

VOLUME 4

BUILDING SERVICES

4.1 FILENAMING

4.1.1 ARCHITECTURAL

Floor Plans

Filename: [a] [bb] [cc] [d] [ee].[fff]

Where:

a = x = existing
p = proposed
s = survey

bb = ar = Floor Plans for SIT
st = Structural
lm = Lease Master

cc = Building Level

l = lower level / basement
r = ramp level
1 = arrivals / ground floor
1m = arrivals mezzanine/ceiling space
2 = departures / first floor
2m = departures mezzanine/ceiling space
3 = administration level
3m = administration ceiling space
4 = penthouse

d = Drawing Type

p = plan
e = elevation
s = sections

ee = Sheet Number (00-99)

00 = whole building
tx = text file

fff - building Identification

Example: xar1p00.240 - an existing floor plan of the arrivals level of the International Terminal.

Plotfiles - General

Filename: [aaa] [bbbb] [ccc].dgn

Where:

aaa	-	plan identifier (fsa)
bbbb	-	drawing number
ccc	-	sheet number

Plotfiles - SIT leases - Pier

Filename: [a] [bb] - [ccc] [dd] [e].dgn

where:

a = pier identification

b	=	pier B
c	=	pier C

bb = level identifier

r	=	ramp
---	---	------

1	=	arrivals
---	---	----------

2	=	departures
---	---	------------

2m	=	departures mezzanine
----	---	----------------------

3	=	level 3
---	---	---------

ccc = site/door number

dd = issue number

e = site that has multiple tenants (a - z)

EXAMPLE: c1-14401a.dgn means pier C on arrivals with site no 144 issue number 1 for tenant a.

Plotfiles - SIT leases - Terminal

Filename: [aa] - [bbbb] [cc] [d].dgn

where:

aa = level identifier

l	=	lower level
---	---	-------------

lm	=	lower mezzanine level
----	---	-----------------------

1	=	arrivals
---	---	----------

2	=	departures
---	---	------------

3	=	administration
---	---	----------------

bbbb = site/door number

cc = issue number (01 - 99)

d = site with multiple tenants

EXAMPLE: 1-102001.dgn would mean arrivals level, site/door number 1020, issue 01.

4.1.2 MECHANICAL DRAWINGS

Miscellaneous

Filename: [aaaa-] [bbb].dgn where

aaaa = the contract number or the project number
bbb = 1-999 incremented for every file

With this numbering system, the description of the file(s) must be supplied.

Airconditioning

Filename: [a] [b] [c] [d] [eee] [fff].dgn where

a - x = existing
p = proposed
d = plotfile

b = building no
c = location at airport
d = floor level
eee = acs (code for airconditioning)
fff = sheet no.

eg. xbtlacs005.dgn is existing drawing for airconditioning, Sheet 5, for ITB building

4.1.3 ELECTRICAL DRAWINGS

Filename: [a] [b] [c] [d] [eee] [fff].dgn where

a - x = existing
p = proposed
d = plotfile

b = building no
c = location at airport
d = floor level
eee = codes to be supplied
fff = sheet no.

Building Services

4.2.1 ARCHITECTURAL - GRID

LEVEL	DESCRIPTION	LC	WT	CO	FT=1 TX
1	BUBBLES - ITB/ITC				
2	BUILDING GRID	4	0	3	
3	EXTERNAL BUILDING LINE	0	3	2	
4					
5					
6					
7					
8					
9					
10					
⋮					
20					
⋮					
30					
⋮					
39	DETAIL AND SECTION MARKERS	0	1	6	
⋮					
50	DIMENSIONS	6	0	0	
⋮					
63	DATA LEVEL MAP				

