BUILDING CODE REVIEW - 8TH EDITION 780 CMR DESIGNED TO INCLUDE STRETCH CODE UPDATES APPENDIX AA

BUILDING AND SITE CHARACTERISTICS:

I - EXISTING BARN:

PRIMARY OCCUPANCY: **EXISTING CONSTRUCTION TYPE:** EXISTING BUILDING HEIGHT (FEET):

HEIGHT (# OF FLOORS): LARGEST SINGLE FLOOR AREAS (SF): AUTOMATIC SPRINKLER PROTECTION: FIRE STANDPIPES:

U - UTILITY **VB - UNPROTECTED WOOD FRAMED** 14'-7" ABOVE GRADE MEASURED TO MID-POINT OF EXISTING ROOF 900 SF NO

A HEAT DETECTION SYSTEM IS PROVIDED IN THE EXISTING BUILDING THAT IS CONNECTED TO A CENTRAL STATION AND SOUNDS AN ALARM IN THE MAIN HOUSE. IT DOES NOT SOUND ALARMS WITHIN THE BARN.

NO

MEANS OF EGRESS IS BASED ON EXIT ACCESS AILES LEADING TO THE EXTERIOR ON THE FIRST FLOOR AND ONE UNENCLOSED INTERIOR STAIR FROM THE SECOND FLOOR.

II - PROPOSED WORK:

PRIMARY OCCUPANCY: ACCESSORY USE GROUP: CONSTRUCTION TYPE: HEIGHT (# OF FLOORS): **BUILDING HEIGHT:**

BUILDING AREA: AUTOMATIC SPRINKLER PROTECTION: FIRE STANDPIPES:

VB - UNPROTECTED / WOOD FRAMED 1 STORY + MEZZANINE 26'-0" ABOVE GRADE TO MID POINT OF NEW BARN HIP ROOF APX. 19,000 SF NO NO

U - UTILITY

R-3 RESIDENTIAL

THE HEAT DETECTION SYSTEM WILL BE EXPANDED TO INCLUDE THE NEW STABLE BUILDING. BUT NOT THE ARENA. THE SYSTEM WILL CONTINUE TO BE CONNECTED TO THE CENTRAL STATION AND SOUND AN ALARM IN THE MAIN HOUSE. IT WILL NOT SOUND ALARMS WITHIN THE BARN OR ARENA.

MEANS OF EGRESS WILL BE BASED ON EXIT ACCESS AISLES LEADING TO DOORS TO THE EXTERIOR ON THE FIRST FLOOR, AND ONE UNCLOSED INTERIOR EXIT ACCESS STAIR AND ONE INTERIOR EXIT ACCESS STAIR FROM THE MEZZANINE

III - CODE RATIONALE:

The general characteristics of the basic physical and occupancy characteristics of the expanded building may be summarized as follows:

1. The base building is of Use Group U in accordance with the definition of that occupancy in MSBC8 Section 312.

2. The base building is exempted from sprinkler requirements by the lack of a listing of Use Group U in in MSBC8 Table 903.2 (MA Amendments) and the fact that the building area limitation can be met using open perimeter increase without the sprinkler increase (See height and area limitations Table 120 of Appendix C and Section 506.2)

3 The apartment is allowed to be an accessory use of the Use Group U stable because it is subsidiary to the stable occupancy and is a mezzanine that is less than 10% of the area of the main floor (a mezzanine is not considered a story of the building but rather a portion of the floor below the mezzanine). MSBC8 508.2.2 concerning accessory occupancies states that "the requirements of this code shall 4 apply to each portion of the building based on the occupancy classification of that space" 5 The apartment must be considered to be of Use Group R-3 because it does have a dedicated stair that discharges to the exterior without requiring occupants to travel through the First Floor. The dedicated stair will be an enclosed stair with respect to the remainder of the building

6 The threshold for requirements for sprinklers in Use Group R is 0 sf in accordance with the body of MSBC8 Table 903.2. Therefore, sprinkler protection will be required in the accessory apartment. 7 Note a of MSBC8 Table 903.2 allows use of an NFPA 13D sprinkler system in single dwelling units.

