

RT Robertson



Model 1100 - 1100A - 1100B

TUBE CHART



Chart 1100 - 671116

315 Roslyn Road, Mineola, N.Y. 11501

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NOTES

1. \*Tube is good if it reads past the "DIODES OK" Line on meter.
  
2. Do not leave switches X and Z at same setting except at position 12, or SHORTS indicator will glow.
  
3. Tubes with multiple listings have separate sections which must be tested individually.
  
4. #Magnoval base. Do not insert tube fully in socket.
  
5. \*\*Insert tube into socket No. 3 if socket No. 1 does not contain the center connector (10th pin).

Tube Data Division

Mercury Electronics Corp., 1744 Rockaway Avenue, Hewlett, N. Y. 11557





TUBE	X	Y	Z	W	Skt	G-2 Sht	TUBE	X	Y	Z	W	Skt	G-2 Sht
1R4	7	B	4	C	8		2GZ5	1	C	2	A	12	X-6
1R5	4	B	12	B	13	Z-3	2HA5	2	C	1	A	12	
1S2*	11	B	12	B(S)1			2HK5	2	C	1	A	12	
1S4	3	B	12	B	13	Z-4	2HM5	2	C	1	A	12	
1S5	6	B	12	B	13	Z-4	2HQ5	2	C	1	A	12	
1S5*	3	B	12	D	13		2HR8	3	C	9	A	1	X-1
1SA6	4	B	12	B	4	Z-6	2T4	5	C	2	A	12	
1SB6	8	B	12	B	4	Z-4	2V2*	11	C	12	B(S)4		
1SB6*	5	B	12	D	4		2V3*	11	B	12	B(S)4		
1T4	6	B	12	B	13	Z-3	2W3*	4	C	12	A	6	
1T5	5	B	12	B	4	Z-4	3A2*	11	C	12	D	1	
1U4	6	B	12	B	13	Z-3	3A3*	11	C	12	B(S)4		
1U5	6	B	12	B	13	Z-3	3A4	4	C	12	B	13	Z-3
1U5*	4	B	12	D	13		3A5	5	C	12	A	13	
1U6	4	B	12	B	13	Z-3	3A5	3	C	12	A	13	
1V2*	1	B	12	B(S)1			3A8	5	C	13	A	4	
1X2*	11	B	12	B(S)1			3A8	11	C	12	A	4	Z-4
1Z2*	11	B	12	B(S)13			3A8*	8	C	12	C	4	
2A4	5	C	12	B	4		3AF4	5	C	2	A	12	
2AF4	5	C	2	A	12		3AJ8	3	C	2	A	1	X-1
2AS2*	11	C	12	B(S)9			3AJ8	3	C	9	A	1	
2AV2*	1	B	12	B(S)1			3AL5*	5	C	2	A	12	
2AZ2*	11	B	12	B(S)1			3AL5*	1	C	7	A	12	
2B3*	11	C	12	B(S)4			3AT2*	11	C	12	B(S)9		
2BA2	1	B	12	B(S)1			3AU6	7	C	1	A	12	X-6
2BJ2	11	B	12	B(S)1			3AV6	2	C	1	A	12	
2BN4	1	C	2	A	12		3AV6*	2	C	5	C	12	
2CW4	8	C	4	A	10		3AV6*	2	C	6	C	12	
2CY5	2	C	1	A	12	X-6	3AW2*	11	C	12	B(S)9		
2D21	2	E	1	A	12	X-5	3AW3*	11	C	12	B(S)4		
2DF4	8	C	12	B	1	Z-1	3B2*	11	C	12	C(S)4		
2DS4	8	C	4	A	10		3B5	5	C	12	B	4	Z-4
2DV12	7	C	6	A	4		3B7	3	C	12	A	8	
2DZ4	5	C	6	A	12		3B7	6	C	12	A	8	
2E24	5	E	12	A	4	Z-3	3BA6	7	C	1	A	12	X-6
2E26	1	E	5	A	4	X-3	3BC5	7	C	1	A	12	X-6
2EA5	2	C	1	A	12	X-6	3BE6	2	C	1	A	12	X-6
2EG4	8	B	4	A	10		3BH2#*	11	C	12	B(S)11		
2EN5*	5	C	2	A	12		3BL2*	11	C	12	B(S)9		
2EN5*	5	C	7	A	12		3BN2*	11	C	12	B(S)9		
2ER5	1	C	2	A	12	X-6	3BN4	1	C	2	A	12	
2ES5	1	C	2	A	12		3BN6	1	C	5	B(S)12		X-6
2EV5	2	C	1	A	12	X-6	3BU6	2	C	1	A	12	
2EZ4	5	E	12	A	4	Z-3	3BU6*	2	C	5	C	12	
2FH5	1	C	2	A	12	X-6	3BU6*	2	C	6	C	12	
2FQ5	1	C	2	A	12		3BU8	1	C	7	A	1	X-2
2FS5	2	C	1	A	12	X-6	3BX6	1	C	2	A	1	X-8
2FV6	7	C	1	A	12	X-6	3BY6	2	C	1	A	12	X-6
2FY5	1	C	2	A	12		3BY7	3	C	2	A	1	X-8
2GK5	1	C	2	A	12		3BZ6	2	C	1	A	12	X-6
2GU5	2	C	1	A	12	X-6	3C2*	11	C	12	C(S)4		
2GW5	5	C	6	A	12		3C4	6	C	12	A	13	Z-3

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TUBE	X	Y	Z	W	Skt	G-2 Sht
Z63	8	E	11	A	4	X-4
Z77	2	E	1	A	12	X-7
Z152	3	E	2	A	1	X-8
Z179	3	E	2	A	1	X-8
Z719	3	E	2	A	1	X-8
Z729	3	E	9	A	1	X-1
ZD17	6	B	12	D	13	
ZD17*	3	B	12	D	13	
ZD152	3	E	2	A	1	X-1
ZD152	3	E	7	A	1	
ZD152	3	E	8	A	1	



TUBE	X	Y	Z	W	Skt	G-2 Sht	38 TUBE	X	Y	Z	W	Skt	G-2 Sht
UCL82	8	H	1	A	1		X17	4	B	12	B	13	Z-3
UCL82	2	H	3	A	1	X-7	X18	4	B	12	B	13	Z-3
UF21	7	F	6	A	8	X-3	X63	8	E	5	A	4	X-6
UF80	1	G	2	A	1	X-8	X77	2	E	1	A	12	X-6
UF85	1	G	2	A	1	X-8	X79	8	E	9	A	1	
UF89	3	F	2	A	1	X-8	X79	7	E	2	A	1	X-3
UL21	7	H	6	A	8	X-3	X81	7	E	4	A	8	
UL71	7	H	3	A	8	X-4	X81	7	E	6	A	8	X-5
UL84	3	H	2	A	1	X-9	X142	2	F	4	A	8	
UM80	2	G	1	A	1		X142*	7	F	5	C	8	
UQ80	8	F	7	A	1	X-1	X142*	7	F	6	C	8	
UU12*	3	E	1	A	1		X148	7	E	4	A	8	
UU12*	3	E	7	A	1		X148	7	E	6	A	8	X-5
UY21*	7	H	6	A	8		X719	3	E	9	A	1	
UY82*	3	H	9	A	1		X719	3	E	2	A	1	
UY85*	3	H	9	A	1		X727	2	E	1	A	12	X-1
UY89*	3	H	9	A	1		XC95	1	C	2	A	12	X-6
UY92*	7	G	5	A	12		XC900	2	C	1	A	12	
V2M70*	7	E	1	A	12		XCC82	3	E	2	A	1	
V2M70*	7	E	6	A	12		XCC82	8	E	7	A	1	
V741	7	E	6	A	12		XCC189	3	D	2	A	1	
V884	2	E	1	A	12	X-6	XCC189	8	D	7	A	1	
VFT6*	8	E	3	A	4		XCF80	7	D	2	A	1	X-3
VFT6*	8	E	5	A	4		XCF80	8	D	9	A	1	
VT172	6	B	12	B	13	Z-4	XCF801	1	D	2	A	1	
VT172*	3	B	12	D	13		XCF801	1	D	9	A	1	X-7
VT173	6	B	12	B	13	Z-3	XCH81	3	C	2	A	1	X-1
VT174	3	C	12	B	13	Z-4	XCH81	3	C	9	A	1	
VT197A*	4	D	12	B	6		XCL82	8	E	1	A	1	
VT197A*	6	D	12	B	6		XCL82	2	E	3	A	1	X-7
VT201C	8	G	5	A	4	X-4	XF80	1	C	2	A	1	X-8
VT231	3	E	1	A	5		XF85	3	C	2	A	1	X-8
VT231	6	E	4	A	5		XF183	1	C	2	A	1	X-8
VT264	3	C	12	A	13	Z-4	XF184	1	C	2	A	1	X-8
W17	6	B	12	B	13	Z-3	XL36	8	F	5	A	4	X-4
W63	8	E	11	A	4	X-4	XL84	3	E	2	A	1	X-9
W76	8	F	11	A	4	X-4	XL86	3	E	2	A	1	X-9
W77	2	E	1	A	12	X-6	XXB	4	C	12	C	8	
W149	7	E	6	B	8	X-3	XXB	5	C	12	C	8	
W179	3	E	2	A	1	X-8	XXD	2	F	4	A	8	
W719	3	E	2	A	1	X-8	XXD	7	F	5	A	8	
W727	7	E	1	A	12	X-6	XXFM	4	E	3	A	8	
WD119	3	G	2	A	1	X-1	XXFM*	4	E	5	C	8	
WD119*	3	G	7	A	1		XXL	7	E	6	A	8	
WD119*	3	G	8	A	1		XY88*	11	F	9	A	1	
WD709	3	E	2	A	1	X-1	YC95	1	C	2	A	12	X-6
WD709*	3	E	7	A	1		YC98	1	E	2	A	1	
WD709*	3	E	8	A	1		YF183	1	D	2	A	1	X-8
X14	5	B	12	B	4	Z-6	YF184	1	D	2	A	1	X-8
							Z14	11	B	12	B	4	Z-4

TUBE	X	Y	Z	W	Skt	G-2 Sht	3 TUBE	X	Y	Z	W	Skt	G-2 Sht
3C5	5	C	12	B	4	Z-4	3LE4	6	C	12	A	8	Z-3
3C6	4	C	12	A	8		3LF4	6	C	12	A	8	Z-3
3C6	5	C	12	A	8		3Q4	3	C	12	A	13	Z-4
3CA3*	11	C	12	C(S)	4		3Q5	5	C	12	A	4	Z-4
3CB6	2	C	1	A	12	X-6	3S4	3	C	12	B	13	Z-4
3CE5	2	C	1	A	12	X-6	3SF	3	C	12	B	13	Z-4
3CF6	2	C	1	A	12	X-6	3V4	6	C	12	A	13	Z-3
3CN3*	11	C	12	B(S)	4		3W4	3	C	12	A	13	Z-4
3CS6	2	C	1	A	12	X-6	4A6	4	D	12	B	4	
3CY5	2	C	1	A	12	X-6	4A6	5	D	12	B	4	
3D6	6	B	12	A	8	X-3	4AB8	3	D	2	A	1	
3D21	8	F	6	A	4	X-4	4AB8	3	D	9	A	1	X-8
3DG4*	5	C	12	A	7		4AU6	7	D	1	A	12	X-6
3DG4*	7	C	12	A	7		4AV6	2	D	1	A	12	
3DK6	2	C	1	A	12	X-6	4AV6*	2	D	5	C	12	
3DT6	2	C	1	A	12	X-6	4AV6*	2	D	6	C	12	
3DZ4	5	C	6	A	12		4BA6	7	D	1	A	12	X-6
3DZ11	1	C	2	A	1		4BC5	7	D	1	A	12	X-6
3E5	6	C	12	B	13	Z-3	4BC8	3	D	2	A	1	
3E6	6	C	12	B	8	Z-3	4BC8	8	D	7	A	1	
3EA5	2	C	1	A	12	X-6	4BE6	2	D	1	A	12	X-6
3EH7	1	C	2	A	1	X-8	4BK7	3	D	2	A	1	
3EJ7	1	C	2	A	1	X-8	4BK7	8	D	7	A	1	
3EM7	3	C	1	A	5		4BL8	7	D	2	A	1	X-3
3EM7	6	C	4	A	5		4BL8	8	D	9	A	1	
3ER5	1	C	2	A	12	X-6	4BN4	1	D	2	A	12	
3ES5	1	C	2	A	12		4BN6	1	D	5	B(S)	12	X-6
3EV5	2	C	1	A	12	X-6	4BQ7	3	D	2	A	1	
3FH5	1	C	2	A	12		4BQ7	8	D	7	A	1	
3FQ5	1	C	2	A	12		4BS8	3	D	2	A	1	
3FS5	2	C	1	A	12	X-6	4BS8	8	D	7	A	1	
3FY5	1	C	2	A	12		4BU8	1	D	7	A	1	X-2
3GK5	1	C	2	A	12		4BX8	3	D	2	A	1	
3GS8	1	C	7	A	1	X-2	4BX8	8	D	7	A	1	
3GU5	2	C	1	A	12	X-6	4BY6	2	D	1	A	12	X-6
3GW5	5	C	6	A	12		4BZ6	2	D	1	A	12	X-6
3GZ5	1	C	2	A	12	X-6	4BZ7	3	D	2	A	1	
3HA5	2	C	1	A	12		4BZ7	8	D	7	A	1	
3HE7	4	C	2	A	9		4BZ8	3	D	2	A	1	
3HE7	8	C	9	A	9	X-11	4BZ8	8	D	7	A	1	
3HF5	9	C	10	A	9	X-11	4CB6	2	D	1	A	12	X-6
3HG8	3	C	2	A	1	X-9	4CE5	2	D	1	A	12	X-6
3HK5	2	C	1	A	12		4CM4	3	D	2	A	1	
3HM5	2	C	1	A	12		4CM6	7	D	3	A	1	X-1
3HM6	2	C	1	A	1		4CS6	2	D	1	A	12	X-6
3HQ5	2	C	1	A	12		4CX7	3	D	2	A	1	
3HS8	1	C	7	A	1	X-2	4CX7	8	D	7	A	1	
3HT6	1	C	2	A	1	X-8	4CY5	2	D	1	A	12	X-6
3JC6	1	C	2	A	1	X-8	4DE6	2	D	1	A	12	X-6
3JD6	1	C	2	A	1	X-8	4DK6	2	D	1	A	12	X-6
3JG6	3	C	2	A	9	X-8	4DL4	2	D	1	A	1	
							4DT6	2	D	1	A	12	X-6

TUBE	X	Y	Z	W	Skt	G-2 Sht	4 TUBE	X	Y	Z	W	Skt	G-2 Sht
4EH7	1	D	2	A	1	X-8	5AM8*	7	D	8	A	1	
4EJ7	1	D	2	A	1	X-8	5AN8	3	D	2	A	1	
4ER5	1	D	2	A	12	X-4	5AN8	9	D	8	A	1	X-7
4ES8	3	D	2	A	1		5AQ4*	4	D	12	A	6	
4ES8	8	D	7	A	1		5AQ4*	6	D	12	A	6	
4EW6	2	D	1	A	12	X-6	5AQ5	2	D	1	A	12	X-6
4FY5	1	D	2	A	12		5AR4*	4	D	12	A	6	
4GJ7	1	D	2	A	1		5AR4*	6	D	12	A	6	
4GJ7	1	D	9	A	1	X-7	5AR5	2	D	1	A	12	X-6
4GK5	1	D	2	A	12		5AS4*	4	D	12	A	6	
4GM6	2	D	1	A	12	X-6	5AS4*	6	D	12	A	6	
4GS8	1	D	7	A	1	X-2	5AS8	3	D	2	A	1	X-1
4GW5	5	D	6	A	12		5AS8*	8	D	6	A	1	
4GX6	2	D	1	A	12	X-6	5AT4*	4	D	12	A	6	
4GX7	1	D	9	A	1		5AT4*	6	D	12	A	6	
4GX7	1	D	2	A	1	X-7	5AT8	3	D	1	A	1	
4GZ5	1	D	2	A	12	X-6	5AT8	3	D	9	A	1	X-7
4HA5	2	D	1	A	12		5AU4*	4	D	12	A	6	
4HA7	4	D	9	A	9		5AU4*	6	D	12	A	6	
4HA7	3	D	11	A	9		5AV8	1	D	2	A	1	
4HC7	3	D	11	A	9		5AV8	7	D	6	A	1	X-8
4HC7	4	D	9	A	9		5AW4*	4	D	12	A	6	
4HG8	3	D	6	A	1		5AW4*	6	D	12	A	6	
4HG8	1	D	2	A	1	X-9	5AX4*	4	D	12	A	6	
4HK5	2	D	1	A	12		5AX4*	6	D	12	A	6	
4HM5	2	D	1	A	12		5B8	1	D	2	A	1	
4HM6	1	D	2	A	1	X-8	5B8	7	D	6	A	1	X-8
4HQ5	2	D	1	A	12		5BC1*	5	D	3	A	6	
4HR8	3	D	9	A	1	X-1	5BC1*	9	D	3	A	6	
4HS8	1	D	7	A	1	X-2	5BC8	3	D	2	A	1	
4HT6	1	D	2	A	1	X-8	5BC8	8	D	7	A	1	
4JC6	1	D	2	A	1	X-8	5BE6	2	D	1	A	12	X-6
4JD6	1	D	2	A	1	X-8	5BE8	3	D	1	A	1	
4JH6	2	D	1	A	12	X-6	5BE8	8	D	9	A	1	X-7
4JK6	2	D	1	A	12	X-6	5BK5	6	D	7	A	1	X-8
4JL6	2	D	1	A	12	X-6	5BK7	3	D	2	A	1	
4JN8	3	D	1	A	1		5BK7	8	D	7	A	1	
4JN8	8	D	9	A	1	X-7	5BQ7	3	D	2	A	1	
4KE8	7	D	2	A	1	X-3	5BQ7	8	D	7	A	1	
4KE8	8	D	9	A	1		5BR8	3	D	1	A	1	
4KF8	1	D	7	A	1	X-2	5BR8	8	D	9	A	1	X-7
4KN8	3	D	2	A	1		5BS8	3	D	2	A	1	
4KN8	8	D	7	A	1		5BS8	8	D	7	A	1	
4LJ8	3	D	1	A	1		5BT8	9	D	8	A	1	X-7
4LJ8	3	D	9	A	1	X-7	5BT8*	3	D	1	B	1	
4M-P12	2	D	1	A	12	X-6	5BT8*	3	D	2	B	1	
4M-P26	2	C	1	A	12	X-6	5BW8	7	D	6	A	1	X-8
4R-HH2	3	D	2	A	1		5BW8*	2	D	1	B	1	
4R-HH2	8	D	7	A	1		5BW8*	2	D	3	B	1	
4R-HH8	3	D	2	A	1		5BZ7	3	D	2	A	1	
4R-HH8	8	D	7	A	1		5BZ7	8	D	7	A	1	
5AF4	5	D	2	A	12		5CG8	3	D	1	A	1	
5AM8	1	D	2	A	1	X-3							

