THE PRESENT STOPLIST

GREAT

- 16' Quintaton
- 8' Principal
- 8' Holzgedeckt
- 4' Octave
- 23/3' Quint
- 2' Super Octave Fourniture IV-VII
- 8' Trompette-en-chamade (Ant.)

GREAT 16

GREAT 4

GREAT UNISON OFF

SWELL 16

SWELL 8

SWELL 4

CHOIR 16

CHOIR 8

CHOIR 4

BOMBARDE-ANTIPHONAL 8

SWELL

- 16' [Bourdon & Flute]
- 8' Geigen Principal
- 8' [Flute]
- 8' Rohrflöte
- 8' Viola de Gamba
- 8' Viola Celeste
- 8' Flauto Dolce
- 8' Flute Celeste (t.c)
- 4' Prestant
- 4' Flute Triangular
- 2' Nachthorn Plein-Jeu V
- 16' Bombarde
- 8' Trompette
- 8' Hautbois
- 8' Vox Humana
- 4' Clairon Tremolo

SWELL 16

SWELL 4

SWELL UNISON OFF

BOMBARDE-ANTIPHONAL 8

CHOIR-POSITIV

- 8' Nason Flute
- 4' Koppelflöte
- 2' Lieblich Prinzipal Cymbal III
- 8' Spitzflöte
- 8' Unda Maris II
- 4' Montre
- 23/3' Nazard
- 13/5' Tierce

CHOIR-POSITIV cont.

8' Clarinet

Tremolo

Cymbelstern

CHOIR 16

CHOIR 4

CHOIR UNISON OFF

SWELL 16

SWELL 8

SWELL₄

BOMBARDE-ANTIPHONAL 8

GREAT 8

BOMBARDE-ANTIPHONAL

8' Trompette harmonique

BOMB-ANT 16

BOMB-ANT 4

UNISON OFF

GREAT 8

SWELL 8

- 8' Montre
- 8' Bordun
- a' Octave
- 2' Fifteenth
 - Mixtur IV
- 8' Trompette-en-chamade
- 16' Pedal Bordun

PEDAL

- 32' Open Bass
- 16' Contra Bass
- 16' Violone
- 16' Bourdon
- 16' [Bourdon] (Swell)
- 16' Quintaton (Great)
- 8' Principal
- 8' Violoncello
- 8' Bourdon
- 4' Choralbass
- 4' Flute

Mixture 11

- 32' Contra Bombarde
- 16' Ophicleide
- 16' Bombarde (Swell)
- 8' Trompette
- 4' Clairon
- 8' Trompette-en-chamade (Ant.)

GREAT 8

SWELL 8

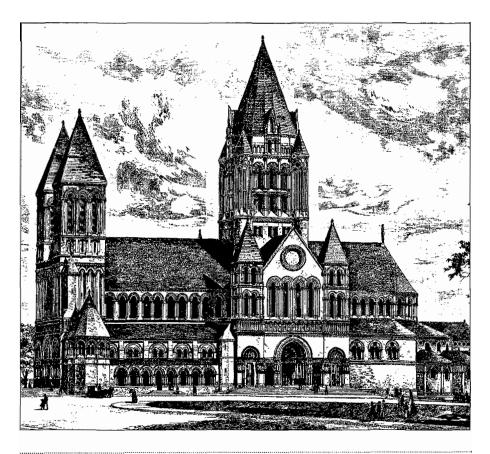
SWELL₄

CHOIR 8

CHOIR 4

BOMBARDE-ANTIPHONAL 8

PEDAL ON ANY MANUAL ADJ



Above: Henry Hobson Richardson's rejected design for the Cathedral of All Saints

GREAT [manual II]

61 notes

QUINTATON 16

Austin, Aeolian-Skinner. CC-BB ex-Austin Gr. First Diapason; zinc, offset, cut-ups lowered, heavy original nicking. Remainder A-S; spotted metal, ears throughout, felted canisters, ²/₉ mouth, skived upper lips. CC-BB stamped "OP." scribed "Grt."; c⁰ stamped "1275 GT QUINT C".

