

TABLE OF CONTENTS

1	INTRODUCTION	1
1.1	Purpose	1
1.2	Scope	1
1.3	People with Disabilities	2
1.4	Mobility / Agility	2
1.5	Hearing Impairments	2
1.6	Visual Impairments	3
1.7	Other Disabilities	3
1.8	Base Documents	4
2	GENERAL REQUIREMENTS	5
2.1	Space Allowances	5
2.2	Controls and Operating Mechanisms	5
2.3	Ground and Floor Surfaces	5
2.4	Walls	11
2.5	Protruding Objects	12
2.6	Detectable Warning Surfaces	16
2.7	Anthropometrics	16
3	SIDEWALKS AND WALKWAYS	24
3.1	General	24
3.2	Orientation and Wayfinding	24
3.3	Definitions	24
3.4	Minimum Width of Sidewalks	25
3.5	Minimum Width of Walkways	25
3.6	Surfaces for Sidewalks and Walkways	25
3.7	Slope of Sidewalks	25
3.8	Slope of Walkways	26
3.9	Walkways Through Parking Lots and Access Roads	26
3.10	Edges Along Sidewalks and Walkways	26
3.11	Drainage Structures and Gratings	27
3.12	Protruding Objects	27
3.13	Curb Ramps	27
3.14	Drainage Structures	28
3.15	Raised Islands	32
3.16	Crosswalk Controls	32
3.17	Walkways and Sidewalks Adjacent to Construction Sites	32
3.18	Bus Stops	33
3.19	Winter Maintenance	33
4	PARKING	37
4.1	General	37
4.2	Snow Clearance	37
4.3	Car Parking Spaces	37

	4.3	Car Parking Spaces	37
	4.4	Van Parking Spaces	40
	4.5	Signs	40
	4.6	Passenger Loading Zones	43
	4.7	Number of Parking Spaces	43
5		ILLUMINATION	47
	5.1	General	47
	5.2	Interior Illumination	48
	5.3	Stairways and Ramps	48
	5.4	Exterior Illumination	48
6		SIGNAGE	52
	6.1	General	52
	6.2	Characters	52
	6.3	Tactile Characters or Symbols	54
	6.4	Contrast	54
	6.5	Illumination	54
	6.6	Night Viewing	54
	6.7	Street Signs	54
	6.8	Orientation / Wayfinding	56
	6.9	Access Signs	56
	6.10	Electronic Signs	58
7		CIRCULATION	59
	7.1	Accessible Routes, Paths or Corridors	59
	7.2	Doors	59
	7.3	Manoeuvring Space	65
	7.4	Thresholds	65
	7.5	Door Hardware	68
	7.6	Door Opening Forces	68
	7.7	Power-Assisted and Automatic Doors	70
	7.8	Door Closers	71
8		RAMPS	73
	8.1	General	73
	8.2	Ramp Slopes	73
	8.3	Cross Slope	75
	8.4	Width	75
	8.5	Landings	75
	8.6	Detectable Warning Surfaces	75
	8.7	Ramp Surfaces	75
	8.8	Edge Protection	77
	8.9	Ramp Handrails	77
	8.10	Illumination	79
	8.11	Exterior Ramps	79
9		STAIRS	80
	9.1	General	80

	9.2	Treads and Risers	80
	9.3	Nosings	80
	9.4	Detectable Warning Surfaces	82
	9.5	Stair Handrails	82
	9.6	Handrails	86
	9.7	Guards	86
10		ELEVATORS AND LIFTS	90
	10.1	General	90
	10.2	Elevator Doors and Operation	90
	10.3	Car Inside	90
	10.4	Car Controls	91
	10.5	Car Position and Call Indicators	91
	10.6	In-Car Telephone	91
	10.7	Floor Covering	93
	10.8	Handrails	93
	10.9	Illumination	93
	10.10	Hall Call Buttons	93
	10.11	Hall or In-Car Lanterns	94
	10.12	Floor Designations	94
	10.13	Other Considerations	94
	10.14	Elevating Devices	94
11		WASHROOM FACILITIES	95
	11.1	General	95
	11.2	Washroom Identification	95
	11.3	Toilet Stalls	95
	11.4	Toilets	99
	11.5	Urinals	101
	11.6	Lavatories	101
	11.7	Washroom Accessories	104
	11.8	Individual Washrooms	104
	11.9	Bathtubs	108
	11.10	Shower Stalls	110
	11.11	Water Temperature	113
	11.12	Grab Bars	114
	11.13	Drinking Fountains	114
	11.14	Portable Toilets at Special Events	116
12		COMMUNICATIONS	118
	12.1	Public Telephones	118
	12.2	Telephones for Use by Deaf and Hard of Hearing Persons	118
	12.3	Directional Signs	119
	12.4	Assistive Listening Systems	119
	12.5	Public Address Systems	121
	12.6	Intercoms	121
	12.7	Emergency Call Systems	121

