

GENERAL NOTES

2009 INTERNATIONAL BUILDING CODE (IBC) SUMMARY

1. All work shall be in accordance with IBC 2009 by ICC, 2009 NFPA 101 Life Safety Code, 2010 ADA Standards for Accessible Design, Maine Uniform Building Code, NFPA-70 National Electric Code, NFPA 54 National Fuel & Gas Code, NFPA 96, and any other NFPA codes applicable to Mechanical, Electrical or HVAC installation, Maine State Plumbing Code, ASHRAE, ASTM, UL (Underwriters Laboratories) and all local, State and Federal requirements.
2. All applicable Federal, State and Municipal regulations shall be followed, including the Federal Department of Labor Occupational Safety and Health Act (OSHA)
3. All required City and State permits must be obtained before any construction begins.
4. It is the contractor's sole responsibility to determine erection procedures and sequence to ensure the safety of the building and its components during erection. This includes the addition of necessary shoring, sheeting, temporary bracing, guys or tie-downs. Such material shall remain the property of the contractor after completion of the project.
5. All fire ratings indicated shall be continuous to underside of roof deck/floor as indicated. Seal all openings & mechanical penetrations with approved fire rating material and/or rated fire dampers as applicable.
6. All egress doors shall have positive self-closer and latch mechanisms with lever handles or panic hardware meeting standards as specified in the 2010 ADA & 2009 NFPA-101 codes. (Refer to Door Schedule)
7. Emergency lighting shall be provided for not less than 1 1/2 hour in the event of power failure. Emergency lighting facilities shall be so arranged to provide initial illumination that is not less than an average of 1 Ft candle (10.8 Lux) and at any point not less than 0.1 Ft candle (1.1 Lux) measured along the path of egress at floor level.
 - a) Emergency power system for lighting shall be at least Type 10, Class 1.5, Level 1 in accordance with NFPA 110.
 - b) Unit equipment and battery system for emergency luminaires shall be listed to UL 924.
 - c) Emergency lighting shall be either continuously in operation or shall be capable of repeated automatic operation without manual intervention.
8. Mechanical, Electrical, Plumbing, Heating, Ventilating and Air Conditioning Engineering Design by others. Coordination with Architectural plans by G.C. Obtain necessary Permits and Conform to applicable codes.
9. G.C. coordinate furniture, Laser Tag Arena panels & equipment layout, and Interior finishes with Owner.
10. Dimensions shown are approximate and are measured to the face of stud walls or centerline of studs (U.R.O.). Contractor shall verify actual dimensions and locations of existing structural elements, masonry foundations, ceiling heights, insulation, floor elevations and life safety equipment in the field prior to placement of walls and related equipment.
11. Fasteners for pressure treated lumber or trim shall be stainless steel or hot dipped galvanized. Contractor shall insure that there is no galvanic corrosion action due to dissimilar metal contact.
12. All plywood wall panels and floor panels shall be painted on both sides with "Universal Fire Shield" fire retardant paint additive for water based paints or approved equal. Classified Fire Rating: CLASS A, Flame spread=0, Smoke Dev.=0, Meets ASTM E-84, UL 263.
12. For Wall & Ceiling Types - See Drawing A8
13. For Restroom enlarged plans and elevations - See Drawings A6 & A7
14. For Door Schedule - See Drawing A9
15. Refer to Drawings LS1, LS2 and LS3 for Life Safety Plans and Summary

1. Occupancy Classification - Assembly Group A-3 (Special Amusement - Section 411)			
Existing Bowling Area	22 lanes X 5 persons =	110 Occupants	
(5 persons/lane incl 15ft of runway)	4,431 SF @ 75F =	633 Occupants	
Existing Bar & Gille (Tables & Chairs)	2,858 SF @ 15SF =	190 Occupants	
Existing Bowling Offices	1,261 SF @ 100SF =	13 Occupants	
Existing Arcade Games	1,183 SF @ 11SF =	108 Occupants	
New Arcade Games	2,719 SF @ 11SF =	247 Occupants	
Laser Tag Arena	3,062 SF @ 15SF =	204 Occupants	
	Total =	1,505 Occupants	