IV - BUILDING CODE REQUIREMENTS FOR EXISTING BUILDINGS:

In accordance with MSBC8 Section 3401.1, the alteration, repair, addition, and change of occupancy of existing buildings shall be controlled by the provisions of the International Existing Building Code 2009 (IEBC 2009) and its appendices as modified by Massachusetts Amendments. Those documents, taken together, are identified as the Existing Building Code of Massachusetts (EBCM). The requirements of the EBCM specifically applicable to proposed renovation and alteration project except those related to the structural and electrical systems are summarized below.

Basic EBCM Requirements

The EBCM offers three alternatives for regulation of work in existing buildings: (1) the "Prescriptive" Compliance Method", (2) "Work Area Compliance Method" and (3) the "Performance Compliance Method". These three approaches are considered mutually exclusive: that is, a project must be based on one of those methods and complete the requirements applicable to that method. With respect to the EBCM, it is appropriate that the project be regulated by the Prescriptive Compliance Method in accordance with EBCM Chapter 3 as discussed below.

Given that the proposed work includes expansion of the original 900 sf barn to a 19,900 sf barn and riding arena, the project will be dominated by the new construction requirements of the Eighth Edition of the Massachusetts State Building Code (MSBC8) including the requirements of Appendix C concerning agricultural buildings. The basic requirements of the MSBC8 including Appendix C applicable to the project are summarized in Table No. 1.

Prescriptive Compliance Method Requirements

The following numbered paragraphs summarize the applicable requirements of EBCM Chapter 3 to the

Building Materials

project.

(1) Continue use of existing materials in conformance with requirements or approvals in effect at the time of their erection or installation unless determined by the *code official* to be *dangerous* to life, health or safety. (301.2.1)

(2) Mitigate or make safe conditions related to existing building materials that are determined to be *dangerous* to life, health or safety. (301.2.1)

(3) Utilize new and replacement materials as permitted by the applicable code for new construction. (301.2.2)

(4) Utilize like materials for repairs and alterations, provided no hazard to life, health or property is created. (301.2.2)

(5) Do not use hazardous materials where the code for new construction would not permit their use in buildings of similar occupancy, purpose and location. (301.2.2)

Item 1 through 5 will be satisfied by continued classification of the building as Type VB construction and expansion of the building in accordance with the MSBC8 provisions for new construction.

Additions

(6) Construct additions to the building in compliance with the requirements of the Massachusetts State Building Code for new construction. (302.1)

(7) Alter the existing building or structure so as to ensure that the existing building together with the addition are no less conforming with the provisions of this code than the existing building was prior to the addition. (302.1)

(8) Utilize a construction type that results in compliance of the existing building and the addition with the height and area limitations of Chapter 5 of the MSBC8. (302.1)

The building will be expanded as a result of the proposed project. Therefore, Items 6, 7 and 8 are applicable to the current project. The new construction will comply with the MSBC8 provisions for new construction that are summarized in Table No. 1. As demonstrated in the discussion of Item 1 in Table No. 1, the unsprinklered building will comply with the height and area restrictions of the MSBC8.

<u>Alterations</u>

(303.1)

No. 1.

EBCM Section 102.2.2.1 identifies means of egress problems such as an insufficient number of means of egress or insufficient egress capacity that, if present in an existing building, must be corrected. Separately, MSBC8 Section 1005.1, Exceptions 2 and 3 permit use of egress capacity factors of 0.2 inches per person and 0.30 inches per person for doors and stairs respectively in a unsprinklered building.

Glass Replacement

Change of Occupancy

The proposed project will not result in a change of occupancy of the existing building.

There will be no change of occupancy as a result of the proposed project. Compliance with the Prescriptive Compliance Method of the EBCM will insure the project qualifies for a certificate of occupancy upon completion of the proposed work.

(307.5)

In accordance with the IECC, altered building systems or portions thereof shall conform to the provisions of the IECC as they relate to new construction without requiring the unaltered portion(s) of the existing building or building system to comply with the IECC.

In this particular project, there are building features that will be regulated by the IECC because they are being altered or being constructed new. With respect to the insulation of the building, the IECC will require existing spaces that are converted from unconditioned to conditioned and new conditioned spaces shall be insulated in accordance with the IECC provisions for new construction. That requirement will be applicable to the toilet, viewing room, owner's tack room and apartment. Mechanical Systems

There are no mechanical systems in the expanded building except an exhaust ventilation fan in the single toilet room and the hearing system of the apartment. Those features will be required to comply with the mechanical and energy conservation codes.