13	CLASSROOMS / LECTURE HALLS / THEATRES/ AMPHITHEATRES / LABS (Computer and Science) / MEETING ROOMS	122
13.1	General	122
13.2	Accessible Routes, Paths or Corridors	122
13.3	Audio Amplification	122
13.4	Classrooms	122
13.5	Assembly Areas	122
13.6	Wheelchair Seating Areas	123
13.7	Service Animals	123
13.8	Work Stations (Desks, Tabletops, Computers)	126
13.9	Science Labs	126
14	BOOKSTORES / BANKS (ABM'S) / RETAIL OUTLETS	129
14.1	General	129
14.2	Information Displays	129
14.3	Cash Registers	129
14.4	Banks (ABM's)	129
15	LIBRARIES	131
15.1	General	131
15.2	Information Displays and Bookstacks	131
15.3	Work Stations, Equipment & Terminals (Computer and Microfiche)	133
15.4	Circulation/Lending and Reference/Information Counters	133
15.5	Special Equipment	135
16	RESIDENCES	136
16.1	General	136
16.2	Dorm Rooms	136
16.3	Washrooms	137
16.4	Kitchenettes	137
16.5	Common Rooms / TV Rooms / Study Rooms-Libraries / Party/Games Rooms / Music Rooms	139
16.6	Laundry Rooms	141
16.7	Locker / Storage Rooms	146
17	CAFETERIAS / FOOD COURTS (RESTAURANTS) / PUBS / BARS	143
17.1	General	143
17.2	Pedestrian Routes	143
17.3	Self-Service Areas	143
17.4	Cash Registers	143
17.5	Tables, Counters and Bars	144
18	SITE FURNISHINGS & AMENITIES	145
18.1	General	145
18.2	Maintenance	145
18.3	Benches	145
18.4	Picnic or Outdoor Tables	145
18.5	Litter Receptacles	147
18.6	Bicycle Racks & Storage Areas	147

19	OPEN SPACE CONSIDERATIONS	150
	19.1 General	150
	19.2 Walls	150
	19.3 Gates or Openings	150
	19.4 Fences	151
	19.5 Barriers	151
	19.6 Minor Pathways or Pathways within Parks	152
	19.7 Bikeways and Multi-use Recreational Paths	153
20	RECREATIONAL ACCOMMODATION AND MISCELLANEOUS	155
	20.1 General	155
	20.2 Change Rooms	155
	20.3 Lockers	155
	20.4 Weight Rooms	156
	20.5 Swimming Pools	156
	20.6 Clothes Storage	157
	20.7 Reception Desks	157
	20.8 Ticket Counters	157
21	SECURITY	158
	21.1 Locks	158
	21.2 Building Control Systems	158
	21.3 Security Desks	158
22	EMERGENCY FIRE PREPAREDNESS	159
	22.1 General	159
	22.2 Egress Routes	159
	22.3 Audio and Visual Alarms	159
	22.4 Areas of Refuge	160
	22.5 Fire Protection Strategies	161
	22.6 Emergency Plans	161

