

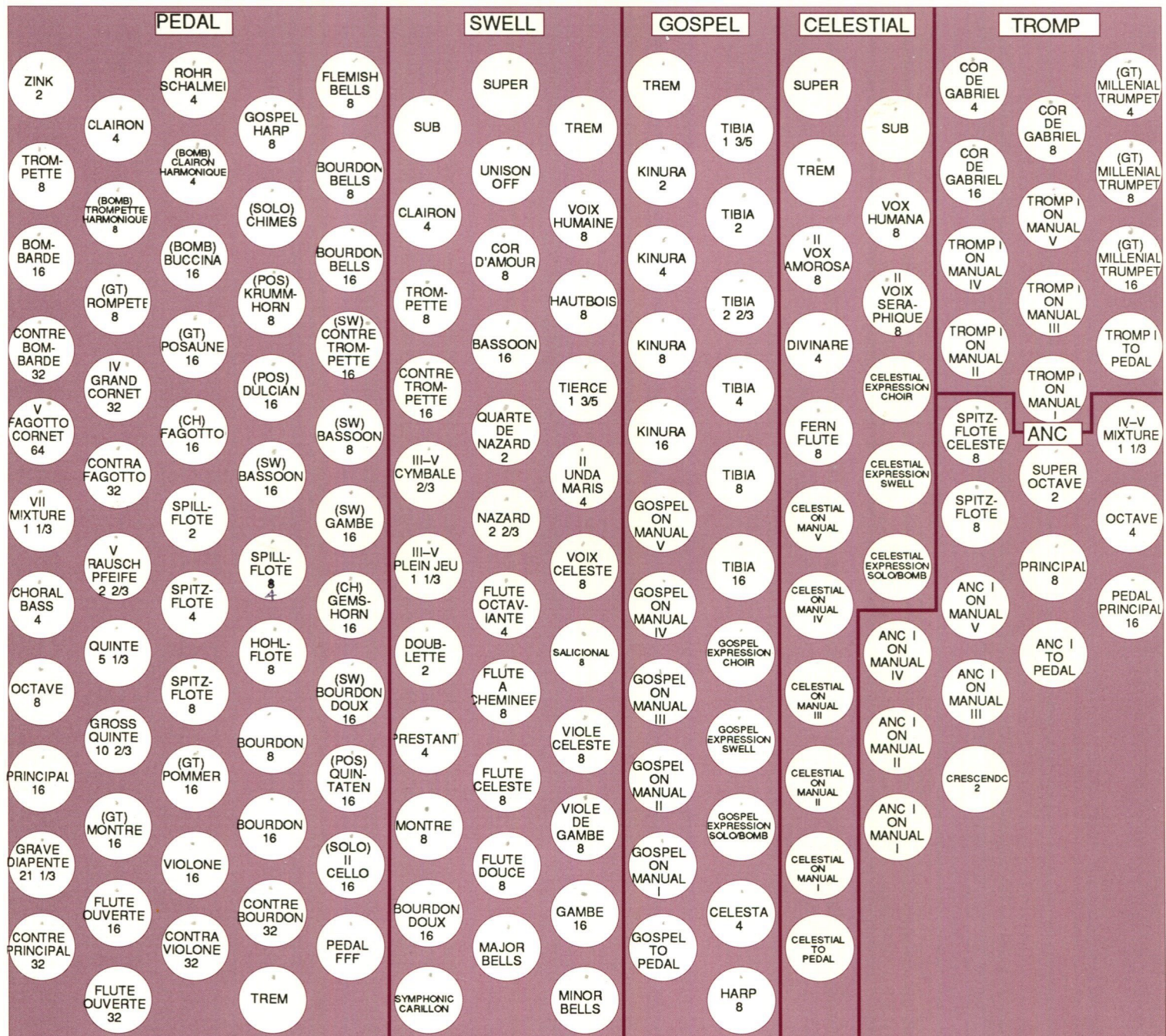
THE CALVARY GRAND ORGAN

Calvary Church – Charlotte, North Carolina

Dr. Ross S. Rhoads, *Senior Minister*

David German, *Minister of Music*