TUBE	X	Y	Z	W	Skt	G-2 Sht	37 TUBE	X	Y	Z	W	Skt	G-2 Sht
PCF801	1	E	9	A	1		U50*	4	D	12	B	6	
PCF801	1	E	2	A	1	X-7	U50*	6	D	12	B	6	
PCF802	8	E	9	A	1		U52*	4	D	12	B	6	
PCF802	7	E	2	A	1	X-3	U52*	6	D	12	B	6	
PCF805	8	E	2	A	1		U70*	8	E	3	A	4	
PCF805	8	E	7	A	1	X-2	U70*	8	E	5	A	4	
PCH200	1	E	3	A	3	X-4	U78*	7	E	1	A	12	
PCH200	9	E	8	A	3		U78*	7	E	6	A	12	
PCL81	8	F	9	A	1	X-2	U147*	8	E	3	A	4	
PCL81	8	F	1	A	1		U147*	8	E	5	A	4	
PCL82	8	F	1	A	1		U149*	7	E	3	A	8	
PCL82	2	F	3	A	1	X-7	U149*	7	E	6	A	8	
PCL84	7	F	8	A	1	X-9	U152*	3	G	9	A	1	
PCL84	3	F	1	A	1		U153*	11	F	9	A	1	
PCL85	3	G	2	A	1		U154*	3	G	9	A	1	
PCL85	8	G	9	A	1	X-7	U192*	3	G	9	A	1	
PCL86	7	E	8	A	1	X-3	U319*	3	G	9	A	1	
PCL86	2	E	1	A	1		U709*	3	E	1	A	1	
PD500#	1	E	8	B	11		U709*	3	E	7	A	1	
PF83	3	D	9	A	1	X-1	UAA91	5	G	2	A	12	
PF86	3	D	9	A	1	X-1	UAA91	1	G	7	A	12	
PFL200	2	F	1	A	3	X-3	UABC80	7	G	8	A	1	
PFL200	7	F	8	A	3	X-9	UABC80*	7	G	6	A	1	
PL36	8	G	5	A	4	X-4	UABC80*	7	G	1	A	1	
PL38	8	G	5	A	4	X-4	UABC80*	3	G	2	A	1	
PL81	3	G	2	A	1	X-8	UBC81	3	F	2	A	1	
PL82	3	F	2	A	1	X-9	UBC81*	3	F	8	A	1	
PL83	3	F	2	A	1	X-1	UBC81*	3	F	6	A	1	
PL84	3	F	2	A	1	X-9	UBF80	3	F	2	A	1	X-1
PL500#	3	G	2	A	11	X-6	UBF80*	3	F	7	B	1	
PL521#	9	G	1	A	11	X-3	UBF80*	3	F	8	B	1	
PMO4	7	E	1	A	12	X-6	UBF89	3	G	2	A	1	X-1
PMO7	2	E	1	A	12	X-7	UBF89*	3	G	7	A	1	
PY71*	11	G	4	A	8		UBF89*	3	G	8	A	1	
PY80*	3	G	9	A	1		UBL21	7	H	3	A	8	X-4
PY81*	11	F	9	A	1		UBL21*	7	H	5	A	8	
PY82*	3	G	9	A	1		UBL21*	7	H	6	A	8	
PY83*	11	G	9	A	1		UBL71	7	H	3	A	8	X-4
PY88*	11	G	9	A	1		UBL71*	7	H	5	A	8	
R18*	3	E	11	A	1		UBL71*	7	H	6	A	8	
R19*	11	B	12	B(S)	1		UC92	7	F	6	A	12	
R52*	4	D	12	A	6		UCC85	3	G	2	A	1	
R52*	6	D	12	A	6		UCC85	8	G	7	A	1	
SP6	2	E	1	A	12	X-7	UCH42	2	F	4	A	8	
T2MO5	7	E	5	A	12		UCH42*	7	F	5	C	8	
T2MO5	7	E	6	A	12		UCH42*	7	F	6	C	8	
TS51	2	E	1	A	12	X-6	UCH81	3	G	9	A	1	X-1
TS54	3	E	2	A	1	X-1	UCH81	3	G	2	A	1	
U41*	11	B	12	B(S)	4		UCL81	8	H	1	A	1	
U49*	6	E	11	A	1		UCL81	8	H	9	A	1	X-2



TUBE	X	Y	Z	W	Skt	G-2 Sht	36 TUBE	X	Y	Z	W	Skt	G-2 Sht
HCH42	2	F	4	A	8		LN152	3	E	9	A	1	X-8
HCH42*	2	F	5	C	8		LN309	8	F	1	A	1	
HCH42*	7	F	6	C	8		LN309	2	F	3	A	1	X-7
HCH81	9	F	3	A	1		LZ319	8	E	9	B	1	
HCH81	2	F	3	A	1	X-1	LZ319	7	E	2	B	1	X-3
HD14	11	B	12	A	4		M8082	2	E	1	A	12	X-7
HD14	5	B	12	D	4		M8083	2	E	1	A	12	X-7
HF93	7	F	1	A	12	X-6	N14	5	B	12	A	4	Z-4
HF94	7	F	1	A	12	X-6	N16	5	C	12	A	4	Z-4
HK90	2	F	1	A	12	X-6	N17	3	C	12	B	13	Z-4
HL90	2	G	1	A	12	X-6	N18	3	C	12	A	13	Z-4
HL92	1	H	2	A	12	X-6	N19	6	C	12	A	13	Z-3
HL94	1	G	2	A	12	X-6	N77	2	E	1	A	12	X-7
HMO4	2	E	1	A	12	X-6	N78	6	E	7	A	1	
HP6	2	E	1	A	12	X-7	N144	2	E	1	A	12	X-7
HY90*	7	G	5	A	12		N147	8	E	5	A	4	X-4
KF35	11	B	12	A	4		N148	7	E	6	A	8	X-3
KK32	5	B	12	B	4	Z-6	N152	3	G	2	A	1	X-8
KL35	5	B	12	B	4	Z-4	N153	3	F	2	A	1	X-1
KT32	8	G	5	A	4	X-4	N154	3	F	2	A	1	X-9
KT61	8	E	5	A	4	X-4	N329	3	F	2	A	1	X-9
KT63	8	E	5	A	4	X-4	N359	3	G	2	A	1	X-8
KT66	8	E	5	A	4	X-4	N369	8	F	1	A	1	
KT71	8	H	5	A	4	X-4	N369	2	F	3	A	1	X-7
KT81	7	E	6	A	8	X-3	N379	3	F	2	A	1	X-9
KT88	8	E	5	A	4	X-4	N709	3	E	2	A	1	X-9
KTW61	8	E	11	A	4	X-4	N727	2	E	1	A	12	X-6
KTZ63	8	E	11	A	4	X-4	PABC80	7	E	8	A	1	
L63	8	E	5	A	4		PABC80*	7	E	6	A	1	
L77	7	E	6	A	12		PABC80*	7	E	2	A	1	
LCF80	8	E	9	A	1		PABC80*	3	E	1	A	1	
LCF80	7	E	2	A	1	X-3	PC86	3	D	2	A	1	
LCF200	2	D	3	A	3	X-8	PC92	7	C	6	A	12	
LCF200	1	D	10	A	3		PC95	1	E	2	A	12	X-6
LCF201	2	D	3	A	3	X-8	PC900	2	D	1	A	12	
LCF201	1	D	10	A	3		PCC84	1	E	2	A	1	
LCF801	1	D	9	A	1		PCC84	7	E	6	A	1	
LCF801	1	D	2	A	1	X-7	PCC85	3	E	2	A	1	
LCF802	8	E	9	A	1		PCC85	8	E	7	A	1	
LCF802	7	E	2	A	1	X-3	PCC88	8	E	7	A	1	
LCH200	1	D	3	A	3	X-4	PCC88	3	E	2	A	1	
LCH200	9	D	8	A	3		PCC189	3	E	2	A	1	
LCL85	3	E	2	A	1		PCF80	8	E	9	A	1	
LCL85	8	E	9	A	1	X-7	PCF80	7	E	2	A	1	X-3
LF183	1	C	2	A	1	X-8	PCF82	8	E	9	A	1	
LF184	1	C	2	A	1	X-8	PCF82	7	E	2	A	1	X-3
LFL200	2	F	1	A	3	X-3	PCF86	3	E	6	A	1	
LFL200	7	F	8	A	3	X-9	PCF86	1	E	2	A	1	X-9
LL521#	9	G	1	A	11	X-3	PCF200	2	E	3	A	3	X-8
LN119	8	H	1	A	1		PCF200	1	E	10	A	3	
LN119	2	H	3	A	1	X-7	PCF201	2	E	3	A	3	X-8
LN152	3	E	2	A	1		PCF201	1	E	10	A	3	

TUBE	X	Y	Z	W	Skt	G-2 Sht	5 TUBE	X	Y	Z	W	Skt	G-2 Sht
5CG8	3	D	9	A	1	X-7	5J6	7	D	6	A	12	
5CL8	3	D	1	A	1		5JK6	2	D	1	A	12	X-6
5CL8	8	D	9	A	1	X-7	5JL6	2	D	1	A	12	X-6
5CM6	7	D	3	A	1	X-1	5JL8	1	D	2	A	1	
5CM8	8	D	9	A	1		5JL8	6	D	7	A	1	X-8
5CM8	3	D	2	A	1	X-7	5KD8	7	D	2	A	1	X-3
5CQ8	8	D	9	A	1		5KD8	9	D	8	A	1	
5CQ8	7	D	2	A	1	X-3	5KE8	7	D	2	A	1	X-3
5CR8	8	D	9	A	1		5KE8	8	D	9	A	1	
5CR8	3	D	2	A	1	X-7	5KZ8	3	D	2	A	1	X-7
5CU4*	1	D	4	A	6		5KZ8	8	D	9	A	1	
5CU4*	1	D	6	A	6		5LJ8	3	D	1	A	1	
5CZ5	7	D	3	A	1	X-1	5LJ8	3	D	9	A	1	X-7
5DB5	2	D	3	A	1	X-1	5MB8	3	D	1	A	1	
5DH8	3	D	1	A	1		5MB8	8	D	9	A	1	X-7
5DH8	8	D	9	A	1	X-7	5M-HH3	7	D	5	A	12	
5DJ4*	3	D	12	A	4		5M-HH3	7	D	6	A	12	
5DJ4*	6	D	12	A	4		5R4*	4	D	12	A	6	
5EA8	8	D	9	A	1		5R4*	6	D	12	A	6	
5EA8	7	D	2	A	1	X-3	5T4*	4	D	12	A	6	
5EH8	1	D	2	A	1		5T4*	6	D	12	A	6	
5EH8	1	D	7	A	1	X-8	5T8	7	D	8	A	1	
5ES8	3	D	2	A	1		5T8*	7	D	6	A	1	
5ES8	8	D	7	A	1		5T8*	7	D	1	A	1	
5EU8	6	D	2	A	1		5T8*	3	D	2	A	1	
5EU8	8	D	7	A	1	X-9	5U4*	4	D	12	A	6	
5EUW6	2	D	1	A	12	X-6	5U4*	6	D	12	A	6	
5FG7	3	D	1	A	1		5U8	8	D	9	A	1	
5FG7	8	D	9	A	1	X-7	5U8	7	D	2	A	1	X-3
5FV8	3	D	1	A	1		5U9	2	D	3	A	3	X-8
5FV8	8	D	9	A	1	X-7	5U9	1	D	10	A	3	
5GH8	8	D	9	A	1		5V3*	4	D	12	A	6	
5GH8	7	D	2	A	1	X-3	5V3*	6	D	12	A	6	
5GJ7	1	D	9	A	1		5V4*	4	D	12	A	6	
5GJ7	1	D	2	A	1	X-7	5V4*	6	D	12	A	6	
5GM6	2	D	1	A	12	X-6	5V6	8	D	5	A	4	X-4
5GS7	3	D	1	A	1		5V9	1	D	3	A	3	X-4
5GS7	8	D	9	A	1	X-7	5V9	9	D	8	A	3	
5GX6	2	D	1	A	12	X-6	5W4*	4	D	12	A	6	
5GX7	1	D	9	A	1		5W4*	6	D	12	A	6	
5GX7	1	D	2	A	1	X-7	5X4*	3	D	12	A	5	
5HA7	4	D	9	A	9		5X4*	5	D	12	A	5	
5HA7	3	D	11	A	9		5X8	6	D	2	A	1	
5HB7	3	D	2	A	1	X-7	5X8	6	D	7	A	1	X-8
5HC7	3	D	11	A	9		5X9	2	D	3	A	3	X-8
5HC7	4	D	9	A	9		5X9	1	D	10	A	3	
5HG8	3	D	6	A	1		5Y3*	4	D	12	B	6	
5HG8	1	D	2	A	1	X-9	5Y3*	6	D	12	B	6	
5HZ6	2	D	1	A	12	X-6	5Y4*	3	D	12	A	5	
5J6	7	D	5	A	12		5Y4*	5	D	12	A	5	



TUBE	X	Y	Z	W	Skt	G-2	TUBE	X	Y	Z	W	Skt	G-2
						Sht							Sht
5Z4*	4	D	12	A	6		6AH6	7	E	1	A	12	X-6
5Z4*	6	D	12	A	6		6AH7	2	E	1	A	4	
6A5	5	E	12	A	4		6AH7	4	E	5	A	4	
6A8	8	E	5	A	4	X-6	6AJ5	2	E	1	A	12	X-6
6AB4	7	E	6	A	12		6AJ7	5	E	4	A	4	X-6
6AB6	8	E	5	A	4		6AJ8	3	E	9	A	1	
6AB7	5	E	4	A	4	X-6	6AJ8	3	E	2	A	1	X-1
6AB8	3	E	2	A	1		6AK5	2	E	1	A	12	X-6
6AB8	3	E	9	A	1	X-8	6AK6	7	E	1	A	12	X-6
6AC5	8	E	5	A	4		6AK7	5	E	4	A	4	X-6
6AC6	8	E	5	A	4		6AK8	7	E	8	A	1	
6AC7	5	E	4	A	4	X-6	6AK8*	7	E	6	A	1	
6AC9	8	E	9	A	9	X-10	6AK8*	7	E	1	A	1	
6AC9*	4	E	2	A	9		6AK8*	3	E	2	A	1	
6AC9*	4	E	3	A	9		6AL3*	11	E	9	A	1	
6AC10	3	E	11	A	9		6AL5*	5	E	2	A	12	
6AC10	6	E	7	A	9		6AL5*	1	E	7	A	12	
6AC10	4	E	9	A	9		6AL6	8	E	5	A	4	X-4
6AD5	8	E	5	A	4		6AL7	8	E	1	B(S)	4	
6AD7	8	E	1	A	4		6AL11	2	E	3	A	9	X-7
6AD7	8	E	5	A	4	X-4	6AL11	9	E	8	A	9	X-10
6AD8	3	E	2	A	1	X-1	6AM5	2	E	1	A	12	X-7
6AD8*	3	E	7	C	1		6AM6	2	E	1	A	12	X-7
6AD8*	3	E	8	C	1		6AM8	2	E	1	A	1	X-3
6AD10	2	E	3	A	9	X-6	6AM8	7	E	8	A	1	
6AD10	9	E	8	A	9	X-10	6AN4	5	E	6	A	12	
6AE5	8	E	5	A	4		6AN5	2	E	1	A	12	X-6
6AE6	8	E	5	A	4		6AN6*	6	E	2	A	13	
6AE7	5	E	4	A	4		6AN6*	6	E	3	A	13	
6AE7	8	E	6	A	4		6AN6*	6	E	4	A	13	
6AF3*	11	E	9	A	1		6AN6*	6	E	5	A	13	
6AF4	5	E	6	A	12		6AN7	3	E	9	A	1	
6AF5	8	E	5	A	4		6AN7	3	E	2	A	1	X-1
6AF9	7	E	8	A	3	X-9	6AN8	3	E	2	A	1	
6AF9	2	E	1	A	3	X-3	6AN8	9	E	8	A	1	X-7
6AF11	7	E	3	A	9		6AQ4	2	E	1	A	12	
6AF11	5	E	6	A	9		6AQ5	2	E	1	A	12	X-6
6AF11	9	E	11	A	9	X-10	6AQ6	2	E	1	A	12	
6AG5	2	E	1	A	12	X-6	6AQ6*	2	E	5	C	12	
6AG6	8	E	5	A	4	X-4	6AQ6*	2	E	6	C	12	
6AG7	5	E	4	A	4	X-6	6AQ7	6	E	4	A	5	
6AG9	6	E	5	A	9		6AQ7*	2	E	3	C	5	
6AG9	9	E	11	A	9	X-4	6AQ7*	2	E	1	C	5	
6AG11	2	E	3	A	9		6AQ8	3	E	2	A	1	
6AG11	4	E	5	A	9		6AQ8	8	E	7	A	1	
6AG11	9	E	8	A	9		6AR5	2	E	1	A	12	X-6
6AG11	11	E	10	A	9		6AR8	7	E	6	A	1	X-3
6AG12	1	E	2	A	1		6AR11	6	E	5	A	9	X-3
6AH4	8	E	1	A	4		6AR11	11	E	10	A	9	X-9
6AH5	8	E	6	A	4	X-1	6AS5	1	E	2	A	12	X-6

TUBE	X	Y	Z	W	Skt	G-2	TUBE	X	Y	Z	W	Skt	G-2
						Sht							Sht
EF805S	1	E	2	A	1	X-8	EY81*	11	E	9	A	1	
EF806S	3	E	9	A	1	X-1	EY82*	3	E	9	A	1	
EF905	2	E	1	A	12	X-6	EY83*	11	E	9	A	1	
EFL200	2	E	1	A	3	X-3	EY84*	3	E	11	A	1	
EFL200	7	E	8	A	3	X-9	EY86*	6	E	11	A	1	
EH90	2	E	1	A	12	X-6	EY87*	6	E	11	A	1	
EH900S	2	E	1	A	12	X-6	EY88*	11	E	9	A	1	
EK11	1	E	2	A	1		EY91*	2	E	1	A	12	
EK32	8	E	5	A	4	X-6	EY500*#	11	E	2	A	11	
EK90	2	E	1	A	12	X-6	EZ35*	8	E	3	A	4	
EL33	8	E	5	A	4	X-4	EZ35*	8	E	5	A	4	
EL34	8	E	5	A	4	X-4	EZ80*	3	E	1	A	1	
EL35	8	E	5	A	4	X-4	EZ80*	3	E	7	A	1	
EL36	8	E	5	A	4	X-4	EZ81*	3	E	1	A	1	
EL37	8	E	5	A	4	X-4	EZ81*	3	E	7	A	1	
EL38	8	E	5	A	4	X-4	EZ90*	7	E	1	A	12	
EL39	8	E	5	A	4	X-4	EZ90*	7	E	6	A	12	
EL81	3	E	2	A	1	X-8	EZ91*	7	E	1	A	12	
EL82	3	E	2	A	1	X-9	EZ91*	7	E	6	A	12	
EL83	3	E	2	A	1	X-1	EZ900*	7	E	1	A	12	
EL84	3	E	2	A	1	X-9	EZ900*	7	E	6	A	12	
EL85	3	E	2	A	1	X-1	FM1000	3	E	2	A	8	X-5
EL86	3	E	2	A	1	X-9	GY501*#	11	C	12	B(S)	11	
EL90	2	E	1	A	12	X-6	GZ30*	4	D	12	A	6	
EL91	2	E	1	A	12	X-7	GZ30*	6	D	12	A	6	
EL94	6	C	12	A	13	Z-3	GZ31*	4	D	12	A	6	
EL95	2	E	1	A	12	X-6	GZ31*	6	D	12	A	6	
EL180	1	F	2	A	1	X-8	GZ32*	4	D	12	A	6	
EL183	3	F	2	A	1	X-7	GZ32*	6	D	12	A	6	
EL500#	3	G	2	A	11	X-6	GZ33*	4	D	12	A	6	
EL803	3	E	2	A	1	X-1	GZ33*	6	D	12	A	6	
EL803S	3	E	2	A	1	X-1	GZ34*	4	D	12	A	6	
EL804	3	E	2	A	1	X-9	GZ34*	6	D	12	A	6	
EL821	3	E	2	A	1	X-8	H52*	4	D	12	A	6	
ELL80	7	E	2	A	1	X-1	H52*	6	D	12	A	6	
ELL80	7	E	6	A	1	X-9	H63	8	E	11	A	4	
EM34	8	E	4	D	4		HAA91*	5	F	2	A	12	
EM35	8	E	4	A	4		HAA91*	1	F	7	A	12	
EM80	2	E	1	A	1		HABC80	7	G	8	A	1	
EM81	2	E	1	D	1		HABC80*	7	G	1	A	1	
EM84	3	E	1	B	1		HABC80*	7	G	6	A	1	
EM87	3	E	1	A	1		HABC80*	3	G	2	A	1	
EMM801	3	E	1	A	1		HBC90	2	F	1	A	12	
EMM801	3	E	7	A	1		HBC90*	2	F	5	C	12	
EMM801	3	E	9	A	1		HBC90*	2	F	6	C	12	
EN91	2	E	1	A	12	X-5	HBC91	2	F	1	A	12	
EN92	2	E	1	A	12	X-5	HBC91*	2	F	5	C	12	
EN93	5	E	1	A	12		HBC91*	2	F	6	C	12	
EQ80	8	E	7	A	1	X-1	HCC85	3	F	2	A	1	
EY80*	3	E	9	A	1		HCC85	8	F	7	A	1	

