Code Information

APPLICABLE CODES:
2015 Rehabilitation Code for Existing Buildings
2015 Michigan Building Code
2015 Michigan Plumbing Code
2015 Michigan Mechanical Code
2014 Michigan Electrical Code
2015 International Fire Code
2017 Michigan Barrier Free: ICC/ANSI 117.1/2017
American Disabilities Act: Title III ADAAG

CODE REQUIREMENTS

SCOPE OF WORK:
PROJECT CONSISTS OF A DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF NEW SENIOR CENTER FACILITY INCLUDING ASSEMBLY SPACES; ADULT EDUCATION AND ACTIVITY SPACES; SUPPORTING FACILITIES

TYPE OF CONSTRUCTION: 5B

USE GROUP AND CLASSIFICATIONS: **(A-2) Dining Areas** - Assembly; **(A-3) Activity Areas - Library** Assembly; **(B) OFFICES AND ADULT EDUCATION** Business; Storage/Mechanical/Kitchen

AUTOMATIC SPRINKLER SYSTEMS (MRCEB 704.2.2 (Item No. 1), MBC 903):
(MBC 903.2.7) **Required**: Group A occupancy fire area is larger then 5000 s.f.
The fire area has an occupant load over 100
(**SPRINKLER SYSTEM IS PROVIDED**)

BUILDING HEIGHT & AREA LIMITATIONS (NBC 503):
(NBC Table 503) - Allowable Building Heights and Areas:
A-2 (Assembly) most restrictive:
Allowable Area = 24,000 s.f.- actual **15,509 S.F. + 1615 S.F. Covered drop off = 17,124 S.F.**
13,237 CONDITIONED SPACE
1,682 COVERED PORCH LAKESIDE
303 COVERED ENTRY SOUTH
215 COVERED ENTRY KITCHEN
72 COVERED ENTRY N.W.
Allowable Height = 2 story & (60'-0") - actual **1 story (25'-0")**

WALL & CEILING FINISHES: (MRCEB 703.4, MBC 803):
(MBC Table 803.9) - Interior finishes: shall comply with Table 803.9.
Exit enclosures & passageways: Class B
Rooms & enclosed spaces: Class C
(MBC 807.1) - Insulation: thermal & acoustical insulation shall comply with (MBC 719) - flame spread index not more that 25, smoke developed index not more than 450.

PORTABLE FIRE EXTINGUISHERS (MRCEB 3404.3.3.1 MBC 906):
(MBC 906.1) - Provide portable fire extinguishers where indicated and in accordance with the International Fire Code Section (3404.3.3.1), MBC Table 906.1
(MBC 906.3) - Portable fire extinguishers to have a minimum 2-A rating ((2) 1-A rated deemed equivalent), within 75 feet of any point in building, located in conspicuous locations or signed per MBC 906.5 & 6

FIRE ALARM & DETECTION SYSTEMS (MRCEB 704.4, MBC 907)
(MBC 907.2.1) **Required**: Group A occupancy has an occupant load greater than 300.

OCCUPANT LOAD: (MBC 1004, TABLE 1004.1.2)
A-2/A-3 ASSEMBLY: Indoor Gathering: 15 s.f. net per occupant
4,137 s.f. divided by 15 = **276 occupants**
A-3 ASSEMBLY: Outdoor Seating:15 s.f. net per occupant
1,519 s.f. divided by 15 = **101 occupants**
B BUSINESS: Office/Conference:100 s.f. gross per occupant
1930 s.f. divided by 100 = **20 occupants**
Adult Classroom: 20 s.f. net per occupant
1932 s.f. divided by 20 = **97 occupants**
STORAGE/KITCHEN/UTILITY:
Commercial Kitchen: 200 s.f. net per occupant
688 s.f. divided by 200 = **4 occupants**
Storage/Mechanical: 300 s.f. net per occupant
911s.f. divided by 300 = **4 occupants**

Total = **502 occupants**

MEANS OF EGRESS: (MRCEB 705,)

NUMBER OF EXITS (MRCEB 705.3.1, MBC Table 1006.3.1)
Total Occupant Load 501-1000 = 3 required: **5 provided**

OCCUPANT LOAD AND TRAVEL DISTANCE (MRCEB 705.4.1.1, MBC 1006):
(MBC 1006.2.1) Common Path of Egress Travel, Group A:
Maximum common path of egress travel shall not exceed 75 ft

DOOR SWINGS (MRCEB 705.4.2) - doors serving an occupant load greater than 50 shall swing in direction of egress travel

MEANS OF EGRESS LIGHTING (MRCEB 705.7, MBC 1006)
Means of egress illumination level shall not be less than 1 footcandle at walking surface.

EXIT SIGNS (MRCEB 705.8, MBC 1011.1)
Exit signs shall be provided at exits, exit access doors and paths of exit travel - internally or externally illuminated.

EXIT ACCESS TRAVEL DISTANCE (MBC 1017):
(MBC 1017.1 ; table 1016.2): with automatic sprinkler system:
Travel distance (A use) to an exit shall not exceed 250ft. from any point in the building.