PRINCIPAL 8

CC-AA ex-Austin Gr. Second Diapason, cut-ups lowered; AA[‡]-c⁴ Aeolian-Skinner. CC-BB zinc, slotted, rollers CC-AA[‡]. c^o-c⁴ spotted metal, ¼ mouth. Ears CC-b¹. CC marked "2nd Open".

HOLZGEDECKT 8

Austin, revised. Stopped pine throughout, CC-b^o cherry caps, c¹-c⁴ mahogany caps. CC-BB cut-ups lowered with screwed-on spotted metal plates. CC and c^o both stamped "45".

OCTAVE 4

Aeolian-Skinner. Frosted unplaned tin, ears CC-c¹, ¼ mouth, skived, double-edged nicking favoring languid. CC inked "1275 Grt.", stamped "OCT C".

SPILL FLÖTE 4

Stopkey taped over; no chest preparation

QUINT 23/3

Aeolian-Skinner, from supplier. Spotted metal, ¼ mouth, skived upper lips; ears CC-e^o.

SUPER OCTAVE 2

Aeolian-Skinner, from supplier. Spotted metal, ¼ mouth, skived upper lips; ears CC-BB.

FOURNITURE IV-VII

Aeolian-Skinner, frosted unplaned tin, ¼ mouth, skived upper lips. Ears on all pipes longer than I'; doubled pitches papered off.

 $1\frac{1}{3}$ 1/2 CC-BB T1/3 2/3 c^0-b^0 I 2 I¹/₃ c^1-f^1 23/3 Ι $f^{\sharp_1}-b^{12}$ I1/3 $2\frac{2}{3}$ Ι c^3-f^3 23/3 2 I¹/₃ 2 f^{#3}-c⁴ 8 51/3 $2\frac{2}{3}$ 4

TROMPETTE EN CHAMADE 8 (Antiphonal)

CHOIR-POSITIV [man. I] 68 notes

Unenclosed section (Positiv)

NASON FLUTE 8

Aeolian-Skinner. CC- c^4 stained oak, English blocks, no nicking. $c^{\sharp 4}$ - g^4 open tin, 1:2 taper.

KOPPEL FLÖTE 4

Spotted metal. CC-GG capped, conetopped canisters; long feet for visual contour; GG[†]-g² felted "koppel" canisters; g^{‡2}-g⁴ open. Ears CC-g², ½ mouth.

LIEBLICH PRINZIPAL 2

61 pipes. Frosted unplaned tin, ¼ mouth, ears CC-BB.

CYMBAL III

61 notes, 183 pipes.

Frosted unplaned in, 1/4 mouth, no ears.

1/2 1/3 CC-BB 1/2 1/3 c^0-f^0 f#0-b0 2/3 Τ 2/3 I1/3 Ι c^1-b^1 c^2-f^2 $I^{1/3}$ 2 Ι $f^{||_2}-b^2$ 23/3 2 I¹/₃ $c^{3}-c^{4}$ $2\frac{2}{3}$

Enclosed section (Choir)

SPITZ FLÖTE 8

CC-BB zinc, c^0 - g^4 spotted metal. CC- c^4 1:4 taper, $c^{\frac{4}{4}}$ - g^4 cylindrical, ¼ mouth. CC-AA offset.

UNDA MARIS II 8

124 pipes.

Rank 1: Inked "Ch Unda Maris CC 1275" (originally bass of celeste), rollered, spotted mouths on zinc bodies, fine nicking. c° inked "SAL", long sharp skiving, stamped "MADE LYON" [Lyon & Healy?]. From c° stamped "CHO ECH SAL C" (Austin). Spotted metal, ½ mouth. Evidence of narrow slotting filled in. Some pipes inked "1275 CH-POS UNDA MARIS". CC-BB offset. Rank 2: from c°, primarily Austin. Spotted metal, ½ mouth, rollers c°-f°, ears c°-a‡3, Aeolian-Skinner fill pipes g°-g‡0 (re-scaling) and b³-g⁴.

