



St. Jude's Anglican Church, Carlton

Pipe Organ Proposal

May 2023

CONFIDENTIAL

PIPE

ORGANS



VICTORIA PTY.
LTD.

EST. 2022

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Ian Harper
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St. Jude's Anglican Church
235 Palmerston St
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3 August 2023

Dear Ian and Peter

Thank you for the opportunity to submit our proposal for realising the Wakeley Pipe Organs' design for the refurbishment and installation of the pipe organ in St Jude's. The organ is formerly of St Leonard's College, Brighton, and was removed by Pipe Organs Victoria from the ex-Wakeley Organs factory to secure storage in National Storage, Bayswater, continuing our ongoing acquaintance with the instrument.

Our proposal realises the 2021 WPO design and proposal, including the historic George Fincham pipes from the 19th century. The pipes originate from St John's Anglican Church Melbourne, date from 1867 and 1883, and were released by WPO for inclusion in the St Jude's pipe organ. In addition, two sets of double rise bellows and the Pedal Open Diapason 16' pipes, purchased by St Jude's from WPO, have also been incorporated in to the design.

We grant our permission for use of this proposal for the purposes of the Heritage Victoria Application necessary for this proposal to go ahead.

If you require any further information, please contact us on 0403 541 296 or enquiries@pipeorgansvictoria.com.au

Warmest wishes

Chris Teed & Kate Buttery
Directors

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Intellectual Property Clause

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Proposal Overview

- **Refurbished Pipe Organ:**

An organ of two manuals and pedals to be provided in new divided cases either side of the gallery. The former instrument from St Leonard's College is to be reconfigured as required to suit the requirements at St Jude's.
- **Historic George Fincham pipes:**

There are several ranks of historic 19th century pipes manufactured by George Fincham from 1867 and 1883 that we propose to use in the refurbishment. These pipes come from the organ originally in St John's Church of England, Latrobe Street, Melbourne. The pipes were purchased 20 years ago by Wakeley Pipe Organs and were included with the organ when it was put into storage following the dissolution of that company.
- **Pedal Open Diapason 16':**

In Brighton, the Pedal lacked gravitas that you can only get from large open wood pipes. The organ originally had a stop like this however, was not used in the Brighton installation due to space restrictions. There is a 19th century rank of pipes in storage with the Fuller (again, sourced from the dissolution of WPO) that would suit the organ exceptionally well.
- **New Casework design:**

The new casework design is a modest traditional design, in keeping with the needs of the parish of St Jude's. These include spotted metal façade pipes and polished timber casework.
- **Great 2²/₃ & 1³/₅:**

We plan to separate the Great Sesquialtera ranks to enable them to be used individually. This provides a wider range of tonal possibilities for the organist.
- **Great Tremulant:**

The addition of a tremulant to the Great will give the organist the ability to provide a gentle undulation to particular stops and combinations in this division.
- **Additional stops:**

Additional stops have been included in the new specification to provide a more interesting, versatile and tonally colourful instrument. These include:

 - i. Great Open Diapason II 8': This stop uses the 5¹/₃ rank from the Pedal Sesquialtera added in 1981. The pipes are actually 1880 Fuller and labelled Gemshorn. This would have been the Swell Gemshorn 4' in the 1880 organ. This will provide a lighter diapason tone in contrast to the Open No.1.
 - ii. Great Gamba 8': This stop uses the 3¹/₅ rank from the Pedal Sesquialtera added in 1981. The pipes appear to be 1880 Fuller string type pipes. This stop will give a string type tone that is in contrast to the Dulciana and will mix well with the other stops. It is also a nod to the original Fincham organ specification which had gamba on the Great.
 - iii. Great Cremona 8': This stop at Brighton was on the Pedal at 4' pitch. They are 1880 Fuller pipes formerly the Choir Cremona 8'. At 8' pitch on the manual, this stop will be a far more useful stop both as a solo or a smaller chorus reed.

- **Bellows:**

The 1981 bellows used for the Great and Swell divisions were small single-rise units placed vertically. This type of wind supply to the manual windchests is not ideal and can be unmusical in its result. They were designed to regulate the wind in a very abrupt way to make it very stable, however in the process removed the quality of wind it produced. Originally the organ had larger double-rise bellows. The reinstating of this type of bellows will provide a stable and high quality supply that is far more musical in its execution.

