Ucluelet Community Centre, Ucluelet, BC Outline Building Code Analysis BCBC 2012

Project:	Proposed two storeys community centre building with gymnasium, lounge area, cafeteria and office/administration area.		
1.4.1.2	Building Area	14,820 sq ft	
1.4.1.2	Building Height	2 storeys	
3.1.2.1	Major Occupancy	A2-Assembly & D-Office	
3.1.3.1	Multiple Occupancy Require A2 to $D = 1$ hour f.r.r – not re		
3.1.17	Occupant Load Main floor (gross floor area 1) Reception Multi-purpose room Offices Lounge Storage rooms Coffee/server Gymnasium Kitchen Total occupant load (main for the second floor (gross floor area Mezzanine/view platform Offices/adminstration Total occupant load (2 nd floor floor floor (gross floor area Mezzanine/view platform)	95 sq ft/100.1 = 738 sq ft/10.23 = 814 sq ft/100.1 = 224 sq ft/10.23 = 828 sq ft/495.16 = 88 sq ft/10.23 = 6,818 sq ft/10.23 = 586 sq.ft./100.1 = floor) a 4,100 sq ft): 660 sq ft/10.23 = 1,625 sq ft/100.1 =	1 person 72 persons 8 persons 22 persons 2 person 1 person 667 persons 6 person 779 persons y occupancies 65 persons 17 persons 82 persons
3.1.17.1(2)	Actual Occupant Load (with permanent sign posted in a conspicuous location) Total occupant load 300 persons		
3.2.2 3.2.2.26 3.2.2.26(1)(a) 3.2.2.26(1)(b) 3.2.2.26(1)(c)(ii) 3.2.2.26(2) 3.2.2.26(2)(a) 3.2.2.24(2)(c)	Building Size and Construction Relative to Occupancy Group A, Division 2, up to 2 Storeys, Increased Area, Sprinklered Sprinklered through-out Not more than 2 storeys Not more than 25,833 sqft in building area Combustible or non-combustible Floor assemblies fire resistance rating not less than 45 min Loadbearing walls, columns and arches: fire resistance rating not less than 45 min		

