

TELEPHONE NO  
8849 BISHOPSGATE.



ESTABLISHED A.D. 1570.

# Church Bell Foundry.

32 & 34, Whitechapel Road, E. 1.

London 27. August 1936. 19

Mr. Thos: B. Worsley,  
32. Castle Street,  
Bolton, Lancs.

Dear Sir,

St. Mary the Virgin, Deane.

With reference to Mr. Hughes' examination of the bells, fittings and framework at the above Church on Monday the 17<sup>th</sup> inst, we understand an estimate is required for recasting the eight bells and rehanging them with new fittings and framework.

The larger six were cast in 1718 by Richard Sanders of Bromsgrove. The then 4<sup>th</sup> and 5<sup>th</sup> were recast at this Foundry, the 4<sup>th</sup> in 1792 and the 5<sup>th</sup> in 1831. In 1896 two smaller bells were added by Taylor & Co who, we understand, quarter-turned and rehung the old bells. They are in the key of F $\sharp$  (old concert pitch) and we give below the approximate weights:-

	<u>Diameter.</u>	<u>Approx: weight.</u>
Tenor.	3 <sup>1</sup> . 6"	12. 0. 0.
7 <sup>th</sup> th.	3 <sup>1</sup> . 2"	9. 1. 0.
6 <sup>th</sup> th.	2 <sup>1</sup> . 11"	7. 2. 0.
5 <sup>th</sup> th.	2 <sup>1</sup> . 9"	7. 0. 0.
4 <sup>th</sup> th.	2 <sup>1</sup> . 6 $\frac{1}{2}$ "	5. 3. 0.
3 <sup>rd</sup> .	2 <sup>1</sup> . 4 $\frac{3}{4}$ "	5. 0. 0.
2 <sup>nd</sup> .	2 <sup>1</sup> . 3"	4. 2. 0.
Treble.	2 <sup>1</sup> . 2"	4. 0. 0.

Total, about, 55. 0. 0.

As a peal they are of very poor tonal quality, and the only way to obtain a really satisfactory musical result would be by complete recasting.

If you can see your way clear, it would be an advantage to add about 6 cwts of new metal to make them into a peal of eight Tenor 14 cwts, a semitone lower in keynote, i.e. F.

(2)

With reference to the existing bell-frame, the lower structure is of oak and is evidently part of the original frame. The foundation timbers are in very poor condition; they have been strengthened with steel work but further repair is not possible. The upper frame was put in at the time the two Trebles were added. It is constructed of cast iron "H"s mounted on steel girders. The cast iron "H"s are in good condition and only need scraping and painting, but the steel girders are heavily corroded with rust, and as a different plan design would be better, necessitating some of the girders being of a different length, we would advise entirely new girder work. We would also strongly advise using "copper bearing" girders, which are less liable to corrosion than the ordinary girder. We know of these special girders having been used on the sea coast with decidedly advantageous results. The cost is a little higher, but it is well worth while.

We enclose a half inch scale drawing shewing the design we advise. You will notice that five bells hang on the lower level, - the Treble, 2'nd, 3'rd, 6'th and Tenor, and it is an advantage from the "sound" point of view in the ringing chamber, to have the smaller bells in the lower frame. The larger bells also swing in the stronger direction of the Tower, i.e. East and West. This frame is drawn for the peal of eight Tenor 14 cwts.

The ropes of the six larger bells would be "drawn" into their correct position in the ringing chamber by means of ball-bearing rollers.

The weight of the frame we have shewn, exclusive of the existing eight "H" castings, would be  $55\frac{3}{4}$  cwts.

ESTIMATE. On the following ~~sheet~~ sheets we beg to submit the desired estimates. We have included every charge in connection with the work with the exception of putting in a new Belfry floor just below the foundation girders, and any work in connection with the clock or clock-hammers. You would probably be able to get this work carried out locally at lower

cost. As you know, Mr. Hughes did not have sufficient time to take all the details he would have wished, but if our suggestions are approved he would be pleased to come up again and discuss any points with you.

We have a new peal of eight, Tenor  $12\frac{1}{2}$  cwt in the Foundry now, for Chiddingfold, Surrey. They will be here for quite two weeks and if you are likely to be coming to London during this time we should much like you to hear them.

x We shall be pleased to give any further information desired, and with the offer of our best services,

remain,

Yours faithfully,

McAs Stambank

# Estimate

## DISMANTLING.

To clear the Belfry of the eight bells, fittings, framework and beams, and send the bells and the eight "H" frame sides to the Foundry.

All remaining material to remain the property of the Church.

## RECASTING.

To recast the eight bells, the recast Tenor to weigh about  $12\frac{1}{2}$  cwts, and the total weight to be between 51 and 52 cwts. Keynote to be F#, (old concert pitch)

The recast bells all to be ~~of~~ of the best possible tone, and accurately tuned on the correct five-tone harmonic principle.

## FITTINGS.

To provide complete ringing fittings for the eight bells, as under:-

Clappers. of best quality wrought iron,  
(Netherton Treble best).

Clapper-staples. Independent type bolted up  
through centre of headstock.

Headstocks. of tough cast iron, fitted with  
steel gudgeons.

Bearings. Self-aligning ball bearings fitted  
in totally enclosed dust-proof  
 housings. (Exactly <sup>similar</sup> to those fitted  
 at Ashton-under-Lyne)

Wheels of thoroughly seasoned oak.

Rollers. fitted in oak boxes, and running on  
two enclosed ball bearings.

Stays & Sliders. of straight grained ash.

Runner-boards. of thoroughly seasoned oak.

Carried forward

ST. MARY THE VIRGIN, DEANE, Lancs.

# Estimate CONTINUED.

## FITTINGS, Continued.

Ropes. of best quality Italian hemp. (Nicols make)

Ceiling bosses. of turned hard wood.

Also all necessary bolts, clips and straps etc.  
N.B. The clappers and rollers to be fitted with lubricators.

## BELL-FRAME & HANGING, etc:.

To provide and erect new framework to the design shewn in our drawing, the existing eight cast iron "H" castings to be incorporated. All the girders to be "copper bearing" type, mentioned in accompanying letter.

All bolts to be driving fit.

The ends of all girders to be cleated and grouted into the walls, and to be bedded on stone or concrete templates.

The whole to be painted one coat of red lead and two of red oxide.

Fit and hang the eight bells therein, leaving them in perfect going order.

Each bell to clapper accurately and right side.

Including men's time, journeys, expenses, all transport charges, mason's work, and all charges except a new Belfry floor and any work in connection with clock or clock-hammers.

We undertake to carry out the whole of the work in the best possible manner and to your complete satisfaction for the sum of - - - - - £

506 0 0

The above is made up as follows:-

Dismantling. - - - - -	£ 27. 0. 0.
Fittings. - - - - -	127. 0. 0.
Recasting. - - - - -	<del>207. 0. 0.</del>
Frame and hanging - - - - -	207. 0. 0.
	£ 506. 0. 0.

ST. MARY THE VIRGIN, DEANE, Lancs.

# Estimate CONTINUED.

ALTERNATIVE ESTIMATE.

If the bells are recast with the addition of about 6 cwts of new metal, they would make a peal of eight, Tenor 14 cwts, in the key of F, and the total weight would be about 61 cwts.

The cost of the recasting item in this case would be - - - - -

£ 215 0 0

This would increase the total cost to - - - - -

£ 576 0 0

*Mearns Steinbank*  
27. August 1936.

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