Console Drawknob Layout, Left Side



Pedal
Unenclosed
25 ranks
961 pipes

Swell
Manual III
Enclosed
32 ranks
1873 pipes

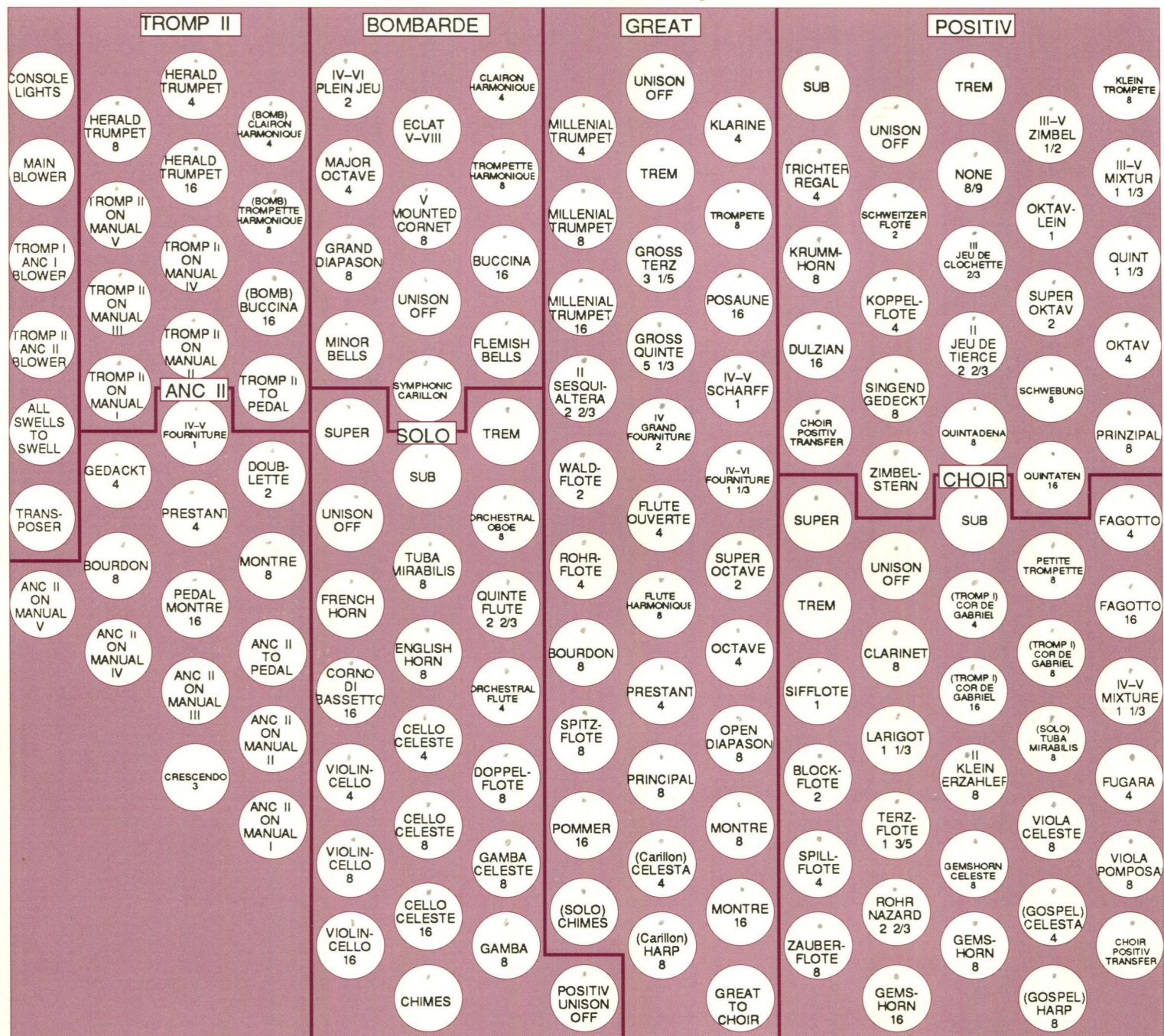
Gospel
Floating
Enclosed
2 ranks
175 pipes

