

Pipe Organ No. 10131 Date March 1, 1967 For 7/14/68
 For FORUM AUDITORIUM, EDUCATION BUILDING, HANFORD, PENNSA. 1963
 Action Moller's Electro-Pneumatic Console Detached
 Casing No Case & Grille by M.P.M., Inc. Finish As Per Sample
 Decorations None Motor See Below
 Width of Key-bed Standard Stops and Intra-manual couplers by draw
 No. Manuals FOUR Imported Ivory Keys Stop Controls (LMBL) Intra-manual couplers
 To be Completed September 1, 1968 by tilting tablets, 134 Pos. 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 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817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 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1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 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2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 22

POSITIV ORGAN Unenclosed - Manual I

61-NOTE RELAY WITH 6 COND. C/E'S

30.	8"	B	Holzgedeckt...	Reg. Stopped Flt. Bass & Treble..	Wood.....	61 pipes
31.	4"	A	Prinzipal.....	59.....18-1/2.....	Tin.....	61 pipes
32.	4"	B	Koppelflöte.....	64.....20-1/2.....	Tin.....	61 pipes
33.	2"	A	Octav.....	74.....19-1/2.....	Tin.....	61 pipes
34.	2"	B	Blockflöte.....	66.....20-1/2.....	Tin.....	61 pipes
35.	1-1/3"	B	Klein Nasard.....	75-2/3.....20-1/2.....	Tin.....	61 pipes
36.	1"	B	Siffelöte.....	79.....20-1/2.....	Tin.....	61 pipes
37.	II	A	Terzian T.C.....	Formula "D".....20-1/2.....	Tin.....	98 pipes
38.	III	A	Zimbel.....	Formula "E".....18-1/2.....	Tin.....	183 pipes
39.	8"		Krummhorn.....	UNIT 1".....	1-61	61 pipes
40.			Tremulant	2 c/p SYSTEM	"A" STA. C/O "B" STA. C/O	

SOLO ORGAN

Expressive - Manual IV

61-NOTE RELAY WITH 8 COND. C/E'S

41.	16"		Erzähler...CCG 44 1/2...CC 52 1/2...17 1/2...1-61...24	Zinc S.M...5"W...	73 pipes	12 OFF
42.	8"	A	Viola...50...18-1/2...1-61...12	Zinc S.M...5"W...	61 pipes	696
43.	8"	B	Hohlflöte..Open Mel. Bass, Reg. Hohlflöte Treble, Wood	5"W...	61 pipes	1107 K
44.	8"		Erzähler...from #41...13-73		61 notes	
45.	8"	A	Erzähler Celeste FF...54 1/2 @ 8" CC...17 1/2...7	Zinc S.M...5"W...	56 pipes	
46.	4"	B	Harmonic Flute...58...Reg...	S.M...5"W...	61 pipes	
47.	2"	B	Piccolo...70-3/4...20-1/2...	S.M...5"W...	61 pipes	
48.	8"	A	Cor Anglais. 7/8" M/L "Cabbage Head..Open type...	5"W...	61 pipes	
49.			Tremulant - C/P SYSTEM			
50.	8"		Bombarde...UNIT 66" M/L "C" Har. 2" F# ..1-61		8"W...	61 pipes
			TO CHIA MAGNETS	"A" STA. C/O 1-61 "B" STA. C/O 1-61		