TUBE	X	Y	Z	W	Skt	G-2 Sht	34 TUBE	X	Y	Z	W	Skt	G-2 Sht
ECC82	3	F	2	A	1		ECH80	3	E	9	A	1	
ECC82	8	F	7	A	1		ECH80	3	E	2	A	1	X-1
ECC83	3	F	2	A	1		ECH81	3	E	9	A	1	
ECC83	8	F	7	A	1		ECH81	3	E	2	A	1	X-1
ECC84	1	E	2	A	1		ECH83	3	E	2	A	1	X-1
ECC84	7	E	6	A	1		ECH83	3	E	9	A	1	
ECC85	3	E	2	A	1		ECH84	3	E	9	A	1	
ECC85	8	E	7	A	1		ECH84	3	E	2	A	1	X-7
ECC86	3	E	2	A	1		ECH200	1	E	3	A	3	X-4
ECC86	8	E	7	A	1		ECH200	9	E	8	A	3	
ECC88	3	E	2	A	1		ECL80	3	E	2	A	1	
ECC88	8	E	7	A	1		ECL80	3	E	9	A	1	X-8
ECC91	7	E	5	A	12		ECL82	8	E	1	A	1	
ECC91	7	E	6	A	12		ECL82	2	E	3	A	1	X-7
ECC180	3	E	2	A	1		ECL84	3	E	1	A	1	
ECC180	8	E	7	A	1		ECL84	7	E	8	A	1	X-9
ECC186	3	F	2	A	1		ECL85	3	E	2	A	1	
ECC186	8	F	7	A	1		ECL85	8	E	9	A	1	X-7
ECC189	3	E	2	A	1		ECL86	7	E	8	A	1	X-3
ECC189	8	E	7	A	1		ECL86	2	E	1	A	1	
ECC801S	3	F	2	A	1		ED2*	5	E	2	A	12	
ECC801S	8	F	7	A	1		ED2*	1	E	7	A	12	
ECC802S	3	F	2	A	1		ED500#	1	E	8	B	11	
ECC802S	8	F	7	A	1		EF22	2	E	6	A	8	X-3
ECC803S	3	F	2	A	1		EF33	8	E	11	A	4	X-4
ECC803S	8	F	7	A	1		EF39	8	E	11	A	4	X-4
ECC808	2	E	1	A	1		EF51	7	E	6	A	8	X-5
ECC808	8	E	9	A	1		EF52	7	E	6	A	8	X-3
ECF80	8	E	9	A	1		EF80	3	E	2	A	1	X-8
ECF80	7	E	2	A	1	X-3	EF83	3	E	9	A	1	X-1
ECF82	8	E	9	A	1		EF85	3	E	2	A	1	X-8
ECF82	7	E	2	A	1	X-3	EF86	3	E	9	A	1	X-1
ECF83	8	E	9	A	1	X-7	EF89	3	E	2	A	1	X-8
ECF83	1	E	2	A	1		EF91	2	E	1	A	12	X-7
ECF86	3	E	6	A	1		EF92	2	E	1	A	12	X-6
ECF86	1	E	2	A	1	X-9	EF93	7	E	1	A	12	X-6
ECF200	2	E	3	A	3	X-8	EF94	7	E	1	A	12	X-6
ECF200	1	E	10	A	3		EF95	2	E	1	A	12	X-6
ECF201	2	E	3	A	3	X-3	EF96	2	E	1	A	12	X-6
ECF201	1	E	10	A	3		EF97	2	E	1	A	12	X-6
ECF801	1	E	9	A	1		EF98	2	E	1	A	12	X-6
ECF801	1	E	2	A	1	X-7	EF174	3	E	2	A	1	X-8
ECF802	8	E	9	A	1		EF175	3	E	2	A	1	X-8
ECF802	7	E	2	A	1	X-3	EF183	1	E	2	A	1	X-8
ECF805	8	E	9	A	1		EF184	1	E	2	A	1	X-8
ECF805	8	E	7	A	1	X-2	EF190	2	E	1	A	12	X-6
ECH4G	8	E	5	A	4		EF800	1	E	2	A	1	X-8
ECH4G	8	E	11	A	4	X-4	EF802	1	E	2	A	1	X-8
ECH33	8	E	5	A	4		EF804	3	E	9	A	1	X-8
ECH33	8	E	11	A	4	X-4	EF804S	3	E	9	A	1	X-8

TUBE	X	Y	Z	W	Skt	G-2 Sht	7 TUBE	X	Y	Z	W	Skt	G-2 Sht
6AS6	2	E	1	A	12	X-6	6B6*	8	E	4	C	4	
6AS7	3	E	1	A	5		6B6*	8	E	5	C	4	
6AS7	6	E	4	A	5		6B8	8	E	11	A	4	
6AS8	3	E	2	A	1	X-1	6B8*	8	E	4	C	4	
6AS8*	8	E	6	B	1		6B8*	8	E	5	C	4	
6AS11	7	E	3	A	9		6B10	2	E	3	A	9	
6AS11	5	E	6	A	9		6B10	7	E	5	A	9	
6AS11	9	E	11	A	9	X-10	6B10*	9	E	8	A	9	
6AT6	2	E	1	A	12		6B10*	9	E	10	A	9	
6AT6*	2	E	5	C	12		6BA3*	9	E	7	A	11	
6AT6*	2	E	6	C	12		6BA6	7	E	1	A	12	X-6
6AT8	3	E	1	A	1		6BA7	3	E	2	A	1	X-1
6AT8	3	E	9	A	1	X-7	6BA8	1	E	2	A	1	
6AU4*	3	E	5	A	5		6BA8	6	E	7	A	1	X-8
6AU5	3	E	1	A	4	X-8	6BA11	8	E	4	A	9	X-3
6AU6	7	E	1	A	12	X-6	6BA11	10	E	9	A	9	
6AU7	3	E	2	A	1		6BC4	6	E	7	A	1	
6AU7	8	E	7	A	1		6BC5	2	E	1	A	12	X-6
6AU8	1	E	2	A	1		6BC7*	1	E	2	A	1	
6AU8	6	E	7	A	1	X-8	6BC7*	7	E	6	A	1	
6AV4*	7	E	1	A	12		6BC7*	9	E	8	A	1	
6AV4*	7	E	6	A	12		6BC8	3	E	2	A	1	
6AV5	3	E	1	A	4	X-8	6BC8	8	E	7	A	1	
6AV6	2	E	1	A	12		6BD4	1	E	5	D	4	
6AV6*	2	E	5	C	12		6BD5	3	E	1	A	4	X-8
6AV6*	2	E	6	C	12		6BD6	7	E	1	A	12	X-6
6AV11	3	E	11	A	9		6BD7	3	E	2	A	1	
6AV11	6	E	7	A	9		6BD7*	3	E	6	C	1	
6AV11	4	E	9	A	9		6BD7*	3	E	8	C	1	
6AW8	1	E	2	A	1		6BD11	7	E	3	A	9	
6AW8	6	E	7	A	1	X-8	6BD11	5	E	6	A	9	
6AX3*	7	E	4	A	9		6BD11	9	E	11	A	9	X-10
6AX4*	3	E	5	A	5		6BE3*	7	E	10	A	9	
6AX5*	8	E	3	A	4		6BE6	2	E	1	A	12	X-6
6AX5*	8	E	5	A	4		6BE7	8	E	7	A	1	X-1
6AX6*	4	E	3	A	4		6BE8	3	E	1	A	1	
6AX6*	8	E	5	A	4		6BE8	8	E	9	A	1	X-7
6AX7	3	E	2	A	1		6BF5	2	E	1	A	12	X-6
6AX7	8	E	7	A	1		6BF6	2	E	1	A	12	
6AX8	8	E	9	A	1		6BF6*	2	E	5	C	12	
6AX8	7	E	2	A	1	X-3	6BF6*	2	E	6	C	12	
6AY3*	9	E	7	A	11		6BF8*	6	E	1	A	1	
6AY11*	2	E	3	A	9		6BF8*	6	E	2	A	1	
6AY11*	11	E	10	A	9		6BF8*	6	E	3	A	1	
6AY11	4	E	5	A	9		6BF8*	6	E	7	A	1	
6AY11	9	E	8	A	9		6BF8*	6	E	8	A	1	
6AZ8	7	E	9	A	1		6BF8*	6	E	9	A	1	
6AZ8	3	E	6	A	1	X-2	6BF11	2	E	3	A	9	X-6
6B4	5	E	12	A	4		6BF11	9	E	8	A	9	X-10
6B6	8	E	11	A	4		6BG6	3	E	5	A	4	X-8



TUBE	X	Y	Z	W	Skt	G-2 Sht	8 TUBE	X	Y	Z	W	Skt	G-2 Sht
6BH3*	9	E	7	A	11		6BR3*	11	E	9	A	1	
6BH5	3	E	2	A	1	X-8	6BR5	2	E	1	A	1	
6BH6	2	E	1	A	12	X-6	6BR7	3	E	2	A	1	X-8
6BH8	1	E	2	A	1		6BR8	3	E	1	A	1	
6BH8	6	E	7	A	1	X-8	6BR8	8	E	9	A	1	X-7
6BH11	2	E	4	A	9		6BS3*	9	E	7	A	11	
6BH11	5	E	6	A	9		6BS4	5	E	6	A	12	
6BH11	11	E	8	A	9	X-9	6BS8	3	E	2	A	1	
6BJ3*	7	E	4	A	9		6BS8	8	E	7	A	1	
6BJ5	2	E	1	A	12	X-7	6BT6	2	E	1	A	12	
6BJ6	2	E	1	A	12	X-6	6BT6*	2	E	5	C	12	
6BJ7*	1	E	2	A	1		6BT6*	2	E	6	C	12	
6BJ7*	7	E	6	A	1		6BT8	9	E	8	A	1	X-7
6BJ7*	9	E	8	A	1		6BT8*	3	E	1	B	1	
6BJ8	9	E	8	A	1		6BT8*	3	E	2	B	1	
6BJ8*	3	E	6	A	1		6BU5	5	E	4	A	5	X-3
6BJ8*	2	E	1	A	1		6BU6	2	E	1	A	12	
6BK4	1	E	5	C	4		6BU6*	2	E	5	C	12	
6BK5	6	E	7	A	1	X-8	6BU6*	2	E	6	C	12	
6BK6	2	E	1	A	12		6BU8	1	E	7	A	1	X-2
6BK6*	2	E	5	C	12		6BV8	1	E	2	A	1	
6BK6*	2	E	6	C	12		6BV8*	8	E	6	A	1	
6BK7	3	E	2	A	1		6BV8*	7	E	9	A	1	
6BK7	8	E	7	A	1		6BV11	8	E	7	A	9	X-9
6BK8	3	E	9	A	1	X-1	6BV11	5	E	6	A	9	X-4
6BK11	3	E	11	A	9		6BW4*	9	E	1	A	1	
6BK11	6	E	7	A	9		6BW4*	9	E	7	A	1	
6BK11	4	E	9	A	9		6BW6	3	E	1	A	1	
6BL4*	3	E	5	A	5		6BW7	3	E	2	A	1	X-8
6BL7	3	E	1	A	5		6BW8	7	E	6	A	1	X-8
6BL7	6	E	4	A	5		6BW8*	2	E	1	A	1	
6BL8	8	E	9	A	1		6BW8*	2	E	3	A	1	
6BL8	7	E	2	A	1	X-3	6BX6	3	E	2	A	1	X-8
6BM5	2	E	1	A	12	X-6	6BX7	3	E	1	A	5	
6BM8	8	E	1	A	1		6BX7	6	E	4	A	5	
6BM8	2	E	3	A	1	X-7	6BX8	3	E	2	A	1	
6BN4	1	E	2	A	12		6BX8	8	E	7	A	1	
6BN5	3	E	2	A	1	X-1	6BY5*	1	E	4	A	4	
6BN6	1	E	5	B(S)	12	X-2	6BY5*	8	E	5	A	4	
6BN7	3	E	2	A	1		6BY6	2	E	1	A	12	X-6
6BN7	6	E	7	A	1		6BY7	3	E	2	A	1	X-8
6BN8	9	E	8	A	1		6BY8	9	E	1	A	1	X-8
6BN8*	3	E	6	A	1		6BY8*	3	E	6	A	1	
6BN8*	2	E	1	A	1		6BY11	2	E	3	A	9	X-6
6BN11	8	E	7	A	9	X-9	6BY11	9	E	8	A	9	X-10
6BN11	2	E	3	A	9	X-4	6BZ3*	7	E	4	A	9	
6BQ5	3	E	2	A	1	X-9	6BZ6	2	E	1	A	12	X-6
6BQ6	8	E	5	A	4	X-4	6BZ7	3	E	2	A	1	
6BQ7	3	E	2	A	1		6BZ7	8	E	7	A	1	
6BQ7	8	E	7	A	1		6BZ8	3	E	2	A	1	
							6BZ8	8	E	7	A	1	
							6C4	7	E	6	A	12	

TUBE	X	Y	Z	W	Skt	G-2 Sht	33 TUBE	X	Y	Z	W	Skt	G-2 Sht
E80L	3	E	2	A	1	X-1	EBC90	2	E	1	A	12	
E81CC	3	F	2	A	1	X-8	EBC90*	2	E	5	C	12	
E81CC	8	F	7	A	1		EBC90*	2	E	6	C	12	
E81L	3	E	2	A	1		EBC91	2	E	1	A	12	
E83F	3	E	2	A	1	X-8	EBC91*	2	E	5	C	12	
E88CC	3	E	2	A	1		EBC91*	2	E	6	C	12	
E88CC	8	E	7	A	1		EBF21	7	E	6	A	8	X-5
E90CC	7	E	5	A	12		EBF21*	7	E	3	C	8	
E90F	2	E	1	A	12		EBF21*	7	E	5	C	8	
E91AA*	5	E	2	A	12	X-6	EBF32	8	E	11	A	4	
E91AA*	1	E	7	A	12		EBF32*	8	E	4	C	4	
E91H	2	E	1	A	12		EBF32*	8	E	5	C	4	
E92CC	7	E	5	A	12	X-6	EBF80	3	E	2	A	1	X-1
E92CC	7	E	6	A	12		EBF80*	3	E	7	A	1	
E95F	2	E	1	A	12		EBF80*	3	E	8	A	1	
E180F	1	E	2	A	1	X-6	EBF83	3	E	2	A	1	X-1
E182CC	6	F	7	A	1	X-9	EBF89	3	E	2	A	1	X-1
E182CC	3	F	2	A	1		EBF89*	3	E	7	C	1	
E280F	1	E	2	A	1		EBF89*	3	E	8	C	1	
EAA91*	5	E	2	A	12	X-9	EBL21	7	E	3	A	8	X-4
EAA91*	1	E	7	A	12		EBL21*	7	E	5	A	8	
EAA901*	5	E	2	A	12		EBL21*	7	E	6	A	8	
EAA901*	1	E	7	A	12		EBL31	8	E	11	A	4	X-6
EAA901S*	5	E	2	A	12		EBL31*	8	E	4	C	4	
EAA901S*	1	E	7	A	12		EBL31*	8	E	5	C	4	
EABC80	7	E	8	A	1		EBL71	7	E	3	A	8	X-4
EABC80*	7	E	6	A	1		EBL71*	7	E	5	A	8	
EABC80*	7	E	1	A	1		EBL71*	7	E	6	A	8	
EABC80*	3	E	2	A	1		EC80	3	E	2	A	1	
EAC91	5	E	6	A	12		EC81	3	E	1	A	1	
EAC91*	2	E	1	A	12		EC86	3	E	2	A	1	
EAF21	7	E	6	A	8		EC88	2	E	1	A	1	
EAF21*	7	E	4	B	8	X-3	EC90	7	E	6	A	12	
EAF801	3	E	2	A	1	X-1	EC91	2	E	1	A	12	
EAF801*	3	E	8	C	1		EC92	7	E	6	A	12	
EAM86	9	D	8	A	1		EC93	5	E	6	A	12	
EAM86*	3	D	2	A	1		EC94	5	E	6	A	12	
EB34*	4	E	3	A	4		EC95	1	E	2	A	12	X-6
EB34*	8	E	5	A	4		EC806S	3	E	2	A	1	
EB91	5	E	2	A	12		EC903	5	E	6	A	12	
EB91	1	E	7	A	12		ECC31	8	E	4	A	4	
EBC33	7	E	3	A	8		ECC31	8	E	5	A	4	
EBC33*	7	E	5	C	8		ECC32	3	E	1	A	5	
EBC33*	7	E	6	C	8		ECC32	6	E	4	A	5	
EBC80	3	E	2	A	1		ECC33	3	E	1	A	5	
EBC80*	3	E	6	C	1		ECC33	6	E	4	A	5	
EBC80*	3	E	8	C	1		ECC35	3	E	1	A	5	
EBC81	3	E	2	A	1		ECC35	6	E	4	A	5	
EBC81*	3	E	6	C	1		ECC81	3	F	2	A	1	
EBC81*	3	E	8	C	1		ECC81	8	F	7	A	1	



