|   | CODE ANALYSIS FO                        | OR PROJECTS INVOLVING NE   | W CONSTRUCTION   |   | Means of Egress  | BCNYS Chapter 10                             |   | D 1   |  |
|---|---|--|--|---|--|--|---|---|--|
|   |   |  |  |   | Occupant load (Max. Floor Area Allowances)               | BCNYS Table 1004.5                           |   | occupants. B = 69 occupants. S-1 =  |  |
| Reference Standards   |   |  |  |   |  |  | 200. B = 150 gross (business). S = 200 gross (parking garage)   | 80 occupants.   |  |
| 2020 Building Code of NYS, 2020 Energy Conservation Code of NYS   |   |  | .1   | -   | Egress Width & Required Capacity                         | BCNYS 1005                                   | gross (parking garage)  |   |  |
| 2020 Plumbing Cod   | de of NYS                               | Broinet Location   | Dort France Illeton NV   | - I   | Stairways  |  | 0.2 in per occupant for buildings with  | Minimum stair width: 52in   | Second floor occupancy: 69. Two  |
|   |   | Project Location:  | Port Ewen, Ulster NY Keystone Associates Architects,                                       | - I   |  |  | a sprinkler and emergency voice alarm   | 1   | stairs. 35 persons per stair. 35 x 0.2 =   |
|   |   | Prepared by:   | Engineers, and Surveyors, LLC  | <u>.</u>  | Other Egress Components                                  | BCNYS 1005.3.2 Exception 1                   | system.  0.15 in per occupant for buildings with  |   | Total occupancy: 258. 258 x 0.15 =   |
|   |   |  |  |   |  |  | a sprinkler and emergency voice alarm<br>system.  | Minimum door clear width: 32in  | 38.7in   |
|   |   |  |  | -   | Number of Exits and Exit Access Doorways                 | BCNYS Table 1006.2.1                         | Not less than two exits shall be<br>provided from each of occupants.  | At least 2 exits provided from each<br>area.  |  |
| No Tonic  | and Code Coding                         | PEOURPE / ALLOWED  | EVICTING INDODOSED   | COLUMNIA  | Exit and Exit Access Doorway Configuration               | BCNYS 1007                                   | Access to exits are required to be<br>separate and spaced apart.  | Exit separation complies with the   | A fire sprinkler is installed allowing for<br>a seperation of 1/3 diagonal.                          |
| No TOPIC Occupancy Classification   | NYS Code Section<br>BCNYS 302           | REQUIRED / ALLOWED Mixed Occupancy   | A-3/ B/ S-1  | A-3 = Community halls; B = Civic  | Egress Illumination                                      | BCNYS 1008.1                                 | separate and spaced apart.  | code.   | a seperation of 1/3 diagonal.  |
|   |   |  | , .,   | Administration; S-1 = Fire Apparatus<br>Parking   | Illumination to Public Way                               | BCNYS 1008.2.3                               | Exit paths are required to be illuminated at the exterior.  | Exterior lighting is provided.  |  |
| Construction Classification   | BCNYS Table 601                         |  | Type IIB construction  | Forking   | Emergency Power  | BCNYS 1008.3                                 | Emergency power shall be provided to  | Emergency power is provided.  |  |
|   | Structural Frame Bearing and Nonbearing | 0  | Not rated.   | 1-hr fire separation walls for A-3 to S-1   | Accessible Means of Egress                               | BCNYS 1009.1                                 | required fixtures.  Not less than one accessible means of   | All means of oreoes are assessible  | Accessible stair provided from second  |
|   | Walls                                   | 0  | Not rated.   | occupancy are provided.   | Accessible Means of Egress                               | BCN15 1009.1                                 | egress.   | All means of egress are accessible.   | floor.   |
|   | Floors                                  | 0  | Not rated.   | 1-hr rated floor separation for A-3 to B  | Stairways  | BCNYS 1009.3                                 | Required width 48 inches.   | Minimum stair width: 52in   |  |
