

THE STRAND ELECTRIC & ENGINEERING CO., LTD.

DEPARTMENTAL MEMO

To Mr Bentham R+D

Date 30. 7 1956

From Mr Martin S.F.

Subject Saddlers Wells

Herewith circuit details for the C.D type T for the above. I have ordered banks from works + desk from Comptons. The latter to be made to your layout instructions. Note only 18 transformers are wanted but they haven't decided which circuits yet.

Martin

Stephen Arlen, Esq.,
The General Manager,
The Sadlers Wells Theatre,
Rosebery Avenue,
London, E.C.1.

Estimate No. SE/Q.6106

To supply:

Item 1: Stage Switchboard

To be a Strand Electric 120 way C.D. type T remote control switchboard consisting essentially of two main portions namely a control desk and the requisite dimmer bank. The desk will be located on the existing switchboard platform and the dimmer bank and auxiliary equipment such as the power pack to be accommodated in a special room on the roof over the scene dock and the two sections of equipment to be connected by a purpose made low voltage control cable. The general specification is as follows:-

There will be two dimmer banks, one having 56 dimmers the other having 64. The dimmers on each bank will be in 4 rows and each dimmer will be driven by Strand Electric Magnetic Clutches mounted on shafts driven by a variable speed motor. There will be one motor per dimmer bank. The dimmers to be Strand Electric type A. sunset element type 100 contact dimmers. On one bank there will be certain relays and contactors and on the other will be a main isolator and busbar chamber, and a separate rectifier unit will be supplied to provide the necessary low voltage supply for clutches, dimmer polarised relays etc., and the D.C. supply for the dimmer bank motors. The equipment will control circuits as shown on the schedule attached hereto and will be laid out in the room in accordance with a drawing which will be submitted for approval.

The circuits to be controlled will be:-

<u>Circuit</u>	<u>Dimmer</u>	<u>Phase</u>
Foots Left W.R.B.	3 (450w 300w 450w)	A
Foots Centre W.R.B.	3 (750w 750w 900w)	A
Foots Right W.R.B.	3 (450w 300w 450w)	A
Batten 1 W.R.B.	3 - 1500w ± 75	B
Batten 2 W.R.B.	3 - 1500w ± 75	B
Batten 3 W.R.B.	3 - 1500w ± 75	C
Cyc. Flood Bar W.R.B.	3 (5000w 5000w 6000w)	C Note 2 fuses per circuit.
* Dips O.P.S. B.Stage	4 - 1500w ± 75	A
* Dips O.P.S. Upstage	4 - 1500w ± 75	

- continued -

Item 1 contd.

Circuit	Dimmer	Phase
* Dips P.S. downstage	4 - 1500w ± 75	A
* Dips P.S. upstage	4 - 1500w ± 75	
* Dips B. Stage	4 - 1500w ± 75	
* 2Kw Transformer dimmers can be fitted if required see note at end for extra cost.		
Ind. Dips	6 - 1500w ± 75	A
Cyclorama Groundrow	3 - 1500w ± 75	A
Float Spots	4 - 375w ± 75	A
Spot Bar 1/14	14 - 750w ± 75	B
Fly Plugs O.P.S. Down 1/6	6 - 1500w ± 75	B-Can be trans- formers, see note re extra cost
Fly Plugs O.P.S. Back 1/4	4/ 1500w ± 75	C
Fly Plugs P.S. Down 1/3	3 - 1500w ± 75	B
Fly Plugs P.S. Up 1/3	3 - 1500w ± 75	C)-Can be trans- formers see note re extra cost.
Acting Area Plugs 1/3	3 - 1500w ± 75	B
Acting Area Plugs 2/6	3 - 1500w ± 75	C
Perches O.P.S. 1/4	4 - 750w ± 75	B
Perches P.S. 1/4	4 - 750w ± 75	B
Over Forestage 1/6	6 - 1500w ± 75	B
Upper Circle Spots Centre	2 - 1500w ± 75	C
Upper Circle Spots Left	-(2 - 1500w ± 75 3 - 750w ± 75)	C
Upper Circle Right	-(2 - 1500w ± 75 3 - 750w ± 75)	C
Circle Ends	4/ 1500w ± 75	C

120

Provision will be made also for the following:-

6 Switched only circuits.

1 Special effects switch operating 75A S.P. contactor changeover arrangements to enable the following circuits to be employed when desk is not in use.

Foots and Battens 1, 2 & 3 White and 4 forestage circuits. i.e. 8 in all.