Celestial
Floating
Expressive
(Electronic)
Unenclosed
1 rank
104 pipes

Trompeteria I
Floating
Unenclosed
10 ranks
567 pipes

Ancillary I
Floating
Unenclosed
10 ranks
567 pipes

Console Drawknob Layout, Right Side



Trompeteria II

Floating
Unenclosed
1 rank
104 pipes

Ancillary II

Floating
Unenclosed
10 ranks
548 pipes

Bombarde

Manual V
Enclosed with Solo
24 ranks
1142 pipes

Solo

Manual IV
Enclosed
12 ranks
780 pipes

Great

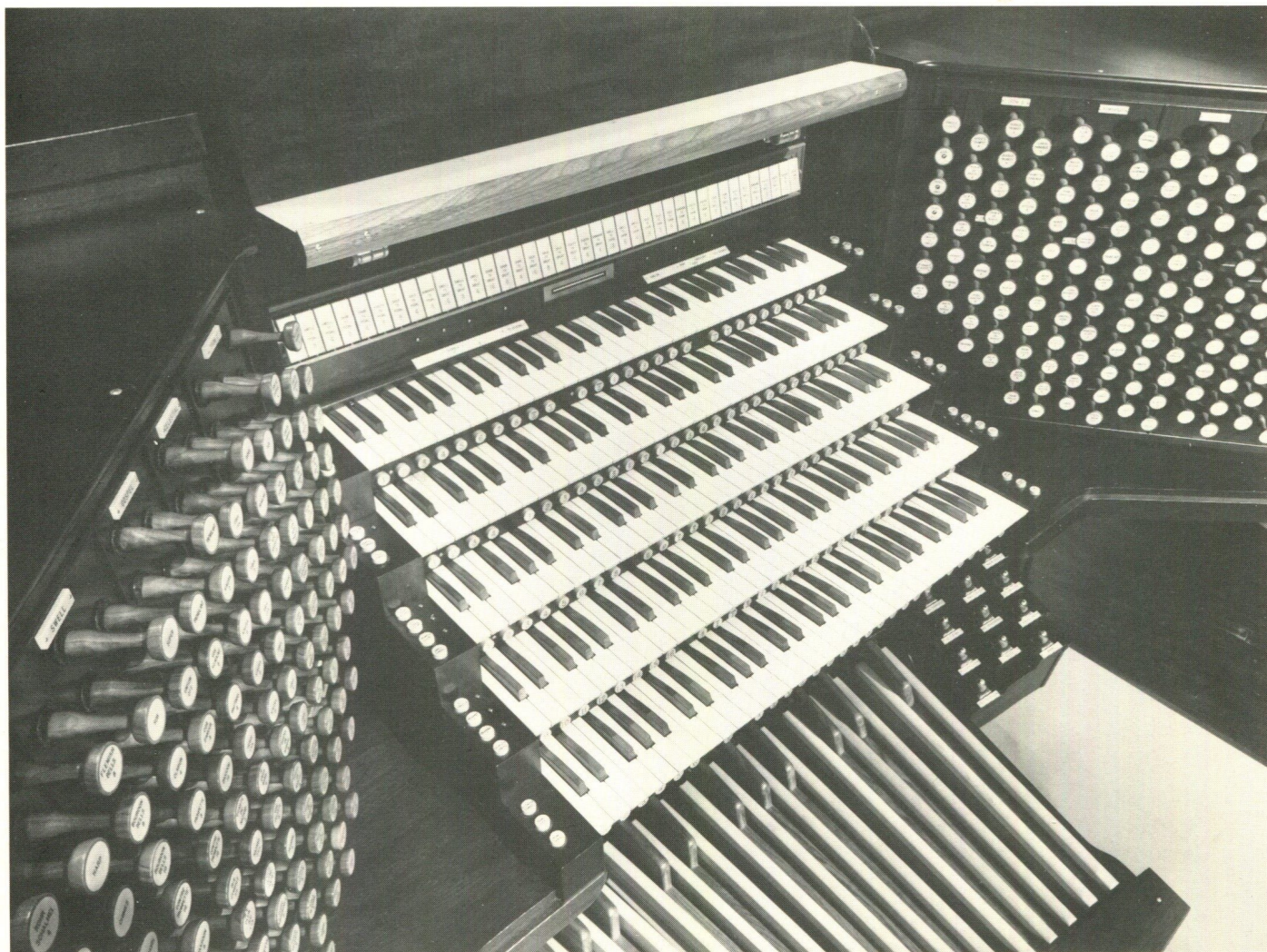
Manual II
Unenclosed
36 ranks
2137 pipes