PEDAL ORGAN

SW. 32-NOTE P/R WITH 6 COND. C/E'S

GR. 32-NOTE P/R WITH 20 COND. C/E'S

50-1265
32-NOTE P/R
WITH 6 COND. C/E'S

51.	32"		Grand Cornet.....	Formula "F".....	36 pipes.....**	32 notes		
52.	16"		Contra Bass.....	32.....18-1/2.....	24 Zinc S.M...1-3-7	32 pipes		
53.	16"		Subbass.....	Large Pedal Bdn.....	Wood.....1-3-7-8-8-8	32 pipes		
54.	16"		Violone.....	from #1.....	1-3-7-8-8-8	32 notes		
55.	16"		Lieblick.....	from #13.....	1-3-7-8-8-8	32 notes		
56.	16"		Erzähler.....	from #41.....	1-3-7-8-8-8	32 notes	1-3-2	
57.	8"		Octav.....	46.....18-1/2.....	12 Zinc S.M...1-3-7-8-8-8	32 pipes		
58.	8"		Fommer.....	50.....20-1/2.....	12 Zinc S.M...1-3-7-8-8-8	32 pipes		
59.	8"		Erzähler.....	from #41.....	1-3-7-8-8-8	32 notes	13-4-9	
60.	4"		Choral Bass.....	57.....18-1/2.....	S.M...1-3-7-8-8-8	32 pipes		
61.	4"		Nachthorn.....	54.....19-1/2.....	S.M...1-3-7-8-8-8	44 pipes		
62.	2"		Nachthorn.....	from #61.....	13-4-9-8-8-8	32 notes		
63.	IV		Mixtur.....	Formula "G".....18-1/2.....	Tin...1-3-7-8-8-8	128 pipes		
64.	III		Harmonics.....	Formula "H".....18-1/2...5	Zinc Tin...1-3-7-8-8-8	96 pipes		
65.	32"		Contra Fagotto...CCCC 6", CCCC 4".....	15-2" M/L 20 from #25.....	5" W.....	32 notes		
66.	16"		Posaune.....	CCC 8"....CC 4".....	5" W...1-3-7-8-8-8	56 pipes		
67.	16"		Fagotto.....	from #25.....	13-4-9	32 notes		
68.	8"		Posaune.....	from #66.....	13-4-9	32 notes		
69.	4"		Posaune.....	from #66.....	25-56	32 notes		
70.	4"		Krummhorn.....	from #39.....		32 notes	1-3-2	

#1 PITCH 13-4-9 M/L

* 102/3 11-3-2 **

* 54/3 13-4-9 ***

* 67/5 11-3-2 **

* 34/5 11-3-2 ***

* 49/7 11-3-2 **

* 24/7 11-3-2 **

* 12-14-16-18-20

(**) 82 GRAND CHOIR ONLY

102/3 11-3-2 **

COUPLERS

71. Great to Pedal 8'
72. Swell to Pedal 8'
73. Swell to Pedal 4'
74. Positiv to Pedal 8'
75. Solo to Pedal 8'
76. Solo to Pedal 4'
77. Swell to Great 16'
78. Swell to Great 8'
79. Swell to Great 4'
80. Positiv to Great 8'
81. Solo to Great 16'
82. Solo to Great 8'
83. Solo to Great 4'
84. Great to Positiv 8'
85. Swell to Positiv 16'
86. Swell to Positiv 8'
87. Swell to Positiv 4'
88. Solo to Positiv 16'
89. Solo to Positiv 8'
90. Solo to Positiv 4'
91. Solo to Swell 16'
92. Solo to Swell 8'
93. Solo to Swell 4'
94. Great Unison Off
95. Swell 16'
96. Swell Unison Off
97. Swell 4'
98. Solo 16'
99. Solo Unison Off
100. Solo 4'
101. Positiv Unison Off

ADJUSTABLE COMBINATIONS

Remote Control Mechanism, Capture System

- | | |
|-----------------------------|--|
| Pistons No. 1-2-3-4-5-6 | Affecting Great |
| Pistons No. 1-2-3-4-5-6 | Affecting Swell |
| Pistons No. 1-2-3-4-5-6 | Affecting Positiv |
| Pistons No. 1-2-3-4 | Affecting Solo |
| Pistons No. 1-2-3-4-5-6 | Affecting Pedal (duplicated by toe studs) |
| Pistons No. 1-2-3-4-5-6-7-8 | Affecting Full Organ (duplicated by toe studs) |
| General Cancel | |
| Combination Adjustor Piston | |
| Combination Lock | |

PEDAL MOVEMENTS

Great to Pedal Reversible (duplicated by manual piston)
Swell to Pedal Reversible (duplicated by manual piston)
Positiv to Pedal Reversible (duplicated by manual piston)
Solo to Pedal Reversible (duplicated by manual piston)
Tutti Reversible (duplicated by manual piston)
Balanced Expression Pedal - Swell Organ - 32 CONTACTS
Balanced Expression Pedal - Solo Organ - 20 CONTACTS
Balanced Crescendo Pedal

