

PIPE SCALE SHEET

ORGAN NO. 8143

DATE December 27, 1949

STATE TEACHERS COLLEGE,

KUTSTOWN,

PENNSYLVANIA

CUSTOMER

CITY

STATE

STOP	PITCH	PIPES	SCALE	MOUTH	REMARKS	W.P.
<u>GREAT ORGAN</u>						
Quintaton	16'	61	44	1/4	Flat Lip 24 Zinc S.M.	4"
Diapason	8'	61	45	2/9-1/4 #25	17-1/2 12 Zinc S.M.	4"
Hohlflyte	8'	61	Reg. Hohlflyte	Open Mel. Pass		4"
Gemshorn	8'	61	50-1/3	1/4	12 Zinc S.M.	4"
Octave	4'	61	58	1/4	18-19-1/2 S.M.	4"
Harmonic Flute	4'	61	58	1/5-1/4	S.M.	4"
Octave Quint (12th)	2-2/3'	61	66	2/9	S.M.	4"
Super Octave (15th)	2'	61	68	1/4	S.M.	4"
Furniture (17-19-22-26-29)	IV-V	292	See Spec. Formula		S.M.	4"

SMALL ORGAN

Contra Dulciana	16'	85	44	2/9	24 Zinc S.M.	5"
Geigen Diapason	8'	73	46	2/9 Slotted	12 Zinc S.M.	5"
Hohrflyte	8'	73	52	2/9 Inverted Chimneys	12 Zinc S.M.	5"
Viole de Gambe	8'	85	54	2/9	12 Zinc S.M.	5"
Viole Celeste t.c.	8'	61	56	2/9	S.M.	5"
Principal	4'	73	58	1/4 Slotted	S.M.	5"
Flute Triangulaire	4'	73	Reg. Tri. Flt.			5"
Fifteenth	2'	61	72	2/9	S.M.	5"
Plain Jeu (22-26-29)	III Rk.	183	3-8-3		S.M.	5"
Contra Cbce	16'	85	4-1/2"	Open	B(3/8) Eschallots	5"
Trumpet	8'	85	3-3/4"		B(F) Eschallots	5"

PITCH A-440

COPIES TO:

COMPLETION December 31, 1950

Moller, Daniels, Rose, Coker,
Hoover, Tolbert, Bailey, Carty (2)
Zajic, File and Contract.

PIPE SCALE SHEET

ORGAN NO. 8143 DATE December 27, 1949
 STATE TEACHERS COLLEGE, TOWNSHIP ELIZABETH, STATE PENNSYLVANIA
 CUSTOMER CITY STATE

STOP	PITCH	PIPES	SCALE	MOUTH	REMARKS	W.P.
<u>CHOIR ORGAN</u>						
Viola	8'	73	50	1/4	12 Zinc S.N.	4"
Machthorn	8'	73	48	1/4 Flat Lip	12 Zinc S.N.	4"
Erzähler	8'	73	52-1/4	1/5	12 Zinc S.N.	4"
Erzähler Celeste t.c. 8'		61	52-1/4	1/5	S.N.	4"
Koppelflöte	4'	73	60	1/4 Truncated Top	S.N.	4"
Kazard	2-2/3'	61	62	1/4 Truncated Top	S.N.	4"
Blockflöte	2'	61	66-2/3	2/9	S.N.	4"
Tierce	1-3/5'	61	70-1/2	1/5	S.N.	4"
<u>SOLO ORGAN</u>						
Orchestral Flute	8'	61	Reg. Clarabella Flt. Open Bass Hard Wood Fronts			10"
Gamba	8'	61	52	2/9	12 Zinc S.N.	10"
Bombarde	8'	61	4"	Harmonic 4' P/B (F) Eschallots		10"
Orchestral Oboe	8'	61	2-1/2"		B (F) Eschallots	10"
Clarinet	8'	61	1-1/2"		B (1/2) Eschallots	10"
<u>PEDAL ORGAN</u>						
Open Diapason	16'	56	CCG 30 CC 40	2/9-1/4 #13	27 Zinc C.N.	4"
Bourdon	16'	56	Large Ped. Bdn.			5"
Bombarde	16'	12	CCG 8" CC 4"		A to B (F) Eschallots	10"