The "Prescriptive Compliance Method" requirements include multiple additional requirements that are not applicable to this building because the conditions those requirements address are not present in the building. Those non-applicable sections are:

Accessibility Because the cost of the proposed project will exceed \$100,000 and also exceed 30% of the assessed value of the existing building, all existing and new building features and characteristics regulated by the Access Regulations will be required to comply with the Regulations of the MA Architectural Access Board (521 CMR). Those requirements are not included in this Code Summary.

Construction Type

characteristics:

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Construction Type: VB Occupancy Classification: U Sprinkler Protection: No Perimeter Access: 100%

As an agricultural building, the height and area of the barn and arena building are regulated by Table C102.1 of MSBC8 Appendix C. The provisions of Table C102.1 limit buildings with the above characteristics to one story in height and 12,000 sf plus the allowable area increase permitted for open perimeter in MSBC8 Section 506.2. For 100% perimeter access, Section 506.2 allows a 75% increase in the Table C102.1 allowable area. The allowable area is, therefore, 1.75 times the tabular allowance of 12,000 sf or 21,000 sf. The 19,000 sf building will therefore, satisfy the height and area limits for a building with the above listed characteristics.

(2) Utilize combustible materials of construction without restriction except materials regulated as interior finish and except the fabric covering of the arena membrane building.

The use of combustible materials in a building of Type VB construction is not restricted except materials used as interior finish and materials used as the arena exterior membrane and interior liner. The flammability characteristics of membrane and liner are restricted by MSBC8 Section 3102.3.1.

Building Separation

Occupancy Separations

(4) Provide a one-hour fire rating for walls and floor assembly including supporting construction between the apartment dwelling unit and the remainder of the building. (420)

(9) Design and construct alterations in compliance with the requirements of the *Massachusetts State* Building Code for new construction and also such that the existing building or structure is no less conforming to the provisions of this code than the existing building or structure was prior to the alteration.

The alterations within the existing building will be in accordance with the MSBC8 provisions for new construction. The basic requirements of the MSBC8 for a building of Use Group U are summarized in Table

Means of Egress Capacity Factors:

(10) Utilize means of egress capacity factors in accordance with Section 102.2.2.1 (303.6)

(11) Install or replace of glass as required for new installations. (306.1)

New installations of glass will comply with MSBC8 requirements for new construction.

(12) Make no change in the use or occupancy of any building that would place the building in a different division of the same group of occupancy or in a different group of occupancies, unless such building is made to comply with the requirements of this code for such division or group of occupancy except that, subject to the approval of the building official, the use or occupancy of existing buildings shall be permitted to be changed and the building is allowed to be occupied for purposes in other groups without conforming to all the requirements of this code for those groups, provided the new or proposed use is less hazardous, based on life and fire risk, than the existing use. (307.1)

(13) Obtain a certificate of occupancy once it has been determined that the requirements for the new occupancy classification have been met. (307.2)

Energy Conservation

(14) Buildings undergoing a change in occupancy that would result in an increase in demand for either fossil fuel or electrical energy shall comply with the International Energy Conservation Code.

(15) Make no change in the occupancy of a structure that will subject the structure to the special provisions of the International Mechanical Code applicable to the new occupancy without approval. The code official shall certify that the structure meets the intent of the provisions of law governing building construction for the proposed new occupancy and that such *change of occupancy* does not result in any hazard to the public health, safety or welfare. (307.8)

Other Prescriptive Compliance Method Requirements

Section 305.0 - Fire Escapes Section 308 – Historic Buildings Section 309 – Moved Structures

V - TABLE NO. 1 SUMMARY OF NEW CONSTRUCTION REQUIREMENTS EIGHTH EDITION OF THE MASSACHUSETTS STATE BUILDING CODE;

(1) Maintain MSBC8 Type VB construction. (T-503)

The expanded building is required to satisfy the height and area limitations of the MSBC8 for new construction. For purposes of calculation of those limitations, the building will have the following

(3) None required or provided

Primary Structural Elements

(5) Provide an unrated structural frame except as required for support of the wall and floor assemblies separating the residential apartment from the remainder of the building. (T-601)

