Contents

		xv xvii	1.2	Planning, Design, Construction, and Commissioning		13	
About th	e <i>Guideli</i>	nes	xxxiii	1.2-1	General		13
Major Additions and Revisions Glossary List of Acronyms		nd Revisions	xxxvii xli xlvii		1.2-1.1 1.2-1.2 1.2-1.3	Planning and Design Process	
Part 1	Gener	al		1.2-2	Functio	nal Program	14
1.1	Introdu		3			General Functional Program Content	
1.1-1	General		3	1.2-3	Reserve	d	16
		Application	5	1.2-4	Safety R	lisk Assessment	16
		Application Minimum Standards for New Facilities and Renovations			1.2-4.1 1.2-4.2	General Infection Control Risk Assessment	
1.1-2	New Co	nstruction	3		1.2-4.3	Resident Mobility and Transfer Risk Assessment	
		Site Preparation Structural Additions to Existing Facili Change in Function	ties		1.2-4.4 1.2-4.5 1.2-4.6	Medication Safety Assessment Resident Dementia and Behavioral	
1.1-3	Renovat	ion	4		1.2-4.7	and Mental Health Risk Assessment Security Risk Assessment	
	1.1-3.1 1.1-3.2	General Facilities Subject to Compliance with the <i>Guidelines</i>			1.2-4.8	•	
		Undiminished Safety		1.2-5	Environ	ment of Care Requirements	30
	1.1-3.4	Long-Range Improvement			1.2-5.1	, , , , , , , , , , , , , , , , , , , ,	
1.1-4	Governr	nent Regulations	5		1.2-5.2 1.2-5.3	User Accommodations Systems Design	
	1.1-4.1	Design Standards for Accessibility			1.2-5.4	-	
	1.1-4.2	Regulations for Earthquake-Resistant			1.2-5.5	Physical Environment Elements	
	1.1-4.3	Design for New Buildings Flood Protection		1.2-6	Planning	g Considerations and Requirements	34
	1.1-4.4		1		1.2-6.1	Acoustic Design	
	1145	of Resident Health Information			1.2-6.2	5 - 5 5	
	1.1-4.5	Environmental Regulations			1.2-6.3	5	
1.1-5	Building	Codes and Standards	6		1.2-6.4	5 5 7 5	
	1.1-5.1	Safe Environment			1.2-6.5	Planning Considerations for Accommodation of Individuals of Size	
	1.1-5.2	Code Compliance			1.2-6.6		with
1.1-6	Equivale	ency Concepts	7			Dementia, Behavioral and Mental	
1.1-7	English/	Metric Measurements	7			Health Issues, and Cognitive and Developmental Disabilities	
1.1-8		tandards, Documents, and Tools ced in the <i>Guidelines</i>	7		1.2-6.7	Planning Considerations for Resident Quality of Life	
					1.2-6.8	Planning Considerations for Inclusive Environments	