Fuller Organ Condition Report

History

1880 Organ built by Alfred Fuller for the 1880 Melbourne Exhibition

1881 Sold and installed in Toorak Presbyterian Church

1926 Rebuilt by George Fincham & Sons.

1940 Rebuilt and relocated inside the church by George Fincham & Sons.

1957 New console installed by George Fincham & Sons.

1981 Organ rebuilt by Laurie Pipe Organs and installed in St Leonard's College, Brighton

2020 Organ purchase by St Jude's Carlton and removed to storage by Wakeley Pipe Organs

2022 Organ parts and proposed additions removed from ex-Wakeley Pipe Organs factory to storage facility

A large proportion of the pipes and windchests date from the original 1880 instrument by Fuller. This brief condition report outlines its current condition and any issues affecting its reliability and performance.

Blower

- Blower dates from the 1980's. It is a good quality unit and appears to be running well, however was very dirty and on the slightly noisy side. It was housed in a separate brick room adjacent to the organ chamber and auditorium. This contained any operating noise to a minimum. The unit was free standing within the room.
- No baffle box was installed between the blower and main windtrunk to prevent airflow noise within the main wind system.

Bellows & winding

- There are three small bellows in the organ, one for each division. They are in physically good condition, however the leather is damaged in a few areas and requires repair.
- There are many windtrunks, manufactured from both timber and PVC, to transport the organ wind from the blower to the bellows and windchests. They are well manufactured and in generally exceptionally good condition.

Note & Stop Switching & Piston action

- Dates from 1980's and is now obsolete and limited in its capability. The cable connection between the console and organ chamber uses Midi technology. This is best used for a short distance between sections.
- There are minimal pistons and only two memory levels.

Transformer / Rectifier

- Dates from the 1960's and is obsolete with old technology.

Console

- The console dates from the 1981 work when it was installed in Brighton.
- The two manual keyboards have plastic key coverings.
- The pedalboard is worn and the stop-off felts perished.
- Organ bench is solid in manufacture, but not adjustable.
- Electrics in the console date from 1980.

Windchests & action

- Great & Swell slider windchests: original Fuller chests from 1880 that are well manufactured with quality materials. They were fully refurbished in 1981 to a very high standard. Each note has a slider seal that prevents air escaping from one note to the other. The type of foam slider seals used for the table and upperboards have shown to deteriorate over time. These should be replaced to ensure reliability.
- Great & Swell slider windchest note underactions: Chest magnets are very good quality units. Leather on primary and secondary pneumatic motors is in excellent condition with no sign of deterioration.
- Manual unit windchests: in very good physical condition. Leather on individual note action pneumatic motors is in excellent condition with no sign of deterioration. Chest magnets are very good quality units, and leather on the moving armature in the cap shows no sign of deterioration.
- Pedal Stopped Diapason and Trombone windchest: original Fuller chest from 1880 that is well manufactured with quality materials. It was fully refurbished in 1981 to a very high standard.

Expression enclosure & shutter motors

- Swell enclosure and shutters are in very good condition. The back of the enclosure was the chamber brick wall and the roof the ceiling of the chamber.
- Existing electro-pneumatic expression shutter controller is obsolete and has only 8 stages of movement.

Great Stop action control

- Stop action control for the both the great and swell slider windchests used all electric SLIC motors from 1981. These units are noisy and obsolete. A few stops had issues with the units not working correctly.

Tremulant

- The Swell tremulant is an electro-mechanical unit that is connected to the top of the bellows. When operating, the unit pushes on the bellows to create pulses within the wind system.

Pipework

- Pipes are generally in very good physical condition.
- Tuning stoppers in the wooden pipes are loose.