Building Services

4.2.2 ARCHITECTURAL - FLOOR PLANS

FT=1

LEVEL	DESCRIPTION	LC	WT	CO	TX
1	SIT EQUIPMENT ID CODE				
2	TOTAL FLOOR BOUNDARY	0	3	2	
3	AEROBRIDGES	0	0	5	
	AIRPLANE CENTRELINE	7	0	12	
4	CONCRETE PLINTHS	0	1	2	
	SECANT PILE WALL	0	0	6	
5	COLUMNS	0	3	7	
	FACING AROUND COLS	0	1	4	
6					
7	DOWN PIPES AND GUTTERS	0	0	5	
	EARTH PITS	0	1	0	
	DRAINAGE PITS	0	0	5	
	GRATED DRAIN	0	0	7	
	MANHOLES	0	1	4	
8	STEEL BOLLARDS/POSTS	0	1	4	
	STEEL TRUSS	0	1	3	
9	INTERNAL GLASS SCREENS	0	0	1	
	GLASS BALUSTRADE	0	1	4	
	SCREENS AND WIRE MESH	0	0	0	
10	WINDOWS / LOUVRES	0	0	1	
11	INTERNAL WALLS	0	2	4	
12	TOILET CUBICLES AND PARTITIONS	0	1	4	
13	RETAINING WALLS	0	1	2	
	PARAPET	0	0	12	
	SPANDREL	0	1	9	
14	HANDRAILS	0	1	8	
15	STAIRS, RAMPS	0	0	8	
	MOVING WALKWAY	0	1	0	
16	ESCALATOR RAILS	0	1	8	
	ESCALATOR STEPS	0	0	8	
17	LIFTS	0	0	8	
18	DUCTS	0	0	4	
19	EXHAUSTS	0	2	1	
	EXHAUST DUCT AND PIENUM	0	1	0	
20	AIRLINE COUNTERS/ BAGGAGE CONVEYORS	0	0	5	
21	CUSTOMS & IMMIGRATION COUNTERS	0	0	6	
	SECURITY COUNTERS/X-RAYS	0	1	2	
22	OTHER DESK COUNTERS ETC	0	0	6	
23	RIBBED METAL CLADDING	0	0	6	
	GIRTS	0	3	6	
	METAL PANELLING	0	1	6	
	METAL WALL PROTECTION	7	2	18	
	WALL CLADDING	0	11	11	
	ROOF CLADDING	1	0	25	
	ROOF LIGHT	0	1	10	

Building Services

LEVEL	DESCRIPTION	LC	WT	CO	TX
24	KERBS	0	1	6	
	OVERHEAD ROADWAY	3	1	0	
	PARKING BAYS	3	1	2	
	SUSPENDED/ELEVATED PLATFORM	0	0	9	
25	DOORS	0	1	2	
	ROLLER SHUTTERS	2	1	2	
	MAT WELLS	0	0	3	
26					
27	TELEPHONES	0	1	3	
28	FIRE HOSE REELS	0	1	3	
29	GARBAGE ROOM EQUIPMENT, CHUTE				
	GREASE TRAPS	0	1	0	
30	TOILETS, HANDBASINS	0	0	7	
	FLOOR WASTE	0	0	4	
	EMERGENCY SHOWERS / EYEWASH		0	0	7
31	TILES AND EXPANSION JOINTS	0	0	9	
	EXPANSION JOINT COVER	0	1	0	
32	MONORAILS, HOISTS ETC	0	1	0	
33					
34					
35	KITCHENS, BARS, SINKS, OVENS ETC	0	0	6	
36	HIDDEN UNDER / HIDDEN OVER	2	0	4	
37	VOID	1	0	4	
38	ROOF	0	0	1	
39					
40	LOCKERS	0	1	4	
41					
42					
43	PLANT				
44	MISCELLANEOUS				
45	ELECTRICAL SWITCHBOARD,	0	0	1	
	ELECTRICAL CUPBOARD	0	1	4	
	ELECTRICAL DISTRIBUTION BOARD	0	1	3	
	ELECTRICAL SUPPLIES	0	1	4	
	ELECTRICAL CONDUITS	0	0	4	
46					
47					
48					
49					
50					
51					
52					
53					
54	VEHICLE TURNTABLE	0	2	4	
55					
56					
57					
58	ADVERTISING SIGNS AND DISPLAY	0	1	10	
59					
60	DIRECTORY SIGNS/MONITOR	2	1	10	
62					
63	DATA LEVEL MAP				

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4.2.3 ARCHITECTURAL - FLOOR PLANS - TEXT

LEVEL	DESCRIPTION	LC	WT	CO	FT=1
					TX
1					
.					
.					
.					
26	DOOR NUMBERS	0	1	0	
.					
39	SECTION NUMBERS	0	1	6	
.					
.					
46	GATE AND BAY NUMBERS	0	2	0	1250
47	TEXT 1:100 CUPBOARD TYPE ONLY	0	1	5	
48	TEXT 1:100 WALL TYPE ONLY	0	1	5	
49	TEXT 1:100 ROOM NAMES ONLY	0	1	0	350
50	TEXT 1:100 NOTES	0	1	0	250
51	TEXT 1:100 ROOM DESCRIPTIONS ONLY	0	1	0	250
52	FLOOR LEVELS RL'S	0	1	0	
53	TEXT 1:500 TEXT 1:500	0 0	2 2	0 0	1250 1750
55	QUERIES	0	2		
56	HOLD CLOUDS AND NOTES	0	0	2	
57	DIMENSION 1:100	0	0	6	
59	ADVERT TEXT	0	1	10	250
61	SIGN TEXT/MONITOR NOS	0	1	10	250