CONTENTS

1.2-7	Renovat	ion	49	Part 2	Comm	non Elements for Residential		
	1.2-7.1 Phasing			Health, Care, and Support Facilities				
	1.2-7.2 1.2-7.3	- /		2.1	Commo	on Elements	73	
		Maintenance of Utilities Nonconforming Conditions		2.1-1	General		73	
1.2-8		Existing Conditions Drawings and Manuals	50		2.1-1.2	Application Functional Program		
	1.2-8.1	Drawings			2.1-1.3	Site		
		Equipment Information		2.1-2		t, Patient, and Participant Areas General	74	
1.2-9	Commis	sioning	51			Resident Unit or Resident Living Area		
		Commissioning Activities Commissioning Agent			2.1-2.4 -	Dining, Recreation, and Activity Areas - 2.1-2.7 Reserved Support Areas for Resident, Patient, and Participant Areas		
1.3	Site		63			Support Areas for Staff		
1.3-1	General		63			Support Areas for Family and Visitors		
	1.3-1.1	Application		2.1-3	_	stic and Treatment Areas	86	
1.3-2	Locatior	1	63			General Exam/Treatment Room		
	1.3-2.2 1.3-2.3 1.3-2.4	Access to Utilities			2.1-3.3 2.1-3.4 2.1-3.5 2.1-3.6	Accommodations for Telemedicine Serv Wellness Center Rehabilitation Therapy Facilities - 2.1-3.7 Reserved Support Areas for Diagnostic and	ices	
1.3-3	Site Feat	tures	64			Treatment Areas		
	1.3-3.1 1.3-3.2 1.3-3.3	Pedestrian Walkways		2.1-4		Support Areas for Staff t Support Facilities	93	
	1.3-3.4 1.3-3.5 1.3-3.6	Signage and Wayfinding			2.1-4.2	Food Service Facilities Linen and Laundry Service Facilities		
1.3-4		mental Pollution Control	65	2.1-5	_	y Support Facilities	98	
	1.3-4.1	General Additional Criteria for Site Sustainability	00		2.1-5.2 2.1-5.3	Materials Management Waste Management Environmental Services Engineering and Maintenance Services		
1.4	Equipm	ent	67	2.1-6	Public a	nd Administrative Areas	99	
1.4-1	General 1.4-1.1 1.4-1.2	Application Equipment List	67		2.1-6.1 2.1-6.2 2.1-6.3	Reserved Public Areas Administrative Areas		
	1.4-1.3	Documentation Requirements		2.1-7	Design a	and Construction Requirements	100	
1.4-2	Equipme	ent Classification	68		2.1-7.1	Building Codes and Standards		
1.4-3	Equipmo	ent Requirements	68		2.1-7.2	Architectural Details, Surfaces, and Furnishings		
	1.4-3.1 1.4-3.2	, , , , , , , , , , , , , , , , , , , ,		2.1-8	Building	y Systems	110	
1.4-4	Space Re	equirements for Equipment	69		2.1-8.1	5, 5		
	1.4-4.1 1.4-4.2	Fixed and Building Service Equipment Movable and Portable Equipment			2.1-8.3 2.1-8.4	•		

		Daylighting and Artificial Lighting Syste	ms		3.2-1.5	Environment of Care Requirements	
	2.1-8.8	Elevator Systems		3.2-2	Hospice	Patient Areas	160
Part 3		ential Health Facilities				General Hospice Patient Unit Dining, Recreation, and Activity Areas	
3.1	Specific	Requirements for Nursing Homes	129	3.2-3	Diagnos	tic and Treatment Areas	166
3.1-1	General 3.1-1.1	Application	129			General Exam/Treatment Room	
	3.1-1.2 3.1-1.3	Functional Program Site		3.2-4	Hospice	Patient Support Facilities	166
	3.1-1.4	Safety Risk Assessment Environment of Care Requirements				Food Service Facilities Linen and Laundry Service Facilities	
3.1-2	Residen	t Areas	132	3.2-5	Building	Support Facilities	166
		General Desident list		3.2-6	Public a	nd Administrative Areas	166
2 1 2	3.1-2.3	Resident Unit Dining, Recreation, and Activity Areas	142		3.2-6.2	General Public Areas	
3.1-3	_	tic and Treatment Areas General	142	2 2 7		Administrative Areas	167
		Exam/Treatment Room		3.2-7	-	and Construction Requirements Building Codes and Standards	107
		Accommodations for Telemedicine Serv Reserved Rehabilitation Therapy Facilities	rices			Architectural Details, Surfaces, and Furnishings	
	3.1-3.6	Wellness Centers		3.2-8	Building	Systems	167
	3.1-3.7	Dialysis Facilities				General	
3.1-4		t Support Facilities	146		3.2-8.2	Heating, Ventilation, and Air- Conditioning Systems	
		Food Service Facilities Linen and Laundry Service Facilities			3.2-8.3	Electrical Systems	
3.1-5		Support Facilities	147		3.2-8.4 3.2-8.5	5 7	
3.1-6	-	nd Administrative Areas	147		3.2-8.6	Electronic Safety and Security Systems	
		General Public Areas			3.2-8.7 3.2-8.8	Daylighting and Artificial Lighting Syste Elevator Systems	ems
3.1-7	Design a	and Construction Requirements	147	Part 4	Reside	ential Care and Support Facilitie	es
		Building Codes and Standards Architectural Details, Surfaces, and Furnishings		4.1	Specific Setting	Requirements for Assisted Living s	175
3.1-8	Building	Systems	148	4.1-1	General		175
	3.1-8.2 3.1-8.3 3.1-8.4	5,			4.1-1.2 4.1-1.3 4.1-1.4	Application Functional Program Site Safety Risk Assessment Environment of Care Requirements	
		Communications Systems Electronic Safety and Security Systems		4.1-2	Residen	t Areas	178
	3.1-8.7 3.1-8.8	Daylighting and Artificial Lighting Syste Elevator Systems	ms		4.1-2.1 4.1-2.2 4.1-2.3	General Resident Unit or Private Living Area Dining, Recreation, and Activity Areas	
3.2	Specific	Requirements for Hospice Facilities	159	4.1-3	Diagnos	tic and Treatment Areas	182
3.2-1	General		159	4.1-4	Residen	t Support Facilities	182
	3.2-1.1 3.2-1.2	Application Functional Program			4.1-4.1 4.1-4.2	Food Service Facilities Linen and Laundry Service Facilities	
	3.2-1.3 3.2-1.4	Site Safety Risk Assessment		4.1-5	Building	Support Facilities	183