ACCESSORIES

Concave radiating pedal clavier
Organ bench with music shelf
Back rest for organ bench
Crescendo indicator light
Tutti indicator light
Light for music rack
Light for pedal board
Adjustable bench
Motor, blower and action power unit of ample capacity
Clear plastic music rack
Momentary contact starter switches
Divisional Cancel Tabs

All casework and/or grille, as necessary to enclose expressive divisions and mechanisms of exposed divisions, is included in this agreement. Said cabinetry to be designed and finished of walnut to match existing woodwork.

Blowers:	Swell Organ	)	
	Pedal Contra Fagotto	)	2 H.P., Style 3-P-3025
	Great Organ	)	
	Pedal Organ	)	
	Console	)	5 H.P., Style 3-P-3328
	Solo Organ	)	
	Positiv Organ	)	
	Pedal Posaune	)	
	Remote	)	3 H.P., Style 3-P-3027

JHH/mr
3/12/68 Rev'd 7/16/68
Salesman: Herb Ridgely

The following special conditions listed under "Details of Construction" attached to contract are to be incorporated in construction of organ:

1. Manual Keys
The manual sharps shall be of real ebony wood.
2. Key Contacts, stop and coupler contacts
The key resistance shall not change regardless of how many stops or couplers may be in use.
3. Sills and Frames
The sills, ground-frame and general building frame shall be of sound, clear Fir, California white, sugar, or Idaho Pine.
4. Organ Wind Reservoirs
Pedal pipes shall not be winded from a manual reservoir when the register plays only from the pedal clavier.
5. Chests
The chests of the foundation stops of the Great and Positiv Organs are to be built with expansion chambers.
6. Electrical Contacts
The parts of the organ involving the use of electrical currents, contacts, etc., as found in the console, relays, chests, cables, etc., shall be so designed that there will be no interference with any public address or recording system, radio or television broadcasting equipment as may be used at the Auditorium.
7. Blowers
The builder will supply such blower reservoirs as are required to maintain proper static pressure and assist in the elimination of noise.
8. Pipes, Construction and Materials
 - a. Wherever the term "spotted metal" shall be used it shall refer to an alloy of 45% block tin and 55% refined lead. No alloy will be permitted in which there is less than 45% block tin.
 - b. All pipes of the Mixtures throughout the organ and all pipes of the Positiv organ shall be made of metal composed of 75% block tin and 25% refined lead.
 - c. All other pipes of metal from 4'C and up are to be built entirely of spotted metal or tin.
 - d. Full length metal pipes from GG to BB shall have spotted metal feet and stub bodies with zinc extensions fitted with tuning sleeves.
 - e. Full length metal pipes larger than GG to be made of zinc and fitted with tuning sleeves.
 - f. All tin and spotted metal pipes shall have charcoal tin tuning slides. All metal pipes 3" diameter and larger shall have felt lined and bolted tuning sleeves.
 - g. All reed pipes 8'C and up shall be of rolled zinc and spotted metal with at least 1/3 of the resonator length being spotted metal.
 - h. Short length reed pipes eight foot (8') shall be reeds carried through at least to top G; 4' reeds to same pitch, i.e. one octave below their top G.

PIPE SCALE SHEET

ORGAN NO. 10431

DATE March 1, 1967 Rev'd 7/16/68

FORUM AUDITORIUM, EDUCATION BUILDING

HARRISBURG

PENNSYLVANIA

Customer

City

State

Sheet 1

STOP	PITCH	PIPES	SCALE	HALVING	MOUTH	REMARKS	W.P.
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NOTE: SEE SHEET 5 OF SPECIFICATIONS FOR PIPES, CONSTRUCTION AND MATERIALS.

