Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 06/08/16

Code Review

Bayside Bowl Addition

	IBC 2009		NFPA 101 2009		
2 floors above grade	502.1				
Sprinklers		NFPA 13			NFPA 13
		NFPA 72 - Fire alarm Notification System			NFPA 72 - Fire alarm Notification System
Occupant Load	T 1004.1.1 (1st fl.)	A-3 Bowling area = 5 per lane = 40 occ.		7.3.1.2	A-3 Bowling area = 5 per lane = 40 occ.
		A-3 Bowling (non lanes) = 742 / 7sf = 106 occ.			A-3 Bowling (non lanes) = 742 / 7sf = 106 occ.
		A-2 Restaurant tables and chairs = (2,732 sf / 15 occ. = 182 occ.			A-2 Rest. t c = (2,732 sf / 15 occ. = 182 occ.
		Storage = 1253 sf / 500 = 3 occ.			Storage = 1253 sf / 500 = 3 occ.
		A-2 Function Room = 477 sf / 15 = 32 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.		7.3.1.2	A-3 Bowling area = 5 per lane = 60 occ.
		A-2 standing = (1325 sf / 7 occ. = 190 occ.			A-2 standing = (1325 sf / 7 occ. = 190 occ.
		A-2 Restaurant tables and chairs = (595 sf / 15 occ. = 40 occ.			A-2 Rest. t and c = (595 sf / 15 occ. = 40 occ.
		Kitchen 590 sf / 200 = 3 occ.			Kitchen 590 sf / 200 = 3 occ.
		A-2 Function Room = 685 sf / 15 = 46 occ.			A-2 Function Room = 685 sf / 15 = 46 occ.
		Office = 473 sf / 100 = 5 occ.			Office = 473 sf / 100 = 5 occ.
		Storage = 1,392 sf / 500 = 3 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)

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		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
Building Area	T 503	A3 and A2 - 9,500 sf, 2 stories, 55' high		second story has an occupancy of less than 300
	506.3	Sprinkler Increase 200% = 19000 sf		in a sprinklered building
	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

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	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		