Positiv

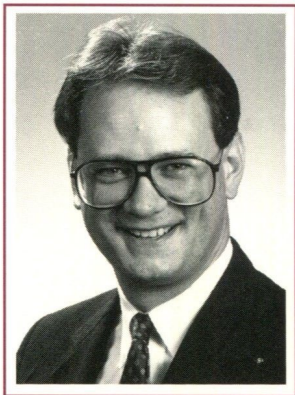
Manual IV
Unenclosed
30 ranks
1750 pipes

Choir

Manual I
Enclosed
22 ranks
1358 pipes



THE GRAND ORGAN CONSOLE



... a word from
Dan Miller,
Organist and Associate Minister of Music
of Calvary Church ...

Calvary's new pipe organ is just one of the magnificent features that attracts worldwide attention to the witness and testimony of Calvary Church. The mission of this organ is to aid in providing a true worship experience of our risen Lord and help proclaim the message of salvation to all who see, hear, and play it – that the commandment of scripture will be fulfilled: "Praise Him ... with the organ."

Carefully planned and designed for our congregation, the new 205 rank organ has 11,499 pipes ranging in size from 40 feet tall to hundreds of tiny pipes smaller than soda straws. Why is the organ so large? First of all, because of the spacious 6000-seat sanctuary with 2.5 million cubic feet of airspace and excellent acoustics of a reverberation time just under 3 seconds. Secondly, to fulfill the organ's multiple ministries: to support strong congregational singing; to sensitively accompany choir and vocalists; to provide a spiritual environment for worship, prayer, communion, commitment; to meet the varied demands of Calvary's diverse musical styles and literature – from 5th century hymns to Bach and Beethoven to southern gospel to contemporary Christian music; to provide festive music to celebrate weddings and other occasions. By meeting all these needs, the organ automatically becomes a grand concert instrument that can play virtually any composition ever written for the organ.

To command all the resources of this instrument requires the massive console – five keyboards and pedalboard, 306 drawknobs, and around 200 other controls. To the layman, the magnitude of the organ console may resemble the cockpit of an airplane or space shuttle with the array of stops, buttons, dials, lights, foot pedals, knobs, and switches. However, to the organist, each device has a specific function to control the thousands of pipes. This handcrafted Honduras mahogany console is the largest American-made drawknob console.

The new pipe organ at Calvary Church is already internationally reknown as truly one of "the" organs of the century. Built in 1986–1990 by the Moller Organ Company of Hagerstown, Maryland, the Calvary Grand Organ is the 13th largest playable pipe organ in the world, and is valued at 2.5 million dollars.

This achievement in sound reflects our rich church music heritage, and is a monument of excellence and praise to God: "Let everything...that hath breath, praise the Lord!"