MONTRE 4

Unplaned frosted tin. Slotted CC-c³ (¼ wide, ⅓ down); ears CC-f¹; ¼ mouth Stamped "1275 POS MONTRE C".

NAZARD 23/3

Spotted metal, ¼ mouth, ears CC-e⁰, 2:3 taper CC-c³, remainder cylindrical. Stamped "NAZ C".

TIERCE 13/5

61 pipes. Spotted metal, ½ mouth, arched cut-ups, ears CC-GG. 2:3 taper CC-c², remainder cylindrical. c‡-c⁴ breaks to 3½'. Stamped "1275 TIERCE C".

CLARINET 8

Austin Corno di Bassetto. CC block stamped "CC FIW" [Frederick I. White, pipemaker?]. Reeds CC-c³, ½-length, cylindrical, slide-tuned, tapered shallots. c^{‡3}-g⁴ spotted metal flues.

TREMOLO

CYMBEL STERN

SWELL [manual III]

73 notes

CONTRA AEOLINE 16

GEIGEN PRINCIPAL 8

CC-BB: Austin Enclosed Great Geigen Diapason, CC "GR GEI. DIA", zinc, slotted.c°-b°: Aeolian-Skinner, spotted metal, ¼ mouth, "SW 8 PRIN" (since revoiced, no remaining upper lip skive). c¹-g⁴: stamped "15th", Laukhuff pipes, spotted metal, ¼ mouth.

AEOLINE 8

Extension of 16' [flute]

ROHR FLÖTE 8

CC-c¹ from Skinner Op. 724. CC-BB: stopped pine, walnut caps, German blocks, arched cut-ups, nicking on languid only. c⁰-c¹: common metal, ⅔ mouth, high arched cut-ups, upper lips in the round. c♯¹-g♯³: common metal chimney flute, soldered caps, eartuned, arched upper lips, fine nicking (c‡¹: "Waterbury Choir 1863 Flute C"). a³-g⁴: 1:2 tapered open common metal, ⅙ mouth, arched upper lips. g‡⁴-c⁵ from Skinner Op. 724, open tapered common metal.

VIOLA De GAMBA 8

Primarily Austin. CC-BB: zinc, slotted, CC-FF offset. c⁰-c⁴: spotted metal, CC-f⁴² rollers. b⁴-c⁵: spurious, from Aeolian-Skinner. CC-c⁴ ears, sharp skiving, extremely fine nicking. CC stamped "CON GAM", but majority are stamped "Gt GAMB".

VIOLA CELESTE 8

Several stops combined. CC-f^{‡0}: zinc; de-slotted c⁰-f^{‡0}; remainder spotted metal, scribed "#2 618 68 G AEOL CEL", inked "SW VIO CEL" with three fill pipes to increase scale. Rollers CC-f³; ears CC-c⁴. c^{‡4}-c⁵ from Op. 724 Viol Celeste, spotted metal. CC: "724 SW SAL C 64". CC-FF offset.

FLAUTO DOLCE 8

Skinner, complete from Op. 724. CC-e⁰: zinc, ½ mouths. f⁰-c⁵: common metal. 1:2 taper at CC, graduating to cylindrical at c³, mouth widths graduate from ½ to ½. Rollers CC-FF‡; slots CC-BB; ears CC-c³; offset CC-GG. Treble portion deslotted, tuning slides.

FLUTE CELESTE 8

From co, 61 pipes. As Flauto Dolce.

PRESTANT 4

Aeolian-Skinner, from supplier. CC-BB: "SW Pr" "T 4981 Albany N.Y.", spotted metal. c°-c5 stamped "15th", Laukhuff pipework. 2′ c "Pitch pipe, 7″ w.p. barometer".

FLUTE TRIANGULAR 4

Skinner, complete from Op. 724. CC- c^3 pine with gumwood fronts, walnut caps, inverted mouths, arched upper lips, nicking on block and cap. c^{\sharp_3} - c^5 common metal open flues.

