

## APPENDIX No. 1

'The following are the numbers of underground lines leaving the central exchange on the various routes:—

' Western route (red on plan) . . . . .	720
' Eastern route (brown on plan) . . . . .	384
' Tramway route (yellow on plan) . . . . .	408
' King street route (green on plan) . . . . .	312
' Dyke road route (blue on plan) . . . . .	384
' Bond street route (purple on plan) . . . . .	312
	2,520
	2,520

'The number of underground lines taken to various points is shown in figures on the plan. Thus 264 lines are taken as far as Hove town hall; 120 as far as the town depot, Hove; and 48 as far as St. Philip's church, Hove. On the eastern route it is proposed to take 240 lines as far as Devonshire Place; 96 as far as Paston Place; 36 as far as Sussex Square; and 24 as far as the gas works.

'The total mileage provided comes to 2,300 miles of metallic circuit, equal to more than an average of one mile for each subscriber. In all probability this is in excess of what would be required, as the National Telephone Company lines do not exceed an average of three-quarters of a mile.

'The cables would consist of copper wires, insulated with paper and covered with lead, so as to make a compact, strong and air-tight cable possessing the electrical properties most suitable for telephonic transmission. They would be drawn into the iron pipes, and would be tapped for distributing purposes at manholes or equivalent devices placed at proper intervals.

'The overhead distributing wires would be of silicium bronze weighing 40 lbs. to the mile and of great tenacity. The junction wires to the branch exchanges would be of hard-drawn high-conductivity copper, weighing 100 lbs. to the mile, supported on stout creosoted Norwegian red fir poles furnished with cross arms of American oak and porcelain insulators. The whole of the construction work would be in conformity with the specification annexed to the post office license.

'The instruments would be of handsome design and best workmanship, similar to those now being supplied to the Corporation of Glasgow for the purposes of their exchange. Each instrument would bear the arms and motto of the Brighton corporation. If desired, sample instruments can be forwarded from Glasgow for the inspection of the telephone committee.

'The following construction estimate is based on recent experience in Glasgow, and its prices are consequently quite up-to-date. As the price of iron is showing a downward tendency, a saving on the estimate might be made in respect to the conduits and some other items.

*' Construction Estimate.*

' 2,080 instruments, at 55s. 6d. . . . .	£ 5,772	0 0
' Conduits with manholes . . . . .	6,600	0 0
' Restoration of roadways and footpaths . . . . .	2,734	0 0
' Main cable, including drawing in and jointing . . . . .	7,841	0 0
' Branch cable, and laying . . . . .	2,000	0 0
' Switchboards, one for 2,550 lines and four for 50 lines each . . . . .	4,000	0 0
' 200 distributing poles and standards, at £12. . . . .	2,400	0 0
' 450 miles of overhead distributing wire, at £8. . . . .	3,600	0 0
' Carting and distributing material . . . . .	300	0 0
' Tools . . . . .	150	0 0