Batten pilots will not be controlled from the desk,

Size of Dimmer Bank:- 20ft long x 7ft.3ins high x 3ft.10ins projection.

Price £10700. 0. 0.
nett.

Extra if 36 dimmers are transformer dimmers
£22. 5. 0. ea. nett Total = £801. 0. 0.

Item 2: Batten No. 1

To be a Strand Electric 'S' type Magazine Batten 24ft long constructed in heavy gauge pressed steel fitted with angle adjusters and suspension arrangements, finished crystalline black enamel with 32 compartments at 9in centres with runners to carry colour frames. Each compartment fitted with A.236 medium angle reflector and colour frame with guard wire. Wired for 3 colour circuits, 1 circuit per colour with E.S. lampholders to take 150w E.S. Theatre Batten lamps. Complete with 6 B.C. pilot holders in 6 of the white compartments hangers for 2in. counterweight bars, connector box and cable grip at actors right and one set of Cinemoid colour media.

Price excluding lamps ... @ £68.10.0. £ 68. 10. 0. NETT
c/fwd £10768. 10. 0. NETT

LIST OF CIRCUITS FOR SADLERS WELLS

14.9.56

Foots Left W.R.B. ✓	3 (450w 300w 450w)	A Phase
Foots Centre W.R.B. ✓	3 (750w 750w 900w)	A Phase
Foots Right W.R.B. ✓	3 (450w 300w 450w)	A Phase
Batten 1 W.R.B. ✓	3 x 1500w ±	B Phase
Batten 2 W.R.B. ✓	3 x 1500w ±	B Phase
Batten 3 W.R.B. ✓	3 x 1500w ±	C Phase
Cyc. Flood Bar ✓	3 (5kw 5kw 6kw)	C Phase
Dips O.P.S. Down Stage ✓	2 1500w ± 2 x 2kw trans	A Phase
	Amber and Blue	
Dips O.P.S. Up Stage ✓	2 1500w ± 2 x 2kw trans	A Phase
	Amber and Blue	
Dips P.S. Down Stage ✓	2 1500w ± 2 x 2kw trans	A Phase
	Amber and Blue	
Dips P.S. Up Stage ✓	2 1500w ± 2 x 2kw trans	A Phase
	Amber and Blue	
Dips B. Stage ✓	2 1500w ± 2 x 2kw trans	A Phase
	Amber and Blue	
Ind Dips ✓	6 x 2kw Transformers	A Phase
Cyc. Groundrow ✓	3 x 1500w ±	A Phase
Float Spots L, R & 1 Centre ✓	3 x 1835w ±	A Phase
Float Spots Centre ✓	1 x 375w ±	A Phase
Spot Bar 1 to 12 ✓	12 x 750w ±	B Phase
Fly Plugs O.P.S. Down 1 ✓	1 x 2kw Transformers	B Phase
Fly Plugs O.P.S. 2 to 4 ✓	3 x 1500w ±	B Phase
Fly Plugs O.P.S. Back 1/4 ✓	4 x 1500w ±	C Phase
Fly Plugs P.S. Down 1 ✓	1 x 2kw Transformers	B Phase
Fly Plugs P.S. 2 to 3 ✓	2 x 1500w ±	B Phase
Fly Plugs P.S. Up 1/3 ✓	3 x 1500w ±	C Phase
Acting Area Plugs 1/3 ✓	3 x 1500w ±	B Phase
Acting Area Plugs 4/6 ✓	3 x 1500w ±	C Phase
Perches O.P.S. 1/4 ✓	4 x 750w ±	B Phase
Perches P.S. 1/4 ✓	4 x 750w ±	B Phase
Forestage Left 1, 2, 3 ✓	3 x 1500w ±	B Phase
Forestage Right 1, 2, 3 ✓	3 x 1500w ±	B Phase
Upper Circle Spots 1/16 ✓	16 x 1500w ±	C Phase
Upper Circle Ends Left 1 & 2 ✓	2 x 1500w ±	C Phase
Upper Circle Ends Right ✓	1 & 2 2 x 1500w ±	C Phase

120 including transformers

Provision also for

6 switched only circuits

3 Special effects switches operating 3 special effects Contactors 1 per phase

Changeover arrangements to enable the following circuits to be used when desk is not in use:

Foots and Battens 1, 2 and 3 White, and four of the forestage circuits, i.e. Left 1 and 2 and Right 1 and 2

Dimmer Position Indication required for Auditorium Dimmer

? 19.9.56

Hand Leonard de motorised pot
c/o arrangements
And. Position Ind.
Lumberking.