NACHTHORN 2

61 pipes. Was Aeolian-Skinner in 1956, replaced 1985 by Austin, replaced again 2005 by Turley. Recycled early 20th-century pipework. CC-b⁰: heavy common metal, ²/₂ mouth, heavy nicking, stamped "OP". c¹-c³ linen lead stamped "OPEN". c¹/₃-c⁴ linen lead flute trebles.

PLEIN-JEU V

305 pipes. 1986 Austin replacement of 1956 3-rank Aeolian-Skinner mixture replacing original Op. 724 5-rank Mixture. Spotted metal, ¼ mouths.

Ι	2/3	1/2	1/3	1/4	CC-FF
11/3	I	2/3	1/2	1/3	GG-c ⁰
2	I1/3	I	2/3	1/2	$c^{\sharp 0}$ - $f^{\sharp 0}$
			I		g^0-c^1 $c^{\sharp 1}-c^3$
4	$2\frac{2}{3}$	2	I1/3	I	$c^{\frac{1}{4}1} - c^3$
8	4	4	$2\frac{2}{3}$	2	c ^{‡3} –c⁴

BOMBARDE 16

1956 Aeolian-Skinner, from suppliers. CC-FF: offset, spotted metal stems, inserts, scrolls, zinc bodies. CC-b⁰: spotted metal bells on zinc stems. c^1 - c^4 : entirely spotted metal. Harmonic at $f^{\sharp 3}$. $g^{\sharp 4}$ - c^5 , spotted metal Laukhuff flues. Original scrolls soldered shut, new slots cut. c^1 stamped "TR. 8", inked "1275 SW BOM". Revoiced Austin 1986.

TROMPETTE 8

Aeolian-Skinner, from suppliers. CC-BB: zinc, spotted metal sockets and inserts, zinc bodies. c^0 - g^3 : spotted metal resonators, short boots. Harmonic at $f^{\sharp 2}$. Stems centered on blocks. $g^{\sharp 3}$ - c^5 : spotted metal Aeolian-Skinner flues. Revoiced by Austin 1986.

HAUTBOIS 8

In 1956, a recycled Skinner English Horn (not from Op. 724). Now Austin, 1986. $CC-c^3$: spotted metal bells on zinc stems. $c^{\sharp \ 3}-f^3$: capped trumpet (Flügel Horn) construction; $f^{\sharp \ 3}-c^5$

spotted metal flues.

VOX HUMANA 8

Skinner, Op. 724. CC- g^3 lifting cap, Hoyt metal, zinc boots. Resonance boots d^0 - g^3 , spotted metal flues $g^{\sharp 3}$ - c^5 .

CLAIRON 4

Identical in construction to Bombarde and Trompette. Reeds $CC-g^2$, harmonic at $g^{\sharp 1}$, flue trebles from supplier. Revoiced by Austin 1986.

TREMOLO

[blank stopkey]
[blank stopkey]

BOMBARDE [manual IV]

73 notes

TROMPETTE HARMONIQUE 8

90 pipes. Formerly named Trompetteen-chamade, renamed Bombarde upon arrival of 1986 Austin Antiphonal. Aeolian-Skinner, combination of supplier (Giesecke) and Aeolian-Skinner pipes; revoiced Austin 1986. CC-BB zinc, CC-EE mitred; replacement spotted metal lower stems. Common metal boots, domed Bertouneche shallots. CC-g^{#0} weighted. Harmonic at c¹ with reeds to g3. Spotted metal, slotted, short boots at c^0 . At $g^{\sharp 3}$, two-ranks, open spotted metal flues, equal length feet, Aeolian-Skinner pipes, second rank muted. Markings: Boots stamped "TR." different font, as are the sockets of the bass octave. c¹ stamped "SOLO TR HAR". co stamped "1480". c1 stamped "SOLO TR HAR". Chest labeled "Trompette en chamade, 8½" pressure". Second chest label says "12" pressure". Masonite reflector of recent construction forming a back and roof.