Proposed Specification

1867 = George Fincham pipes from 1867

1880 = Alfred Fuller pipes from 1880

1883 = George Fincham pipes from 1883

GFS = George Fincham & Sons pipes from 1926/1940

POV = New pipes

Great (Manual I)

1. Bourdon	16 (A)	(GFS)	12
2. Open Diapason	8	(1880)	61
3. Open Diapason II	8	(1880 & 1867)	61
4. Stopped Diapason	8 (A)	(GFS)	61
5. Clarabella	8	(1880)	61
6. Gamba	8	(1880 & POV)	61
7. Dulciana	8	(1880)	61
8. Principal	4	(1880)	61
9. Harmonic Flute	4	(1880)	61
10. Twelfth	$2\frac{2}{3}$	(1880)	61
11. Fifteenth	2	(1880)	61
12. Tierce	$1\frac{3}{5}$	(1880)	61
13. Mixture 19.22.26	III	(1867 & POV)	183
14. Trumpet	8	(1880)	61
15. Cremona	8	(1880 & POV)	61
Tremulant			

Swell (Manual II - Enclosed)

16. Open Diapason	8	(1880)	61
17. Stopped Diapason	8	(1880)	61
18. Viol d'Gamba	8	(1883 & POV)	61
19. Voix Celeste (tenor C)	8	(GFS)	49
20. Principal	4	(1880)	61
21. Nazard	$2\frac{2}{3}$	(1880)	61
22. Flageolet	2	(1880)	61
23. Mixture	III	(1867 & POV)	183
24. Cornopean	8	(1880)	61
25. Oboe	8	(1880)	61
26. Clarion	4	(1880)	61
Tremulant			

Pedal

27. Sub Bourdon	32 (C) * See note	-
28. Open Diapason	16 (B) (19 th century / POV)	32
29. Bourdon	16 (C) (1880)	32
30. Echo Bourdon	16 (A)	from Great
31. Octave Wood	8 (B)	12
32. Principal	8 (D) (GFS)	32
33. Flute	8 (C)	12
34. Fifteenth	4 (D)	12
35. Octave Flute	4 (C) (POV)	12
36. Trombone	16	32

* Sub Bourdon 32': 1-12 notes play Bourdon 16'+ 10²/₃ Quint.
13-30 notes play Bourdon at 32' pitch (from 16' C)

Couplers:

Swell Sub Octave
Unison Off
Swell Octave

Swell Sub Octave to Great
Swell to Great
Swell Octave to Great

Great to Pedal
Swell to Pedal
Swell Octave to Pedal

Gallery Organ Console accessories

- 6 Divisional thumb pistons to Great & Swell
- 6 Divisional toe pistons to Pedal
- 10 General thumb pistons
- Thumb & toe piston reversibles: Swell to Pedal, Great to Pedal, Swell to Great
- Toe pistons next and previous
- General Cancel
- Next & Previous thumb pistons for sequencer
- Full Organ thumb piston with indicator light

Proposed Scope of Work Details

Refurbishment / Reconfiguration:

The proposed locations for the refurbished organ are divided either side of the gallery. In our workshop we would reconfigure the instrument for its new siting. The Swell would be on one side & Great on the other with the Pedal on both sides.

Casework & Façade pipes:

Two new cases would be designed and manufactured for divided sections in the Gallery. The design is of a modest traditional nature. Artists' impressions of the casework will be provided shortly for the fundraising needs of the parish.

- The design will incorporate new spotted metal façade pipes.
- The timber casework would be polished oak, and blend with the church's architecture and furniture.

Gallery Console:

New two manual and pedal drawstop console will be sited in the front-middle section of the Gallery:

- Low profile design to allow organist to see over the top.
- Ivory-resin covered solid timber keyboards.
- Pedalboard with hardwood naturals and sharps.
- Console casework to match the organ casework, both designed to complement the surrounding furniture and building.
- New drawstops.
- All key contacts, drawstop units, pistons and electrics to be new state-of-the-art units.
- New capture and switching control system.
- New LCD panel in the console to allow the capture system to be controlled by the organist.
- New low voltage transformer.
- Test the system and electrics throughout.

Great & Swell slider windchests

The slider windchests would be completely cleaned and checked throughout. The only major issue to be rectified is the replacement of slider seals for each note. This work would include:

- Check timber tables for any splits and repair if necessary to ensure stability.
- Supply and fit new slider seals.
- Check and adjust sliders for correct clearance.
- Check pallet springs for correct tension and adjust where necessary.
- Pressurise with air and test throughout.