4.1-6	Public a	nd Administrative Areas	183
	4.1-6.1 4.1-6.2	General Public Areas	
4.1-7	Design a	and Construction Requirements	183
	4.1-7.1 4.1-7.2	<u> </u>	
4.1-8	Building	Systems	184
	4.1-8.1 4.1-8.2	Heating, Ventilation, and Air- Conditioning Systems	
	4.1-8.3 4.1-8.4 4.1-8.5	Plumbing Systems Communications Systems	
	4.1-8.6 4.1-8.7 4.1-8.8	Daylighting and Artificial Lighting Syste	ems
4.2	Specific Setting	Requirements for Independent Living	l 193
4.2-1	General		193
	4.2-1.1 4.2-1.2 4.2-1.3 4.2-1.4	Application Functional Program	
4.2-2			195
	4.2-2.1 4.2-2.2		
4.2-3	Diagnos	tic and Treatment Areas	198
4.2-4	Residen	t Support Facilities	198
4.2-5	Building	Support Facilities	199
	4.2-5.1 4.2-5.2	Materials Management Waste Management	
4.2-6	Public a	nd Administrative Areas	199
	4.2-6.1 4.2-6.2 4.2-6.3		
4.2-7	Design a	and Construction Requirements	200
	4.2-7.1 4.2-7.2	Building Codes and Standards Architectural Details, Surfaces, and Furnishings	
4.2-8	Building	Systems	201
	4.2-8.1 4.2-8.2	Heating, Ventilation, and Air- Conditioning Systems	
	4.2-8.3 4.2-8.4 4.2-8.5 4.2-8.6	Communications Systems	
	4.2-8.7 4.2-8.8 4.2-8.8		ems

4.3	-	: Requirements for Long-Term ntial Substance Abuse Treatment es	207
4.3-1	General		207
	4.3-1.2 4.3-1.3 4.3-1.4	Application Functional Program Site Safety Risk Assessment Environment of Care Requirements	
4.3-2		•	210
	4.3-2.2	General Resident Unit or Private Living Area Dining, Recreation, and Activity Areas	
4.3-3	Diagnos	stic and Treatment Areas	212
4.3-4	Residen	t Support Facilities	212
		Food Service Facilities Linen and Laundry Service Facilities	
4.3-5	Building	Support Facilities	213
		Reserved Waste Management	
4.3-6	Public a	nd Administrative Areas	213
	4.3-6.2	General Public Areas Administrative Areas	
4.3-7	Design a	and Construction Requirements	213
	4.3-7.1 4.3-7.2	Building Codes and Standards Architectural Details, Surfaces, and Furnishings	
4.3-8	Building	Systems	213
	4.3-8.1 4.3-8.2 4.3-8.3 4.3-8.4 4.3-8.5 4.3-8.6 4.3-8.7 4.3-8.8	Heating, Ventilation, and Air- Conditioning Systems Electrical Systems Plumbing Systems Communications Systems Electronic Safety and Security Systems Daylighting and Artificial Lighting System	ems
4.4	Individ	: Requirements for Settings for uals with Intellectual Developmental Disabilities	217
4.4-1	General	-	217
. •	4.4-1.1 4.4-1.2 4.4-1.3	Application Functional Program Site Safety Risk Assessment	
4.4-2	Residen		219
	4.4-2.1 4.4-2.2 4.4-2.3	5	