BOM-ANT 16

Originally "Bombarde", playing the Trompette as a tenor c 16'.

BOM-ANT 4

Originally "Clairon", playing the Trompette at 4'.

GRAND V

Stop-key preparation only; taped over.

[blank stopkey]

PEDAL

32 notes.

UNTERSATZ 32

12 pipes, Austin. Extension *Bourdon*. 1904 Austin *Open Wood*, laid horizontally along North triforium. Pipes constructed of single planks, dead length. CCCC 22½"x18½", wood thickness 1½", cut up 5". Wooden frein on top exterior of the block.

CONTRA BASSE 16

CC-f¹ Austin façade pipes withcutout windows, FF-f¹ gold-painted pipes (original Great 16' Diapason from former façade, see photo). f^{#1}-g¹ spurious, 19th-century New York-style, insoldered-lips. Metal portion has been rescaled a half-step; GGG[#] now playing AAA. In script "Pedal Open," c^{#1}-f¹, f^{#1} and g¹ on 1904 Universal chest.

VIOLONE 16

44 pipes, Austin. CC-b⁰ wood, German blocks, English caps, sharply skived upper lip, rollers, no nicking, moderate windways, relieved capface bevel. c¹-e¹ zinc, spotted f¹-g². ²/₉ mouth, f^{#2}-g² spurious, on old Universal chest. Wood pipes painted brown, CC scribed "Violon Ped C".

BOURDON 16

56 pipes. CC-f° Austin, CCC inkstamped "Bourdon 16", Pine bodies, pine caps with mahogany inserts, German blocks, nicking block and cap. $f^{\sharp o}$ - g^2 spurious, $g^{\sharp 2}$ - g^3 Kimball pipes with 1:1 cutup. All on Aeolian-Skinner chest with separate treble chest attached on the return.

QUINTATON GR 16 CONTRA AEOLINE SW 16 PRINCIPAL 8

44 pipes. Aeolian-Skinner, Austin. CC-BB from Aeolian-Skinner era but recycled; zinc, slotted, rollered. c⁰-b⁰ zinc, c¹-g² scribed "Oct C" (ex-Austin Great Octave?) inked "Ped. C-B C". Ears CC-f^{‡2}, ¼ mouth.

VIOLONCELLO 8

Extension Violone

BOURDON 8 extension

Extension Bourdon

CHORAL BASS 4

Extension Principal

FLUTE 4

Extension Bourdon

MIXTURE II

64 pipes, Aeolian-Skinner chest, recycled pipework, 2%'-2' throughout. 2%': ¼ mouth. CC-EE zinc, de-slotted, remainder spotted metal. CC-BB arched upper lips, skived; ears CC-a°. FF# scribed "F# OCT QUINT" 2': spotted metal, ¼ mouth, skived upper lips, ears CC-e°. Was once

slotted. CC scribed "601 69 CC Sup Oct" Both ranks inked "1275 PED MIX TWO C"

CONTRA BOMBARDE 32

32 pipes, Möller pipes and chests (Saint Matthew's Cathedral, Washington, D.C., installed Paul Carey ca. 1995). CC-BB half-length resonators on two chests, diatonic. c⁰-f¹ on third chest, $f^{\sharp 1}$ - g^1 on fourth chest. CC-GG, c^0 - $c^{\sharp 0}$ mitred. Winded from new reservoir. CC-g^{#0} sleeved zinc, a⁰-b⁰ slotted, scrolled, c¹-c^{‡1} slotted, spotted metal bells on zinc. Screwed on weights throughout; tapered shallots with face plate, tear drop openings. c⁰ scribed "8" wind"; c1 stamped "8246 41/2" sc Bombard C".

OPHICLEIDE 16

CC-g⁰ from Skinner Op. 858 (Rollins College, Winter Park, Florida, 1932), varnished common metal bells on zinc, with recent spotted metal inserts: g#1-g2 Aeolian-Skinner 1956, stamped "PED OPH". 1956-era Aeolian-Skinner Bertounèche shallots throughout. Short boots from g^{#1}.