Building Services

4.2.4 ARCHITECTURAL - LEASES/LEASE MASTER

LEVEL	DESCRIPTION	LC	WT	CO
1				
2				
3				
4	COMMON	0	0	5
5				
6	CORE :	0	0	6
	PLANT			
	ELECTRICAL / TELECOM			
	TOILETS			
	CLEANERS			
7				
8				
9				
10	LEASES NLA	0	2	12
11				
:				
:				
20	LEASES GLA	0	0	1
21				
:				
:				
30	LEASES GLAR	0	2	4
31				
:				
40	BUILDING PERMITS	0	2	2
41				
42				
43				
44	PROPOSED LEASES	2	2	5
45				
:				
:				
50	LANDSIDE COMMON	4	0	2
51	AERONAUTICAL	4	0	15
52				
53				
54				
56				
57				
58				
59				
60				
61				
62	SHADING	0	5	241
63				

Building Services

4.2.5 <u>ARCHITECTURAL - LEASES/LEASE MASTER - TEXT</u>							FT = 1
LEVEL	DESCRIPTION	LC	WT	CO	TX		
1	TENANT/FUNCTION	0	0	0	350		
2							
3							
4							
5	SUITE NUMBER	0	0	3	350		
6							
7	CORE AREA - TEXT	0	0	6	350		
8							
9							
10							
11	LEASES GLA - TEXT	0	0	1	350		
:							
:							
20	LEASES NLA - TEXT	0	1	12	350		
21							
:							
:							
30							
31	LEASES GLAR - TEXT	0	0	4	350		
:							
:							
40							
41	PERMITS - TEXT	0	1	2			
44							
45	PROPOSED LEASES - TEXT	0	1	5			
:							
:							
50	DIMENSIONS 1:100	0	1	0	350		
51	TITLE BLOCK TEXT/TENANT INFOR	0	1	0	350		
52	MISC TEXT PERTAINING TO LEASE PLANS	0	1	0			
53							
54							
56							
57							
58							
59							
60							
61							
62							
63							

Building Services

4.2.6 ARCHITECTURAL - SECTIONS

LEVEL	DESCRIPTION	LC	WT	CO	TX
1	SIT EQUIPMENT ID CODE				
2					
3	AEROBRIDGES	0	0	5	
4	CONCRETE SLAB	0	3	2	
	CONCRETE BEAMS	0	2	4	
5	COLUMNS	0	3	7	
6	FACING AROUND COLS	0	1	4	
7	DOWN PIPES AND GUTTERS	0	0	5	
8	STEEL BEAMS, JOISTS GIRDER	0	2	18	
9	INTERNAL GLASS SCREENS	0	0	1	
	GLASS BALUSTRADE	0	1	4	
	SCREENS	0	0	0	
10	WINDOWS	0	0	1	
	LOURVES	0	0	1	
11	INTERNAL WALLS	0	2	4	
12	TOILET CUBICLES AND PARTITIONS	0	1	4	
13	RETAINING WALLS	0	1	2	
	PARAPET	0	0	12	
	SPANDREL	0	1	9	
14	HANDRAILS	0	1	8	
15	STAIRS, RAMPS	0	0	8	
16	ESCALATOR RAILS	0	1	8	
	ESCALATOR STEPS	0	0	8	
17	LIFTS	0	0	8	
18	DUCTS	0	0	4	
	MAT WELLS	0	0	3	
19	EXHAUSTS	0	2	1	
	EXHAUST DUCT AND PIENUM	0	1	0	
20	AIRLINE COUNTERS/ BAGGAGE CONVEYORS	0	0	5	
21	CUSTOMS & IMMIGRATION COUNTERS	0	0	6	
22	OTHER DESK COUNTERS ETC	0	0	6	
	SECURITY COUNTERS/X-RAYS	0	1	2	
23	RIBBED METAL CLADDING	0	0	6	
	GIRTS	0	3	6	
	METAL PANELLING	0	1	6	
	METAL WALL PROTECTION	7	2	18	
	WALL CLADDING	0	11	11	
24	KERBS	0	1	6	
	OVERHEAD ROADWAY	3	1	0	
	PARKING BAYS	3	1	2	
	SUSPENDEE/ELEVATED PLATFORM	0	0	9	
25	DOORS	0	1	2	
	ROLLER SHUTTERS	2	1	2	
26					
27	TELEPHONES	0	1	3	
28	FIRE HOSE REELS	0	1	3	
29	GARBAGE ROOM EQUIPMENT, CHUTE				