TUBE	X	Y	Z	W	Skt	G-2 Sht	32 TUBE	X	Y	Z	W	Skt	G-2 Sht
DAF91	6	B	12	B	13	Z-4	DH81	7	E	3	A	8	
DAF91*	3	B	12	D	13		DH81*	7	E	5	C	8	
DAF92	6	B	12	B	13	Z-3	DH81*	7	E	6	C	8	
DAF92	4	B	12	D	13		DH149	7	E	3	A	8	
DAF96	6	B	12	B	13	Z-3	DH149*	7	E	5	C	8	
DAF96*	4	B	12	D	13		DH149*	7	E	6	C	8	
DBC25	6	B	12	A	8		DH719	7	E	8	A	1	
DBC25*	3	B	12	A	8		DH719*	7	E	6	A	1	
DBC25*	4	B	12	A	8		DH719*	7	E	1	A	1	
DC25	6	B	12	A	8		DH719*	3	E	2	A	1	
DC80	1	B	12	A	1		DK22	3	B	12	A	8	Z-4
DC90	6	B	3	A	13		DK31	6	B	12	A	4	Z-5
DC96	6	B	3	A	13		DK32	5	B	12	B	4	Z-6
DCC90	5	C	12	A	13		DK91	4	B	12	B	13	Z-3
DCC90	3	C	12	A	13		DK92	4	B	12	B	13	Z-3
DCH22	4	B	12	A	8		DK96	4	B	12	B	13	Z-3
DCH22	6	B	12	A	8	Z-5	DL21	5	B	12	A	8	Z-4
DCH25	4	B	12	A	8		DL22	6	B	12	A	8	Z-3
DCH25	6	B	12	A	8	Z-5	DL29	6	B	12	A	8	X-3
DCH31	5	B	12	A	4		DL31	4	B	12	A	4	Z-8
DCH31	11	B	12	A	4	Z-4	DL31	5	B	12	A	4	
DD6*	5	E	2	A	12		DL33	5	C	12	A	4	Z-4
DD6*	1	E	7	A	12		DL35	5	B	12	A	4	Z-4
DD7*	5	E	2	A	12		DL36	5	B	12	A	4	Z-4
DD7*	1	E	7	A	12		DL91	3	B	12	B	13	Z-4
DDD25	4	B	12	A	8		DL92	3	C	12	B	13	Z-4
DDD25	5	B	12	A	8		DL93	4	C	12	A	13	Z-3
DDD26	3	C	12	A	8		DL94	6	C	12	A	13	Z-3
DDD26	6	C	12	A	8		DL95	3	C	12	A	13	Z-4
DDR7	2	E	1	A	12	X-7	DL96	6	C	12	A	13	Z-3
DF25	6	B	12	A	8	Z-3	DL907	6	B	12	A	13	Z-3
DF26	6	B	12	A	8	Z-3	DLL21	2	B	12	A	5	Z-4
DF31	11	B	12	A	4	Z-4	DLL21	5	B	12	A	5	
DF32	11	B	12	A	4	Z-4	DLL25	2	B	12	A	5	Z-4
DF33	11	B	12	B	4	Z-4	DLL31	4	B	12	A	4	
DF91	6	B	12	B	13	Z-3	DLL31	5	B	12	A	4	Z-8
DF92	6	B	12	B	13	Z-3	DLL101	3	B	12	A	13	
DF96	6	B	12	B	13	Z-3	DLL101	6	B	12	A	13	Z-4
DF97	6	B	12	B	13	Z-3	DLL102	3	C	12	A	13	
DF904	6	B	12	B	13	Z-3	DLL102	6	C	12	A	13	Z-4
DF906	6	B	12	A	13	Z-3	DP61	2	E	1	A	12	
DH63	8	E	11	A	4		DY30*	11	B	12	B(S)4	X-6	
DH63*	8	E	4	C	4		DY80*	11	B	12	B(S)1		
DH63*	8	E	5	C	4		DY86*	11	B	12	B(S)1		
DH76	8	F	11	A	4		DY87*	11	B	12	B(S)1		
DH76*	8	F	4	C	4		E55L#	7	E	8	A	11	X-2
DH76*	8	F	5	C	4		E80CC	3	E	2	A	1	
DH77	2	E	1	A	12		E80CF	8	E	9	A	1	
DH77*	2	E	5	C	12		E80CF	7	E	2	A	1	
DH77*	2	E	6	C	12		E80F	3	E	9	A	1	X-3

TUBE	X	Y	Z	W	Skt	G-2 Sht	9 TUBE	X	Y	Z	W	Skt	G-2 Sht
6C5	8	E	5	A	4		6CM6	7	E	3	A	1	X-1
6C8	4	E	11	A	4		6CM7	3	E	7	A	1	
6C8	8	E	5	A	4		6CM7	9	E	8	A	1	
6C9**	10	E	1	A	1	X-2	6CM8	8	E	9	A	1	
6C9**	6	E	7	A	1	X-8	6CM8	3	E	2	A	1	X-7
6C10	4	E	9	A	9		6CN6	8	E	5	A	4	X-4
6C10	6	E	7	A	9		6CN7	6	E	7	A	1	
6C10	3	E	11	A	9		6CN7*	3	E	1	A	1	
6C12	3	E	9	A	1		6CN7*	3	E	2	A	1	
6C12	3	E	2	A	1	X-1	6CQ4*	3	E	5	A	5	
6C16	8	E	9	A	1		6CQ6	2	E	1	A	12	X-6
6C16	7	E	2	A	1	X-3	6CQ8	8	E	9	A	1	
3C31	8	E	11	A	4	X-4	6CQ8	7	E	2	A	1	X-3
6C31	8	E	5	A	4		6CR6	1	E	7	A	12	X-6
6CA4*	3	E	1	A	1		6CR6*	1	E	2	D	12	
6CA4*	3	E	7	A	1		6CR8	8	E	9	A	1	
6CA5	1	E	2	A	12	X-6	6CR8	3	E	2	A	1	X-7
6CA7	8	E	5	A	4	X-4	6CS5	2	E	3	A	1	X-1
6CB5	3	E	4	A	4	X-1	6CS6	2	E	1	A	12	X-6
6CB6	2	E	1	A	12	X-6	6CS7	9	E	3	A	1	
6CD3*	7	E	4	A	9		6CS7	8	E	7	A	1	
6CD6	3	E	5	A	4	X-8	6CS8	8	E	9	A	1	
6CD7	8	E	4	D	4		6CS8	3	E	2	A	1	X-7
6CE3	7	E	4	A	9		6CU5	1	E	2	A	12	X-6
6CE5	2	E	1	A	12	X-6	6CU6	8	E	5	A	4	X-4
6CF6	2	E	1	A	12	X-6	6CU8	1	E	8	A	1	
6CF8	3	E	9	A	1	X-1	6CU8	6	E	7	A	1	X-3
6CG3*	7	E	4	A	9		6CW4	8	E	4	A	10	
6CG6	7	E	1	A	12	X-6	6CW5	3	E	2	A	1	X-9
6CG7	3	E	2	A	1		6CW7	1	E	2	A	1	
6CG7	8	E	7	A	1		6CW7	7	E	6	A	1	
6CG8	3	E	1	A	1		6CX7	3	E	2	A	1	
6CG8	3	E	9	A	1	X-7	6CX7	8	E	7	A	1	
6CH3*	9	E	7	A	11		6CX8	1	E	2	A	1	
6CH6	3	E	2	A	1	X-8	6CX8	6	E	7	A	1	X-8
6CH7	3	E	2	A	1		6CY5	2	E	1	A	12	X-6
6CH7	8	E	7	A	1		6CY7	8	E	7	A	1	
6CH8	1	E	8	A	1		6CY7	9	E	3	A	1	
6CH8	6	E	7	A	1	X-3	6CZ5	7	E	3	A	1	X-1
6CJ3*	9	E	7	A	11		6D1	3	E	2	A	1	X-9
6CJ6	3	E	2	A	1	X-8	6D2*	5	E	2	A	12	
6CK3*	9	E	7	A	11		6D2*	1	E	7	A	12	
6CK4	8	E	1	A	4		6D4	5	E	1	A	12	
6CK6	3	E	2	A	1	X-1	6D5	8	A	5	A	4	
6CL3*	9	E	2	A	11		6D8	8	E	5	A	4	X-6
6CL5	3	E	4	A	4	X-8	6D10	3	E	11	A	9	
6CL6	1	E	2	A	1	X-3	6D10	6	E	7	A	9	
6CL8	3	E	1	A	1		6D10	4	E	9	A	9	
6CL8	8	E	9	A	1	X-7	6DA4*	3	E	5	A	5	
6CM4	3	E	2	A	1		6DA5	2	E	1	D	1	
6CM5	8	E	5	A	4	X-4							

TUBE	X	Y	Z	W	Skt	G-2 Sht	10 TUBE	X	Y	Z	W	Skt	G-2 Sht
6DA6	3	E	2	A	1	X-8	6DZ8	8	E	1	A	1	
6DA7	9	E	3	B	1		6DZ8	2	E	3	A	1	X-7
6DA7	8	E	7	B	1		6E8	8	E	5	A	4	
6DB5	2	E	3	A	1	X-1	6E8	8	E	11	A	4	X-4
6DB6	2	E	1	A	12	X-6	6EA4	5	E	6	B	9	
6DC6	2	E	1	A	12	X-6	6EA5	2	E	1	A	12	X-6
6DC8	3	E	2	A	1	X-1	6EA7	3	E	1	A	5	
6DC8*	3	E	7	C	1		6EA7	6	E	4	A	5	
6DC8*	3	E	8	C	1		6EA8	8	E	9	A	1	
6DE4*	3	E	5	A	5		6EA8	7	E	2	A	1	X-3
6DE6	2	E	1	A	12	X-6	6EB5*	1	E	7	A	12	
6DE7	9	E	2	A	1		6EB5*	5	E	2	A	12	
6DE7	8	E	7	A	1		6EB8	1	E	2	A	1	
6DG6	8	E	5	A	4	X-4	6EB8	6	E	7	A	1	X-8
6DJ8	3	E	2	A	1		6EC4*#	11	E	2	A	11	
6DJ8	8	E	7	A	1		6ED4#	1	E	8	B	11	
6DK6	2	E	1	A	12	X-6	6EF4	5	E	6	B	9	
6DL4	2	E	1	A	1		6EF6	8	E	5	A	4	X-4
6DL5	2	E	1	A	12	X-6	6EG6	2	E	1	A	12	X-6
6DL8	8	E	9	A	1		6EH5	1	E	2	A	12	X-6
6DL8	7	E	2	A	1	X-3	6EH7	1	E	2	A	1	X-8
6DM4*	3	E	5	A	5		6EH8	1	E	2	A	1	
6DN6	3	E	5	A	4	X-8	6EH8	1	E	7	A	1	X-8
6DN7	3	E	1	A	5		6EJ7	1	E	2	A	1	X-8
6DN7	6	E	4	A	5		6EL7	1	E	2	A	1	X-8
6DQ4*	3	E	5	A	5		6EM5	7	E	3	A	1	X-1
6DQ5	3	E	1	A	4	X-4	6EM7	3	E	1	A	5	
6DQ6	8	E	5	A	4	X-4	6EM7	6	E	4	A	5	
6DR4	7	E	6	A	12		6EQ7*	3	E	8	B	1	
6DR7	9	E	2	A	1		6EQ7	3	E	2	A	1	X-6
6DR7	8	E	7	A	1		6ER5	1	E	2	A	12	X-6
6DS4	8	E	4	A	10		6ES5	1	E	2	A	12	X-6
6DS5	2	E	1	A	12	X-6	6ES6	2	E	1	A	12	X-6
6DS8	3	E	2	A	1	X-1	6ES8	3	E	2	A	1	
6DS8	3	E	9	A	1		6ES8	8	E	7	A	1	
6DT4*	3	E	5	A	5		6ET6	2	E	1	A	12	X-6
6DT5	7	E	6	A	1	X-1	6ET7	6	E	7	A	1	X-8
6DT6	2	E	1	A	12	X-6	6ET7*	1	E	2	C	1	
6DT8	3	E	2	A	1		6ET7*	1	E	3	C	1	
6DT8	8	E	7	A	1		6EU7	4	E	5	A	2	
6DV12	7	E	6	A	4		6EU7	9	E	8	A	2	
6DW4*	9	E	7	A	11		6EU8	6	E	2	A	1	
6DW5	7	E	6	A	1	X-1	6EU8	8	E	7	A	1	X-9
6DX8	3	E	1	A	1		6EV5	7	E	1	A	12	
6DX8	7	E	8	A	1	X-9	6EV7	3	E	2	A	1	
6DY5	3	E	2	A	1	X-9	6EV7	8	E	7	A	1	
6DY7	8	E	1	A	4		6EW6	2	E	1	A	12	X-6
6DY7	8	E	5	A	4	X-4	6EW7	8	E	7	A	1	
6DZ4	5	E	6	A	12		6EW7	2	E	9	A	1	
6DZ7	8	E	1	A	4		6EW8	3	E	2	A	1	
6DZ7	8	E	5	A	4	X-4							

TUBE	X	Y	Z	W	Skt	G-2 Sht	31 TUBE	X	Y	Z	W	Skt	G-2 Sht
7502	2	E	1	A	12	X-6	7984	9	F	10	A	9	X-11
7543	7	E	1	A	12	X-6	8016*	11	B	12	B(S)	4	
7548	1	E	2	A	1	X-7	8056	4	E	8	A	10	
7551	1	F	2	A	1	X-3	8106	6	F	7	A	1	X-8
7558	1	E	2	A	1	X-3	8113	2	E	1	A	12	X-6
7561	8	G	5	A	4	X-4	8156	2	F	10	A	9	X-11
7581	8	E	5	A	4	X-4	8176*	11	F	9	A	1	
7586	8	E	4	A	10		8233#	7	E	8	A	11	X-2
7587	8	E	4	A	10	X-2	8298	6	E	5	A	4	X-3
7591	5	E	6	A	4	X-4	8417	8	E	5	A	4	
7607	1	E	5	A	4	X-3	9001	2	E	1	A	12	X-6
7630*	11	F	9	A	1		9002	2	E	6	A	12	
7643	8	E	9	A	1		9003	2	E	1	A	12	X-6
7643	7	E	2	A	1	X-3	9006*	2	E	1	A	12	
7687	8	E	9	A	1		B36	3	F	1	A	5	
7687	7	E	2	A	1	X-3	B36	6	F	4	A	5	
7695	7	H	6	A	1	X-1	B65	3	E	1	A	5	
7699	2	E	3	A	1	X-7	B65	6	E	4	A	5	
7699	2	E	1	A	1		B152	3	F	2	A	1	
7701	1	F	2	A	1	X-7	B152	8	F	7	A	1	
7716	1	F	2	A	1		B309	3	F	3	A	1	
7716	6	F	7	A	1	X-8	B309	8	F	7	A	1	
7717	2	E	1	A	12	X-6	B319	1	E	2	A	1	
7719	3	F	2	A	1		B319	7	E	6	A	1	
7721	1	E	2	A	1	X-9	B329	3	F	2	A	1	
7722	1	E	2	A	1	X-9	B329	8	F	7	A	1	
7724	7	F	8	B	1		B339	3	F	2	A	1	
7724*	1	F	6	A	1		B339	8	F	7	A	1	
7724*	3	F	2	A	1		B719	3	E	2	A	1	
7728	3	F	2	A	1		B719	8	E	7	A	1	
7728	8	F	7	A	1		BPMO4	2	E	1	A	12	X-6
7729	3	F	2	A	1		C3G	7	E	6	A	8	X-4
7729	8	F	7	A	1		C3M	7	G	6	A	8	X-4
7730	3	F	2	A	1		C30	7	E	6	A	8	X-4
7730	8	F	7	A	1		CCA	3	E	2	A	1	
7731	8	E	9	A	1		CCA	8	E	7	A	1	
7731	7	E	2	A	1		D2M9*	1	E	7	A	12	
7732	2	E	1	A	12	X-6	D2M9*	8	E	5	A	12	X-4
7733	1	F	2	A	1	X-8	D3A	1	E	2	A	1	X-9
7734	2	E	3	A	1		D63*	4	E	3	A	4	
7734	7	E	8	A	1	X-1	D63*	8	E	5	A	4	
7738	5	E	6	A	12		D77*	5	E	2	A	12	
7754	7	E	6	A	1	X-1	D77*	1	E	7	A	12	
7802	3	E	1	A	5		D152*	5	E	2	A	12	
7802	6	E	4	A	5		D152*	1	E	7	A	12	
7867	3	E	5	A	4	X-8	DA90*	3	B	2	C	13	
7868	3	E	2	A	11	X-1	DAC32	11	B	12	B	4	
7892	3	F	2	A	1		DAC32*	5	B	12	D	4	
7892	6	F	7	A	1		DAF26	6	B	12	B	8	Z-3
7895	8	E	4	A	10		DAF26*	4	B	12	D	8	



TUBE	X	Y	Z	W	Skt	G-2 Sht	TUBE	X	Y	Z	W	Skt	G-2 Sht
6670	5	E	4	A	9		7055	1	E	7	A	12	
6670	9	E	8	A	9		7056	2	E	1	A	12	X-6
6676	2	E	1	A	12	X-6	7057	3	F	2	A	1	
6677	1	E	2	A	1	X-3	7057	8	F	7	A	1	
6678	8	E	9	A	1		7058	3	F	2	A	1	
6678	7	E	2	A	1		7058	8	F	7	A	1	
6679	3	F	2	A	1		7059	8	E	9	A	1	
6679	8	F	7	A	1		7059	7	E	2	A	1	
6680	3	F	2	A	1		7060	1	E	2	A	1	
6680	8	F	7	A	1		7060	6	E	7	A	1	
6681	3	F	2	A	1		7061	7	F	3	A	1	X-8
6681	8	F	7	A	1		7062	3	F	2	A	1	
6686	3	E	2	A	1	X-8	7062	8	F	7	A	1	
6687	2	E	1	A	12	X-6	7105	3	E	1	A	5	
6688	1	E	2	A	1	X-9	7105	6	E	4	A	5	
6689	3	E	2	A	1	X-1	7119	6	F	7	A	1	
6760	3	G	2	A	1	X-7	7119	3	F	2	A	1	
6761	3	E	2	A	1	X-7	7137	2	E	1	A	12	
6829	3	F	2	A	1		7167	2	E	1	A	12	X-6
6829	3	F	7	A	1		7189	3	E	2	A	1	X-9
6870	1	F	2	A	1	X-8	7189A	3	E	2	A	1	X-9
6887*	5	E	2	A	12		7193	8	E	5	A	4	
6887*	1	E	7	A	12		7199	6	E	7	A	1	X-3
6893	1	E	5	A	4	X-2	7199	8	E	9	A	1	
6913	3	F	2	A	1		7236	3	E	1	A	5	
6913	8	F	7	A	1		7236	6	E	4	A	5	
6922	3	E	2	A	1		7244	7	E	5	A	12	
6922	8	E	7	A	1		7244	7	E	6	A	12	
6927	7	E	5	A	12		7245	2	E	1	A	12	
6927	7	E	6	A	12		7247	3	F	2	A	1	
6939	2	F	3	A	1	X-7	7247	8	F	7	A	1	
6939	2	F	1	A	1		7258	3	E	2	A	1	
6955	3	F	2	A	1		7258	9	E	8	A	1	X-7
6955	8	F	7	A	1		7308	3	F	2	A	1	
6968	2	E	1	A	12	X-6	7316	8	F	7	A	1	
6973	7	E	3	A	1	X-1	7318	3	F	2	A	1	
7000	8	E	11	A	4	X-4	7318	8	F	7	A	1	
7001	2	E	1	A	12	X-6	7320	3	E	2	A	1	X-9
7025	3	F	2	A	1		7355	5	E	6	A	4	X-8
7025	8	F	7	A	1		7360	1	E	3	A	1	X-2
7025A	3	F	2	A	1		7370	3	H	2	A	1	
7025A	8	F	7	A	1		7370	6	H	7	A	1	
7027	8	E	6	A	4	X-1	7408	8	E	5	A	4	X-4
7027A	8	E	6	A	4	X-1	7494	3	F	2	A	1	
7032	2	E	1	A	12	X-6	7494	8	F	7	A	1	
7036	2	E	1	A	12	X-6	7495	7	E	8	A	1	X-6
7044	3	F	2	A	1		7500	3	E	6	A	1	
7044	6	F	7	A	1		7500*	3	E	2	A	1	
7054	1	F	2	A	1	X-8	7500*	3	E	9	A	1	
7055	5	E	2	A	12		7500*	8	E	7	A	1	