- (6) Provide an unrated roof assembly. (T
- Floor Systems
- (7) Provide unrated floor assemblies exce
- **Interior Walls and Partitions**
 - (8) Provide rated partitions for enclosure with Section 420. (420)
 - (9) Provide partitions designed to resist t constructed of combustible materials from the floor below to the underside above around the spaces identified as resistant enclosures in Table No. 1 co use areas. (508.2.5.2, T-508.2.5)
- (10) Provide unrated doors to the areas ide 9 that are self-closing or arranged for closing upon detection of smoke. (302
- **Exterior Walls**
- (11) Maintain existing bearing and non-bea perimeter columns and beams of unrat construction. (T-601, T-602)
- (12) Utilize, as desired, unlimited, unprotect for all exterior walls. (705.8.1, T-705.8

Fire Alarm System

- (13) Provide a non-required manual fire pro having the basic features required by I stable but not the arena. (Not required)
- (14) Provide interconnected multiple station smc apartment. (907.2.9, 907.2.11.2)
- (15) Arrange the fire protective signaling sy required smoke detectors and optional

- (16) Provide 2 doors to the corridor system all rooms or spaces with occupant load than 50 persons or in which the comm travel distance exceeds 75 ft. (1015.1 1014.3)
- (17) Where two exit or exit access doors an from a room or other space, separate by a distance equal to or greater than of the longest diagonal of the area ser (1015.2.1, Exception 2)
- (18) Provide sufficient egress capacities for occupant loads of the separate buildin

- (20) Provide exit signs complying with Sect all rooms that require two or more exits access paths (See Item 22) and in the access paths of the building. (1011.1)
- (21) Provide means of egress lighting in all means of egress in accordance with S (1006)

Sprinkler Systems

Fire Extinguishers

Standpipe

Fire standpipes are required in buildings with flo fire department vehicle access. The Wildstar Fa fire department vehicle access. system, exit signs and emergency ligh

- not provide emergency power for mean illumination in rooms and spaces that two or more means of egress (see Item NFPA 72, 1011.5.3, 1006.3)
- Interior Finish
- (26) Utilize interior finish for walls and ceilin utilize Class C or better interior finish w
- (27) Utilize floor coverings without restriction floor coverings such as wood, vinvl, linc resilient floor finish materials or carpeti the DOC FF-1 "pill test" (CPSC 16 CF in the apartment. (804.4.1)