Stop action control for slider windchests

21 new slider stop action controls slider windchests would be via new all electric stop control units. These units are new technology and are quiet in operation. Timber dust covers would be manufactured and installed around each set.

Unit Windchests:

- All existing unit windchests would be cleaned, checked and tested throughout for optimum working order.
- New windchests will be manufactured for the Pedal Open Diapason, Great Open II, Great Gamba and the Great Cremona. New windchests will be electro-pneumatic to match the existing actions.

Control system and electrics:

A new solid state note switching and capture system would be installed for the key, stop and piston actions, and new wiring throughout.

- A new solid state note switching and capture system (Digital Control System) will be purchased. It is a microprocessor-based system, custom made for each organ using the latest technology and specifically designed for pipe organs. All parts used in its manufacture are rigorously tested and operate within specified tolerances to ensure ongoing consistent performance for decades to come. The systems are very reliable and have inbuilt protection against lightning strikes. In the event that there is a fault, the system is modular and boards can be easily removed and replaced. Software can be easily reprogrammed if required.
- The console capture system provides up to 250 memory levels of general and divisional pistons, which allows different organists to have their own particular combination settings. Each level may be individually locked to avoid accidental changes. Other features included with the system include: sequencer, Midi interface, record and playback facilities, transposer.
- Install new cables to all the windchests within the organ and wire to the solid state section within the organ.
- Install new solid state transformers for the console and organ low voltage supply.
- Test the system and electrics throughout.

Wind System:

- New custom made pipe organ blowers would be supplied, one for each side of the gallery within each organ chamber. Drawing the air from within the organ chamber, rather than externally, ensures that maximum tuning stability is achieved.
- New blower housings would be manufactured with new advanced sound absorption fitted. This acts as a dust cover and keeps any operational noise to an absolute minimum.
- A new baffle box would be manufactured to help silence any operational noise coming through the main windtrunk.
- Two of the existing single-rise bellows would be refurbished and used for the Pedal division, one for each side of the gallery.
- Two double-rise bellows (included with the organ when it was removed from the ex-WPO factory) would be refurbished for the Great and Swell divisions.
- New wind stabilisers will be provided for each main windchest. They will be fitted with cut-outs to disable them when the Tremulant is being used on that division.

- New Tremulants will be provided for the Swell & Great divisions.
- Where possible the existing windtrunks will be utilized. Additional windtrunks will be manufactured and provided where necessary.

Building frame:

The building frame will be divided into the two separate parts and reconstructed to allow the Swell and Great to be on either side of the gallery.

Swell Expression enclosure:

- The existing expression box enclosure for the Swell division will be refurbished and new back & roof sections manufactured.
- New 16 stage all electric expression shutter motor will be installed.

Pipes:

The existing pipework will be cleaned, checked and repaired throughout and include the following:

- All wooden pipes will be dry cleaned, checked for splits, repaired, stoppers re-leathered and re-fitted to ensure tuning stability. Metal tuners would be checked and any in poor condition will be replaced in identical metal.
- The Pedal Open Diapason 16' pipes would be completely refurbished throughout including: cleaned, repaired where necessary and painted.
- All the metal pipes will be checked for bad dents and damage, carefully repaired, cleaned and tuning sleeves checked and adjusted.
- All reed pipes will be completely dismantled, cleaned, reassembled and revoiced for optimum tone.
- All new pipes to be manufactured in appropriate materials to match the original pipes.

Installation:

On completion of refurbishment & reconfiguration work in our workshop, all parts would be transported to the church and assembled in the gallery. The installation would include the following work:

- Transportation of the organ parts to Carlton.
- Lift all necessary parts of the organ into the gallery.
- Assemble the organ in the gallery.
- Position console in the front, middle section of the gallery and connect cables to the both sections.
- Adjust and test all parts and systems for optimum working order.

Voicing & Tonal finishing:

- All pipework new to the instrument would be pre-voiced to match the Fuller pipework in our workshop in order to provide optimum sound in St Jude's building.
- All the pipework would be installed, tonally finished and regulation (volume & speech from note to note) checked and adjusted where necessary to suit the building, and fine tuned throughout.