GREAT ORGAN Unenclosed and Exposed - Manual II

Violone	16'	61	38	18	2/9	Dead lgth 24 Zinc S.M.	3-3/4"
Principal	8'	61 #1 47 18) #39 88 19)			2/9-1/4	12 Zinc S.M.	3-3/4"
Rohrflöte	8'	61	54	21	2/9	Lg. O.S. Chimneys 12 Zinc S.M.	3-3/4"
Octav	.4'	61 #1 58 18) #26 88 19)			1/4	S.M.	3-3/4"
Spitzflöte	4'	61	58-2/3	19	2/9	S.M.	3-3/4"
Octav Quint	2-2/3'	61	72	20	2/9	S.M.	3-3/4"
Super Octav	2'	61	76	20	1/4	S.M.	3-3/4"
Mixtur	IV-V	269	Formula "A"	18		Tin	3-3/4"
Scharf	III	183	Formula "B"	18		Tin	3-3/4"
Trompete	8'	73	3-1/2"	30-1/2	49 reeds Double Trebles 1-24 AA(1/8) Eschallots #25 up AA(F) Eschallots		3-3/4"

SWELL ORGAN Expressive - Manual III

Lieblickbordon	16'	73	L.M.B. #1-#24, R.M.B. #25 and up			Wood	4-1/2"
Geigen	8'	61	47	18	2/9-1/4	12 Zinc S.M.	4-1/2"
Salicional	8'	61	52	18	2/9	12 Zinc S.M.	4-1/2"
Voix Celeste FF	8'	56	54	18	1/5	7 Zinc S.M.	4-1/2"
Flute Celeste II	8'	110	Unison 46-2/3 Celeste T.C. 48-2/3	18 1/2 18 1/2	1/5 1/6	12 Zinc S.M.) S.M.)	4-1/2"
Prestant	4'	61	58	18	1/4	S.M.	4-1/2"
Waldflöte	4'	61	53-2/3	19	2/9	S.M.	4-1/2"

PITCH A-440

COMPLETION September 1, 1968

COPIES TO

Daniels, Hose(2), Ocker, P.M. Daniels,
Kreglo, Nalles, Olsen(3), Zajic, Reed,
Nye, Engineering Dept, Contract, File (2)

PIPE SCALE SHEET

ORGAN NO. 10431

DATE March 1, 1967

FORUM AUDITORIUM, EDUCATION BUILDING, HARRISBURG PENNSYLVANIA

Customer

City

State

Sheet 2

STOP	PITCH	PIPS	SCALE	HALVING	MOUTH	REMARKS	W.P.
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SWELL ORGAN Expressive - Manual III (continued)

Nasard	2-2/3"	61	65-2/3	20	2/9	S.M.	4-1/2"
Gemshorn	2"	61	68-3/4	19	1/4	S.M.	4-1/2"
Terz	1-3/5"	61	75-1/2	20	1/5	S.M.	4-1/2"
Plein Jeu	IV	244	Formula "C"	18		Tin	4-1/2"
Fagotto	16"	73	4" Reg. Open Oboe (103L7)			C(F) Eschallots	4-1/2"
Trompette	8"	61	3" Reg.			C(F) Eschallots	4-1/2"
Clairon	4"	61	2-1/4 Reg.			D(F) Eschallots	4-1/2"

POSITIV ORGAN Unenclosed - Manual I

Holzgedeckt	8"	61	Reg. Stopped Flute Bass & Treble			Wood	3-1/4"
Prinzipal	4"	61	59	18	1/4	Tin	3-1/4"
Koppelflöte	4"	61	64	20	1/4	Tin	3-1/4"
Octav	2"	61	74	19	1/4	Tin	3-1/4"
Blockflöte	2"	61	66	20	2/9	Tin	3-1/4"
Klein Nasard	1-1/3"	61	75-2/3	20	2/9	Tin	3-1/4"
Siffelöte	1"	61	79	20	2/9	Tin	3-1/4"
Terzian T.C.	II	98	Formula "D"	20		Tin	3-1/4"
Zimbel	III	183	Formula "E"	18		Tin	3-1/4"
Krummhorn	8"	61	1" Tin Tubes & Trebles			C(F) Eschallots	3-1/4"

PITCH.....