| Roof Assembly | Table No. 1A Enclosures of Incidental Use Areas (MSBC8 Table 508.2.5) | |
|--|--|---|
| (6) Provide an unrated roof assembly. (T-601) Floor Systems | Furnace room where any piece of Provide automatic | |
| (7) Provide unrated floor assemblies except as required by Item 4. (T-601, 420) | equipment is over 400,000 Btu per hour input fire-extinguishing system and smoke resistant enclosure Rooms with any boiler over 15 psi Provide automatic | |
| Interior Walls and Partitions | and 10 horsepower fire-extinguishing system and smoke resistant enclosure | |
| (8) Provide rated partitions for enclosure of the apartment in accordance with Section 420. (420) | Refrigerant machinery rooms Provide automatic sprinkler system and smoke resistant enclosure | |
| (9) Provide partitions designed to resist the passage of smoke constructed of combustible materials which extend from the floor below to the underside of the floor or roof | Laboratories and vocational shops Provide automatic fire-extinguishing system and smoke resistant enclosure | |
| above around the spaces identified as requiring smoke resistant enclosures in Table No. 1 concerning incidental | Laundry rooms over 100 square feet Provide automatic fire-extinguishing system and smoke resistant enclosure | |
| use areas. (508.2.5.2, T-508.2.5) (10) Provide unrated doors to the areas identified in Item | Waste and linen collection roomsProvide automaticover 100 square feetfire-extinguishing system | |
| 9 that are self-closing or arranged for automatic closing upon detection of smoke. (302.1.1.1) | and smoke resistant enclosure | |
| (11) Maintain existing bearing and non-bearing exterior walls and | | |
| perimeter columns and beams of unrated, non-combustible construction. (T-601, T-602) | % FRONTAGE: 100% | |
| (12) Utilize, as desired, unlimited, unprotected exterior wall openings for all exterior walls. (705.8.1, T-705.8) | WIDTH OF PUBLIC WAY OR OPEN SPACE: >60' | |
| The fire separation distances for all exterior walls of the buildings measured to the centerlines of the adjacent public streets, to adjacent interior lot lines and to imaginary lot lines between other buildings of the | CONSTRUCTION REQUIREMENTS FOR TYPE V-B PRIMARY STRUCTURAL FRAME EXTERIOR BEARING WALLS | 0 0 |
| complex will all exceed 30 feet. For that fire separation distance, the exterior walls at all locations permitted to be unrated and with unlimited openings. | INTERIOR BEARING WALLS EXTERIOR NON-BEARING WALLS INTERIOR NON=BEARING WALLS | 0 0 0 |
| Fire Alarm System | FLOOR CONSTRUCTION ROOF CONSTRUCTION | 0 0 |
| (13) Provide a non-required manual fire protective signaling system having the basic features required by MSBC8 Section 907.0 in the stable but not the arena. | FIRE PROTECTION SYSTEM AUTOMATED WATER SPRINKLER SYSTEM THROUGHOUT | NO |
| (Not required) (14) Provide interconnected multiple station smoke alarms within the | NFPA 13D SPRINKLER SYSTEM IN RESIDENTIAL ACCESSORY USE AUTOMATIC AUDIBLE AND VISUAL FIRE ALARM SYSTEM STANDPIPE SYSTEM | YES YES NO |
| apartment. (907.2.9, 907.2.11.2) (15) Arrange the fire protective signaling system for activation by any | FIRE EXTINGUISHERS ALLOWABLE HEIGHT AND AREA CALCULATIONS: | YES |
| required smoke detectors and optional manual fire alarm boxes. (907.5) At the least, interconnected, multiple station, photoelectric type smoke alarms will be provided within the | A. TABULAR AREA ALLOWABLE TABLULAR AREA | |
| apartment and interior egress path to and through the First Floor. The existing fire detection and alarm system of the barn monitoring existing and new heat detectors in the | (TABLE C102.1 MSBC8 APPENDIX C): INCREASE FOR FRONTAGE (TABLE 506.2): 75% INCREASE; ALLOWABLE HEIGHT (TABLE C102.1 MSBC8; | 12,000 SF 21,000 SF 40 FT |
| stable and, optionally, the smoke alarms or smoke detectors in the apartment will be provided for a higher level of protection of the building. That system will be connected to transmit alarms to a central station and sound an alarm in the main house on the property. | INCREASE FOR SPRINKLERS (TABLE 506.2): TOTAL ALLOWABLE BUILDING AREA: DESIGNED BUILDING AREA: | N/A 21,000 SF 19,608 SF |
| (16) Provide 2 doors to the corridor system from | B. DESIGNED BUILDING AREA (MEASURED TO INSIDE OF EXTERIO | R WALL): |
| all rooms or spaces with occupant loads of more than 50 persons or in which the common path of travel distance exceeds 75 ft. (1015.1, T-1015.1, 1014.3) | EXISTING 1ST FLOOR NEW 1ST FLOOR ARENA NEW 1ST FLOOR STABLE MEZZANINE: CONSIDERED PART OF STORY CONTAINED WITHI | 1,107 SF 15,192 SF 3,309 SF N PER 505. |
| | | |
| (17) Where two exit or exit access doors are required from a room or other space, separate the doors | TOTAL DESIGNED BUILDING AREA | 19,608 SF |
| from a room or other space, separate the doors by a distance equal to or greater than one third of the longest diagonal of the area served. | | · |
| from a room or other space, separate the doors by a distance equal to or greater than one third of the longest diagonal of the area served. (1015.2.1, Exception 2) (18) Provide sufficient egress capacities for the calculated | MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT (780 CMR TAI | BLE 1004.1. |
| from a room or other space, separate the doors by a distance equal to or greater than one third of the longest diagonal of the area served. (1015.2.1, Exception 2) (18) Provide sufficient egress capacities for the calculated occupant loads of the separate buildings. (1005.1) Based on the low populations of the two levels of the building and the egress capacity of any single means | | BLE 1004.1. CUPANT |
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