TUBE	X	Y	Z	W	Skt	G-2 Sht	TUBE	X	Y	Z	W	Skt	G-2 Sht
6EW8	8	E	7	A	1		6FY5	1	E	2	A	12	
6EX6	3	E	5	A	4	X-8	6FY7	7	E	3	A	9	
6EY6	8	E	5	A	4	X-4	6FY7	9	E	10	A	9	
6EZ5	8	E	5	A	4	X-4	6FY8	8	E	1	A	1	
6EZ8	1	E	2	A	1		6FY8	2	E	3	A	1	X-7
6EZ8	7	E	12	A	1		6G6	8	E	5	A	4	X-4
6EZ8	9	E	12	A	1		6G11	2	E	3	A	9	X-7
6F5	8	E	11	A	4		6G11	9	E	8	A	9	X-10
6F6	8	E	5	A	4	X-4	6G-B3	8	E	5	A	4	X-4
6F8	4	E	11	A	4		6GB5#	3	E	2	A	11	X-6
6F8	8	E	5	A	4		6GC5	7	E	3	A	1	X-1
6F12	2	E	1	A	12	X-7	6GC6	3	E	5	A	4	X-4
6F18	3	E	2	A	1	X-8	6GD7	3	E	1	A	1	
6F19	3	E	2	A	1	X-8	6GD7	8	E	9	A	1	X-7
6F20	3	E	2	A	1	X-8	6GE5	4	E	3	A	9	X-2
6FA7	6	E	7	A	1	X-8	6GE8	2	E	3	A	1	
6FA7*	6	E	3	C	1		6GE8	7	E	8	A	1	X-1
6FD6	7	E	1	A	12	X-6	6GF5	4	E	3	A	9	X-2
6FD7	9	E	2	A	1		6GF7	3	E	2	A	11	
6FD7	8	E	7	A	1		6GF7	1	E	9	A	11	
6FD10	1	E	2	A	1		6GH8	8	E	9	A	1	
6FE5	8	E	5	A	4	X-4	6GH8	7	E	2	A	1	X-3
6FG5	2	E	1	A	12	X-6	6GJ5	3	E	2	A	11	X-1
6FG6	3	E	1	B	1		6GJ7	1	E	2	A	1	X-7
6FG7	3	E	1	A	1		6GJ7	1	E	9	A	1	
6FG7	8	E	9	A	1	X-7	6GJ8	8	E	9	A	1	
6FH5	1	E	2	A	12	X-6	6GJ8	7	E	2	A	1	X-3
6FH6	8	E	5	A	4	X-4	6GK5	1	E	2	A	12	
6FH8	2	E	12	A	1		6GK6	1	E	2	A	1	X-8
6FH8	6	E	12	A	1	Z-7	6GK7	1	E	2	A	1	X-8
6FJ7	7	E	3	A	9		6G-K17*	3	E	5	A	5	
6FJ7	9	E	10	A	9		6GL7	3	E	1	A	5	
6FM7	7	E	8	A	9		6GL7	6	E	4	A	5	
6FM7	9	E	10	A	9		6GM5	7	E	6	A	1	X-1
6FM8	7	E	8	A	1		6GM6	2	E	1	A	12	X-6
6FM8*	1	E	6	A	1		6GM8	3	E	2	A	1	
6FM8*	3	E	2	A	1		6GM8	8	E	7	A	1	
6FN5	3	E	4	A	4	X-1	6GN6	2	E	1	A	12	X-6
6FQ5	1	E	2	A	12		6GN8	1	E	2	A	1	
6FQ7	3	E	2	A	1		6GN8	6	E	7	A	1	X-8
6FQ7	8	E	7	A	1		6GQ7*	1	E	2	A	1	
6FR7	9	E	2	A	1		6GQ7*	7	E	6	A	1	
6FR7	8	E	7	A	1		6GQ7*	9	E	8	A	1	
6FS5	2	E	1	A	12	X-6	6GS8	1	E	7	A	1	X-2
6FV6	7	E	1	A	12	X-6	6GT5	3	E	2	A	11	X-1
6FV8	3	E	1	A	1		6GU5	2	E	1	A	12	X-6
6FV8	8	E	9	A	1		6GU7	3	E	2	A	1	
6FW5	3	E	1	A	4	X-8	6GU7	8	E	7	A	1	
6FW8	3	E	2	A	1		6GV5	4	E	5	A	9	X-3
6FX5	1	E	2	A	12	X-6	6GV7	8	E	9	A	1	



TUBE	X	Y	Z	W	Skt	G-2 Sht	TUBE	X	Y	Z	W	Skt	G-2 Sht
6GV7	8	E	7	A	1	X-2	6HM6	1	E	2	A	1	X-8
6GV8	3	E	2	A	1		6HQ5	2	E	1	A	12	
6GV8	8	E	9	A	1	X-7	6HR5	2	E	1	A	12	
6GW5	5	E	6	A	12		6HR6	7	E	1	A	12	X-6
6GW6	8	E	5	A	4	X-4	6HR8	3	E	9	A	1	X-1
6GW8	2	E	1	A	1		6HS5	4	E	2	A	9	
6GW8	7	E	8	A	1	X-3	6HS6	7	E	1	A	12	X-6
6GX6	2	E	1	A	12	X-6	6HS8	1	E	7	A	1	X-2
6GX7	1	E	9	A	1		6HT6	1	E	2	A	1	X-8
6GX7	1	E	2	A	1	X-7	6HU6	3	E	1	A	1	
6GY5	4	E	5	A	9	X-3	6HU8	7	E	2	A	1	X-1
6GY6	2	E	1	A	12	X-6	6HU8	7	E	6	A	1	X-9
6GY8	1	E	12	A	1		6HW8	7	E	6	A	1	X-3
6GY8	8	E	3	A	1		6HZ6	2	E	1	A	12	X-6
6GY8	7	E	12	A	1		6HZ8	1	E	2	A	1	
6GZ5	1	E	2	A	12	X-6	6HZ8	6	E	7	A	1	X-8
6H4*	8	E	4	A	4		6J4	2	E	1	A	12	
6H6*	4	E	3	A	4		6J5	8	E	5	A	4	
6H6*	8	E	5	A	4		6J6	7	E	5	A	12	
6HA5	2	E	1	A	12		6J6	7	E	6	A	12	
6HA6	1	E	2	A	1	X-8	6J7	8	E	11	A	4	X-4
6HA7	3	E	11	A	9		6J8	8	E	5	A	4	
6HA7	4	E	9	A	9		6J8	8	E	11	A	4	X-4
6HB5	4	E	3	A	9	X-2	6J9**	3	E	2	A	1	
6HB6	1	E	2	A	1	X-6	6J9**	10	E	9	A	1	
6HB7	3	E	2	A	1	X-7	6J9**	10	E	7	A	1	
6HB7	3	E	9	A	1		6J10	3	E	11	A	9	X-2
6HC8	8	E	1	A	1		6J10	8	E	6	C(S)9		
6HC8	2	E	3	A	1	X-7	6J11	6	E	5	A	9	X-9
6HD5	4	E	3	A	9	X-5	6J11	8	E	11	A	9	X-7
6HE5	4	E	2	A	9	X-3	6JA8	1	E	2	A	1	
6HE7	4	E	2	A	9		6JA8	6	E	7	A	1	X-8
6HE7	8	E	9	A	9	X-11	6JB6	3	E	2	A	11	X-1
6HF5	9	E	10	A	9	X-11	6JC6	1	E	2	A	1	X-8
6HF8	1	E	2	A	1		6JC8	1	E	8	A	1	
6HF8	6	E	7	A	1	X-8	6JC8	1	E	2	A	1	X-3
6HG5	2	E	1	A	12	X-6	6JD6	1	E	2	A	1	X-8
6HG7	2	E	1	A	12	X-6	6JE6	3	E	2	A	11	X-1
6HG8	3	E	6	A	1		6JE8	1	E	2	A	1	
6HG8	1	E	2	A	1	X-9	6JE8	6	E	7	A	1	X-8
6HJ5	2	E	3	A	9	X-5	6JF6	3	E	2	A	11	X-1
6HJ8	1	E	2	A	1	X-3	6JG6	3	E	2	A	11	X-1
6HJ8*	7	E	8	A	1		6JH6	2	E	1	A	12	X-6
6HK5	2	E	1	A	12		6JH8	7	E	6	A	1	
6HK8	3	E	2	A	1		6JK6	2	E	1	A	12	X-6
6HK8	8	E	7	A	1		6JK8	3	E	2	A	1	
6HL5	3	E	1	A	1	X-9	6JK8	8	E	7	A	1	
6HL8	7	E	2	A	1	X-3	6JL6	2	E	1	A	12	X-6
6HL8	8	E	9	A	1		6JL8	1	E	2	A	1	
6HM5	2	E	1	A	12		6JL8	6	E	7	A	1	X-8
							6JM6	2	E	5	A	9	X-3

TUBE	X	Y	Z	W	Skt	G-2 Sht	TUBE	X	Y	Z	W	Skt	G-2 Sht
6057	8	F	7	A	1		6180	3	E	1	A	5	
6058*	5	E	2	A	12		6180	6	E	4	A	5	
6058*	1	E	7	A	12		6185	2	E	1	A	12	X-6
6059	3	E	2	A	1	X-8	6186	2	E	1	A	12	X-6
6060	3	F	2	A	1		6187	3	E	1	A	5	
6060	8	F	7	A	1		6187	6	E	4	A	5	
6061	3	E	1	A	1		6188	3	E	1	A	5	
6063*	7	E	1	A	12		6188	6	E	4	A	5	
6063*	7	E	6	A	12		6189	3	F	2	A	1	
6064	2	E	1	A	12	X-7	6189	8	F	7	A	1	
6065	2	E	1	A	12	X-6	6197	1	E	2	A	1	X-3
6066	2	E	1	A	12		6201	3	F	2	A	1	
6066*	2	E	6	C	12		6201	8	F	7	A	1	
6066*	2	E	5	C	12		6202*	7	E	1	A	12	
6067	3	F	2	A	1		6202*	7	E	6	A	12	
6067	8	F	7	A	1		6203*	7	E	1	A	1	
6072	3	F	2	A	1		6203*	7	E	6	A	1	
6072	8	F	7	A	1		6211	3	F	2	A	1	
6080	3	E	1	A	5		6211	8	F	7	A	1	
6080	6	E	4	A	5		6216	3	E	2	A	1	X-7
6082	3	E	1	A	5		6227	3	E	2	A	1	X-8
6082	6	E	4	A	5		6265	2	E	1	A	12	X-6
6084	3	E	9	A	1	X-1	6267	3	E	9	A	1	X-1
6085	3	F	2	A	1		6336	3	E	1	A	5	
6085	8	F	7	A	1		6336	6	E	4	A	5	
6087*	4	D	12	B	6		6350	2	F	3	A	1	
6087*	6	D	12	B	6		6350	7	F	8	A	1	
6094	2	E	1	A	12	X-6	6360	2	F	3	A	1	X-7
6095	2	E	1	A	12	X-6	6360	2	F	1	A	1	
6096	2	E	1	A	12	X-6	6374*	3	E	11	A	1	
6097*	5	E	2	A	12		6394	3	E	1	A	5	
6097*	1	E	7	A	12		6394	6	E	4	A	5	
6099	7	E	5	A	12		6443*	3	E	11	A	1	
6099	7	E	6	A	12		6463	2	F	3	A	1	
6100	7	E	6	A	12		6463	7	F	8	A	1	
6101	7	E	5	A	12		6485	7	E	1	A	12	X-6
6101	7	E	6	A	12		6486	2	E	1	A	12	X-6
6106*	4	D	12	B	6		6516	2	E	1	A	12	X-7
6106*	6	D	12	B	6		6520	3	E	1	A	5	
6113	3	E	1	A	5		6520	6	E	4	A	5	
6113	6	E	4	A	5		6528	3	E	1	A	5	
6118	8	E	12	A	4		6528	6	E	4	A	5	
6118*	8	E	5	A	4		6550	8	E	5	A	4	X-4
6118*	8	E	4	A	4		6660	7	E	1	A	12	X-6
6132	3	E	2	A	1	X-8	6661	2	E	1	A	12	X-6
6134	5	E	4	A	4	X-3	6662	2	E	1	A	12	X-6
6135	7	E	6	A	12		6663	5	E	2	A	12	
6136	7	E	1	A	12	X-6	6663	1	E	7	A	12	
6137	5	E	4	A	4	X-6	6664	7	E	6	A	12	
6146	6	E	5	A	4	X-3	6669	2	E	1	A	12	X-6

TUBE	X	Y	Z	W	Skt	G-2 Sht	28 TUBE	X	Y	Z	W	Skt	G-2 Sht
1629	8	F	5	C	4		5763	7	E	8	A	1	X-6
1631	8	F	5	A	4	X-4	5814	3	F	2	A	1	
1632	8	F	5	A	4	X-4	5814	8	F	7	A	1	
1633	3	G	1	A	5		5824	8	G	5	A	4	X-4
1633	6	G	4	A	5		5838*	8	E	3	A	4	
1634	6	F	3	A	5		5838*	8	E	5	A	4	
1634	6	F	4	A	5		5839*	8	E	3	A	4	
1635	8	E	4	A	4		5839*	8	E	5	A	4	
1635	8	E	5	A	4		5844	7	E	5	A	12	
1639	7	E	3	A	8		5844	7	E	6	A	12	
1639*	7	E	5	C	8		5845*	1	D	12	A	12	
1639*	7	E	6	C	8		5845*	5	D	12	A	12	
1852	5	E	4	A	4	X-6	5852*	8	E	3	A	4	
1853	5	E	4	A	4	X-6	5852*	8	E	5	A	4	
2050	8	E	5	A	4	X-6	5871	8	E	5	A	4	X-4
4604	5	E	12	A	4	Z-3	5879	3	E	1	A	1	X-7
5187	8	E	5	A	4	X-4	5881	8	E	5	A	4	X-4
5516	5	E	12	A	4	Z-3	5910	6	B	12	B	13	Z-3
5590	2	E	1	A	12		5915	2	E	1	A	12	X-6
5591	2	E	1	A	12		5920	7	E	5	A	12	
5595	2	E	1	A	12		5920	7	E	6	A	12	
5610	7	E	6	A	12		5929	7	E	5	A	12	
5618	6	E	12	A	13	Z-3	5929	7	E	6	A	12	
5626*	5	E	2	A	12		5931*	4	D	12	B	6	
5626*	1	E	7	A	12		5931*	6	D	12	B	6	
5654	2	E	1	A	12	X-6	5932	8	E	5	A	4	X-4
5679*	2	E	3	A	8		5961	6	E	5	A	4	X-4
5679*	7	E	6	A	8		5963	3	F	2	A	1	
5686	1	E	2	A	1	X-6	5963	8	F	7	A	1	
5687	3	E	2	A	1		5964	7	E	5	A	12	
5687	6	E	7	A	1		5964	7	E	6	A	12	
5691	6	E	4	A	5		5965	3	F	2	A	1	
5691	3	E	1	A	5		5965	8	F	7	A	1	
5692	3	E	1	A	5		5993*	7	E	1	A	12	
5692	6	E	4	A	5		5993*	7	E	6	A	12	
5693	5	E	4	A	4	X-6	5998	3	E	1	A	5	
5694	1	E	4	A	4		5998	6	E	4	A	5	
5694	8	E	5	A	4		6000	3	G	1	A	4	X-8
5696	2	E	1	A	12	X-5	6004*	4	D	12	B	6	
5725	2	E	1	A	12	X-6	6004*	6	D	12	B	6	
5726*	5	E	2	A	12		6005	2	E	1	A	12	X-6
5726*	1	E	7	A	12		6006	3	E	4	A	12	X-6
5727	2	E	1	A	12	X-5	6028	2	E	1	A	12	X-6
5732	8	E	11	A	4	X-4	6042	3	E	1	A	5	
5749	7	E	1	A	12	X-6	6042	6	E	4	A	5	
5750	2	E	1	A	12	X-6	6045	7	E	5	A	12	
5751	3	F	2	A	1		6045	7	E	6	A	12	
5751	8	F	7	A	1		6046	8	G	5	A	4	X-4
5755	3	E	1	A	5		6054	8	E	11	A	4	X-4
5755	6	E	4	A	5		6057	3	F	2	A	1	

TUBE	X	Y	Z	W	Skt	G-2 Sht	13 TUBE	X	Y	Z	W	Skt	G-2 Sht
6JN6	2	E	11	A	9	X-8	6KU8	6	E	7	A	1	X-8
6JN8	3	E	1	A	1		6KU8*	1	E	2	B	1	
6JN8	8	E	9	A	1	X-7	6KU8*	1	E	3	B	1	
6JS6	2	E	5	A	9	X-3	6KV6	3	E	2	A	11	X-1
6JT6	3	E	2	A	11	X-7	6KV8	1	E	2	A	1	
6JT8	1	E	2	A	1		6KV8	6	E	7	A	1	X-8
6JT8	6	E	7	A	1	X-8	6KX8	2	E	1	A	1	
6JU6	3	E	2	A	11	X-1	6KX8	8	E	9	A	1	
6JU8*	2	E	1	A	1		6KY8	1	E	9	A	11	
6JU8*	3	E	2	A	1		6KY8	3	E	2	A	11	X-7
6JU8*	8	E	7	A	1		6KZ8	3	E	2	A	1	X-7
6JU8*	9	E	8	A	1		6KZ8	8	E	9	A	1	
6JV8	1	E	2	A	1		6L5	8	E	5	A	4	
6JV8	6	E	7	A	1	X-8	6L6	8	E	5	A	4	X-4
6JW8	8	E	9	A	1		6L7	8	E	11	A	4	X-4
6JW8	7	E	2	A	1	X-3	6L12	3	E	2	A	1	
6JX8	3	E	9	A	1		6L12	8	E	7	A	1	
6JX8	3	E	2	A	1	X-7	6L13	3	F	2	A	1	
6JZ6	2	E	5	A	9	X-3	6L13	8	F	7	A	1	
6JZ8	6	E	9	A	9	X-8	6L34	2	E	1	A	12	
6JZ8	11	E	10	A	9		6LB6	2	E	5	A	9	X-3
6K5	8	E	11	A	4		6LB8	1	E	2	A	1	
6K6	8	E	5	B	4	X-4	6LB8	6	E	7	A	1	X-8
6K7	8	E	11	A	4	X-4	6LC6	6	E	5	B	4	
6K8	8	E	5	A	4	X-4	6LC8	3	E	2	A	1	
6K11	3	E	11	A	9		6LC8	7	E	1	A	1	X-8
6K11	6	E	7	A	9		6LD12	7	E	8	A	1	
6K11	4	E	9	A	9		6LD12*	7	E	6	A	1	
6KA8	3	E	2	A	1		6LD12*	7	E	1	A	1	
6KA8	3	E	6	A	1	X-8	6LD12*	3	E	2	A	1	
6KD6	2	E	5	A	9	X-3	6LE8	3	E	9	A	1	
6KD8	7	E	2	A	1	X-3	6LF8	1	E	2	A	1	
6KD8	8	E	9	A	1		6LF8	6	E	7	A	1	X-8
6KE8	7	E	2	A	1	X-3	6LJ8	3	E	1	A	1	
6KE8	8	E	9	A	1		6LJ8	3	E	9	A	1	X-7
6KG6#	9	E	1	A	11	X-3	6LM8	7	E	2	A	1	X-3
6KL8	3	E	2	A	1	X-6	6LM8	8	E	9	A	1	
6KL8*	3	E	8	C	1		6LN8	8	E	9	A	1	
6KM6	3	E	2	A	11	X-1	6LN8	7	E	2	A	1	X-3
6KM8	6	E	7	A	1	X-8	6LQ8	1	E	2	A	1	
6KM8*	6	E	3	C	1		6LQ8	6	E	7	A	1	X-8
6KN6	2	E	5	A	9	X-3	6LR8	1	E	9	A	11	
6KN8	3	E	2	A	1		6LR8	3	E	2	A	11	X-7
6KN8	8	E	7	A	1		6LT8	1	E	9	A	1	X-2
6KR8	1	E	2	A	1		6LT8*	7	E	8	A	1	
6KR8	6	E	7	A	1	X-8	6LT8*	7	E	6	A	1	
6KS6	1	E	5	B(S)	12	X-2	6LU8	11	E	10	A	9	
6KS8	1	E	2	A	1		6LU8	9	E	6	A	9	X-8
6KS8	6	E	7	A	1	X-8	6LX8	8	E	9	A	1	
6KT8	1	E	2	A	1		6LX8	7	E	2	A	1	X-3
6KT8	6	E	7	A	1	X-8	6LY8	1	E	2	A	1	
							6LY8	6	E	7	A	1	X-8