COPIES TO:

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PIPE SCALE SHEET

ORGAN NO. 10431

DATE March 1, 1967

FORUM AUDITORIUM, EDUCATION BUILDING

HARRISBURG

PENNSYLVANIA

Customer

City

State

Sheet 3

STOP PITCH PIPES SCALE HALVING MOUTH REMARKS W.P.

SOLO ORGAN Expressive - Manual IV

Erzahler	16"	73	CCG 44-1/4) CC 52-1/4)	17	1/5	24 Zinc S.M.	5"
Viola	8"	61	50	18	1/4	12 Zinc S.M.	5"
Hohlflöte	8"	61	Open Mel. Bass, Reg. Hohlflöte Treble			Wood	5"
Erzahler Celeste FF	8"	56	54-1/4 @ 8" CC	17	1/5	7 Zinc S.M.	5"
Harmonic Flute	4"	61	58 Reg.		1/5-1/4	S.M.	5"
Piccolo	2"	61	70-3/4	20	2/9	S.M.	5"
Cor Anglais	8"	61	4" Cabbage Head Open Type Spec. G(F) Eschallots				5"
Bombarde	8"	61	4" Har. 2" F#		B(F) Eschallots		8"

PEDAL ORGAN

Grand Cornet	32"	36	Formula "F"			22 Zinc Tin	3-3/4"
Contra Bass	16"	32	32	18	2/9-1/4 dead lgh	24 Zinc S.M.	3-3/4"
Subbass	16"	32	Large Pedal Bdn.			Wood	3-3/4"
Octav	8"	32	46	18	2/9-1/4	12 Zinc S.M.	3-3/4"
Pommer	8"	32	50	20	2/9	12 Zinc S.M.	3-3/4"
Choral Bass	4"	32	57	18	1/4	S.M.	3-3/4"
Nachthorn	4"	44	54	19	1/6	S.M.	3-3/4"
Mixtur	IV	123	Formula "G"	18		Tin	3-3/4"
Harmonics	III	96	Formula "H"	18		5 Zinc Tin	3-3/4"
Contra Fagotto	32"	12	CCCC 6", CC4"	Tpt. Patt. B-C(F)		Eschallots	5"
Posaune	16"	56	CCC 8", CC 4"		B(F)	Eschallots	5"

PITCH.....

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SPECIAL MIXTURE FORMULAS

GREAT ORGAN

IV-V Mixture Formula "A"

19	15	12	8	8	8
22	19	15	12	12	12
26	22	19	15	15	12
29	26	22	19	15	15
			22	19	15
1-12	13-24	25-36	37-42	43-48	49-61
Unison	47	@ 8' CC	18-1/2	2/9 month	Tin
Quint	48	@ 8' CC	18-1/2	1/4 month	Tin

III Bks. Scharf Formula "B"

29	26	22	19	15	12	8
33	29	26	22	19	15	12
36	33	29	26	22	19	15
1-12	13-24	25-37	38-42	43-48	49-54	55-61
Unison	48	@ 8' CC	18-1/2	2/9 month	Tin	
Quint	49	@ 8' CC	18-1/2	1/4 month	Tin	

SMALL ORGAN

IV Bks. Plain Jeu Formula "C"

22	19	15	12	8	8
26	22	19	15	12	12
29	26	22	19	15	15
33	29	26	22	19	15
1-10	11-20	21-42	43-48	49-54	55-61
Unison	46	@ 8' CC	18-1/2	1/4 month	Tin
Quint	49	@ 8' CC	18-1/2	1/4 month	Tin

POSITIVE ORGAN

III Bks. Terzian Y.C. Formula "D"

	17	12		
	19	15		
	13-50	51-61		
12	67-2/3	20-1/2	2/9 month	Tin
15	71	20-1/2	2/9 month	Tin
17	76-1/2	20-1/2	1/5 month	Tin
19	79-2/3	20-1/2	2/9 month	Tin

POSITIV ORGAN
III Rks. Zimbel Formula "E"