2. Egress capacity - (laser tag arena)
Level and Ramps
0.2 inches width per person - 249 occupants (3 exits) = 83 x 0.2 = 16.6" minimum.
50% capacity at two exits - 124.5 occupants x 0.2 = 24.9" minimum.
Total of three exits provided: each with 36" minimum door width.
3. Construction Type II (000) - Noncombustible Partitions and Structural Frame
 - a) Fire retardant-treated wood shall be permitted in non-bearing partitions where no fire rating is required or where the required fire rating is 2 Hrs or less. (603.1)
- Paint all plywood wall panels, Laser Tag Arena partition panels and plywood floor panels on both sides with "Universal Fire Shield" fire retardant paint additive for water based paints or approved equal. Also paint existing vinyl faced roof insulation with Class A fire rated paint or demonstrate that product is Class A fire rated.
Classified Fire Rating: CLASS A, Flame spread=0, Smoke Dev.=0, Meets ASTM E-84, UL 263. This method is subject to approval by Authority having jurisdiction prior to any construction.
 - b) Thermal and acoustical insulation, other than foam plastics, shall have a flame spread index of not more than 25.
4. Accessible Means of Egress
 - a) Minimum two exits required from any room or space with more than 49 occupants.
 - b) Egress exit doors serving 50 occupants or more shall be equipped with horizontal panic bar or push pad type (refer to door schedule)
5. Every room or space that is an assembly occupancy shall have occupant load posted with permanent sign in conspicuous place near main exit 11004.31
Laser Tag Arena, Arcade Gaming Area, Bar & Gille and Main Bowling Area shall have posted sign. (See Plans)
6. Illumination of Means of Egress:
Emergency lighting is required at all exit aisles, corridors and passageways leading to an exit, continuous during the time that the conditions of occupancy require the means of egress be available for use. Maintain 1 ft-candle (10.8lux) at all egress aisles and throughout Laser Tag Arena.
7. Emergency voice/alarm communications system shall be provided and shall be audible throughout the entire special amusement space. (411.6)
8. An automatic smoke detection system (Beam Detectors-confirm w/ Alarm Contractor) shall be provided in the special amusement space and in the entire facility. (411.5)
 - a) Activation of any single smoke detector, the automatic sprinkler system, or any other automatic fire detection device shall immediately sound an alarm at the building in a constantly attended location from which emergency action can be initiated, including manual initiation.
 - b) Activation of two or more smoke detectors, a single smoke detector equipped with an alarm verification feature, or the automatic sprinkler system, shall automatically:
 1. Cause illumination of the means of egress with light of not less than 1 footcandle (11 lux) at the walking surface level.
 2. Stop any confining or confusing sounds and visual distractions.
 3. Activate an approved directional exit marking that will become apparent in an emergency and
 4. Activate a pre-recorded message, audible throughout the the special amusement space, instructing patrons to proceed to the nearest exit. Alarm signals used in conjunction with the pre-recorded message shall produce a sound which is distinctive from other sounds used during normal operations.

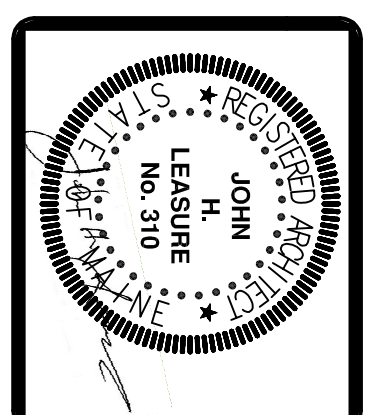
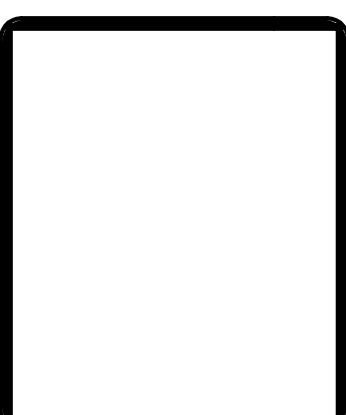
9. Marking of Means of Egress:
Illuminated exit signage other than main exterior door clearly identifiable as an exit.
Illuminated exit signage (directional) where the continuation of the egress path is not obvious.
Where designs that disguise the path of egress travel such that they are not apparent, approved and listed low-level exit signs shall be used. These signs shall be electrically powered, self luminous and photoluminescent and shall be listed and labeled in accordance with UL 924 and shall be installed in accordance with manufacturer's instructions. Exit signs shall be illuminated at all times. These directional path markings shall be located not more than 8 inches above the walking surface and on or near the path of egress travel. The directional exit marking shall be activated by the automatic sprinkler system. (411.7)
- Tactile EXIT signage (raised letters) at each exit door requiring an exit sign and at restrooms, braille (see plans) in accordance with the *American National Standard for Accessible and Usable Buildings and Facilities*. See Drawing A10.
10. Interior wall and ceiling finishes shall be Class A flame spread index 0-25; smoke developed index 0-450 and classified in accordance with ASTM E 84 or UL 723. (411.8)
11. Energy Efficiency
Comply with *Maine Uniform Energy Code (MUEC)* and 2009 International Energy Conservation Code (IECC)

ABBREVIATIONS

CONC.	CONCRETE
COL	COLUMN
GYP	GYPSUM
TYP	TYPICAL
V/F	VERIFY IN FIELD
VER	VERIFY OTHERWISE NOTED
W/P	WATERPROOFING
W/PL	WATERPROOFING POLYESTERINE MONOMER
DRWS	DRAWINGS
STR	STRUCTURAL
BD	BOARD
SF	SQUARE FEET
WI	WITH
M/L	MINIMUM
MAX	MAXIMUM
COORD	COORDINATE
EXIST	EXISTING
DN	DOWN
@	AT
©	CENTER
R.O.	ROUGH OPENING
M.O.	MASONRY OPENING
ELEV	ELEVATION
CLG	CEILING
F.C.	FIRE CODE
FR	FIRE RETARDANT TREATED
FR	FIRE RETARDANT POLYESTERINE
GC	GENERAL CONTRACTOR
PT	PRESSURE TREATED
CL	CENTER LINE

PROPOSED LASER TAG AMUSEMENT
SPARE TIME BOWLING
867 RIVERSIDE STREET
PORTLAND, MAINE
GENERAL NOTES

REV.	DATE	STATUS
0	2-26-15	ISSUED FOR PERMITS
1	3-10-15	GENERAL REVISIONS
2	4-10-15	GENERAL REVISIONS



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