TUBE	X	Y	Z	W	Skt	G-2 Sht	14 TUBE	X	Y	Z	W	Skt	G-2 Sht
6M2	8	E	4	D	4		6R8*	7	E	1	A	1	
6M3*	11	E	3	A	6		6R8*	7	E	6	A	1	
6M5	3	E	2	A	1	X-9	6R8*	3	E	2	A	1	
6M6	8	E	5	A	4	X-4	6R-HH2	3	E	2	A	1	
6M11	10	E	2	A	9	X-3	6R-HH2	8	E	7	A	1	
6M11	4	E	5	A	9		6R-HH8	3	E	2	A	1	
6M11	9	E	8	A	9		6R-HH8	8	E	7	A	1	
6MB8	3	E	1	A	1		6R-K19*	11	E	9	A	1	
6MB8	8	E	9	A	1	X-7	6R-P22	1	E	2	A	1	X-3
6MD8	7	E	6	A	11		6S2*	6	E	11	A	1	
6MD8	7	E	8	A	11		6S4	2	E	3	A	1	
6MD8	7	E	9	A	11		6S7	8	E	11	A	4	X-4
6ME8	7	E	6	A	1	X-3	6S8	2	E	11	A	5	
6MG8	7	E	2	A	1	X-3	6S8*	2	E	1	C	5	
6MG8	8	E	9	A	1		6S8*	2	E	4	C	5	
6M-HH3	7	E	5	A	12		6S8*	5	E	3	C	5	
6M-HH3	7	E	6	A	12		6SA7	6	E	5	A	4	X-4
6N3*	3	E	9	A	1		6SB7Y	6	E	5	A	4	X-4
6N4	2	E	1	A	12		6SC7	6	E	3	A	5	
6N6	8	E	5	A	4		6SC7	6	E	4	A	5	
6N7	8	E	4	A	4		6SD7	5	E	4	A	4	X-6
6N7	8	E	5	A	4		6SE7	5	E	4	A	4	X-6
6N8	3	E	2	A	1	X-1	6SF5	2	E	3	A	5	
6N8*	3	E	7	A	1		6SF7	3	E	2	A	5	X-4
6N8*	3	E	8	A	1		6SF7*	3	E	5	C	5	
6N8K	3	E	2	A	1	X-1	6SG7	3	E	4	A	4	X-6
6N8K*	3	E	7	C	1		6SH7	3	E	4	A	4	X-6
6N8K*	3	E	8	C	1		6SH8	7	E	1	A	1	
6P5	8	E	5	A	4		6SJ7	5	E	4	A	4	X-6
6P8G	8	E	5	A	4		6SK7	5	E	4	A	4	X-6
6P8G	8	E	11	A	4	X-4	6SL7	3	E	1	A	5	
6P9	2	E	1	A	12	X-6	6SL7	6	E	4	A	5	
6P15	3	E	2	A	1	X-9	6SN7	3	E	1	A	5	
6P25	8	E	5	A	4	X-4	6SN7	6	E	4	A	5	
6PX6	8	E	5	A	4	X-4	6SQ7	3	E	2	A	5	
6Q4	3	E	2	A	1		6SQ7*	3	E	4	C	5	
6Q6	8	E	11	A	4		6SQ7*	3	E	5	C	5	
6Q6*	8	E	5	C	4		6SR7	3	E	2	A	5	
6Q7	8	E	11	A	4		6SR7*	3	E	4	C	5	
6Q7*	8	E	4	C	4		6SR7*	3	E	5	C	5	
6Q7*	8	E	5	C	4		6SS7	5	E	4	A	4	X-6
6Q11	3	E	11	A	9		6ST7	3	E	2	A	5	
6Q11	4	E	9	A	9		6ST7*	3	E	4	C	5	
6Q11	6	E	7	A	9		6ST7*	3	E	5	C	5	
6R3*	11	E	9	A	1		6SU7	3	E	1	A	5	
6R4	3	E	1	A	1		6SU7	6	E	4	A	5	
6R6	8	E	11	A	4	X-3	6SV7	3	E	2	A	5	X-4
6R7	8	E	11	A	4		6SV7*	3	E	5	A	5	
6R7*	8	E	4	C	4		6SZ7	3	E	2	A	5	
6R7*	8	E	5	C	4		6SZ7*	3	E	4	C	5	
6R8	7	E	8	A	1		6SZ7*	3	E	5	C	5	
							6T4	5	E	6	A	12	

TUBE	X	Y	Z	W	Skt	G-2 Sht	27 TUBE	X	Y	Z	W	Skt	G-2 Sht
50FK5	1	H	2	A	12	X-6	117P7*	8	J	12	A	4	
50FY8	8	H	1	A	1		117Z3*	6	J	5	A	12	
50FY8	2	H	3	A	1	X-7	117Z4*	8	J	5	A	4	
50HC6	1	H	2	A	12	X-5	117Z6*	4	J	3	A	4	
50HK6	1	H	2	A	12	X-5	117Z6*	8	J	5	A	4	
50HN5	3	H	1	A	1	X-9	141TH*	7	F	5	C	8	
50JY6	8	H	5	A	4	X-4	141TH*	7	F	6	C	8	
50L6	8	H	5	A	4	X-4	163	3	F	2	A	1	X-9
50X6*	2	H	3	A	8		171DDP	3	F	2	A	1	X-1
50X6*	7	H	6	A	8		171DDP*	3	F	7	B	1	
50Y6*	4	H	3	A	4		171DDP*	3	F	8	B	1	
50Y6*	8	H	5	A	4		213	3	G	2	A	1	X-8
50Y7*	4	H	3	A	4		274B*	4	D	12	A	6	
50Y7*	8	H	5	A	4		274B*	6	D	12	A	6	
50Z6*	4	H	5	A	4		401A	2	E	1	A	12	X-6
50Z6*	8	H	5	A	4		403B	2	E	1	A	12	X-6
50Z7*	4	H	3	A	4		408A	2	E	1	A	12	X-6
50Z7*	8	H	5	A	4		421A	3	E	1	A	5	
52KU*	4	D	12	A	6		421A	6	E	4	A	5	
52KU*	6	D	12	A	6		1201	4	E	1	A	6	
53KU*	4	D	12	A	6		1203A*	7	E	4	B	8	
53KU*	6	D	12	A	6		1204	4	E	5	A	4	X-1
54KU*	4	D	12	A	6		1206	7	E	4	A	8	X-3
54KU*	6	D	12	A	6		1206	7	E	5	A	8	
55N3*	3	H	9	A	1		1216	7	E	5	A	12	
56R9	4	H	3	A	9		1216	7	E	6	A	12	
56R9	10	H	9	A	9	X-11	1217	2	E	1	A	12	X-6
58HE7*	4	H	2	A	9		1223	8	E	11	A	4	X-4
58HE7	8	H	9	A	9	X-11	1231	7	E	6	A	8	X-3
60FX5	1	H	2	A	12	X-6	1232	7	E	6	A	8	X-3
60HL5	3	H	1	A	1	X-9	1238	6	G	2	A	8	X-3
63T1	3	E	2	A	1		1238	6	G	7	A	8	
63T1	3	E	9	A	1	X-8	1273	7	E	6	A	8	X-3
63TP	3	E	2	A	1		1274*	8	E	3	A	4	
63TP	3	E	9	A	1	X-8	1274*	8	E	5	A	4	
64ME	8	E	4	D	4		1280	7	F	6	A	8	X-3
64SPT	3	E	2	A	1	X-8	1284	7	F	6	A	8	X-3
65ME	2	E	1	A	1		1291	3	C	12	A	8	
70A7	8	H	5	A	4	X-4	1291	6	C	12	A	8	
70A7*	1	E	6	A	4		1294	7	B	4	C	8	
70L6	8	H	5	A	4	X-4	1299	6	B	12	A	8	X-3
70L7	6	H	5	A	4	X-4	1560*	4	D	12	B	6	
70L7*	1	H	8	A	4		1560*	6	D	12	B	6	
117L7	8	J	4	A	4	X-5	1611	8	E	5	A	4	X-4
117L7	1	J	6	A	4		1612	8	E	11	A	4	X-4
117M7	8	J	4	A	4	X-5	1614	8	E	5	A	4	X-4
117M7*	1	J	6	A	4		1620	8	E	11	A	4	X-4
117N7	6	J	4	A	4	X-5	1621	8	E	5	A	4	X-4
117N7*	8	J	12	A	4		1622	8	E	5	A	4	X-4
117P7	6	J	4	A	4	X-5	1626	8	F	5	A	4	



TUBE	X	Y	Z	W	Skt	G-2 Sht	26 TUBE	X	Y	Z	W	Skt	G-2 Sht
26BK6	2	G	1	A	12		33JV6	2	G	11	A	9	X-3
26BK6*	2	G	5	C	12		34CD3*	7	G	4	A	9	
26BK6*	2	G	6	C	12		34CE3	7	G	4	A	9	
26C6	2	G	1	A	12		34GD5	1	G	2	A	12	X-6
26C6*	2	G	5	C	12		35A5	7	G	6	A	8	X-3
26C6*	2	G	6	C	12		35B5	2	G	1	A	12	X-6
26CG6	7	G	1	A	12	X-6	35C5	1	G	2	A	12	X-6
26D6	2	G	1	A	12	X-6	35CD6	3	G	5	A	4	X-8
26Z5W*	3	G	1	A	1		35DZ8	8	G	1	A	1	
26Z5W*	8	G	6	A	1		35DZ8	2	G	3	A	1	X-7
27GB5#	3	G	2	A	11	X-6	35EH5	1	G	2	A	12	X-6
27KG6#	9	G	1	A	11	X-3	35GL6	1	G	2	A	12	X-5
28D7	6	G	2	A	8	X-3	35HB8	2	G	1	A	1	
28D7	6	G	7	A	8		35HB8	8	G	9	A	1	X-6
28GB5#	3	G	2	A	11	X-6	35L6	8	G	5	A	4	X-4
28HA6	1	G	2	A	1	X-6	35W4*	7	G	5	A	12	
28HD5	4	G	3	A	9	X-5	35Y4*	7	G	2	A	8	
28Z5*	7	G	3	A	8		35Z3*	7	G	2	A	8	
28Z5*	7	G	6	A	8		35Z4*	8	G	5	A	4	
29GK6	1	G	2	A	1	X-8	35Z5*	8	G	5	A	4	
29KQ6#	9	G	1	A	11	X-3	35Z6*	4	G	3	A	4	
30A5	1	G	2	A	12	X-6	35Z6*	8	G	5	A	4	
30AE3*	11	G	9	A	1		36AM3*	7	G	5	A	12	
30AG11	2	G	3	A	9		38A3*	3	H	9	A	1	
30AG11	11	G	10	A	9		38HE7*	4	G	2	A	9	
30AG11	4	G	5	A	9		38HE7	8	G	9	A	9	X-11
30AG11	9	G	8	A	9		38HK7*	4	G	2	A	9	
30C1	8	E	1	A	1		38HK7	8	G	9	A	9	X-11
30C1	2	E	3	A	1	X-7	40FR5	1	H	2	A	12	X-6
30CW5	3	G	2	A	1	X-9	40KD6	2	H	5	A	9	X-3
30F5	3	E	2	A	1	X-8	40Z5	1	H	2	A	12	X-6
30HD5	4	G	3	A	9	X-5	42KN6	2	H	5	A	9	X-3
30HJ5	2	G	3	A	9	X-5	45B5	3	H	2	A	1	X-9
30L1	1	E	2	A	1		45Z3*	4	H	2	A	12	
30L1	7	E	6	A	1		45Z5*	8	H	5	A	4	
30P4	8	G	5	A	4	X-4	50A5	7	H	6	A	8	X-3
30P16	3	F	2	A	1	X-9	50AX6*	4	H	3	A	4	
30P18	3	F	2	A	1	X-9	50AX6*	8	H	5	A	4	
30PL1	8	F	1	A	1		50B5	2	H	1	A	12	X-6
30PL1	2	F	3	A	1	X-7	50BK5	6	H	7	A	1	X-8
30PL13	8	F	1	A	1		50BM8	8	H	9	A	1	
30PL13	2	F	3	A	1	X-7	50BM8	2	H	3	A	1	X-7
31JS6	2	G	5	A	9	X-3	50C5	1	H	2	A	12	X-6
32ET5	1	G	2	A	12	X-6	50C6	8	H	5	A	4	X-4
32L7	8	G	5	A	4	X-4	50CA5	1	H	2	A	12	X-6
32L7*	1	G	6	A	4		50CD6	3	H	5	A	4	X-8
33GT7	8	G	9	A	9	X-10	50DC4*	7	H	5	A	12	
33GT7*	4	G	2	A	9		50EH5	1	H	2	A	12	X-6
33GY7	8	G	9	A	9	X-11	50FA5	1	H	2	A	12	X-6
33GY7*	4	G	2	A	9		50FE5	8	H	5	A	4	X-4

TUBE	X	Y	Z	W	Skt	G-2 Sht	15 TUBE	X	Y	Z	W	Skt	G-2 Sht
6T7	8	E	11	A	4		6Y6	8	E	5	A	4	X-4
6T7*	8	E	4	C	4		6Y7	8	E	4	A	4	
6T7*	8	E	5	C	4		6Y7	8	E	5	A	4	
6T8	7	E	8	A	1		6Y9	2	E	1	A	3	X-3
6T8*	7	E	1	A	1		6Y9	7	E	8	A	3	X-9
6T8*	7	E	6	A	1		6Y10	9	E	8	A	9	X-10
6T8*	3	E	2	A	1		6Y10	2	E	3	A	9	X-6
6T9	5	E	4	A	9		6Z7	8	E	4	A	4	
6T9	9	E	8	A	9	X-10	6Z7	8	E	5	A	4	
6T10	2	E	3	A	9	X-6	6Z10	8	E	6	C(S)	9	
6T10	9	E	8	A	9	X-10	6Z10	3	E	11	A	9	X-2
6U3*	3	E	9	A	1		6ZY5*	8	E	3	A	4	
6U4*	3	E	5	A	5		6ZY5*	8	E	5	A	4	
6U6	8	E	5	A	4	X-4	7A4	7	E	6	A	8	
6U7	8	E	11	A	4	X-4	7A5	7	E	6	A	8	X-3
6U8	8	E	9	A	1		7A6*	2	E	3	A	8	
6U9	2	E	3	A	3	X-3	7A6*	7	E	6	A	8	
6U9	1	E	10	A	3		7A7	7	E	6	A	8	X-3
6U9	2	E	3	A	1	X-8	7A8	7	E	4	A	8	X-3
6U10	3	E	11	A	9		7AB7	4	E	5	A	4	X-1
6U10	6	E	7	A	9		7AD7	7	E	6	A	8	X-3
6U10	4	E	9	A	9		7AF7	2	E	4	A	8	
6V3*	11	E	9	A	1		7AF7	7	E	5	A	8	
6V4*	3	E	1	A	1		7AG7	7	E	6	A	8	X-3
6V4*	3	E	7	A	1		7AH7	7	E	6	A	8	X-3
6V5	5	E	12	A	5	Z-4	7AJ7	7	E	6	A	8	X-3
6V6	8	E	5	A	4	X-4	7AK7	7	E	6	A	8	X-3
6V7	8	E	11	A	4		7AN7	1	E	2	A	1	
6V7*	8	E	4	C	4		7AN7	7	E	6	A	1	
6V7*	8	E	5	C	4		7AU7	3	E	2	A	1	
6V8	3	E	6	A	1		7AU7	8	E	7	A	1	
6V8*	3	E	2	A	1		7B4	7	E	6	A	8	
6V8*	3	E	9	A	1		7B5	7	E	6	A	8	X-3
6V8*	8	E	7	A	1		7B6	7	E	3	A	8	
6V9	1	E	3	A	3	X-4	7B6*	7	E	5	C	8	
6V9	9	E	8	A	3		7B6*	7	E	6	C	8	
6W4*	3	E	5	A	5		7B7	7	E	6	B	8	X-3
6W5*	8	E	3	A	4		7B8	7	E	4	A	8	X-3
6W5*	8	E	5	A	4		7C4*	7	E	4	B	8	
6W6	8	E	5	A	4	X-4	7C5	7	E	6	A	8	X-3
6W7	8	E	11	A	4	X-4	7C6	7	E	3	A	8	
6X4*	7	E	1	A	12		7C6*	7	E	5	C	8	
6X4*	7	E	6	A	12		7C6*	7	E	6	C	8	
6X5*	8	E	3	A	4		7C7	7	E	6	A	8	X-3
6X5*	8	E	5	A	4		7D7	7	E	6	A	8	X-5
6X8	6	E	2	A	1		7D9	2	E	1	A	12	X-7
6X8	6	E	7	A	1	X-8	7DE7	3	E	2	A	1	X-8
6X9	2	E	3	A	3	X-8	7DJ8	3	E	2	A	1	
6X9	1	E	10	A	3		7DJ8	8	E	7	A	1	
6Y3*	11	E	12	B(S)	4		7E6	7	E	3	A	8	

TUBE	X	Y	Z	W	Skt	G-2 Sht	16 TUBE	X	Y	Z	W	Skt	G-2 Sht
7E6*	7	E	5	C	8		8AC9*	4	E	2	A	9	
7E6*	7	E	6	C	8		8AC9*	4	E	3	A	9	
7E7	7	E	6	A	8	X-5	8AC9	8	E	9	A	9	X-10
7E7*	7	E	3	C	8		8AR11	6	E	5	A	9	X-3
7E7*	7	E	4	C	8		8AR11	11	E	10	A	9	X-9
7EK7	1	E	2	A	1		8AU8	1	E	2	A	1	
7EK7	7	E	6	A	1		8AU8	6	E	7	A	1	X-8
7ES8	3	E	2	A	1		8AW8	1	E	2	A	1	
7ES8	8	E	7	A	1		8AW8	6	E	7	A	1	X-8
7EY6	8	E	5	A	4	X-4	8B8	8	E	1	A	1	
7F7	2	E	4	A	8		8B8	2	E	3	A	1	X-7
7F7	7	E	5	A	8		8B10	2	E	3	A	9	
7G7	7	E	6	A	8	X-3	8B10	7	E	5	A	9	
7G8	7	E	4	A	8	X-3	8B10*	9	E	8	A	9	
7G8	7	E	5	A	8		8B10*	9	E	10	A	9	
7GS7	3	E	1	A	1		8BA8	1	E	2	A	1	
7GS7	8	E	9	A	1	X-7	8BA8	6	E	7	A	1	X-8
7GV7	8	E	9	A	1		8BA11	8	E	4	A	9	X-3
7GV7	8	E	7	A	1	X-2	8BA11	10	E	9	A	9	
7H7	7	E	6	A	8	X-3	8BH8	1	E	2	A	1	
7HG8	3	E	6	A	1		8BH8	6	E	7	A	1	X-8
7HG8	1	E	2	A	1	X-9	8BM11	5	E	6	A	9	X-3
7J7	7	E	4	A	8		8BM11	10	E	11	A	9	X-9
7J7	7	E	6	A	8	X-5	8BN8	9	E	8	A	1	
7K7	2	E	4	A	8		8BN8*	3	E	6	A	1	
7K7*	7	E	5	C	8		8BN8*	2	E	1	A	1	
7K7*	7	E	6	C	8		8BQ5	3	E	2	A	1	X-9
7L7	7	E	6	A	8	X-3	8BQ7	3	E	2	A	1	
7N7	2	E	4	A	8		8BQ7	8	E	7	A	1	
7N7	7	E	5	A	8		8BQ11	6	E	5	A	9	X-3
7Q7	7	E	4	A	8	X-3	8BQ11	11	E	10	A	9	X-9
7R7	7	E	6	A	8	X-5	8BU11	2	E	4	A	9	
7R7*	7	E	3	C	8		8BU11	5	E	6	A	9	
7R7*	7	E	4	C	8		8BU11	11	E	8	A	9	X-9
7S7	7	E	4	A	8		8CG7	3	E	2	A	1	
7S7	7	E	6	A	8	X-5	8CG7	8	E	7	A	1	
7T7	7	E	6	A	8	X-3	8CM7	3	E	7	A	1	
7V7	7	E	6	A	8	X-3	8CM7	9	E	8	A	1	
7W7	7	E	6	A	8	X-3	8CN7	6	E	7	A	1	
7X6*	2	E	3	A	8		8CN7*	3	E	1	A	1	
7X6*	7	E	6	A	8		8CN7*	3	E	2	A	1	
7X7	4	E	3	A	8		8CS7	9	E	3	A	1	
7X7*	4	E	5	A	8		8CS7	8	E	7	A	1	
7X7*	7	E	6	A	8		8CW5	3	F	2	A	1	X-9
7Y4*	7	E	3	A	8		8CX8	1	E	2	A	1	
7Y4*	7	E	6	A	8		8CX8	6	E	7	A	1	X-8
7Z4*	7	E	3	A	8		8CY7	8	E	7	A	1	
7Z4*	7	E	6	A	8		8CY7	9	E	3	A	1	
8A8	8	E	9	A	1		8D3	2	E	1	A	12	X-7
8A8	7	E	2	A	1	X-3	8D4	8	E	11	A	4	X-4