3.2.3	Spatial Separation and Exposure Protection		
Table 3.2.3.1.D	Face area 1.d. upo permitted construction req'd		
	North 3,328 sq ft >29'-7"(pl) 100% 0 min. f.r.r		
	West 2,711 sq ft 52'-6"(pl) 100% 0 min. f.r.r		
	South 3,314 sq ft 124'-3"(street) 100% 0 min. f.r.r.		
	East 3,359 sq ft 25'-5"(street) 100% 0 min. f.r.r.		
3.2.4	Fire Alarm and Detection Systems		
3.2.4.1(1)	A fire alarm system is required as the building is sprinklered.		
3.2.4.5(1)	The fire alarm is to be installed to CAN/ULC-S524 "Installation of Fire Alarm Systems".		
3.2.4.5(2)	The fire alarm is to be verified to CAN/ULC-S537 "Verification of Fire Alarm		
3.2.4.3(2)	Systems".		
3.2.4.8(4)	The fire alarm system is to be designed to notify the fire department to		
	CAN/ULC-S561 "Installation and Services for Fire Signal Receiving Centres		
	and Systems".		
3.2.4.9(1)	A fire alarm annunciator is to be installed near the principal entrance.		
3.2.4.12(1)(e)	Smoke detectors are required in each exit stair shaft.		
3.2.4.17(1)(a)+(b)	Manual (pull) stations are required at the principal entrance and at every exit.		
3.2.5	Drawiniana for Einefighting		
3.2.5.4(1)(a)	Provisions for Firefighting An access route for fire department vehicles is provided to the principal		
3.2.3.4(1)(a)	entrance		
3.2.5.5(1)	The access route is to be between 9.84' and 49.2' of the principal entrance		
3.2.5.5(2)(a)	Building provided with fire department connection, a fire department pumper		
	vehicle can be located adjacent to the hydrants (refer to article 3.2.5.15(2).		
3.2.5.8	A standpipe system is not required for the building		
3.2.5.15(2)	The fire department connection for an automatic sprinkler system shall be located		
	so that the distance from the fire department connection to a hydrant is not more		
	than 147.6 m and is unobstructed.		
3.2.5.16(1)	Portable fire extinguishers to be provided and installed in accordance with British		
	Columbia Fire Code		
3.2.7	Lighting and Emergency Power Systems		
3.2.7.1(1)	The exits and corridors providing access to exit to have a minimum illumination of		
()	50 Lx at the floor		
3.2.7.3(1)	Emergency lighting to be provided in exits, routes providing access to exits,		
	corridors, lounge, gymnasium, mezzanine/viewing platform, meeting room and		
	gym to minimum 10 Lx at floor level provided for a minimum of 30 minutes		
3.2.8	Openings through Floor Assemblies		
3.2.0	(draft stops req'd by NFPA 13) –deleted with alternate solution. Provide additional		
	smoke detectors at edge of floor opening in lieu of draft stops.		
3.2.8.2(6)	The interconnected floor space need <u>not</u> conform to 3.2.8.3 to 3.2.8.9 provided:		
3.2.8.2(6)(a)	The interconnected floor space is located in the first and second storeys.		
3.2.8.2(6)(b)	The building is sprinklered throughout.		
3.2.8.2(6)(c)	The space contains a Group A2 & D occupancy.		
3.2.8.2(6)(d)	The building area to be less than half the area permitted by 3.2.2.26.		
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3.3.1.5(1) The first and second storeys are considered as one suite. 3.3.1.5(1) Minimum 2 egress doorway required for lounge, gymnasium and mezzanine/view platform A single egress doorway is permitted from other rooms as the occupant load of each room is less than 60, 3.3.1.5(1)(d)(i. & ii) The travel distance to the egress doorway is less than 82.0' and the rooms are less than 2.15.2 sq ft in area each The egress doorways from all rooms except lounge, gymnasium and mezzanine/viewing platform do not have to swing in the direction of travel to an exit as the occupant load of each room is less than 60 persons 3.3.1.13(10)(b)(ii) Doors providing access swinging in to have a clear and level area 5'-0" long with a minimum of 2'-0" clear space on the latch side of the door. 3.3.1.17(2) The width of corridors and doorways far exceeds the minimum widths required for capacity of access to exits in all area (6.1mm/persons) 3.3.1.21(3) The width of corridors and doorways far exceeds the minimum widths required for capacity of access to exits in all area (6.1mm/persons) 3.4 A least 2 exits are provided from building 3.4.2.5(1)(c) The travel distance from any point in the proposed addition to at least one exit is < 147.6' (45 m) 3.4.3.2(1) The main floor occupant load is 82 persons (x 6.1mm) requiring 15.6' of doorway and corridor width and (x 8mm) 2.15' of exit stair width 3.4.5.1(2)(b) Exits signs are required at all exit doors and in the egress corridors 3.4.5.1(2)(c) Every exit sign shall consist of a green pictogram and white or lightly tinted graphical symbols — Safety colours and safety sign — Part 1: Design principles for safety signs in workplaces and public areas," 3.4.5.1(2)(c) Every exit sign to conform to the dimensions indicated in ISO 7010, "Graphical symbols — Safety colours and safety signs — Safety signs in workplaces and public areas," 3.5 Vertical Transportation. 3.6.2 Service Rooms 3.6.2.1(2) Service Rooms 3.6.2.1(8) Service roons with fuel-fired appliances that serves only 1 suite not requir	3.3	Safety Within Floor Areas
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3.4.3.2(1) The main floor occupant load is 779 persons (x 6.1mm) requiring 15.6' of doorway and corridor width The second floor occupant load is 82 persons (x 6.1mm) requiring 1.64' of doorway and corridor width and (x 8mm) 2.15' of exit stair width 3.4.5.1(1)(b) Exits signs are required at all exit doors and in the egress corridors Every exit sign shall consist of a green pictogram and white or lightly tinted graphical symbol meeting the colour specifications referred to in ISO 3864-1, "Graphical symbols – Safety colours and safety sign – Part 1: Design principles for safety signs in workplaces and public areas," 3.4.5.1(2)(c) Every exit sign to conform to the dimensions indicated in ISO 7010, "Graphical symbols – Safety colours and safety signs – Safety signs in workplaces and public areas," 3.4.6.16(2)(a)(b) All exit doors from lounge, gymnasium, mezzanine/view platform, entry doors and exit doors leading/from exit stair shaft and corridor doors to have door "panic" release hardware 3.5 Vertical Transportation. 3.5.3.1(1) The elevator hoistway is to be separated from the rest of the building by a 45 minute fire separation. 3.6.2 Service Rooms 3.6.2.1(2) Service rooms with fuel-fired appliances that serves only 1 suite not required to be separated from the rest of the building	3.4.2.5(1)(c)	
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3.5.3.1(1) The elevator hoistway is to be separated from the rest of the building by a 45 minute fire separation. 3.6.2 Service Rooms 3.6.2.1(2) Service rooms with fuel-fired appliances that serves only 1 suite not required to be separated from the rest of the building	3.4.6.16(2)(a)(b)	All exit doors from lounge, gymnasium, mezzanine/view platform, entry doors and exit doors leading/from exit stair shaft and corridor doors to have door "panic"
3.6.2.1(2) Service rooms with fuel-fired appliances that serves only 1 suite not required to be separated from the rest of the building		The elevator hoistway is to be separated from the rest of the building by a 45
separated from the rest of the building		
		separated from the rest of the building

fire hazard or is essential to the operation of fire safety systems (i.e. sprinkler system) in the building is required to be separated from the rest of the building by 1 hour fire separation

3.7	Health Requirements
3.7.2.2(6)	Based on an occupant load of 300 persons, the school requires 3 male water closets
	and 5 female water closets. Provided are 4 male water closets, 4 female water
	closets, 1 universal toilet and 2 universal accessible toilets
2.0	Deilding Description of the Description With Disabilities
3.8	Building Requirements for Persons With Disabilities
3.8.2.1(1)	Main floor and second floor shall be accessible
3.8.2.3(1)(a)	Access is provided from the street to the main entrance.
3.8.2.3(1)(b)	Accessible parking is provided in the parking
3.8.2.3(2)(a)	2 universal toilets room provided.
3.8.2.3(2)(b)	With the building occupant load exceeding 150, all other public washrooms are
	also required to be accessible.
3.8.3.5(4)(c)	A power operated door is required at front entry and lounge doors in both
	directions.
3.8.3.18	Public counters to have an accessible counter section