Building Services

LEVEL	DESCRIPTION	LC	WT	CO	TX
30	TOILETS, HANDBASINS	0	0	7	
31	TILES AND EXPANSION JOINTS	0	0	9	
	EXPANSION JOINT COVER	0	1	0	
32	MONORAILS, HOISTS ETC	0	1	0	
33					
34					
35	KITCHENS, BARS, SINKS, OVENS ETC	0	0	6	
36	HIDDEN UNDER	2	0		
37	HIDDEN OVER	1	0		
39					
40	LOCKERS	0	1	4	
41	RAFTER	0	0	18	
	ROOF	0	1	4	
	AWNINGS	0	2	5	
	FASCIA	2	1	0	
	CANOPY	0	1	18	
42	MOVING WALKWAY	0	1	0	
43					
44					
45	ELECTRICAL SWITCHBOARD,	0	0	1	
	ELECTRICAL CUPBOARD	0	1	4	
	ELECTRICAL DISTRIBUTION BOARD	0	1	3	
	ELECTRICAL SUPPLIES	0	1	4	
46					
47	TEXT 1:100 CUPBOARD TYPE ONLY	0	1	5	
48	TEXT 1:100 WALL TYPE ONLY	0	1	5	
49	TEXT 1:100 ROOM NAMES ONLY	0	1	0	250 7 350
50	TEXT 1:100 NOTES	0	1	0	350
51	TEXT 1:500	0	2	0	500
	TEXT 1:500	0	2	0	700
52	FLOOR LEVELS RL'S	0	1	0	
53					
54	VEHICLE TURNTABLE	0	2	4	
55					
56	HOLD CLOUDS AND NOTES	0	0	2	
57	DIMENSION 1:100	0	0	6	
58	ADVERTISING SIGNS AND DISPLAY	0	1	10	
59	ADVERT TEXT	0	1	10	
60	DIRECTORY SIGNS/MONITOR	2	1	10	
61	SIGN TEXT/MONITOR NOS	0	1	10	
62					
63	DATA LEVEL MAP				

Building Services

4.3.1 AIRCONDITIONING

FILE NAME:

LEVEL	DESCRIPTION		LC	WT	CO	FT=2 TH	TW	LS
DUCTWORK								
1	OUTSIDE AIR DUCTS		0	1	2			
2	DUCTWORKS SUPPLY		0	3	4			
3	DUCTWORK RETURN		0	5	0			
4	DUCTWORK EXHAUST		0	2	5			
5	DUCTWORK HATCHING SUPPLY		0	0	0			
6	DUCTWORK HATCHING RETURN		0	0	0			
7	DUCTWORK HATCHING EXHAUST (CELLS)							
8	RISERS SUPPLY		0	1	4			
9	RISERS RETURN		0	1	0			
10	RISERS EXHAUST		0					
11	FLEXIBLE DUCTWORK		4	1	2			
12	CEILING REGISTERS (CELLS)		0	1	3			
13	AIR INTAKE GRILLES ETC (CELLS)		0	1	7			
14	DUCTWORK SUPPORT		0	1	6			
15	AHU'S OTHER EQUIPMENT		0	2	2			
16	AHU'S OTHER EQUIPMENT 1:50		0	2	3			
17	FIRE DAMPERS (CELL)		0	1	3			
18	HEPA FILTERS		0	1	5			
19	TEXT & DIMS	1:50	0	0	4	125	75	
20	TEXT & DIMS	1:100	0	1	2	250	250	125
21	TEXT & DIMS (ARCH TEXT)	1:100	0	0	7	350	350	62.50
22	HOLD CLOUDS, TEMP NOTES ETC		0	1	3	125	750	
23	BREAK LINES		0	0	6	125	750	
24	GENERAL EQUIPMENT 1:100		0	2	4	125	750	
CHILLED WATER								
34	EQUIPMENT	1:100	0	1	5			
35	EQUIPMENT TEXT	1:100	0	0	6	250	150	
36	EQUIPMENT 1:50 AND	1:20	0	0	6			
37	EQUIPMENT TEXT	1:50	0	0	5	125	75	
38	PIPEWORK		0	1	7			
39	PIPEWORK VALVES LINES		0	1	4			
40	PIPEWORK VALVES, SYMBOLS, SUPPORTS		0	0	1			
41	PIPEWORK TEXT	1:100	0	1	3	250	150	
42	PIPEWORK TEXT	1:50	0	0	4	125	75	
43	ALL TEXT	1:20	0	0	3	50	30	

Building Services

LEVEL	DESCRIPTION		LC	WT	CO	FT=2 TH	TW	LS
AIRCON HOT WATER								
47	EQUIPMENT	1:100	0	1	5			
48	EQUIPMENT TEXT	1:100	0	0	6	250	150	
49	EQUIPMENT	1:50 AND 1:20	0	0	6			
50	EQUIPMENT TEXT	1:50	0	0	5	125	75	
51	PIPEWORK		0	1	7			
52	PIPEWORK VALVES LINES		0	1	4			
53	PIPEWORK VALVES, SYMBOLS, SUPPORTS		0	0	1			
54	PIPEWORK TEXT	1:100	0	1	3	250	150	
55	PIPEWORK TEXT	1:50	0	0	4	125	75	
56	ALL TEXT	1:20	0	0	3	50	30	
⋮								
60	HOLD CLOUDS AND TEMP NOTES							

