sign. Co-actor provided on Down Through Platform.	Do.
S.105	4-aspect Colour light R.Y.Y/Y.G.	Up Local Inner Home ... ..	Diamond sign ... ..	Do.
S.106	4-aspect Colour light R.Y.Y/Y.G.	Up Through to Up Local Home ... ..	Telephone to Shenfield Signal Box.	Do.
S.107	4-aspect Colour light R.Y.Y/Y.G.	Up Through Starter ... ..	Telephone to Shenfield Signal Box.	Do.
S.108	4-aspect Colour light R.Y.Y/Y.G.	Up Local to Up Through Inner Home ...	Diamond sign ... ..	Do.
S.109	3-aspect Colour light R.Y.G.	Back Platform to Up Through Inner Home	Diamond sign ... ..	Do.

LIST OF SIGNALS—*continued.*

Reference No.	Type of Signal.	Description.	Remarks.	Into use.
SHENFIELD— <i>continued.</i>				
S.110	4-aspect Colour light R.Y.Y/Y.G.	Up Through Inner Home ... ..	Diamond sign. Co-actor provided on Down Through Platform.	Dec. 10th.
S.111	4-aspect Colour light R.Y.Y/Y.G.	Up Through Home ... ..	Telephone to Shenfield Signal Box.	Do.
S.112	4-aspect Colour light R.Y.Y/Y.G.	Up Through Outer Home ... ..	Telephone to Shenfield Signal Box.	Do.
R.S.112	2-aspect Colour light Y.G.	Automatic Distant for S.112. ... ..	Displays Y when S.112 shows R. Displays G when S.112 shows Y. Y/Y. or G.	Do.
S.113	4-aspect Colour light R.Y.Y/Y.G.	Up Southend to Up Through Home ...	Telephone to Shenfield Signal Box.	Do.
S.114	4-aspect Colour light R.Y.Y/Y.G.	Up Southend Outer Home ... ..	Telephone to Shenfield Signal Box.	Do.
R.S.114	2-aspect Colour light Y.G.	Automatic Distant for S.114 ... ..	Displays Y when S.114 shows R. Displays G when S.114 shows Y. Y/Y. or G.	Do.
S.115	Banner "Calling-on."	Up Southend to Up Through Platform "Calling-on."	Applicable to Occupied Platform only.	Do.
116	Ground disc (Red).	Back Platform to Up Southend Line as far as Limit of Shunt.	—	Do.
S.120	3-aspect Colour light R.Y.Y/Y.	Up Southend to Back Platform Home ...	Telephone to Shenfield Signal Box. Does not display a G. aspect.	Do.
S.121	Banner "Calling-on."	Up Southend to Back Platform "Calling-on."	Applicable to Occupied Platform only.	Do.
122	Ground disc (Red).	Run-round Road to Up Southend Line as far as Limit of Shunt.	—	Do.
124	Ground disc (Red).	Up Southend Line to Run-round Road ...	—	Do.

LIST OF SIGNALS—*continued.*

Reference No.	Type of Signal.	Description.	Remarks.	Into use.
BETWEEN SHENFIELD AND BILLERICAY.				
<i>Down Line.</i>				
R.D.S.22	2-aspect Colour light Y.G.	Automatic Distant for Auto. D.S.22 (normal Green aspect).	Displays Y when D.S.22 shows R. Displays G when D.S. 22 shows G.	Dec. 17th.
D.S.22	2-aspect Colour light R.G.	Automatic (normal Green aspect)... ..	Telephone to Billericay Signal Box.	Do.
<i>Up Line.</i>				
R.U.S.23	2-aspect Colour light Y.G.	Automatic Distant for Auto. U.S.23 (normal Green aspect).	Displays Y when U.S.23 shows R. Displays G when U.S. 23 shows Y or G.	Do.
U.S.23	3-aspect Colour light R.Y.G.	Automatic (normal Green aspect) ... ..	Telephone to Shenfield Signal Box. Controlled to Red by ground frame at Mountnessing when sidings in use.	Do.
U.S.22	2-aspect Colour light R.G.	Automatic (normal Green aspect) ... ..	Telephone to Shenfield Signal Box. Controlled to Red by ground frame at Mountnessing when sidings in use.	Do.



Catch points shewn thus:—

2 & 3 Aspect signals shewn thus:—

4 Aspect signals shewn thus:—

2 Aspect miniature signals shewn thus:—

Shunt ahead signals shewn thus:—

Calling on signals shewn thus:—