Other Information about the CALVARY GRAND ORGAN

- 11, 499 total pipes: 671 pipes in Ancillary I / Trompeteria I (on the window post to the left of the main organ case), 652 pipes in Ancillary II / Trompeteria II (on the window post to the right of the main organ case); 10,176 pipes in the main organ case.
- Pipe materials: Facade (display) pipes: polished zinc; en chamade (horizontal) trumpets are polished bronze. All facade pipes are functional. Pipes behind the facade are made of tin, lead, and other metals, as well as a variety of wood families.
- Main organ facade pipes: 32' Contre Principal (the tall, wider pipes in the center of the two outer towers and in the corbels [the two "three-dimensional" towers]); 32' Contra Violone (the tall, thinner pipes in the central tower and thinner pipes in each of the outer towers); 16' Montre (lower central tower above the baptistry doors); 8' Open Diapason (upper central tower); V Mounted Cornet (central tower, in front of Open Diapason); Pedal 8' Octave ("smaller" pipes in the 3 lower left side areas); Pedal 8' Hohl Flute ("smaller" pipes in the 3 lower right side areas). Ancillary I (left) facade pipes: 16' Pedal Principal. Ancillary II (right) facade pipes: 16' Pedal Montre.
- Zimbelstern (bronze rotating star) rotates and rings 7 bells when activated.
- Placement of main organ divisions: Lowest level (behind choir loft, on both sides of the baptistry area): Pedal. Second level: left—Swell, center—Great, right—Swell. Third level: left—Gospel, center—Positiv, right—Choir. Fourth level: Solo and Bombarde (center).
- 205 total ranks: Principals 28r, Reeds 34r, Flutes 44r, Strings 22r (including celestes), Mixtures 88r (43% of total), En Chamades 5r. (There are 14 tremulants.)
- The blowing plant consists of 9 German-made electric blowers with an efficient total use of only 29 horsepower. Seven of the nine blowers are housed two floors below the sanctuary, weighing 6,000 pounds. The Ancillary I and II blowers are located in the fourth level of the main organ. The wind pressures required for this organ range from 7 to 18 inches.
- Dimensions of the main organ: equivalent to a six-story building high, 60 feet wide, 15 feet deep. Total weight of entire organ (excluding steel framework, concrete and casework): 173,000 pounds; transported to the church from Moller Organ Company (Hagerstown, MD) in 18 semi-trailers. Installation time: 9 months.
- Mahogany main organ casework designed by Moller Organ Company, manufactured by Zepso Woodworking Inc., Charlotte.
- The Celestial division of 7 electronic voices is manufactured by Peterson, with the speakers located in the sanctuary ceiling, above the cross. Two electronic 32' pedal extensions (Flute Ouverte 32' and Contre Bourdon 32') are manufactured by ICMI, with the speakers located in the Positiv division.
- The Tubular Chimes (Solo division) are manufactured by Mayland. The Harp (Gospel division), manufactured and reconditioned by Moller, was originally intended for the former Calvary Church pipe organ, but Dan Miller discovered it tucked away in the back of a storage closet of the former church! The harp was then crated and shipped to Moller before the former Calvary facility was sold, to be reconditioned and included in the new organ's Gospel division.
- Console preparations are made for a future addition of a Maas-Rowe 246 bell Grand Symphonic Carillon including 61 Minor English Bells, 49 Major English Bells, 49 Flemish Bells, 26 Bourdon Bells, 61 Harp/Celeste Bells.
- Honduras mahogany console with moveable platform (weight of console and platform: 1 ton); electrically adjustable bench with removable backrest.
- 306 walnut drawknobs with white maple faces; 39 white maple tilting tab couplers; 137 white maple thumb pistons; 53 brass toe studs, 8 brass toe levers; 3 expression pedals (Choir—Swell—Solo/Bombarde) and one crescendo pedal.
- 5 manuals (61 keys each) with bone naturals and walnut sharps; Pedal (32 keys) with maple naturals and walnut sharps. Manual disposition: I — Choir; II — Great; III — Swell; IV — Solo and Positiv; V — Bombarde. Floating divisions that can be assigned to any manual or pedal: Celestial, Gospel, Ancillary I, Trompeteria I, Ancillary II, Trompeteria II.
- Solid State Logic multiplex system scans all console functions (stops drawn, key attack or release, etc.) 250 times per second, sending a signal through a quarter-inch co-ax cable (the size of a typical VCR cable) to the pipes. There are four locations in the chancel floor for console connections (power and Multiplex).
- Solid State Logic combination action, with 24 memory levels and 3 settable crescendos. Tuttis and silencers are settable on every memory level. Concealed key locks for memory levels and power.
- Adjustable combinations: Full Organ 1 — 20 (thumb pistons and toe studs); Great 0 — 12; Positiv 0 — 10, Swell 0 — 12; Choir 0 — 10; Solo 0 — 10; Bombarde 0 — 6; Pedal 0 — 12 toe studs (Nos. 1—6 duplicated by manual pistons); Trompeteria I and Ancillary I 0 — 8; Trompeteria II and Ancillary II 0 — 8; Gospel 0 — 4; Celestial 0 — 4; Couplers O,A,B,C,D,E,F; all 0 = jamb pistons. General Cancel (piston and toe stud). Combination adjuster located underneath choir manual. The console incorporates the usual inter- and intra-manual couplers, silencers, reversibles and other controls commensurate with an organ of this size.