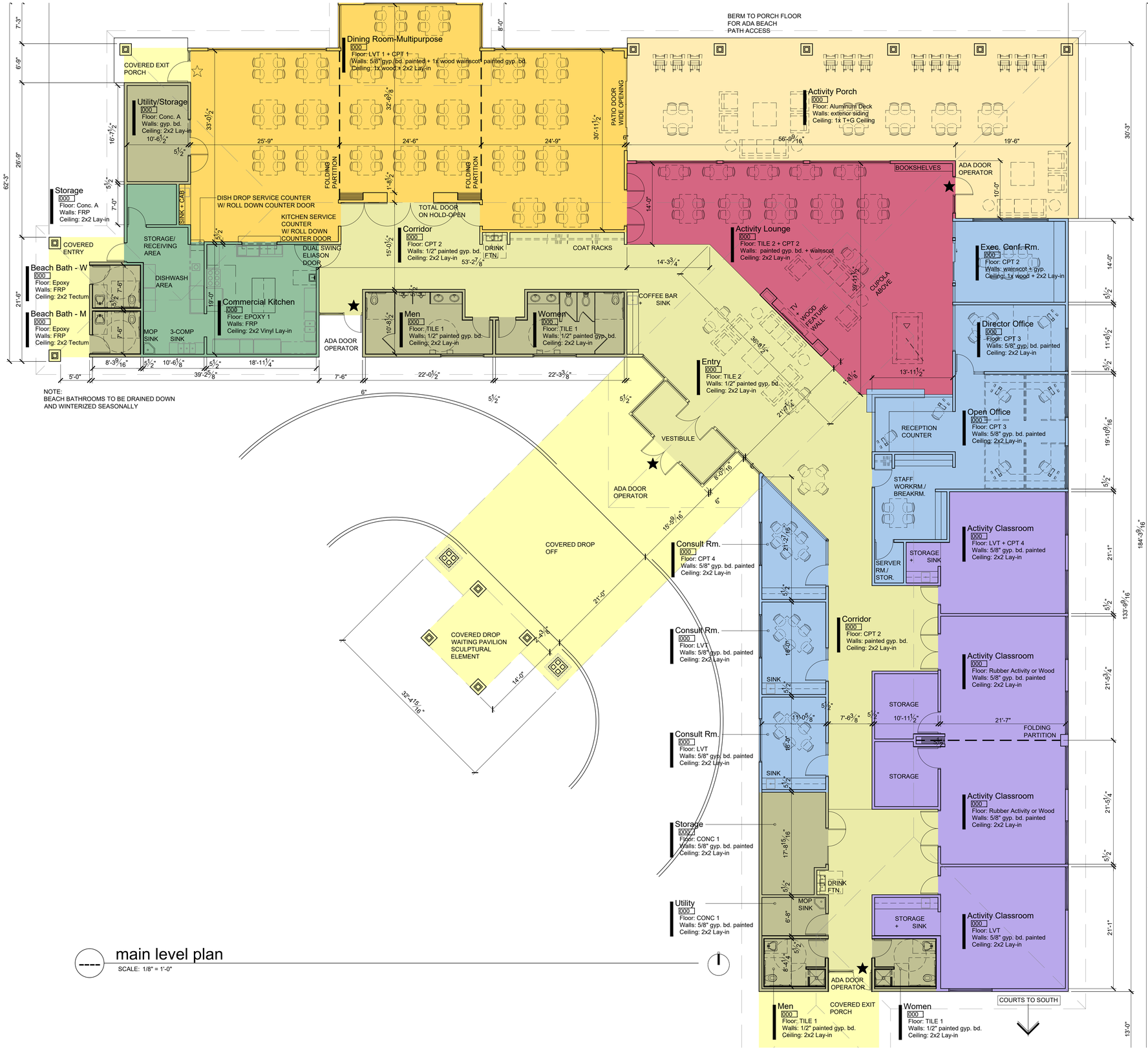
PLUMBING FIXTURES REQUIRED

		Water Closets		Lavatories		Drinking Fountains	Service Sink
		Men	Women	Men	Women	502 occ. 1:500 = 2	1 required
Assembly (A-2) 1:75	144 occ.	72 occ. = 1 req.	72 occ. = 1 req.				
Assembly (A-3) 1:125	231 occ.	116 occ. = 1 req.	116 occ. = 1 req.				
Business (B) 1:25	20 occ.	10 occ. = 1 req.	10 occ. = 1 req.				
Education (B (E)) 1:50	97 occ.	48.5 occ. = 1 req.	48.5 occ. = 1 req.				
Plumbing Fixtures Provided		4	4			2	1

NOTE: (2) ADDITIONAL SEASONAL - EXTERIOR ACCESS TOILET ROOMS PROVIDED

Life Safety Symbol Legend

- ★ Accessible entrance/egress
- ☆ Exit
- ▶ Portable Fire Extinguisher
- Exit sign w/ emergency lighting unit



main level plan
SCALE: 1/8" = 1'-0"

ISSUES:

DATE:	DESCRIPTION:
10-29-19	Preliminary
10/29/19	

PRELIMINARY
NOT FOR CONSTRUCTION
Oct. 28, 19

Proposed New Building for
Traverse City Senior Center

1912
801 East Fronst St.
Traverse City, MI

Main Level Floor Plan

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A3.1