Building Services

4.3.2 COLD WATER

LEVEL	DESCRIPTION	LC	WT	CO	TH	TW
GENERAL EQUIPMENT						
1.	GENERAL EQUIPMENT	1:100	0	1	4	
2	GENERAL EQUIPMENT TEXT	1:100	0	1	3	250 150
3	GENERAL EQUIPMENT	1:50 & 1:20	0	0	3	
4	GENERAL EQUIPMENT	1:50	0	0	4	125 75
SUPPORT SERVICE EQUIPMENT						
5	SUPPORT EQUIPMENT	1:100	0	1	2	
6	SUPPORT EQUIPMENT TEXT	1:100	0	1	1	250 150
7	SUPPORT EQUIPMENT	1:50 & 1:20	0	0	1	
8	SUPPORT EQUIPMENT TEXT	1:50	0	0	2	125 25
9	TEXT	1:20	0	0	3	50 30
WATER COOLING TOWER						
20	EQUIPMENT	1:100	0	1	5	
21	EQUIPMENT TEXT	1:100	0	1	6	250 150
22	EQUIPMENT	1:50 AND 1:200	0	6		
23	EQUIPMENT TEXT	1:50	0	0	5	125 75
24	PIPEWORK		0	1	7	
25	PIPEWORK VALVES		0	1	5	
26	PIPEWORK VALVES AND SUPPORTS		0	0	1	
27	PIPEWORK TEXT	1:100	0	1	3	250 150
28	PIPEWORK TEXT	1:50	0	0	4	125 75
29	ALL TEXT	1:20	0	0	3	50 30
WATER ICE						
30	EQUIPMENT	1:100	0	1	5	
31	EQUIPMENT TEXT	1:100	0	1	6	250 150
32	EQUIPMENT TEXT	1:50 AND 1:20	0	0	6	
33	EQUIPMENT TEXT	1:50	0	0	5	125 75
34	PIPEWORK		0	1	7	
35	PIPEWORK VALVES		0	1	3	
36	PIPEWORK VALVES AND SUPPORTS		0	0	1	
37	PIPEWORK TEXT	1:100	0	1	3	250 150
38	PIPEWORK TEXT	1:50	0	0	4	125 75
39	ALL TEXT	1:20	0	0	3	50 30
DOMESTIC WATER						
40	EQUIPMENT	1:100	0	1	5	
41	EQUIPMENT TEXT	1:100	0	1	6	250 150
42	EQUIPMENT	1:50 AND 1:20	0	0	6	
43	EQUIPMENT TEXT	1:50	0	0	5	125 75

Building Services

LEVEL	DESCRIPTION	LC	WT	CO	TH	TW
44	PIPEWORK	0	1	2		
45	PIPEWORK VALVES	0	1	4		
46	PIPEWORK VALVES AND SUPPORTS	0	0	1		
47	PIPEWORK TEXT	1:100	0	1	3	250
48	PIPEWORK TEXT	1:50	0	0	4	125
49	ALL TEXT	1:20	0	0	3	50
50	HOLD CLOUDS, TEMP NOTES ETC	0	1	3		
51	BREAK LINES	0	1	3		
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						

Building Services

4.3.3 BAGGAGE HANDLING SYSTEM

FILE NAME:

LEVEL	DESCRIPTION	LC	WT	CO	TH FT=2	TW	LS
1	CONVEYORS						
2	LOADING PLATFORM (Plinth)						
3	CONTROL PANELS						
4	CONVEYOR CROSS HATCHING						
5							
6							
7							
8	DRAFT CURTAINS						
9							
..							
14	DIMENSIONS						
15	TEXT (General)						
16	IDENTIFICATION NUMBER						
17	DIRECTION ARROWS						
..							
23	MAINTENANCE ACCESS PLATFORMS						

Building Services

4.4.1 ELECTRICAL INSTALLATIONS

FT = 0

LEVEL	DESCRIPTION	LC	WT	CO	TH	TW
1	TITLE BLOCK		3	4	500	400
2	NOTES AND MISC TEXT		2	4	350	280
3						
4						
5	GPO'S (GENERAL PURPOSE OUTLET)	0	2	3		
6	GPO'S TEXT		1	3	250	200
7						
8						
9						
10	SPECIAL & THREE PHASE OUTLET	0	2	3		
11	SPECIAL & THREE PHASE TEXT		1	3	250	200
12						
13						
14						
15	FLOURESCENT LIGHTS	0	2	6		
16	FLOURESCENT LIGHTS TEXT		1	6	250	200
17						
18						
19						
20	INCANDESCENT LIGHTS	0	2	6		
21	INCANDESCENT LIGHTS TEXT		1	6	250	200
22						
23						
24						
25	EMERGENCY & EXIT LIGHTS	0	2	4		
26	EMERGENCY & EXIT LIGHTS TEXT		1	4	250	200
27						
28						
29						
30	SWITCHES & CABLING	5	1	0		
31	SWITCHES & CABLING TEXT		1	0	250	200
32						
33						
34						
35	DISTRIBUTION BOARDS	0	2	5		
36	DISBTIBUTION BOARDS TEXT		2	5	350	280
37						
38						
39						
40	SIGNS	0	2	2		
41	SIGNS TEXT		1	2	250	200
42						
43						
44						
45	MISC EQUIPMENT: WATER HEATERS, HAND DRYERS SIGNAL LIGHTS	0	2	3		
46	MISC EQUIPMENT: TEXT		1	3	250	200
:						
:						
:						
:						
60	KEY PLAN					
61	KEY PLAN TEXT					