33	29	26	22	19	15	12	8
36	33	29	26	22	19	15	12
40	36	33	29	26	22	19	15
1-8	9-16	17-24	25-32	33-40	41-48	49-56	55-61
Unison	48	@ 8" CC	18-1/2	1/4 mouth	Tin		
Quint	50	@ 8" CC	18-1/2	1/4 mouth	Tin		

PEDAL ORGAN
32" Grand Cornet Formula "F"

10-2/3" Quint	12 pipes	42-3/4	18-1/2	2/9 mouth	12 Zinc
6-2/5" Sub Tierce	12 pipes	53-2/3	18-1/2	1/5 mouth	8 Zinc Tin
4-4/7" Sub Septieme	12 pipes	59-1/2	18-1/2	1/5 mouth	2 Zinc Tin
16" Subbass	32 notes				
10-2/3" Quint	32 notes, 12 pipe extension, 5-1/3 Harmonic				
8" Pommer	32 notes				
6-2/5" Sub Tierce	32 notes, 12 pipe extension 3-1/5" Tierce				
5-1/3" Quint	32 notes (Harmonics)				
4-4/7" Sub Septieme	32 notes, 12 pipe extension 2-2/7" Septieme				
4" Choralbass	32 notes				
3-1/5" Tierce	32 notes (Harmonics)				
2" Nachthorn	32 notes				

IV Rk. Mixtur Formula "G"

2-2/3"	32 pipes	66	18-1/2	2/9 mouth	Tin
2"	32 pipes	70	18-1/2	1/4 mouth	Tin
1-1/3"	32 pipes	79	18-1/2	2/9 mouth	Tin
1"	32 pipes	83	18-1/2	1/4 mouth	Tin

PEDAL ORGAN
III Rks. Harmonics Formula "H"

5-1/3"	32 pipes	54-3/4	18-1/2	2/9 mouth	5 Zinc Tin
3-1/5"	32 pipes	65-2/3	18-1/2	1/5 mouth	Tin
2-2/7"	32 pipes	71-1/2	18-1/2	1/5 mouth	Tin

POSITIVE ORGAN
III Rks. Wiedel Formula "E"

33	29	26	22	19	15	12	8
36	33	29	26	22	19	15	12
40	36	33	29	26	22	19	15
1-0	9-16	17-26	25-32	33-40	41-50	49-54	55-61

Unison	46	@ 8" CC	18-1/2	1/4 mouth	Tin
Quint	50	@ 8" CC	18-1/2	1/4 mouth	Tin

PEDAL ORGAN
32" Grand Cornet Formula "P"

10-2/3" Quint	32 pipes	42-3/4	18-1/2	2/9 mouth	12 Zinc
6-2/5" Sub Tierce	32 pipes	55-2/3	18-1/2	1/5 mouth	8 Zinc Tin
4-4/7" Sub Septieme	32 pipes	59-1/2	18-1/2	1/5 mouth	2 Zinc Tin

16" Subbass	32 notes				
10-2/3" Quint	32 notes, 12 pipe extension.	5-1/3	Harmonic		
8" Posmer	32 notes				
6-2/5" Sub Tierce	32 notes, 12 pipe extension	3-1/5	Tierce		
5-1/3" Quint	32 notes	(Harmonics)			
4-4/7" Sub Septieme	32 notes, 12 pipe extension	2-2/7	Septieme		
4" Contrabass	32 notes				
3-1/5" Tierce	32 notes	(Harmonics)			
2" Nachthorn	32 notes				

IV Rks. Mixeur Formula "G"

2-2/3"	32 pipes	66	18-1/2	2/9 mouth	Tin
2"	32 pipes	70	18-1/2	1/4 mouth	Tin
1-1/3"	32 pipes	79	18 1/2	2/9 mouth	Tin
1"	32 pipes	83	18-1/2	1/4 mouth	Tin

PEDAL ORGAN
III Rks. Harmonics Formula "H"

5-1/3"	32 pipes	54-3/4	18-1/2	1/9 mouth	5 Zinc Tin
3-1/5"	32 pipes	65 2/3	18-1/2	1/5 mouth	Tin
2-2/7"	32 pipes	71-1/2	18-1/2	1/5 mouth	Tin