|   | Poof Construction                       | 0  | Not rated  | occupancy is provided.  | Areas of Refuge  | BCNYS 1009.6                                 | Required size 30 inches by 48 inches  | 2 areas of refuge provided.   | See plan for location.   |
| Building Height & Area Limitations  | Roof Construction<br>BCNYS 503          | 0  | Not rated.   | <del>                                     </del>  | Doors, Gates and Turnstiles                              | BCNYS 1010                                   | for each 200 occupants.   |   |  |
| building freight a vice control of is   | BCNYS 504.2                             | Mixed occupancy maximum height /   | Shall not exceed the maximum   |   | Door Size, Swing, Opening Force, Special                 | BCNYS 1010.1.1                               | Minimum clear width: 32in.  | Minimum door clear width: 32in.   | See plan and schedule.   |
|   | 7                                       | story  | applicable for occupancy below.  |   | Stairways  | BCNYS 1011<br>BCNYS 1011.2, 1011.3,          | Minimum width shall be not less than  | Minimum Filip etnic width   | See plan and details.  |
| Allowable Height (feet)   | BCNYS Table 504.3                       | Maximum height A-3, fully sprinklered<br>= 75'; S-1, fully sprinklered = 75'; B,<br>fully sprinklered = 75'. | Max building height is 45ft ±.   |   | Width and Capacity, Headroom, Stair Treads<br>and Riser, | 1011.5                                       | 44 inches. Headroom clearance shall<br>be not less than 80 inches. Stair riser  |   | See pian and details.  |
| Allowable height (stories)  | BCNYS Table 504.4                       | Maximum stories A-3, fully sprinklered   | 2 story.   |   | Exit Signs, Illumination                                 | BCNYS 1013                                   | height shall be 7 inches maximum.<br>Exit sign placement required within  | Exit signs and directional signs are  |  |
| V305 V3   |   | = 3, S-1, fully sprinklered = 3, B, fully<br>sprinklered = 4.  | S'222  |   | exit signs, illumination                                 | BCN15 1013                                   | 100 feet any point in an exit access  | provided as noted on the  |  |
|   | BCNYS 505.2.1 Exception 2               | The mezzanine is allowed to be 1/2 of  |  | These portions of the building do not   | Handrails for stairway                                   | BCNYS 1014                                   | corridor.   | drawings. Work shall comply. See details on   |  |
|   |   | the floor area of the room or space in<br>Type I or II construction with an                                  | occupancy. Floor area of S-1 =<br>12,028 s.f. The total mezzanine                          | contribute to the building area of the<br>number of stories. These do contribute              | ,  |  |   | drawings.   |  |
|   |   | automatic sprinkler and emergency  | area at 2nd level = 914 s.f. 914 is  | to the fire area. The building will not   | Exit Access Travel Distance                              | BCNYS Table 1017.2                           | A-3 = 250 feet; B = 300 feet; S-1 = 250 feet  | Complies.   | See code plans for more information.   |
|   |   | voice/alarm system.  | less than 1/2 of 12,028.   | exceed the allowed fire area.   | Corridors  | BCNYS 1020                                   | 1000  |   |  |
| Allowable Area  | BCNYS Table 506.2                       | A-3 = 28,500; B = 69,000; S-1 = 52,500   | Building total area is 21,110 s.f +/-<br>NFPA 13 fire sprinkler is provided<br>throughout. | Type IIB Construction.  | Corridor Fire-Resistance Rating  Dead Ends               | BCNYS Table 1020.1<br>BCNYS 1020.4           | Not required for occupancy with<br>sprinkler system.<br>Exception #2 = S-1 with sprinkler   | Not provided.  Exit door provided at the corridor   | See plan for location  |
| Mixed Use and Occupancy   | BCNYS 508.1 Exception #1                | Occupancies are separated per BCNYS  | throughout.  |   | Dead crius   | BCN13 1020.4                                 | throughout the length shall not   | exceed with the minimum   | see pair for focation.   |