4.4-3	Diagnos	tic and Treatment Areas	221	5.1-5	Building	g Support Facilities	237
4.4-4	Residen	t Support Facilities	221	5.1-6	Public a	nd Administrative Areas	237
		Food Service Facilities Linen and Laundry Service Facilities				Reserved Public Areas Administrative Areas	
4.4-5	Building	Support Facilities	222	5.1-7		and Construction Requirements	237
	4.4-5.2 4.4-5.3	Materials Management Waste Management Facilities Environmental Services Rooms Engineering and Maintenance Services		5.1.0	5.1-7.1 5.1-7.2	Building Codes and Standards Architectural Details, Surfaces, and Furnishings	220
446	Dublica	in Medium and Large Settings	222	5.1-8	-	g Systems	238
4.4-6		nd Administrative Areas	222		5.1-8.1 5.1-8.2	General Heating, Ventilation, and Air-	
		General Public Areas				Conditioning Systems	
4.4-7		and Construction Requirements	222		5.1-8.3 5.1-8.4	,	
	-	Building Codes and Standards			5.1-8.5	Communications Systems	
		Architectural Details, Surfaces, and Furnishings			5.1-8.6 5.1-8.7 5.1-8.8	Daylighting and Artificial Lighting Syste	ems
4.4-8	Building	Systems	223				
		General		5.2	Specific	c Requirements for Wellness Centers	241
	4.4-8.2	Heating, Ventilation, and Air- Conditioning Systems		5.2-1	General		241
		Electrical Systems				Application	
		Plumbing Systems			5.2-1.2	Functional Program Site	
		Communications Systems Electronic Safety and Security Systems			5.2-1.4	Safety Risk Assessment	
	4.4-8.7	Daylighting and Artificial Lighting Syste	ems		5.2-1.5	Environment of Care Requirements	
	4.4-8.8	Elevator Systems		5.2-2	Participa	ant Areas	242
Part 5	Nonre	sidential Support Facilities				 - 5.2-2.2 Reserved Participant Health and Wellness Areas 	
5.1	Specific	Requirements for Adult Day Care		5.2-3	Diagnos	stic and Treatment Areas	244
		It Day Health Care Facilities	231		5.2-3.1	General	
5.1-1	General		231	5.2-4	Participa	ant Support Facilities	244
	5.1-1.1	Application			5.2-4.1	Food Service Facilities	
		Functional Program		5.2-5	Building	g Support Facilities	245
	5.1-1.3 5.1-1.4	Site Safety Risk Assessment		5.2-6	Public a	nd Administrative Areas	245
		Environment of Care Requirements		5.2 0	5.2-6.1		215
5.1-2	Participa	ant Areas	232		5.2-6.2		
	5.1-2.1	General			5.2-6.3	Administrative Areas	
		Reserved		5.2-7	Design a	and Construction Requirements	245
		Dining, Recreation, and Activity Areas Special Care Participant Areas		5.2-8	Building	g Systems	245
		- 5.1-2.7 Reserved		J.2-0	-		243
		Support Areas for Participant Areas			5.2-8.1 5.2-8.2	General Heating, Ventilation, and Air-	
		Support Areas for Staff Support Areas for Family and Visitors			5.2 0.2	Conditioning Systems	
F 1 2			226		5.2-8.3	Electrical Systems	
5.1-3	-	tic and Treatment Areas	236		5.2-8.4 5.2-8.5	Plumbing Systems Communications Systems	
	5.1-3.1 5 1-3 2	General Exam/Treatment Room			5.2-8.5 5.2-8.6		
			226		5.2-8.7	Daylighting and Artificial Lighting Syste	ems
5.1-4	-	ant Support Facilities	236		5.2-8.8	Elevator Systems	
	5.1-4.1	Food Service Facilities					