TABLE OF FIGURES

Figure 2.1 - Minimum Clear Floor Area	6
Figure 2.2 - Minimum Clear Turning Space	7
Figure 2.3 - Height of Controls and Operating Mechanisms	8
Figure 2.4 - Limits of Protruding Objects	13
Figure 2.5 - Freestanding Objects Suspended on Posts	14
Figure 2.6 - Overhead Hazards	15
Figure 2.7.1 - Forward Reach Without Obstruction	17
Figure 2.7.2 - Forward Reach Over Obstruction	18
Figure 2.7.3 - Side Reach Without Obstruction	19
Figure 2.7.4 - Side Reach Over Obstruction	20
Figure 2.8 - Wheelchair Dimensions	21
Figure 2.9 - Walking Width for Persons Using Crutches	23
Figure 3.1 - Curb Ramps at Pedestrian Crosswalks	29
Figure 3.2 - Curb Ramp with Flared Sides	30
Figure 3.3 - Curb Ramp with Returned Curb	31
Figure 3.4 - Construction Considerations	35
Figure 3.5 - Benches	36
Figure 4.1 - Parking Stall	38
Figure 4.2 - Parking Stall, Diagonal to Curb	39
Figure 4.3 - Van Parking Stall	41
Figure 4.4 - Uniform Traffic Control	42
Figure 4.5 - Sign to Designated Parking	44
Figure 4.6 - Access Aisle at Passenger Loading Zone	45
Figure 4.7 - Vertical Clearance at Passenger Loading Zone	46
Figure 6.1 - Raised Characters or Symbols	53
Figure 6.2 - Legibility of Printed Characters	55
Figure 6.3 - Symbols	57
Figure 7.1 - Width of Accessible Routes	60
Figure 7.2 - Width of Accessible Routes with Turns	61
Figure 7.3 - Access Beside Turnstiles	62
Figure 7.4 - Width of Accessible Checkout Lanes	63
Figure 7.5 - Clear Opening at Doorway	64
Figure 7.6 - Manoeuvring Space at Doors in Series	66
Figure 7.7 - Manoeuvring Space at Doors	67
Figure 7.8 - Handles	69
Figure 7.9 - Guards	72
Figure 8.1 - Ramp Slope	74
Figure 8.2 - Ramps and Landings	76
Figure 8.3 - Edge Protection	78
Figure 9.1 - Stair Detail	81

Figure 9.2 - Handrail Extension at Bottom of Stair	83
Figure 9.3 - Stairway Handrails	84
Figure 9.4 - Continuous Handrail	85
Figure 9.5 - Handrail Extension at Top of Stair	87
Figure 9.6 - Handrails in Recess	88
Figure 10.1 - Car Controls	92
Figure 11.1 - Example of Accessible Washroom Layout	96
Figure 11.2 - Toilet Stall	97
Figure 11.3 - Toilet Stall Clearances	98
Figure 11.4 - Clear Area Around Toilet	100
Figure 11.5 - OBC Grab Bar Configurations	102
Figure 11.6 - Recommended Grab Bar Configurations	103
Figure 11.7 - Lavatory Clearances	105
Figure 11.8 - Washroom Accessories	106
Figure 11.9 - Sample Washroom Layout	107
Figure 11.10 - Bathtubs	109
Figure 11.11 - Roll-In Shower Stall	111
Figure 11.12 - Shower Stall with Seat	112
Figure 11.13 - Drinking Fountain	115
Figure 11.14 - Spout Height and Knee Clearances at Drinking Fountain	117
Figure 12.1 - Assistive Listening Systems	120
Figure 13.1 - Assembly Areas	124
Figure 13.2 - Wheelchair Seating Areas	125
Figure 13.3 - Forward and Side Approach to Table or Counter	127
Figure 15.1 - Stacks	132
Figure 15.2 - Card Catalog	134
Figure 16.1 - Clothes Storage	138
Figure 16.2 - Work Surface and Sink	140
Figure 16.3 - Laundry Facilities	142
Figure 18.1 - Picnic Table	146

TABLE OF TABLES

Table 2.1 - Slip-Resistance of Typical Flooring Surfaces	9
Table 2.2 - Changes in Level	11
Table 3.1 - Pathway Surfacing	32
Table 5.1 - Illumination Levels (Transportation Assoc. of Canada)	49
Table 5.2 - Illumination Levels (Illumination Engineers Society)	50
Table 5.3 - Lamp Types and Characteristics	51
Table 6.1 - Character Height Dimensions	52
Table 7.1 - Manoeuvring Space at Doors	65
Table 8.1 - Slopes	73
Table 18.1 - Vegetation Considerations	149