| formation and a second | DCNWS FOR 4                             | Ch. 5 Sec. 510.  | 4 h-6  | No constitution and ideal between B   | Exits, Interior Exit Stairs & Ramps                      | BCNYS 1022 / 1023                            | exceed 50 feet.   | required.  Exits at interior and exterior are   | See plans for location and details.  |
| Separated occupancies   | BCNYS 508.4                             | A-3 to S-1 = 1hr required; A-3 to B =<br>1hr required; B to S-1 = no separation<br>required                  | S-1 occupancy are provided. 1-hr<br>rated floor separation for A-3 to B                    | No separation provided between B and S-1 occupancies.   | Exits, interior Exit Stairs & Namps                      | DCN13 1022 / 1023                            |   | provided with proper access and<br>1hr rated enclosure  |  |
|   |   |  | occupancy is provided.   |   | Exit Discharge   | BCNYS 1028                                   |   | Each exit is discharging at an  | See plans for locations.   |
| Fire and Smoke Protection Features  | BCNYS Chapter 7                         |  |  |   | Accessibility  | BCNYS Chapter 11                             |   | access to a public way.   |  |
| Fire Barriers Shaft Enclosure   | BCNYS 707<br>BCNYS 707.3.1 and 707.3.4  | 1-hr fire separation is required.  | 1-hr fire separation is provided.  | <u> </u>  | Scoping Requirements                                     | BCNYS 1103                                   | Building is required to provide   | Building complies with 2009   |  |
| Floor and Roof Assemblies   | BCNYS 711                               | 2 m me separation is required.   | 2 III III e separation o providea.   | _   |  | 200000000000000000000000000000000000000      | accessibilty  | ANSI/ICC A117.1   |  |
| Separating Mixed Occupancies  | BCNYS 711.2.4.1                         | 1-hr fire separation is required   | 1-hr rated floor separation for A-3  | See also Sec 508.2.   | Public Entrance  | BCNYS 1105.1                                 | 60% of all public entrance shall be<br>accessible.  | Two public entrance are provided.<br>Both of these are accessible and                                   |  |
| Interior Finishes   | BCNYS Chapter 8                         | between A-3 and B occupancies.   | to B occupancy is provided.  | -   | Partition .  | DCNNE 4406 8 T-1-1-4406 4                    |   | on an accessible route.   |  |
| Foam Plastics   | BCNYS 802.7                             | Foam plastic shall not be used as  | See drawings and specs for   | If the material is researched to comply   | Parking Toilet and Bathing Facilities                    | BCNYS 1106 & Table 1106.1<br>BCNYS 1109.2    | Toilet Facilities shall be accessible.  | Accessible parking is provided.  Accessible toilet facilities for each                                  | See plans for locations. Per Exception   |
|   |   | interior finish.   | finishes.  | with Sec. 803.4, 806.5, 2603.9 or<br>2604.2 it may be allowed under<br>certain circumstances. |  |  |   | sex provided.   | 3, only 50 percent need to be<br>accessible where there is a cluster of<br>single-user toilet rooms. |
| Wall and Ceiling  | BCNYS 803.1, Table 803.13               | Interior wall & ceiling finish   | All occupancies may use Class C.   |   | Signage  | BCNYS 1111                                   |   | Signage is provided as required for   | Single aber tollect looms.   |
| Floor Finishes  | BCNYS 804.4.2                           | requirement. Not less than Class II material is  |  | See plan for finish.  | Commercial Energy Efficiency                             | ECCNYS Chapter 4                             |   | parking and access route.   |  |
|   |   | permitted.   | 55   |   | Opaque Thermal Envelope Insulation                       | ECCNYS Table C402.1.3                        |   |   |  |