TUBE	X	Y	Z	W	Skt	G-2 Sht	25 TUBE	X	Y	Z	W	Skt	G-2 Sht
19T8	7	G	8	A	1		22KM6	3	G	2	A	11	X-1
19T8*	7	G	1	A	1		23JS6	2	G	5	A	9	X-3
19T8*	7	G	6	A	1		23Z9	7	G	3	A	9	
19T8*	3	G	2	A	1		23Z9	7	G	10	A	9	
19U3*	3	G	9	A	1		23Z9	7	G	8	A	9	X-9
19V8	3	G	6	A	1		24JE6	3	G	2	A	11	X-1
19V8*	3	G	2	A	1		25A6	8	G	5	A	4	X-4
19V8*	3	G	9	A	1		25A7	8	G	5	A	4	X-4
19V8*	8	G	7	A	1		25A7*	1	G	6	A	4	
19W3*	3	G	9	A	1		25AC5	8	G	5	A	4	
19X3*	3	G	9	A	1		25AU4*	3	G	5	A	5	
19X8	6	G	2	A	1		25AV5	3	G	1	A	4	X-8
19X8	6	G	7	A	1	X-8	25AX4*	3	G	5	A	5	
19Y3*	3	G	9	A	1		25B6	8	G	5	A	4	X-4
20AQ3*	11	G	9	A	1		25B8	6	G	8	A	4	
20D4	3	E	9	A	1		25B8	1	G	11	A	4	X-4
20D4	3	E	2	A	1	X-1	25BK5	6	G	7	A	1	X-8
20EG7	3	G	1	A	5		25BQ6	8	G	5	A	4	X-4
20EG7	6	G	4	A	5		25BR3*	11	G	9	A	1	
20EQ7	3	G	2	A	1	X-6	25C5	1	G	2	A	12	X-6
20EQ7*	3	G	8	B	1		25C6	8	G	5	A	4	X-4
20EW7	8	G	7	A	1		25CA5	1	G	2	A	12	X-6
20EW7	2	G	9	A	1		25CD6	3	G	5	A	4	X-8
20EZ7	4	G	5	A	2		25CG3*	7	G	4	A	9	
20EZ7	9	G	8	A	2		25CG6	7	G	1	A	12	X-6
21A6	3	G	2	A	1	X-8	25CU6	6	G	7	A	1	X-8
21AK6	7	G	1	A	12	X-6	25D4*	3	G	5	A	5	
21EF6	8	G	5	A	4	X-4	25D8	1	G	5	A	4	
21EX6	3	G	5	A	4	X-8	25D8	1	G	11	A	4	X-4
21GV5	4	G	5	A	9	X-3	25D8*	1	G	8	A	4	
21GY5	4	G	5	A	9	X-3	25DK4*	7	G	5	A	12	
21HB3	1	G	2	A	1		25DN6	3	G	5	A	4	X-8
21HB5	4	G	3	A	9	X-2	25DQ6	8	G	5	A	4	X-4
21HD5	4	G	3	A	9	X-5	25DT5	7	G	6	A	1	X-1
21HJ5	2	G	3	A	9	X-5	25E5	8	G	5	A	4	X-4
21JV6	2	G	11	A	9	X-3	25EC6	3	G	5	A	4	X-8
21JZ6	2	G	5	A	9	X-3	25EH5	1	G	2	A	12	X-6
21KA6	10	G	5	A	9	X-3	25F5	1	G	2	A	12	X-6
21KQ6#	9	G	1	A	11	X-3	25FY8	8	G	1	A	1	
21LR8	1	G	9	A	11		25FY8	2	G	3	A	1	X-7
21LR8	3	G	2	A	11	X-7	25L6	8	G	5	A	4	X-4
21LU8	11	G	10	A	9		25N6	8	G	5	A	4	
21LU8	9	G	6	A	9	X-8	25W4*	3	G	5	A	5	
22BH3*	9	G	7	A	11		25W6	8	G	5	A	4	X-4
22BW3*	7	G	4	A	9		25X6*	4	G	3	A	4	
22BW6	3	G	1	A	1	X-8	25X6*	8	G	5	A	4	
22DE4*	3	G	5	A	5		25Z4*	8	G	5	A	4	
22JF6	3	G	2	A	11	X-1	25Z6*	4	G	3	A	4	
22JG6	3	G	2	A	11	X-1	25Z6*	8	G	5	A	4	
22JU6	3	G	2	A	11	X-1	26A6	7	G	1	A	12	X-6



TUBE	X	Y	Z	W	Skt	G-2 Sht	24 TUBE	X	Y	Z	W	Skt	G-2 Sht
17CK3*	9	F	7	A	11		18GD6	7	G	1	A	12	X-6
17CL3*	9	F	2	A	11		18GE6	2	G	1	A	12	
17CU5	1	F	2	A	12	X-6	18GE6*	2	G	5	C	12	
17D4*	3	F	5	A	5		18GE6*	2	G	6	C	12	
17DE4*	3	F	5	A	5		18GV8	3	G	2	A	1	
17DG6	8	F	5	A	4	X-4	18HB8	2	G	1	A	1	
17DM4*	3	F	5	A	5		18HB8	8	G	9	A	1	X-6
17DQ4*	3	F	5	A	5		19AJ8	3	G	9	A	1	
17DQ6	8	F	5	A	4	X-4	19AJ8	3	G	2	A	1	X-1
17DW4*	9	F	7	A	11		19AQ5	2	G	1	A	12	X-6
17EW8	3	F	2	A	1		19AU4*	3	G	5	A	5	
17EW8	8	F	7	A	1		19BD*	3	G	9	A	1	
17FY7	7	F	3	A	9		19BG6	3	G	5	A	4	X-8
17FY7	9	F	10	A	9		19BR5	2	G	1	A	1	
17GE5	4	F	3	A	9	X-2	19C8	7	G	8	A	1	
17GJ5	3	F	2	A	11	X-1	19C8*	7	G	1	A	1	
17GT5	3	F	2	A	11	X-1	19C8*	7	G	6	A	1	
17GT6	1	F	2	A	1		19C8*	3	G	2	A	1	
17GV5	4	F	5	A	9	X-3	19CL8	3	G	1	A	1	
17GW6	8	F	5	A	4	X-4	19CL8	8	G	9	A	1	X-7
17GY5	4	F	5	A	9	X-3	19D8	3	G	9	A	1	
17H3*	1	F	3	A	1		19D8	3	G	2	A	1	X-1
17HC8	8	F	1	A	1		19DE7	9	G	2	A	1	
17HC8	2	F	3	A	1	X-7	19DE7	8	G	7	A	1	
17JB6	3	F	2	A	11	X-1	19EA8	8	G	9	A	1	
17JG6	3	F	2	A	11	X-1	19EA8	7	G	2	A	1	X-3
17JK8	3	F	2	A	1		19EZ8	1	G	2	A	1	
17JK8	8	F	7	A	1		19EZ8	7	G	12	A	1	
17JM6	2	F	5	A	9	X-3	19EZ8	9	G	12	A	1	
17JN6	2	F	11	A	9	X-8	19FL8	3	G	2	A	1	X-1
17JS6	2	F	5	A	9	X-3	19FL8*	3	G	7	A	1	
17JT6	3	F	2	A	11	X-7	19FL8*	3	G	8	A	1	
17JZ8	9	F	7	A	9	X-8	19GK6	1	G	2	A	1	X-8
17JZ8	11	F	10	A	9		19GQ7*	1	G	2	A	1	
17KV6	3	F	2	A	11	X-1	19GQ7*	7	G	6	A	1	
17L6	8	F	5	A	4	X-4	19GQ7*	9	G	8	A	1	
17LD8	3	F	2	A	1	X-7	19HR6	7	G	1	A	12	X-6
17LD8	1	F	9	A	1		19HS6	7	G	1	A	12	X-6
17R5	1	F	2	A	12	X-6	19HV8	3	G	1	A	1	
17W6	8	F	5	A	4	X-4	19HV8	8	G	9	A	1	X-7
17X10	3	F	11	A	9	X-2	19J6	7	G	5	A	12	
17X10	8	F	6	B(S)	9	X-7	19J6	7	G	6	A	12	
17Z3*	11	F	9	A	1		19JN8	3	G	1	A	1	
18A5	3	G	1	A	4	X-8	19JN8	8	G	9	A	1	X-7
18DZ8	8	G	1	A	1		19KF6#	3	G	1	A	11	X-6
18DZ8	2	G	3	A	1	X-7	19KG8	3	G	2	A	1	
18FW6	7	G	1	A	12	X-6	19KG8	8	G	9	A	1	X-7
18FX6	2	G	1	A	12	X-6	19Q9**	10	G	1	A	1	X-2
18FY6	2	G	1	A	12		19Q9**	7	G	8	A	1	
18FY6*	2	G	5	C	12		19SU*	3	G	9	A	1	
18FY6*	2	G	6	C	12								
18GB5#	3	G	2	A	11	X-6							

TUBE	X	Y	Z	W	Skt	G-2 Sht	17 TUBE	X	Y	Z	W	Skt	G-2 Sht
8D8	3	E	9	A	1	X-1	8LT8*	7	E	6	A	1	
8DX8	3	E	1	A	1		8R-HP1	8	E	1	A	1	
8DX8	7	E	8	A	1	X-9	8R-HP1	2	E	3	A	1	X-7
8EB8	1	E	2	A	1		8SN7	3	E	1	A	5	
8EB8	6	E	7	A	1	X-8	8SN7	6	E	4	A	5	
8EM5	7	E	3	A	1	X-1	8U9	2	E	3	A	3	X-8
8ET7	6	E	7	A	1	X-8	8U9	1	E	10	A	3	
8ET7*	1	E	2	C	1		8X9	2	E	3	A	3	X-8
8ET7*	1	E	3	C	1		8X9	1	E	10	A	3	
8FQ7	3	E	2	A	1		9A8	8	E	9	A	1	
8FQ7	8	E	7	A	1		9A8	7	E	2	A	1	X-3
8GJ7	1	E	2	A	1	X-7	9AK8	7	E	8	A	1	
8GJ7	1	E	9	A	1		9AK8*	7	E	6	A	1	
8GK6	1	E	2	A	1	X-8	9AK8*	7	E	1	A	1	
8GN8	1	E	2	A	1		9AK8*	3	E	2	A	1	
8GN8	6	E	7	A	1		9AQ8	3	E	2	A	1	
8GU7	3	E	2	A	1		9AQ8	8	E	7	A	1	
8GU7	8	E	7	A	1		9AU7	3	E	2	A	1	
8GX7	1	E	9	A	1		9AU7	8	E	7	A	1	
8GX7	1	E	2	A	1	X-7	9BJ11	5	E	6	A	9	X-3
8HA6	1	E	2	A	1	X-6	9BJ11	5	E	11	A	9	X-9
8HG8	3	E	6	A	1		9BM5	2	E	1	A	12	X-6
8HG8	1	E	2	A	1	X-9	9BR7	3	E	2	A	1	
8JE8	1	E	2	A	1		9BR7*	8	E	6	A	1	
8JE8	6	E	7	A	1	X-8	9BR7*	8	E	7	A	1	
8JK8	3	E	2	A	1		9BR8	3	E	2	A	1	
8JK8	8	E	7	A	1		9BR8	8	E	9	A	1	X-7
8JL8	1	E	2	A	1		9BW6	3	E	1	A	1	
8JL8	6	E	7	A	1	X-8	9CL8	3	E	1	A	1	
8JT8	1	E	2	A	1		9CL8	8	E	9	A	1	X-7
8JT8	6	E	7	A	1	X-8	9D6	2	E	1	A	12	X-6
8JU8*	2	E	1	A	1		9D7	1	E	2	A	1	X-8
8JU8*	3	E	2	A	1		9DZ8	8	E	1	A	1	
8JU8*	8	E	7	A	1		9DZ8	2	E	3	A	1	X-7
8JU8*	9	E	8	A	1		9EA8	7	E	2	A	1	X-3
8JV8	1	E	2	A	1		9EA8	8	E	9	A	1	
8JV8	6	E	7	A	1	X-8	9ED4#	1	E	8	B	11	
8KA8	3	E	2	A	1		9EF6	8	E	5	A	4	X-4
8KA8	3	E	6	A	1	X-8	9GH8	8	E	9	A	1	
8KS8	1	E	2	A	1		9GH8	7	E	2	A	1	X-3
8KS8	6	E	7	A	1	X-8	9GV8	3	E	2	A	1	
8KT8	1	E	2	A	1		9GV8	8	E	9	A	1	X-7
8KT8	6	E	7	A	1	X-8	9JW8	8	E	9	A	1	
8KY8	3	E	2	A	11	X-7	9JW8	7	E	2	A	1	X-3
8KY8	1	E	9	A	11		9KC6	1	E	2	A	1	X-9
8LC8	3	E	2	A	1		9KV8	1	E	2	A	1	
8LC8	7	E	6	A	1	X-8	9KV8	6	E	7	A	1	X-8
8LE8	3	E	9	A	1		9KZ8	3	E	2	A	1	X-7
8LT8	1	E	9	A	1	X-2	9KZ8	8	E	9	A	1	
8LT8*	7	E	8	A	1		9P9	2	E	1	A	12	X-6
							9R-AL1	8	E	7	B	1	
							9R-AL1	9	E	2	A	1	

TUBE	X	Y	Z	W	Skt	G-2 Sht	18 TUBE	X	Y	Z	W	Skt	G-2 Sht
9R-HR2	8	E	9	A	1		10J10	3	F	11	A	9	X-2
9R-HR2	7	E	2	A	1	X-3	10J10	8	F	6	C(S)	9	
9U8	8	E	9	A	1		10JA8	1	F	2	A	1	
9U8	7	E	2	A	1	X-3	10JA8	6	F	7	A	1	X-8
9V9	1	E	3	A	3	X-4	10JT8	1	F	2	A	1	
9V9	9	E	8	A	3		10JT8	6	F	7	A	1	X-8
9X8	6	E	2	A	1		10JY8	1	F	2	A	1	
9X8	6	E	7	A	1	X-8	10JY8	6	F	7	A	1	X-8
10AL11	2	F	3	A	9	X-7	10KR8	1	F	2	A	1	
10AL11	9	F	8	A	9	X-10	10KR8	6	F	7	A	1	X-8
10BQ5	3	F	2	A	1	X-9	10KU8	6	F	7	A	1	X-8
10C8	3	F	2	A	1		10KU8*	1	F	2	B	1	
10C8	9	F	8	A	1	X-7	10KU8*	1	F	3	B	1	
10C14	3	G	9	A	1	X-9	10L14	3	G	2	A	1	
10C14	3	G	2	A	1		10L14	8	G	7	A	1	
10CW5	3	F	2	A	1	X-9	10LB8	1	F	2	A	1	
10DA7	9	F	3	B	1		10LB8	6	F	7	A	1	X-8
10DA7	8	F	7	B	1		10LD12	7	G	8	A	1	
10DE7	9	F	2	A	1		10LD12*	7	G	6	A	1	
10DE7	8	F	7	A	1		10LD12*	7	G	1	A	1	
10DR7	9	F	2	A	1		10LD12*	3	G	2	A	1	
10DR7	8	F	7	A	1		10LD14	3	G	2	A	1	
10DX8	3	F	1	A	1		10LD14	8	G	7	A	1	
10DX8	7	F	8	A	1	X-9	10LE8	3	F	9	A	1	
10EB8	1	F	2	A	1		10LW8	1	F	2	A	1	
10EB8	6	F	7	A	1	X-8	10LW8	6	F	7	A	1	X-8
10EG7	3	F	1	A	5		10LZ8	1	F	2	A	1	
10EG7	6	F	4	A	5		10LZ8	6	F	7	A	1	X-8
10EM7	3	F	1	A	5		10P18	3	H	2	A	1	X-9
10EM7	6	F	4	A	5		10PL12	8	H	1	A	1	
10EW7	8	F	7	A	1		10PL12	2	H	3	A	1	X-7
10EW7	2	F	9	A	1		11AR11	6	F	5	A	9	X-3
10F18	3	F	2	A	1		11AR11	11	F	10	A	9	X-9
10FD7	9	F	2	A	1		11BM8	8	F	1	A	1	
10FD7	8	F	7	A	1		11BM8	2	F	3	A	1	X-7
10FD12	3	G	2	A	1	X-1	11BQ11	6	F	5	A	9	X-3
10FD12*	3	G	7	A	1		11BQ11	11	F	10	A	9	X-9
10FD12*	3	G	8	A	1		11BT11	8	F	11	A	9	X-10
10FR7	9	E	2	A	1		11BT11	6	F	5	A	9	
10FR7	8	E	7	A	1		11BT11	4	F	3	A	9	
10GF7	3	F	2	A	11		11C5	1	F	2	A	12	X-6
10GF7	1	F	9	A	11		11CY7	9	F	3	A	1	
10GH8	8	F	9	A	1		11CY7	8	F	7	A	1	
10GH8	7	F	2	A	1	X-3	11FY7	7	F	3	A	9	
10GK6	1	F	2	A	1	X-8	11FY7	9	F	10	A	9	
10GN8	1	F	2	A	1		11HM7	1	F	2	A	1	X-8
10GN8	6	F	7	A	1	X-8	11JE8	1	F	2	A	1	
10HA6	1	F	2	A	1	X-6	11JE8	6	F	7	A	1	X-8
10HF8	1	F	2	A	1		11KV8	1	F	2	A	1	
10HF8	6	F	7	A	1	X-8	11KV8	6	F	7	A	1	X-8
							11LQ8	1	F	2	A	1	