Installation on site requirements (supplied by Parish)

1. Power requirements, including:
 - A contactor and isolator switch will need to be installed near the two motors (one blower for each side of the organ).
 - Single phase (240v) switched and unswitched power for the solid state control system and transformers.
 - Organ lights for the console and inside the organ.
2. Scaffolding and lifting equipment during installation.

Proposal Details

Insurance:

- Pipe Organs Victoria has current Public Liability and Product Liability cover to the value of \$20 million each.
- Pipe Organs Victoria carries full WorkCover Insurance for all employees.

Warranty:

All works carried out have a warranty period of 10 years providing the tuning and maintenance of the instrument is undertaken by Pipe Organs Victoria. The warranty becomes void if Pipe Organs Victoria are no longer engaged and/or another contractor is engaged to undertake the tuning and maintenance of the instrument.

Materials:

All materials used in our work will be of first class quality for longevity and reliability.

About Pipe Organs Victoria

Pipe Organs Victoria is the combined forces of Organ Builders Philip Henderson, Christopher Teed, and Kate Buttery. With a decade of collegueship under their belts, and with combined experience in the industry of over 30 years between them, Pipe Organs Victoria are the newest generation of Organ Builders in Australia. Our approach to our craft combines our extensive knowledge of traditional organ building techniques and materials with understanding of liturgical needs of range of parishes, and technical requirements of performing arts venues.

We come from church music backgrounds, and have worked and worshiped across a variety of liturgical styles. We have also worked in the performing arts, and understand that the artistic and technical requirements placed on the organ in performing arts venues, can vary widely between venues, visiting artists, and events.

We nurture creative spirits, a great love of our profession, a desire to share our knowledge, with the understanding that you never stop learning in life. With this zeal we look to the future with optimism, and hope of handing on the tradition of organ building to future generations.

Our current projects include:

- St John's Anglican Church, Camberwell (1958 Hill, Norman & Beard / 1985 & 1996 Australian Pipe Organs / 2020 Wakeley Organs) - Rebuild

Our portfolio includes:

- St George the Martyr, Goodwood (1903 Al. Noterman / 1976 J.E. Dodd Gunstar / 1998 L. Jacobs) – Repairs and Refurbishment
- Hamilton Uniting Church (1901 Geo. Fincham & Son / 1958 Hill, Norman & Beard / 1978 Laurie) – Major Refurbishment
- St Patrick's Catholic Church, Stawell (1979 Laurie) – Relocation

Our work as colleagues under previous employment can be found in instruments including:

- Hawthorn Presbyterian Church (1892 Fincham & Hobday / 1923 F.Taylor) – Restoration
- St Mark's Catholic Church, Fawkner (1888 A.Fuller) – Renovation
- Christ Church Anglican Church, Beechworth (1882 William Anderson) – Heritage Restoration
- Ballarat Central Uniting Church (1890 Fincham & Hobday / 1954 Geo. Fincham & Sons) - Refurbishment
- Holy Trinity Anglican Church, Williamstown (1896 William Anderson) - Restoration
- Zion Lutheran Church, Walla Walla, NSW (1869 G Fincham / 1967 Laurie) - Refurbishment
- Holy Trinity Anglican Church, Coleraine, Victoria (1921 Meadway & Slatterie) - Refurbishment
- St Mary the Virgin Anglican Catholic Church, South Caulfield, Victoria (1886 A Crook) - Heritage Restoration
- St Augustine's Anglican Church, Inglewood, Victoria (1878 George Fincham) - Refurbishment
- St John's Anglican Church, North Ballarat (1891 Fincham & Hobday / 1972 Turner) - Refurbishment
- St Francis Xavier Catholic Cathedral, Adelaide (1927 Casavant) - Refurbishment
- Gulangyu Organ Museum, Xiamen, South East China (1909 Norman & Beard) – Repairs to Typhoon Damage
- Queen's College, University of Melbourne, Parkville (1921-24 Dodd / 1960 Hill, Norman & Beard / 2017 Wakeley Organs) - Rebuild
- Holy Trinity Anglican Church, East Melbourne (c1872 Henry Boom) - Restoration
- St Stephen's Anglican Church, Richmond (1865 JW Walker) - Heritage Restoration