| Fire Protection and Life Safety Systems Automatic Sprinkler Systems   | BCNYS Chapter 9<br>BCNYS 903            | A-3 = Not required; less than 300  | NFPA 13 fire sprinkler is provided   |   |  | Insulation entirely above<br>roof deck       | R-30ci  | Complies.   | See drawings for details.  |
|   |   | occupant. S-1 = required more than   | throughout.  | l E   |  | Mass walls above grade                       | R-13.3ci  | Complies.   | See drawings for details.  |
|   |   | 5,000 s.f with storage of commercial<br>motor vehicles.  |  | Γ   |  | Unheated Slab-on-grade floors                | R-10 for 24" below  | Complies.   | See drawings for details.  |
| Portable Fire Extinguishers   | BCNYS Table 906.3(2)                    | 20-B rated fire extinuisher; max travel  | Complies.  | +   | Opaque Thermal Envelope Maximum                          | ECCNYS Table C402.1.4                        |   |   |  |
| 1.000 -0.000 0.000 0.000  |   | distance 50ft  |  |   | Requirements   |  |   |   |  |
|   | BCNYS 906.4, 906.1<br>condition 2.      | Fire extinguisher provided for<br>protection of cooking equipment  | Complies.  |   |  | Swinging door<br>Garage door - < 14% glazing | Max U-factor: 0.37<br>Max U-factor: 0.31  | Complies. Complies.   | See specifications for details. See specifications for details.                                      |
|   | condition 2.                            | involving solid fuels, oils, or fats, shall  |  |   | Fenestration   | ECCNYS Table C402.4                          |   |   |  |
|   |   | be Class-K rated; 30ft travel distance.  |  | <b>F</b>  |  | Fixed Fenestration                           | Max U-Factor: 0.36  | Complies.   | See specifications for details.  |
|   |   |  |  |   | 1  | Operable Fenestration<br>Entrance Doors      | Max U-Factor: 0.43<br>Max U-Factor: 0.77  | Complies.   | See specifications for details. See specifications for details.                                      |
|   |   |  |  | E   |  | SHGC   | Max 0.40  | Complies.   | See specifications for details.  |
|   |   |  |  | Ī   | Air Leakage of Fenestration                              | ECCNYS Table C402.5.2                        |   |   |  |
|   |   |  |  | ļ.  |  | Windows<br>Sliding doors                     | 0.20 cfm/sq.ft.<br>0.20 cfm/sq.ft.  | Complies.   | See specifications for details. See specifications for details.                                      |
|   |   |  |  | H   |  | Swinging doors                               | 0.20 cfm/sq.ft.   | Complies.   | See specifications for details.  |
|   |   |  |  |   |  | Storefront glazing                           | 0.06 cfm/sq.ft.   | Complies.   | See specifications for details.  |
|   |   |  |  |   |  | Glazed swinging entrance<br>doors            | 1.0 cfm/sq.ft.  | Complies.   | See specifications for details.  |
|   |   |  |  |   |  | Garage doors                                 | 0.40 cfm/sq.ft.   | Complies.   | See specifications for details.  |
|   |   |  |  | F   |  | PCNYS Table 403.1<br>Assembly - Restaurants, | Waterclosets: Male - 1 per 75, Female   | A-3 occupancy: 1 watercloset and  |  |
|   |   |  |  |   |  | banquet halls and food<br>courts             | 1 per 75; Lavatories: Male and Female<br>1 per 200; Drinking Fountain: 1 per<br>500; 1 service sink   | 1 lavatory provided for each sex, 1<br>high-low drinking fountain<br>provided, 1 service sink provided. |  |
|   |   |  |  |   |  | Business                                     | Waterclosets: 1 per 25 for the first 50<br>and 1 per 50 or the remainder<br>exceeding 50; Lavatories: 1 per 40 for<br>the first 80; Drinking Fountain - 1 per | provided for each sex, 1 high-low<br>drinking fountain provided, 1                                      | 1 watercloset and 1 urinal provided in<br>men's room.  |
|   |   |  |  | -   |  | Storage                                      | 100; 1 service sink  Waterclosets: 1 per 100; Lavatories: 1 per 100; Drinking Fountains: 1 per  |   |  |
|   |   |  |  |   |  |  | 1,000; 1 service sink   | fountain provided, 1 service sink<br>provided   |  |

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PORT EWEN FIRE DEPARTMENT, ULSTER, NEW YORK

DETAILED CODE INFORMATION