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STATE TEACHERS COLLEGE

ELIZETOWN,

PENNSYLVANIA

CUSTOMER

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STOP	PITCH	PIPES	SCALE	MOUTH	REMARKS	W.P.
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GREAT MIXTURE

FORMULA "A"

17	15	12	8	1
19	17	15	12	8
22	19	17	15	12
26	22	19	17	15
<u>29</u>	<u>26</u>	<u>22</u>	<u>19</u>	
1-15	19-24	25-36	37-48	49-61

Unions	46	Sc @ 8" CC	1/4 Mouth
Quint	48	Sc @ 8" CC	2/9 Mouth
Tierce	49	Sc @ 8" CC	1/5 Mouth

PITCH _____

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CONSTRUCTION DETAILS

OF

M. P. MÖLLER PIPE ORGANS

1. General

The organ shall be the distinctive work of the builder and not in any way an assembled product; in every essential, excepting motor, generator, manual keys, cables, percussions and special castings, the organ shall be built throughout in the factory of M. P. Möller, Incorporated. All voicing and every detail of material and construction throughout shall be guaranteed to be of the highest grade, and the best the world markets afford.

2. Building Frames

The building frames shall be made of sound, clear, lumber of Western white or sugar pine, fir or poplar. These shall be selected from No. 1 and No. 2 clear or "B" or better grades and shall be finished with at least two coats of lacquer or shellac.

All organ frame work shall be sufficiently strong to sustain the weight of the various parts that rest upon it with an additional safety margin of at least fifty per cent.

3. Wind Trunks

Wind trunks shall be made of wood, galvanized iron, or zinc and of sufficient size to supply a copious amount of wind to the various chests. Flexible or telescopic joints shall be provided where there is a possibility of wind chests transferring their weight to trunks in the event of shrinking or settling of floors. Wood trunks shall be fitted with framed hardwood collars padded with felt and leather, and firmly screwed in place, air tight. Metal conductors shall be fitted with heavy metal and felt collars, and firmly screwed in place, air tight. All metal conductors shall be painted steel grey or a color harmonizing with the wood work of the organ.

4. Air Reservoirs

Separate air reservoirs with automatic regulating valves shall be provided for each wind chest. They shall be made of the best lumber finished with at least two coats of lacquer or shellac. They shall be leathured at the hinges and gussets with the best grade of alum-tanned sheep skin; the hinges shall be reinforced with strong woven fabric.

Concussion reservoirs with Tremolo cut out action shall be installed in each division to assure a steady supply of wind under all conditions.

5. Tremolos

Tremolos shall be of the pneumatic valve or beater type with separate adjustments for speed and force of beat. They shall be effectively muffled and so located as to reduce the noise level to a minimum.

16. Leathers

All Leathers used throughout the organ actions shall be of the best grade English brown bark-tanned lamb skin or alum-tanned white sheep skin of the proper thickness for its various uses, and shall be glued to the action parts with the proper type hot glue. No oil, chemical or other treatment shall be used on the leathers except that given by the manufacturer of the leather.

17. Console Standards

The console standards and measurements as adopted by the American Guild of Organists shall apply.

18. Keys

The manual keys shall be of the best grade of Western sugar pine; the naturals shall be surfaced with first quality ivory or plastic and the sharps of black plastic. Pedal keys shall be of hard maple with removable caps; the sharps shall be of plastic or walnut, capped with genuine ebony to a thickness of not less than one-half inch. Manual and pedal keys shall be bushed with first quality woven bushing felt and shall function silently. Regulating and adjustment screws shall be on each key for quick regulation of weight and depth of touch on all keyboards.