Building Services

4.4.2 FIRE ALARM AND DETECTOR LOCATIONS

LEVEL	DESCRIPTION	LC	WT	CO	TH	TW
1	CIRCUITS LIGHTS	0	0	0		
2	FITTINGS INTERNAL	0	0	2		
3	FITTINGS EXTERNAL	0	0	5		
4	EMERGENCY EXITS AND LIGHTING	0	0	3		
5	SWITCHES	0	0	4		
6	TEXT	1:100	0	0	250	150
7						
8						
9						
10	CIRCUITS POWER	0	0	2		
11	CONDUITS	0	0	2		
12	CABLE TRAYS	0	0	10		
13						
14	SWITCHES	0	0	4		
15	TEXT	1:100	0	0	2	250 150
16						
17						
18						
19	CIRCUITS	0	0	3		
20	SMOKE DETECTORS	0	0	3	250	150
21	THERMAL DETECTORS	0	0	11		
22	FIRE INDICATOR BOARD	0	1	6		
23	TEXT	1:100	0	0	3	250 150
24						
25						
26						
27						
28	CIRCUITS	0	0	6		
29	CONDUITS	0	0	5		
30	WALL AND SKIRTS MOUNTED O/L's	0	0	0		
31	FLOOR MOUNTED O/L's	0	0	10		
32	DIST'N FRAMES - MAIN AND SUB	0	1	11		
33	TEXT	1:100	0	0	6	250 150
34						
35						
36	CIRCUITS	0	0	4		
37	BACKGROUND MUSIC AND PA	0	0	7		
38	INTERCOM (EWIS)	0	0	12		
39	EVACUATION SPEAKERS	0	0	3		
40	TEXT	1:100	0	0	4	250 150

Building Services

LEVEL	DESCRIPTION	LC	WT	CO	TH	TW
41						
42						
43	CIRCUITS	0	0	5		
44	OUTLETS	0	0	11		
45	DIST'N FRAMES	0	1	7		
46	TEXT	1:100	0	5	250	150
47						
48						
49	EQUIPMENT	0	0	7		
50	SECTION AND DETAIL MARKS	1:100	0	0		
51	MAIN SWITCHBOARD	0	1	4		
52	DIST'N BOARDS	0	1	6		
53	SKIRTING DUCTS	0	0	10		
54	BUS DUCT	0	0	11		
55	FLOOR DUCTS	0	0	2		
56	METERING PANELS	0	1	3		
57	TEXT	1:100	0	7	250	150
58						
59						
60						
:						
:						
63						

Building Services

4.5.1 FIRE SERVICES

LEVEL	DESCRIPTION	LC	WT	CO	TH	TW
GENERAL EQUIPMENT						
1	GENERAL EQUIPMENT 1:100	0	1	4		
2	GENERAL EQUIPMENT TEXT 1:100	0	1	3	250	150
3	GENERAL EQUIPMENT 1:50 & 1:20	0	0	3		
4	GENERAL EQUIPMENT TEXT 1:50	0	0	4	125	75
SUPPORT SERVICE EQUIPMENT						
5	SUPPORT EQUIPMENT 1:100	0	1	2		
6	SUPPORT EQUIPMENT TEXT 1:100	0	1	1	250	150
7	SUPPORT EQUIPMENT 1:50 & 1:20	0	0	1		
8	SUPPORT EQUIPMENT TEXT 1:50	0	0	2	125	75
9	ALL TEXT 1:20	0	0	3	50	30
FIRE SERVICES WATER						
20	EQUIPMENT 1:100	0	1	5		
21	EQUIPMENT TEXT 1:100	0	1	6	250	150
22	EQUIPMENT 1:50 & 1:20	0	0	6		
23	EQUIPMENT TEXT 1:50	0	0	5	125	75
24	PIPEWORK	0	1	7		
25	PIPEWORK VALVES	0	1	4		
26	PIPEWORK VALVES & SUPPORTS	0	0	1		
27	PIPEWORK TEXT 1:100	0	1	3	250	150
28	PIPEWORK TEXT 1:50	0	0	4	125	75
29	ALL TEXT 1:20	0	0	3	50	30
FIRE SERVICES						
40	EQUIPMENT 1:100	0	1	5		
41	EQUIPMENT TEXT 1:100	0	1	6	250	150
42	EQUIPMENT 1:50 & 1:20	0	0	6		
43	EQUIPMENT 1:50 & 1:20	0	0	5	125	75
44	PIPEWORK	0	1	7		
45	PIPEWORK VALVES	0	1	4		
46	PIPEWORK VALVES & SUPPORTS	0	0	1		
47	PIPEWORK TEXT 1:100	0	1	3	250	150
48	PIPEWORK TEXT 1:50	0	0	4	125	75
49	ALL TEXT 1:20	0	0	3	50	30
55	HOLD CLOUDS, TEMP NOTES ETC	0	1	3		
56	BREAK LINES	0	1	3		