BOMBARDE SW 16

TROMPETTE 8

Extension Ophicleide

CLARION 4

Extension Ophicleide

TROMPETTE EN CHAMADE 8

Antiphonal

ANTIPHONAL

MONTRE 8

CC-BB façade, polished zinc, rollers. c⁰-e⁰ copper, façade; f⁰-c^{#1}, tin, façade; d¹-c⁴ spotted metal, interior. Ears CCf^{#2}. Stamped "C-0248 J.R."

BORDUN 8

CC-c3 mahogany bodies with maple caps, English blocks; c^{#3}-c⁴ open tapered common metal.

OCTAVE 4

Spotted metal, ¼ mouth, ears CC-f1. [one blank chest position]

FIFTEENTH 2

Spotted metal, ¼ mouth, ears CC-eo.

MIXTUR IV

244 pipes. Spotted metal, ¼ mouth. Ears: 2', c^{#0}-d⁰; 11/3', CC-AA#; I'CC-EE.

I1/3	I	2/3	1/2	$CC-c^0$
2	11/3	I	2/3	$c^{\#0}-c^{1}$
$2\frac{2}{3}$	2	I1/3	I	$c^{\sharp 1} - c^2$
4	23/3	2	I1/3	$c^{\sharp 2} - c^3$
8	4	$2\frac{2}{3}$	2	c ^{#3} −c ⁴

TROMPETTE EN CHAMADE 8

Slotted copper.

PEDAL BORDUN 16

12-note extension of Manual Bordun. Poplar, English blocks.

[blank stopkey]

COUPLERS

[to Pedal] GREAT 8 SWELL 8 SWELL 4 CHOIR 8 CHOIR 4 **BOMBARDE-ANTIPHONAL 8** PEDAL ON ANY MANUAL ADJ [to Swell] SWELL 16 SWELL 4

BOMBARDE-ANTIPHONAL 8 [blank stopkey]

SWELL UNISON OFF

[blank stopkey] GREAT 8 SWELL 8 [to Great] GREAT 16 GREAT 4

GREAT UNISON OFF

SWELL 16 SWELL 8 SWELL 4 CHOIR 16 CHOIR 8 CHOIR 4

BOMBARDE-ANTIPHONAL 8

[to Choir] CHOIR 16 CHOIR 4 CHOIR UNISON OFF SWELL 16 SWELL 8

SWELL₄ **BOMBARDE ANTIPHONAL 8** GREAT 8

BOMBARDE-ANTIPHONAL 16 BOMBARDE-ANTIPHONAL 4 **BOMBARDE-ANTIPHONAL**

UNISON OFF

COMBINATIONS

Solo kevslip BOMB/PED 1-2-3-4-5-6 PED 1-2-3-4

Swell keyslip GEN 1-2-3-4-5 SW PED SW 1-2-3-4-5-6-7-8 PED 5-6-7-8

Great keyslip GEN 6-7-8-9-10 GT PED GR 1-2-3-4-5-6 SW GT CH GT BOMB GT TUTTI

Choir keyslip GEN 11-12 CH PED CH 1-2-3-4-5-6 SW CH GT CH GEN CAN

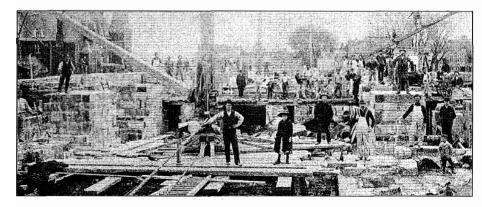
Treble toe controls GEN 1-10 GT PED REV SW PED REV CH PED REV BOMB PED REV

Bass toe controls PED 1-2-3-4-5-6 **TUTTI**

Key cheeks **SWELL NAVE SHADES** ON/OFF, KEY CHEEK

Expression shoes CH SW

CRESC



Above: The laying of the foundation for the Cathedral of All Saints about 1884