19. Stop Controls

The stop controls shall be of the draw knob or tilting tablet type of plastic materials. The draw knob type shall have the stop knobs set in vertical jambs at each side of the manuals. They shall move in a horizontal line and shall be insulated from the stop jamb by a bushing. The intermanual coupler controls shall be of the tilting tablet type and placed above the top manual in the name board. The movement of the knobs and tilting tablets past center in both directions shall be accentuated by a toggle spring or similar device with the stop motion cushioned by heavy felt.

The tilting tablet type stop controls shall be mounted in the name board directly above the top manual or in vertical jambs located at each side of the manuals.

20. Combinations

The combination movements shall visibly operate the stops, couplers and other mechanical movements and shall be adjustable at the console.

21. Balanced Expression and Crescendo Pedals

The balanced pedal assembly shall be a self-contained removable unit securely attached to the console framing. The balanced pedals shall be mounted on a steel shaft by machined bronze "Oilite" life-lubricated bearings with the tension adjustment screw located on the face of the balanced pedals for quick and easy adjustment. They shall operate smoothly and freely.

22. Console, Miscellaneous

All metal fittings in the console shall be treated against corrosion. Lettering of the stops, couplers, pistons, etc., shall be block engraved. The console frame shall be built of solid wood with roll top and exterior finished to match the furnishing of the building.

23. Pipes

Special attention shall be given to the scaling and construction of all pipes so that they may best conform to the size of the organ and the individual purpose.

(A) Metal Pipes

Metal pipes of more than 4' length, whether open or closed, shall be made of rolled annealed zinc with inserted lips of soft metal alloy of tin and lead. All shorter length pipes shall be made of alloys of pure tin and lead in such proportions as may be required to produce the best quality of tone in each stop. Slide tuners shall be fitted on all metal pipes. On all metal pipes 3' in diameter and larger, slide tuners shall also be felt-lined and bolted.

(B) Wood Pipes

The wood pipes shall be made of thoroughly seasoned and carefully selected Western sugar pine, clear spruce, or poplar. Pipes shall be glue sized on the inside and finished on the outside with at least two coats of lacquer or shellac. Cherry or equivalent hardwood caps and throats shall be used. Large wood pipes shall be tongue and grooved, glued with the best grade of hot glue and reinforced with dowels. Metal toe pipe feet shall be used on all wood pipes of 4' length and smaller. Regulating gates shall be used in the feet of all larger wood pipes. All large open wood pipes shall have slide tuners with adequate means of holding them in place and preventing vibration. Cork or equivalent packing combined with leather fitted stoppers shall be used in all stopped wood pipes; the grain of the stoppers shall run the same way as the grain in the pipes.

(C) Reed Pipes

Reed blocks shall be very heavily cast of an alloy of tin and lead to support the eschallot and tuning wire. Eschallots shall be formed in a power die press from heavy brass sheets and shall be brazed. Reed tongues shall be of selected spring brass. Weighted tongues, where used, shall have beveled weights attached by a screw and firmly set. No leather shall be used on eschallots of Reed pipes 8' pitch or higher.

24. Voicing

Full consideration shall be given the size and location of the organ space, and the size and acoustical properties of the building. All pipes shall be prompt in speech and free of imperfections. The final tone regulation of the organ shall be accomplished in the building in which it will be used, by competent, factory trained finishers so that the tonal ensemble may be the best for the particular location and use.

25. Blower and Action Current Generator

A Kinetic all-metal slow-speed organ blower manufactured by M. P. Möller, Incorporated, shall be furnished with the organ. The motor and low-voltage direct current generator shall be direct connected to the blower shaft by flexible couplings. A flexible wind connection shall be installed between blower and wind conductor to eliminate any vibration being transmitted through the wind conductor.

26. Lumber

All lumber used in the construction of the organ shall be thoroughly air seasoned to a moisture content of not more than 12% and kiln-dried to a moisture content of not less than 5%. In kiln-drying the lumber, a daily check of the moisture content shall be made and the drying lumber given a steam bath at intervals to prevent case hardening. All lumber shall be carefully selected for each respective part.