Building Services

4.5.2 GAS

LEVEL	DESCRIPTION	LC	WT	CO	TH	TW
GENERAL EQUIPMENT						
1	GENERAL EQUIPMENT 1:100	0	1	4		
2	GENERAL EQUIPMENT TEXT 1:100	0	1	3		
3	GENERAL EQUIPMENT 1:50 & 1:20	0	0	3		
4	GENERAL EQUIPMENT TEXT 1:50	0	0	4	125	75
SUPPORT SERVICE EQUIPMENT						
10	SUPPORT EQUIPMENT 1:100	0	1	2		
11	SUPPORT EQUIPMENT TEXT 1:100	0	1	1	250	150
12	SUPPORT EQUIPMENT 1:50 & 1:20	0	0	1		
13	SUPPORT EQUIPMENT TEXT 1:50	0	0	2	125	75
14	ALL TEXT 1:20					
GAS						
NATURAL GAS (G)						
30	EQUIPMENT 1:100	0	1	5		
31	EQUIPMENT TEXT 1:100	0	1	6	250	150
32	EQUIPMENT 1:50 & 1:20	0	0	6		
33	EQUIPMENT TEXT 1:50	0	0	5	125	75
34	PIPEWORK	0	1	7		
35	PIPEWORK VALVES	0	0	4		
36	PIPEWORK VALVES & SUPPORTS	0	0	1		
37	PIPEWORK TEXT 1:100	0	1	3	250	150
38	PIPEWORK TEXT 1:50	0	0	4	125	75
39	ALL TEXT 1:20	0	0	3	50	30
NITROGEN (NG)						
51	EQUIPMENT 1:100	0	1	5		
52	EQUIPMENT TEXT 1:100	0	1	6	250	150
53	EQUIPMENT 1:50 & 1:20	0	0	6		
54	EQUIPMENT TEXT 1:50	0	0	5	125	75
55	PIPEWORK	0	1	6		
56	PIPEWORK VALVES	0	1	4		
57	PIPEWORK VALVES & SUPPORT	0	0	1		
58	PIPEWORK TEXT 1:100	0	1	3	250	150
59	PIPEWORK TEXT 1:50	0	0	4	125	75
60	ALL TEXT 1:20	0	0	3	50	30
61	HOLD CLOUDS, TEMP NOTES ETC	0	1	3		
62	BREAK LINES	0	1	3		

Building Services

4.5.3 STEAM AND HOT WATER

LEVEL	DESCRIPTION		LC	WT	CO	TH	TW
STEAM							
GENERAL EQUIPMENT							
1	GENERAL EQUIPMENT	1:100	0	1	4		
2	GENERAL EQUIPMENT						
	TEXT	1:100	0	1	3	250	150
3	GENERAL EQUIPMENT	1:50 & 1:20	0	0	3		
4	GENERAL EQUIPMENT TEXT	1:50	0	0	5	125	75
SUPPORT SERVICES							
5	SUPPORT EQUIPMENT	1:100	0	1	2		
6	SUPPORT EQUIPMENT						
	TEXT	1:100	0	1	1	250	150
7	SUPPORT EQUIPMENT	1:50 & 1:20	0	0	1		
8	SUPPORT EQUIPMENT TEXT	1:50	0	0	2	125	75
9	ALL TEXT	1:20	0	0	3	50	30
SATURATED STEAM							
10	EQUIPMENT	1:100	0	1	5		
11	EQUIPMENT TEXT	1:100	0	1	6	250	150
12	EQUIPMENT	1:50 AND 1:20	0	0	6		
13	EQUIPMENT TEXT	1:50	0	0	5	125	75
14	PIPEWORK		0	1	7		
15	PIPEWORK VALVES LINES		0	1	4		
16	PIPEWORK VALVES, SYMBOLS, SUPPORTS		0	0	1		
17	PIPEWORK TEXT	1:100	0	1	3	250	150
18	PIPEWORK TEXT	1:50	0	0	4	125	75
19	ALL TEXT	1:20	0	0	3	50	30
STEAM CONDENSATE							
20	EQUIPMENT	1:100	0	1	5		
21	EQUIPMENT TEXT	1:100	0	1	6	250	150
22	EQUIPMENT	1:50 AND 1:20	0	0	6		
23	EQUIPMENT TEXT	1:50	0	0	5	125	75
24	PIPEWORK		0	1	6		
25	PIPEWORK VALVE LINES		0	1	4		
26	PIPEWORK VALVE SYMBOLS, SUPPORTS		0	0	1		
27	PIPEWORK TEXT	1:100	0	1	3	250	150
28	PIPEWORK TEXT	1:50	0	0	4	125	75
29	ALL TEXT	1:20	0	0	3	50	30

