

Bayside Bowl Addition

		IBC 2009		NFPA 101 2009	
2 floors above grade		502.1			
Sprinklers			NFPA 13 NFPA 72 - Fire alarm Notification System		NFPA 13 NFPA 72 - Fire alarm Notification System
Occupant Load		T 1004.1.1 (1st fl.)	A-3 Bowling area = 5 per lane = 40 occ. A-3 Bowling (non lanes) = 742 / 7sf = 106 occ. A-2 Restaurant tables and chairs = (2,732 sf / 15 occ. = 182 occ. Storage = 1253 sf / 500 = 3 occ. A-2 Function Room = 477 sf / 15 = 32 occ.	7.3.1.2	A-3 Bowling area = 5 per lane = 40 occ. A-3 Bowling (non lanes) = 742 / 7sf = 106 occ. A-2 Rest. t c = (2,732 sf / 15 occ. = 182 occ. Storage = 1253 sf / 500 = 3 occ. A-2 Function Room = 477 sf / 15 = 32 occ.
		T 1004.1.1 (mezz)	A-2 Restaurant tables and chairs = (2,229 sf / 15 occ. = 149 occ.		A-2 Rest. t c = (2,229 sf / 15 occ. = 149 occ.
		(mezz) bar area	Kitchen 183 sf / 200 = 1 occ.		Kitchen 183 sf / 200 = 1 occ.
		T 1004.1.1 (roof)	Assembly 2,032 sf / 15 = 136 occ.		Assembly 2,032 sf / 15 = 136 occ.
		TOTAL NEW	649 occupants		TOTAL NEW 649 occupants
		EXISTING Bldg.	A-3 Bowling area = 5 per lane = 60 occ. A-2 standing = (1325 sf / 7 occ. = 190 occ. A-2 Restaurant tables and chairs = (595 sf / 15 occ. = 40 occ. Kitchen 590 sf / 200 = 3 occ. A-2 Function Room = 685 sf / 15 = 46 occ. Office = 473 sf / 100 = 5 occ. Storage = 1,392 sf / 500 = 3 occ.	7.3.1.2	A-3 Bowling area = 5 per lane = 60 occ. A-2 standing = (1325 sf / 7 occ. = 190 occ. A-2 Rest. t and c = (595 sf / 15 occ. = 40 occ. Kitchen 590 sf / 200 = 3 occ. A-2 Function Room = 685 sf / 15 = 46 occ. Office = 473 sf / 100 = 5 occ. Storage = 1,392 sf / 500 = 3 occ.
		TOTAL EXISTING	347 occupants		TOT. EXIST 347 occupants
		TOTAL BUILDING	996 Occupants		TOT. BUILD. 996 Occupants
Use Group(s)		304.1	A-3 Assembly (Bowling Alley)	12	Assembly (Restaurant, Bowling)

			A-2 Restaurant		
Construction Type	T 503	2B - Non combustible unprotected			2 stories of assembly - II (000)
				12.1.6	II (000) allows Assembly on 2nd story if second story has an occupancy of less than 300 in a sprinklered building
Building Area	T 503	A3 and A2 - 9,500 sf, 2 stories, 55' high			
	506.3	Sprinkler Increase 200% = 19000 sf			
	504.2	Sprinkler Increase 1 story and 20' = 3 stories and 75'			
Mezzanine	505	Not a Story - 1/3 area max. of floor below -		4.6.4 (4)	A mezzanine shall not be counted as a story
				NFPA 220	
Building Elements	T 601	0 hr Structural Frame		8.2.1.2	0 hr Structural Frame
	T 601	0 hr Bearing Walls Exterior			0 hr Bearing Walls Exterior
	T 601	0 hr Bearing Walls Interior			0 hr Bearing Walls Interior
	T 601	0 hr Non-Bearing Walls Interior			0 hr Non-Bearing Walls Interior
	T 602	1 hr Exterior Walls (sep. dist <10')			0 hr Non-Bearing Walls Exterior
	T 601	0 hr Floor Construction			0 hr Floor Construction
	T 601	0 hr Roof Construction			0 hr Roof Construction
Separations		Separated Buildings - Fire Walls - structurally independent		8.2.1.3	Considered Separate Bldgs with 2 hr FireBarrier
	706.4	New bldg 2B separated from Existing Bldg 3B with a 2 hr fire wall (3hrs reduced to 2hrs) in type II buildings			
Distances to Exits	1016.1	A - 250' Travel Distance to exits (with sprinklers)		12.2.6.2	250' Travel Distance to exits with Sprinklers
	1014.3	Per MUBEC adoptions Section 1014.3 has been deleted and NFPA 101-2009 Table A7.6 replaces the deletion.		12.2.5.1.2	75' Common Path of Travel occ under 50
	1018.4	A - 20' Dead End		12.2.5.1.3	20' dead end corridor
Egress Width	1005.1	649 Occ. x 0.2) = 129.8 inches, 4 doors 32.45" minimum each			
Egress Stairs	1009.1	Occ. Load >50 = 44" min width			
	1009.1	Occ. Load <=50 = 36" min width		7.2.2.2.1.2(B)	44" min. over 50 occ.
	1003.3	Handrails can protrude into stair 4.5" max		7.2.2.2.1.2	Handrails can protrude into stair 4.5" max
	1005.2	Door Swings may not reduce egress width by > 1/2			
	1009.2	80" min headroom		7.2.2.2.1.1(a)	6'-8" min. headroom
	1009.3	7" max. riser		7.2.2.2.1.1(a)	7" max. riser
	1009.3	11" min Tread depth		7.2.2.2.1.1(a)	11" min. tread

		1009.6	12' max. total rise between floors or landings	7.2.2.2.1.1(a)	12' max. height between landings
Ramps		1010.2	1:12 (8%) Max slope	7.2.5.2(a)	1:12 max. slope
		1010.6	60" long landings at top and bottom		
		1010.6	2% max slope of landings	7.2.5.2(a)	1:48 max. cross slope
		1010.8	>6" rise must have handrails on both sides of ramp		
Egress Corridors		1018.2	44" min. when Occ. > 50		44" min. Hallway width
		1018.2	36" min. when Occ. <= 50		
		1018.2	24" min. at service corridors to mechanical equipment		
Plumbing Requirements					
Restaurants and Pubs	996 occ = 498 men and 498 women				
	Toilets = Male 3 per 151-300 occ. plus 1 per 200 additional = 4 toilets				
	Urinal = Male 1 per 150 occ. plus 1 per 150 additional = 4 Urinals				
	Lavatory = Male 3 per 201-400 occ. plus 1 per 400 additional = 4 Lavatories				
	Toilets = Female 4 per 151-300 occ. plus 1 per 200 additional = 5 toilets				
	Lavatory = Female 3 per 201-400 occ. plus 1 per 400 additional = 4 Lavatories				
IECC					
Commercial	T 502.1.1	0.35 Fenestration U-Factor			
		R-20c Ceiling entirely above deck			
		R-38 Ceiling at Attic and other			
		R-13+7.5c Metal Framed wall			
		R-30 Floor			
		R-7.5c Basement wall			
		R-10 to 4ft Slab			
		U 0.45 Storefront			
		U 0.70 Entrance Door			
		U 0.55 Other			