

# PIPE SCALE DETAILS

N.P. MANDER LTD.

JOB: St Agnes New York

FINAL

DEPARTMENT: Great Organ

DATE: 14th April 1997

INITIALS: jp

PRESSURE: 80mm PITCH: A = 440 at 20°C

TUNING: cone & slot

TEMPERAMENT: Vallotti

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C1	C13	C25	C37	C49	C61	Remarks
1	Bourdon	16	61	QP			150x 120	95x 75.5	60x 47.5	37.5x 30	24x 19	15x 12	Stopped Wood scale No. 32
2	Open Diapason	8	61	???	small 1-36	4	146	85	51	31	19	11	Part fronts
3	Stopped Diapason	8	61	QP			107x85	67x 53.5	42.5x 33.5	26.5x 21	17x 13.5	10.5x 8.5	Stpd Wood No. 41
4	Gamba	8	61	56%	1-48	4	95	59/39	37.5/25	24/16	16/11	10/7	1-5 parallel, tapered $\frac{2}{3}$ by c. keen bearded
5	Principal	4	61	56%	1-24	4	89	52	32	20	11.5	7	
6	Chimney Flute	4	61	35%	1-30	4	69	45	29	19	12	8	1-48 internal chimn. l=1.5Ø, 49-61 upperØ= $\frac{2}{3}$ Ø
7	Fifteenth	2	61	56%	1-12	4	50	30.5	18.5	11.5	7	4.5	
8	Cornet III 20-56: $2\frac{2}{3}$ . $2.1\frac{3}{5}$	$2\frac{2}{3}$	111	35%	none	4.5	(1' 35)	$\frac{1}{2}$ ' 22	$\frac{1}{4}$ ' 13	$\frac{1}{8}$ ' 8	( $\frac{1}{16}$ ' 5)		(mounted)
9	Furniture IV 1-6: $1\frac{1}{3}$ . $1.\frac{2}{3}$ . $\frac{1}{2}$ 7-18: $2.1\frac{1}{3}$ . $1.\frac{2}{3}$ 19-30: $2\frac{2}{3}$ . $2.1\frac{1}{3}$ .1 31-42: $4.2\frac{2}{3}$ . $2.1\frac{1}{3}$ 43-61: $8.4.2\frac{2}{3}$ .2	$1\frac{1}{3}$	244	56%	to 1'	4	(2' 45)	1' 28.5	$\frac{1}{2}$ ' 18	$\frac{1}{4}$ ' 11.5	$\frac{1}{8}$ ' 7	$\frac{1}{16}$ ' 4.5	
10	Trumpet	8	61	56%			120	92	71	54	41	$g^{56}$ 35	57-61 flues as Principal 4'
11	Cromorne	8	61	35%		scale tot.l. cone l	45 1500 180	37.5 780 125	31.5 410 80	26.5 210 60	22 95 42	$g^{56}$ 20 50 37	57-61 flues as Principal 4'

**DEPARTMENT:** Swell Organ

**PRESSURE:** 90mm

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C1	C13	C25	C37	C49	C61	Remarks
12	Salicional	8	61	56%	1-42	4	105	65	42	27	17.5	11	parallel, slotted beards. 6 bs com. 14
13	Celeste T.C.	8	49	56%	13-42	4		58	36	22	13.5	8.5	parallel, slotted beards as req.
14	Gedackt	8	61	35%	1-42	4.5	115	78	53	36	24.5	16.5	1-6 with stays
15	Principal	4	61	56%	1-24	4	87	52	31	19.5	11.5	7	
16	Block Flute	4	61	35%	1-30	4.5	85	57 f <sup>18</sup> =50 f <sup>#</sup> =53/35	42.5/2 8	28.5/1 9	19/12. 5	12.5/8.5	1-18 cannistered 19-61 tapered $\frac{1}{3}$
17	Nazard	2 $\frac{2}{3}$	61	35%		4.5	55	36.5	23	14	9	5.5	
18	Fifteenth	2	61	56%	1-12	4	52	31.5	19.5	12	7	4.5	
19	Tierce	1 $\frac{3}{5}$	61	35%		4.5	37	25	15.5	9.5	6	g=4.5 g <sup>#</sup> =5 c=4.5	from g <sup>#</sup> 2'
20	Mixture III 1-10: 1. $\frac{2}{3}$ . $\frac{1}{2}$ 11-22: 1 $\frac{1}{3}$ .1. $\frac{2}{3}$ 23-38: 2.1 $\frac{1}{3}$ .1 39-52: 2 $\frac{2}{3}$ .2.1 $\frac{1}{3}$ 53-61: 4.2 $\frac{2}{3}$ .2	1	244	56%	none	4	1' 27	$\frac{1}{2}$ ' 17	$\frac{1}{4}$ ' 11	$\frac{1}{8}$ ' 7	$\frac{1}{16}$ ' 4.5		
21	Fagotto	16	61	56%			115	100 f=87 f <sup>#</sup> =92	80	63	46	35	1-18 half length. Shallots Hill style.
22	Trumpet	8	61	56%			110	87	68	51	38	g <sup>56</sup> 30	Hill shallots. 57-61 flues as Principal 4'
23	Oboe	8	61	56%			73 B=52 1-12 plain	66	51	40	33	g <sup>56</sup> 30	Hill Shallots 57-61 flues as Principal 4'

**DEPARTMENT:** Pedal Organ

**PRESSURE: 95 (Could double as static)**

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C1	C13	C25	G32			Remarks
24	Open Diapason Helpers C-D#	16	32	75% & 56%	1-32	4	(250) C=120 #=115 D=110 #=107	150	89	65			E5-c13 on front
25	Bourdon	16	32	QP			198x 163	125x 103	79x65	60x50			Bourdon Scale 1-4 @ No.13 Rest @ No. 15
26	Principal	8	32	56%	1-32	4	150	89	55	41			
27	Flute	8	32	35%	1-32	4	122	82	53	40			1-6 with stays, sturdy feet
28	Octave	4	32	56%	1-24	4	90	54	33	26			
29	Mixture IV 1-32: 2 <sup>2</sup> / <sub>3</sub> , 2.1 <sup>1</sup> / <sub>3</sub> , 1	2 <sup>2</sup> / <sub>3</sub>	128	56%	to 1' not 1 <sup>1</sup> / <sub>3</sub>	4	2 <sup>2</sup> / <sub>3</sub> ' 62	2' 50	1' 30	1 <sup>1</sup> / <sub>2</sub> ' 18	1 <sup>1</sup> / <sub>4</sub> ' 10	g <sup>32</sup> 1' 8	
30	Trombone	16	32	56%			140	112	85	71			(full length)
31	Trumpet	8	32	56%			130	98	76	65			Shallots as Great for Urakami

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