TUBE	X	Y	Z	W	Skt	G-2 Sht	23 TUBE	X	Y	Z	W	Skt	G-2 Sht
14E7*	7	F	4	C	8		15EW7	2	F	9	A	1	
14F7	2	F	4	A	8		15FM7	7	F	8	A	9	
14F7	7	F	5	A	8		15FM7	9	F	10	A	9	
14G6	3	F	2	A	1		15FO7	1	F	2	A	1	
14G6*	3	F	8	A	1		15FY7	7	F	3	A	9	
14G6*	3	F	6	A	1		15FY7	9	F	10	A	9	
14GT8	7	F	8	B	1		15HA6	1	F	2	A	1	X-6
14GT8*	1	F	6	A	1		15HB6	1	F	2	A	1	X-6
14GT8*	3	F	2	A	1		15HG8	3	F	6	A	1	
14GW8	2	F	1	A	1		15HG8	1	F	2	A	1	X-9
14GW8	7	F	8	A	1	X-3	15KY8	1	F	9	A	11	
14H7	7	F	6	A	8	X-3	15KY8	3	F	2	A	11	X-7
14J7	7	F	4	A	8		15LE8	3	F	9	A	1	
14J7	7	F	6	A	8	X-5	16A5	3	F	2	A	1	X-9
14K7	2	F	4	A	8		16A8	8	F	1	A	1	
14K7*	7	F	5	C	8		16A8	2	F	3	A	1	X-7
14K7*	7	F	6	C	8		16AQ3*	11	F	9	A	1	
14N7	2	F	4	A	8		16GK6	1	F	2	A	1	X-8
14N7	7	F	5	A	8		16GK8	8	F	1	A	1	
14Q7	7	F	4	A	8	X-3	16GK8	2	F	3	A	1	X-7
14R7	7	F	6	A	8	X-5	16GY5	4	F	5	A	9	X-3
14R7*	7	F	3	C	8		16KA6	10	F	5	A	9	X-3
14R7*	7	F	4	C	8		16Y9	2	F	1	A	3	X-3
14S7	7	F	4	A	8		16Y9	7	F	8	A	3	X-9
14S7	7	F	6	A	8	X-5	17AB10	3	F	11	A	9	X-2
14W7	7	F	6	A	8	X-3	17AB10	8	F	6	C(S)	9	
14X7	4	F	3	A	8		17AU5	3	F	1	A	4	X-8
14X7*	4	F	5	C	8		17AV5	3	F	1	A	4	X-8
14X7*	4	F	6	C	8		17AX3*	7	F	4	A	9	
14Y4*	7	F	3	A	8		17AX4*	3	F	5	A	5	
14Y4*	7	F	6	A	8		17AY3*	9	F	7	A	11	
14Y7	3	G	9	A	1		17B-B14#	3	F	1	A	11	X-6
14Y7	3	G	2	A	1	X-1	17BD11	7	F	3	A	9	
15A6	3	F	2	A	1	X-1	17BD11	5	F	6	A	9	
15A8	1	F	3	A	1		17BD11	9	F	11	A	9	
15A8	6	F	4	A	1	X-5	17BE3*	7	F	10	A	9	
15AF11	7	F	3	A	9		17BF11	2	F	3	A	9	X-6
15AF11	5	F	6	A	9		17BF11	9	F	8	A	9	X-10
15AF11	9	F	11	A	9	X-10	17BH3*	9	F	7	A	11	
15BD11	7	F	3	A	9		17BQ6	8	F	5	A	4	X-4
15BD11	5	F	6	A	9		17BR3*	11	F	9	A	1	
15BD11	9	F	11	A	9	X-10	17BS3*	9	F	7	A	11	
15CW4	3	F	2	A	1	X-9	17BY7	1	F	2	A	1	X-8
15CW5	3	F	2	A	1	X-9	17BZ3*	7	F	4	A	9	
15DQ8	3	F	1	A	1		17C5	1	F	2	A	12	X-6
15DQ8	7	F	8	A	1	X-9	17C8	3	F	2	A	1	X-1
15EA7	7	F	1	A	5		17C8*	3	F	7	B	1	
15EA7	6	F	4	A	5		17C8*	3	F	8	B	1	
15EW6	2	F	1	A	12	X-6	17C9**	10	F	1	A	1	X-2
15EW7	8	F	7	A	1		17C9**	6	F	7	A	1	X-8
							17CA5	1	F	2	A	12	X-6



TUBE	X	Y	Z	W	Skt	G-2 Sht	20 TUBE	X	Y	Z	W	Skt	G-2 Sht
12BM5	2	F	1	A	12	X-6	12DA6	3	F	2	A	1	X-8
12BN6	1	F	5	B(S)	12	X-2	12DB5	2	F	3	A	1	X-1
12BQ6	8	F	5	A	4	X-4	12DE8	9	F	1	A	1	X-8
12BR3*	11	F	9	A	1		12DE8*	2	F	3	A	1	
12BR7	3	F	2	A	1		12DF5*	3	F	1	A	1	
12BR7*	8	F	6	A	1		12DF5*	8	F	6	A	1	
12BR7*	8	F	7	A	1		12DF7	3	F	2	A	1	
12BS3*	9	F	7	A	11		12DF7	8	F	7	A	1	
12BT3*	7	F	10	A	9		12DJ8	3	F	2	A	1	
12BT6	2	F	1	A	12		12DJ8	8	F	7	A	1	
12BT6*	2	F	5	C	12		12DK6	2	F	1	A	12	X-6
12BT6*	2	F	6	C	12		12DK7	2	F	1	A	1	X-3
12BU6	2	F	1	A	12		12DK7*	2	F	6	A	1	
12BU6*	2	F	5	C	12		12DK7*	2	F	9	A	1	
12BU6*	2	F	6	C	12		12DL8	2	F	3	A	1	X-7
12BV7	1	F	2	A	1	X-8	12DL8*	8	F	1	A	1	
12BV11	8	F	7	A	9	X-9	12DL8*	8	F	9	A	1	
12BV11	5	F	6	A	9	X-4	12DM4*	3	F	5	A	5	
12BW4*	9	F	1	A	1		12DM5	1	F	2	A	12	X-6
12BW4*	9	F	7	A	1		12DM7	3	F	2	A	1	
12BX6	3	F	2	A	1	X-8	12DM7	8	F	7	A	1	
12BY7	1	F	2	A	1	X-8	12DQ4*	3	F	5	A	5	
12BZ6	2	F	1	A	12	X-6	12DQ6	8	F	5	A	4	X-4
12BZ7	3	F	2	A	1		12DQ7	1	F	2	A	1	X-8
12BZ7	8	F	7	A	1		12DS7	8	F	3	A	1	X-7
12C5	1	F	2	A	12	X-6	12DS7*	8	F	1	C	1	
12C8	8	F	11	A	4		12DS7*	8	F	9	C	1	
12C8*	8	F	4	C	4		12DT5	7	F	6	A	1	X-1
12C8*	8	F	5	C	4		12DT6	2	F	1	A	12	X-6
12CA5	1	F	2	A	12	X-6	12DT7	3	F	2	A	1	
12CB6	2	F	1	A	12	X-6	12DT7	8	F	7	A	1	
12CD6	3	F	5	A	4	X-8	12DT8	3	F	2	A	1	
12CK3*	9	F	7	A	11		12DT8	8	F	7	A	1	
12CL3*	9	F	2	A	11		12DU7	2	F	1	A	1	X-3
12CM6	7	F	3	A	1	X-1	12DU7*	2	F	7	C	1	
12CN5	1	F	2	A	12	X-6	12DU7*	2	F	9	C	1	
12CR6	1	F	7	A	12	X-6	12DV7	8	F	7	B	1	
12CR6*	1	F	2	D	12		12DV7*	1	F	2	C	1	
12CS5	2	F	3	A	1	X-1	12DV7*	1	F	3	C	1	
12CS6	2	F	1	A	12	X-6	12DV8	2	F	3	A	1	X-7
12CS7	9	F	3	A	1		12DV8*	8	F	1	A	1	
12CS7	8	F	7	A	1		12DV8*	8	F	9	A	1	
12CT8	3	F	2	A	1		12DW5	7	F	6	A	1	X-1
12CT8	9	F	8	A	1	X-7	12DW7	3	F	2	A	1	
12CU5	1	F	2	A	12	X-6	12DW7	8	F	7	A	1	
12CU6	8	F	5	A	4	X-4	12DW8	3	F	2	A	1	
12CX6	7	F	1	A	12	X-6	12DW8	8	F	7	A	1	
12D4*	3	F	5	A	5		12DW8*	8	F	9	A	1	
12D8	9	F	3	A	1		12DY7	8	F	7	A	1	
12D8	2	F	3	A	1	X-1	12DY8	7	F	9	A	1	

TUBE	X	Y	Z	W	Skt	G-2 Sht	21 TUBE	X	Y	Z	W	Skt	G-2 Sht
12DY8	2	F	1	A	1	X-3	12G8	7	F	8	B	1	
12DZ6	7	F	1	A	12	X-6	12G11	2	F	3	A	9	X-7
12DZ8	8	F	1	A	1		12G11	9	F	8	A	9	X-10
12DZ8	2	F	3	A	1	X-7	12GA6	2	F	1	A	12	X-6
12E5	8	F	5	A	4		12G-B3	8	F	5	A	4	X-4
12AE6	7	F	1	A	12	X-6	12GB5#	3	F	2	A	11	X-6
12EC8	3	F	1	A	1		12GC5	7	F	3	A	1	X-1
12EC8	8	F	9	A	1	X-7	12GC6	3	F	5	A	4	X-8
12ED5	1	F	2	A	12	X-6	12GE5	4	F	3	A	9	X-2
12EF6	8	F	5	A	4	X-4	12GJ5	3	F	2	A	11	X-1
12EG6	2	F	1	A	12	X-6	12GK17*	3	F	5	A	5	
12EH5	1	F	2	A	12	X-6	12GN6	2	F	1	A	12	X-6
12EK6	7	F	1	A	12	X-6	12GN6*	2	F	7	B	12	
12EL6	7	F	1	A	12		12GN7	1	F	2	A	1	X-8
12EL6*	7	F	5	C	12		12GT5	3	F	2	A	11	X-1
12EL6*	7	F	6	C	12		12GW6	8	F	5	A	4	X-4
12EM5	7	F	3	A	1	X-1	12H4	7	F	6	A	12	
12EM6	2	F	1	A	1	X-3	12H6*	4	F	3	A	4	
12EM6*	2	F	9	C	1		12H6*	8	F	5	A	4	
12EN6	8	F	5	A	4	X-4	12HE7	4	F	2	A	9	
12EQ7*	3	F	8	B	1		12HE7	8	F	9	A	9	X-11
12EQ7	3	F	2	A	1	X-6	12HG7	1	F	2	A	3	X-8
12EZ6	7	F	1	A	12	X-6	12HL5	3	F	1	A	1	X-9
12F5	8	F	11	A	4		12HL7	1	F	2	A	1	X-8
12F8	7	F	8	A	1	X-2	12J5	8	F	5	A	4	
12F8*	7	F	6	C	1		12J7	8	F	11	A	4	X-4
12F8*	7	F	1	C	1		12J8	2	F	1	A	1	X-3
12FA6	2	F	1	A	12	X-6	12J8*	7	F	8	A	1	
12FK6	2	F	1	A	12		12J8*	7	F	9	A	1	
12FK6*	2	F	5	C	12		12JB6	3	F	2	A	11	X-1
12FK6*	2	F	6	C	12		12JN6	2	F	11	A	9	X-8
12FM6	2	F	1	A	12		12JN8	3	F	1	A	1	
12FM6*	2	F	5	C	12		12JN8	8	F	9	A	1	X-7
12FM6*	2	F	6	C	12		12JS6	2	F	5	A	9	X-3
12FQ7	3	F	2	A	1		12JT6	3	F	2	A	11	X-7
12FQ7	8	F	7	A	1		12JZ8	6	F	9	A	9	X-8
12FQ8	9	F	2	A	1		12JZ8	11	F	10	A	9	
12FQ8	9	F	7	A	1		12K5	1	F	6	A	12	X-2
12FR8	2	F	1	A	1		12K7	8	F	11	A	4	X-4
12FR8	3	F	12	B	1	Z-6	12K8	8	F	5	A	4	X-4
12FR8*	2	F	8	B	1		12KL8	3	F	2	A	1	X-6
12FV7	3	F	2	A	1		12KL8*	3	F	8	C	1	
12FV7	8	F	7	A	1		12L6	8	F	5	A	4	X-4
12FX5	1	F	2	A	12	X-6	12MD8	7	F	6	A	11	
12FX8*	6	F	12	A	1		12MD8	7	F	8	A	11	
12FX8	7	F	2	A	1	X-1	12MD8	7	F	9	A	11	
12FY8	8	F	1	A	1		12Q7	8	F	11	A	4	
12FY8	2	F	3	A	1	X-7	12Q7*	8	F	4	C	4	
12G4	7	F	6	A	12		12Q7*	8	F	5	C	4	
12G8	2	F	3	B	1		12R5	1	F	2	A	12	X-6

TUBE	X	Y	Z	W	Skt	G-2 Sht	TUBE	X	Y	Z	W	Skt	G-2 Sht
12R-K19*	11	F	9	A	1		13D3	3	F	2	A	1	
12R-LL5	3	F	2	A	1		13DE7	9	F	2	A	1	
12R-LL5	8	F	7	A	1		13DE7	8	F	7	A	1	
12S8	2	F	11	A	4		13DR7	9	F	2	A	1	
12S8*	2	F	1	C	4		13DR7	8	F	7	A	1	
12S8*	2	F	4	C	4		13EM7	3	F	1	A	5	
12S8*	5	F	3	C	4		13EM7	6	F	4	A	5	
12SA7	6	F	5	A	4	X-4	13FD7	9	F	2	A	1	
12SB7	6	F	5	A	4	X-4	13FD7	8	F	7	A	1	
12SC7	6	F	3	A	5		13FM7	7	F	8	A	9	
12SC7	6	F	4	A	5		13FM7	9	F	10	A	9	
12SF5	2	F	3	A	5		13FR7	9	F	2	A	1	
12SF7	3	F	2	A	5	X-4	13FR7	8	F	7	A	1	
12SF7*	3	F	5	C	5		13GB5#	3	F	2	A	11	X-6
12SG7	3	F	4	A	4	X-6	13GF7	3	F	2	A	11	
12SH7	3	F	4	A	4	X-6	13GF7	1	F	9	A	11	
12SJ7	5	F	4	A	4	X-6	13J10	3	F	11	A	9	X-2
12SK7	5	F	4	A	4	X-6	13J10	8	F	6	C(S)	9	
12SL7	3	F	1	A	5		13V10	2	F	3	A	9	X-6
12SL7	6	F	4	A	5		13V10	9	F	8	A	9	X-10
12SN7	3	F	1	A	5		13Z10	3	F	11	A	9	X-2
12SN7	6	F	4	A	5		13Z10	8	F	6	C(S)	9	
12SQ7	3	F	2	A	5		14A4	7	F	6	A	8	
12SQ7*	3	F	4	C	5		14A5	7	F	6	A	8	X-3
12SQ7*	3	F	5	C	5		14A7	7	F	6	A	8	X-3
12SR7	3	F	2	A	5		14AF7	2	F	4	A	8	
12SR7*	3	F	4	C	5		14AF7	7	F	5	A	8	
12SR7*	3	F	5	C	5		14B6	7	F	3	A	8	
12SW7	3	F	2	A	5		14B6*	7	F	5	C	8	
12SW7*	3	F	4	A	5		14B6*	7	F	6	C	8	
12SW7*	3	F	5	A	5		14B8	7	F	4	A	8	X-3
12SX7	3	F	1	A	5		14BF11	2	F	3	A	9	X-6
12SX7	6	F	4	A	5		14BF11	9	F	8	A	9	X-10
12SY7	6	F	5	A	4	X-4	14BL11	8	F	11	A	9	X-10
12T10	2	F	3	A	9	X-6	14BL11	6	F	5	A	9	
12T10	9	F	8	A	9	X-10	14BL11	4	F	3	A	9	
12U7	3	F	2	B	1		14BQ11	6	F	5	A	9	X-3
12U7	8	F	7	B	1		14BQ11	11	F	10	A	9	X-9
12V6	8	F	5	A	4	X-4	14BR11	5	F	8	A	9	
12W6	8	F	5	A	4	X-4	14BR11	7	F	10	A	9	
12X4*	7	F	1	A	12		14BR11	4	F	2	A	9	X-3
12X4*	7	F	6	A	12		14C5	7	F	6	A	8	X-3
13CM5	8	F	5	A	4	X-4	14C7	7	F	6	A	8	X-3
13CW4	8	F	4	A	10		14DA7	9	F	3	B	1	
13CW9	1	F	2	A	1		14DA7	8	F	7	B	1	
13D1	6	G	4	A	5		14E6	7	F	3	A	8	
13D1	3	G	1	A	5		14E6*	7	F	5	C	8	
13D2	3	E	1	A	5		14E6*	7	F	6	C	8	
13D2	6	E	4	A	5		14E7	7	F	6	A	8	X-5
13D3	8	F	7	A	1		14E7*	7	F	3	C	8	

TUBE	X	Y	Z	W	Skt	G-2 Sht	TUBE	X	Y	Z	W	Skt	G-2 Sht
11LQ8	6	F	7	A	1	X-8	12AU8	6	F	7	A	1	X-8
11Y9	2	F	1	A	3	X-3	12AV5	3	F	1	A	4	X-8
11Y9	7	F	8	A	3	X-9	12AV6	2	F	1	A	12	
12A4	1	F	2	A	1		12AV6*	2	F	5	C	12	
12A6	8	F	5	A	4	X-4	12AV6*	2	F	6	C	12	
12A8	8	F	5	A	4	X-6	12AV7	3	F	2	A	1	
12AB5	7	F	3	A	1	X-8	12AV7	8	F	7	A	1	
12AC6	7	F	1	B	12	X-6	12AW6	6	F	1	A	12	X-6
12AD5	3	F	2	A	1	X-8	12AX3*	7	F	4	A	9	
12AD6	2	F	1	A	12	X-6	12AX4*	3	F	5	A	5	
12AD7	3	F	2	A	1		12AX5*	8	F	3	A	4	
12AD7	8	F	7	A	1		12AX5*	8	F	5	A	4	
12AE6	2	F	1	A	12		12AX7	8	F	7	A	1	
12AE6*	2	F	5	C	12		12AX7	3	F	2	A	1	
12AE6*	2	F	6	C	12		12AX12	1	F	2	A	1	
12AE7	3	F	2	A	1		12AY3*	9	F	7	A	11	
12AE7	8	F	7	A	1		12AY7	3	F	2	A	1	
12AE10	2	F	3	A	9	X-6	12AY7	8	F	7	A	1	
12AE10	9	F	8	A	9	X-10	12AZ7	3	F	2	A	1	
12AF3*	11	F	9	A	1		12AZ7	8	F	7	A	1	
12AF4	5	F	2	A	12		12B4	1	F	2	A	1	
12AF6	7	F	1	A	12	X-6	12B7	7	F	6	A	8	X-3
12AG6	2	F	1	B	12	X-6	12B8	6	F	8	A	4	
12AH7	2	F	1	A	5		12B8	1	F	11	A	4	X-4
12AH7	4	F	5	A	5		12BA6	7	F	1	A	12	X-6
12AH8	3	F	7	A	1		12BA7	3	F	2	A	1	X-1
12AH8	3	F	2	A	1	X-1	12B-B14#	3	F	1	A	11	X-6
12AJ6	2	F	1	A	12		12BD5	3	F	1	A	4	X-8
12AJ6*	2	F	5	C	12		12BD6	7	F	1	A	12	X-6
12AJ6*	2	F	6	C	12		12BE3*	7	F	10	A	9	
12AJ7	3	F	9	A	1		12BE6	2	F	1	A	12	X-6
12AJ7	3	F	2	A	1	X-1	12BE8	3	F	1	A	1	
12AL5*	5	F	2	A	12		12BE8	8	F	9	A	1	X-7
12AL5*	1	F	7	A	12		12BF6	2	F	1	A	12	
12AL8	9	F	8	B	1		12BF6*	2	F	5	D	12	
12AL8	7	F	3	A	1	X-2	12BF6*	2	F	6	D	12	
12AL11	2	F	3	A	9	X-7	12BF11	2	F	3	A	9	X-6
12AL11	9	F	8	A	9	X-10	12BF11	9	F	8	A	9	X-10
12AQ5	2	F	1	A	12	X-6	12BH7	3	F	2	A	1	
12AS5	1	F	2	A	12	X-6	12BH7	8	F	7	A	1	
12AT6	2	F	1	A	12		12BH11	2	F	4	A	9	
12AT6*	2	F	5	C	12		12BH11	5	F	6	A	9	
12AT6*	2	F	6	C	12		12BH11	11	F	8	A	9	X-9
12AT7	3	F	2	A	1		12BK5	6	F	7	A	1	X-8
12AT7	8	F	7	A	1		12BK6	2	F	1	A	12	
12AU5	3	F	1	A	4	X-8	12BK6*	2	F	5	C	12	
12AU6	7	F	1	A	12	X-6	12BK6*	2	F	6	C	12	
12AU7	3	F	2	A	1		12BL6	7	F	1	A	12	X-6
12AU7	8	F	7	A	1		12BL7	6	F	4	A	5	
12AU8	1	F	2	A	1		12BL7	3	F	1	A	5	