Building Services

LEVEL	DESCRIPTION	LC	WT	CO	TH	TW
HOT WATER						
GENERAL EQUIPMENT						
30	GENERAL EQUIPMENT 1:100	0	1	4		
31	GENERAL EQUIPMENT TEXT 1:100	0	1	3	250	150
32	GENERAL EQUIPMENT 1:50 & 1:20	0	0	3		
33	GENERAL EQUIPMENT TEXT 1:50	0	0	4	125	75
SUPPORT SERVICES						
34	SUPPORT EQUIPMENT	0	1	2		
35	SUPPORT EQUIPMENT TEXT 1:100	0	1	1	250	150
36	SUPPORT EQUIPMENT 1:50 & 1:20	0	0	1		
37	SUPPORT EQUIPMENT TEXT 1:50	0	0	2	125	75
38	ALL TEXT 1:20	0	0	3	50	30
DOMESTIC HOT WATER						
39	EQUIPMENT 1:100	0	1	5		
40	EQUIPMENT TEXT 1:100	0	1	6	250	150
41	EQUIPMENT 1:50 & 1:20	0	0	6		
42	EQUIPMENT TEXT 1:50	0	0	5	125	75
43	PIPEWORK	0	1	7		
44	PIPEWORK VALVES LINES	0	1	4		
45	PIPEWORK VALVES, SYMBOLS, SUPPORTS	0	0	1		
46	PIPEWORK TEXT 1:100	0	1	3	250	150
47	PIPEWORK TEXT 1:50	0	0	4	125	75
48	ALL TEXT 1:20	0	0	3	50	30
HEATING HOT WATER						
49	EQUIPMENT 1:100	0	1	5		
50	EQUIPMENT TEXT 1:100	0	1	6	250	150
51	EQUIPMENT 1:50 & 1:20	0	0	6		
52	EQUIPMENT TEXT 1:50	0	0	5	125	75
53	PIPEWORK	0	1	7		
54	PIPEWORK VALVE LINES	0	1	4		
55	PIPEWORK VALVE SYMBOLS, SUPPORTS	0	0	1		
56	PIPEWORK TEXT 1:100	0	1	3	250	150
57	PIPEWORK TEXT 1:50	0	0	4	125	75
58	ALL TEXT 1:20	0	0	3	50	30
59						
60						
:						
63						

Building Services

4.6.1 STRUCTURAL

LEVEL	DESCRIPTION	LC	WT	CO	TH	TW
FOOTINGS						
1						
2	FOOTINGS		3	5		
3	FOOTINGS					
4	FOOTINGS					
5	FOOTINGS					
6						
7						
8	CONC WALLS	0	2	5		
9						
CONCRETE						
10	SLAB OUTLINE	0	1	4		
11	REINFORCED CONCRETE COLUMNS	0	2	4		
12	REINFORCED CONCRETE BEAMS	0	2	4		
13	DROP PANELS	2	2	5		
14	SET DOWNS	0	1	4		
15	PITS	0	1	2		
16	PLINTHS	0	1	2		
17	TOP REINFORCEMENT	0	3	1		
18	BOTTOM REINFORCEMENT	0	3	1		
19	PENETRATIONS	0	1	2		
20						
21						
22						
23						
24						
STEEL						
25	STEEL TRUSSESS	5	3	2		
26	STEEL COLUMNS, POSTS ETC	0	1	4		
27	STEEL BEAMS, RAFTERS	0	2	2		
28	STEEL BRACING, TIES ETC	0	2	2		
29	STEEL PURLINS, SAG RODS	0	1	0		
30	GRID FLOORING	0	0	6		
31	GRANE BEAMS, MONORAILS, HOISTS	0	3	5		
32						
33						
34						
35						
36						
37						
38	HIDDEN UNDER	2	0			
39	HIDDEN OVER	1	0			

Building Services

LEVEL	DESCRIPTION	LC	WT	CO	TH	TW
40						
41						
42						
43						
44						
45						
46						
47						
48						
49						
	TEXT					
50	SECTION AND DETAILS					
	MARKERS 1:100	0	1	6	350	250
51	SECTION AND DETAILS					
	MARKERS 1:500	0	1	6		
52	STRUCTURAL FLOOR LEVELS	0	3		500	300
53						
54						
55						
56						
57	TEXT AND DIMENSIONS 1:100	0	0	6	350	250
58	TEXT AND DIMENSIONS 1:500	0	0	6	1250	750
59						
60						
61	HOLD CLOUDS, TEMP NOTES ETC	0	0	2		
62	BREAK LINES	0	0	1		
63						

Building Services