CONTENTS

5.3	Specific Requirements for Outpatient		5.3-6	Public and Administrative Areas		252
5.3-1	Rehabilitation Therapy Facilities	247 247		5.3-6.1 5.3-6.2	Reserved Public Areas	
5.5-1	5.3-1.1 Application	247		5.3-6.3	Administrative Areas	
	5.3-1.2 Functional Program		5.3-7	Design a	and Construction Requirements	253
	5.3-1.3 Site5.3-1.4 Safety Risk Assessment5.3-1.5 Environment of Care Requirements			5.3-7.1 5.3-7.2	5	
5.3-2	Reserved	248	5.3-8	Building	Systems	253
5.3-3	Diagnostic and Treatment Areas	248		5.3-8.1	General	
	5.3-3.1 General 5.3-3.2 Physical and/or Occupational			5.3-8.2	Heating, Ventilation, and Air- Conditioning Systems	
	Therapy Rooms and Areas			5.3-8.3	Electrical Systems	
	5.3-3.3 Other Outpatient Care Areas			5.3-8.4	5 - 7	
	5.3-3.4 – 5.3-3.7 Reserved				Communications Systems	
	5.3-3.8 Support Areas for Diagnostic			5.3-8.6		
	and Treatment Areas			5.3-8.7		ems
	5.3-3.9 Support Areas for Staff5.3-3.10 Support Areas for Families and Visitors			5.3-8.8	Elevator Systems	
5.3-4	Participant Support Facilities	252	Part 6	Ventila	ation of Health Care Facilities	
	5.3-4.1 Food Service Facilities5.3-4.2 Linen and Laundry Service Facilities		ANSI/ASI	HRAE/ASI	HE Standard 170-2021: Ventilation of	
5.3-5	Building Support Facilities	252	Health Co	are Faciliti	es	257
			Index			313

List of Tables

Part 1

Table 1.2-1: Safety Risk Assessment Components	55
Table 1.2-2: Categorization of Residential Health, Care, and Support Facility Sites by Exterior Ambient Sound with Design Criteria for Sound Isolation of Exterior Shell in New Construction	56
Table 1.2-3: Minimum Design Room-Average Sound Absorption Coefficients	57
Table 1.2-4: Maximum Design Criteria for Noise in Interior Spaces Generated by Building Systems	58
Table 1.2-5: Design Criteria for Minimum Sound Isolation Performance Between Enclosed Rooms	59
Table 1.2-6: Design Criteria for Speech Privacy for Enclosed Rooms and Open-Plan Spaces	60
Appendix Table A1.2-a: Maximum Concentration of Air Pollution Relevant to Indoor Air Quality	61
Appendix Table A1.2-b: Approximate Distance of Noise Sources for Use in Categorization of Residential Health, Care, and Support Facility Sites by Exterior Ambient Sound	62

Part 2

Table 2.1-1: Hot Water Use—Residential Health, Care, and Support Facilities	124
Appendix Table A2.1-a: Resources for Grab Bar Configurations	125
Appendix Table A2.1-b: Maximum Length of Hot Water System Pipe or Tube	126

Part 3

Appendix Table A3.1-a: Nursing Home Care Model Characteristics	155
Appendix Table A3.2-a: Hospice Care Model Characteristics	169

Part 4

Appendix Table A4.1-a: Assisted Living Setting Characteristics	190
Appendix Table A4.4-a: Characteristics of Settings for Individuals with Intellectual and/or Developmental Disabilities	225