

**LIVING PRAIRIE MUSEUM – BUILDING CODE REVIEW**

**3.1 GENERAL INFORMATION**

BUILDING AREA: 295 M2  
 BUILDING HEIGHT: ONE STOREY  
 (WITH UPPER EXTERIOR ROOF VIEWING DECK)  
 FACING STREETS: ONE STREET / 400 M2 MAXIMUM AREA  
 SPRINKLERED: NO  
 FIREWALL: NO  
 OCCUPANT LOAD: 78 PERSONS  
 - NEW CLASSROOM = 34.8 M2 / 1.85 = 19 PERSONS  
 - DISPLAY AREA = 72.4 M2 / 1.85 = 39 PERSONS  
 - OFFICE AREAS = 52.0 M2 / 9.3 = 6 PERSONS  
 - VIEWING MEZZ. = 26.0 M2 / 1.85 = 14 PERSONS

**3.2 BUILDING FIRE SAFETY**

3.2.2.28. GROUP A, DIVISION 2, ONE STOREY

1) COMBUSTIBLE CONSTRUCTION PERMITTED

- a) 1 STOREY
- b) LESS THAN 400 M2

NOTE: NO FIRE RATINGS REQUIRED FOR ROOF, STRUCTURE OR FLOORS

3.2.3. SPATIAL SEPARATION: NOT APPLICABLE

3.2.4. FIRE ALARM SYSTEM: NOT REQUIRED

3.2.5. PROVISIONS FOR FIRE FIGHTING

3.2.5.1.1) FIRE FIGHTER'S ACCESS REQUIRED FOR EVERY 15M / 49 FT OF WALL REQUIRED TO FACE A STREET.

NOTE: NEW FIRE LANE REQUIRED

3.2.5.5.1) ACCESS ROUTES TO NOT BE LESS THAN 3M / 10 FT OR MORE THAN 15M / 49 FT AWAY FROM ACCESS ENTRANCES.

2) DISTANCE TO HYDRANT SHALL BE 45M TO THE PUMPER AND MAXIMUM 45M TO THE BUILDING ( 90 M / 295 FT ).

3.2.5.6.1) ACCESS ROUTE DESIGN:

- a) 6 M / 20 FT WIDTH
- b) 12 M / 40 FT CENTRELINE RADII
- c) 5 M / 17 FT HEIGHT CLEARANCE
- d) 1-12.5 MAX CHANGE IN GRADIENT
- e) BE DESIGNED TO CARRY TRUCK LOADS
- f) IN MORE THAN 90 M / 295 FT IN LENGTH, HAVE A TURNAROUND.

3.2.7. LIGHTING & EMERGENCY POWER SYSTEMS

3.2.7.1. 1) 50 LX REQUIRED AT FLOOR LEVEL / TREAD LEVEL ON STAIRS

3.2.7.3.1) EMERGENCY LIGHTING REQUIRED

3.2.7.4.1.b) iii) 30 MINUTE EMERGENCY LIGHTING POWER SUPPLY REQUIRED.

3.2.8 MEZZANINES - NOT APPLICABLE

**3.3 SAFETY WITHIN FLOOR AREAS**

3.3.1.3.4) ROOF WITH LESS THAN 60 PERSONS ( 14) AND LESS THAN 200 M2 IN AREA, ONLY REQUIRE 1 EXIT.

3.3.1.5.1) & TABLE 3.3.1.5.A: 2 EXITS REQUIRED ON MAIN FLOOR.

3.3.1.20. JANITOR'S ROOMS TO BE FIRE RATED 45 MINUTES

**3.4 EXITS**

3.4.1.1.A TWO EXITS REQUIRED

3.4.2.2.2) MEZZANINE NOT REQUIRED TO HAVE 2 EXITS DUE TO:

- a) IT IS NOT REQUIRED TO TERMINATE AT FIRE RATING
- b) LESS THAN 60 PERSON OCCUPANT LOAD
- c) AREA IS LESS THAN 150 M2
- d) LESS THAN 15 M / 49 FT FROM MEZZ TO EXIT DOOR.

3.4.2.5.1) TRAVEL DISTANCE TO AN EXIT TO BE

f) 30 M / 98.5 FT.

3.4.5.1. EXIT SIGNAGE IS REQUIRED

**3.5 VERTICAL TRANSPORTATION - N/A**

**3.6 SERVICE FACILITIES - N/A**

**3.7 HEALTH REQUIREMENTS**

3.7.4.2A 39 FEMALES; 2 WC'S

39 MALES; 1 WC

3.7.4.3.1) 1 LAVATORY REQUIRED PER 2 WC'S

3.7.4.6.1) URINALS TO HAVE WALL PROTECTION OF 900MM / 35.4" FROM THE URINAL IN ALL DIRECTIONS

**3.8 BARRIER-FREE DESIGN**

3.8.2.1. BARRIER-FREE PATH OF TRAVEL IS REQUIRED IN ALL AREAS EXCEPT SERVICE ROOM AND UPPER STOREY ( PER TABLE 3.8.2.B ).

3.8.2.3. WASHROOMS ARE REQUIRED TO BE BARRIER-FREE

3.8.3.1. ACCESSIBILITY SIGNAGE REQUIRED AT PARKING, ENTRANCE AND WC ENTRY DOORS.

**3.8.3.3. DOORS:**

- 1) 800MM / 31.5" CLEAR WIDTH
- 2) LEVER TYPE HANDLES
- 3) 13MM / .5" BEVELLED THRESHOLDS
- 4) AUTO-OPENER IS NOT REQUIRED
- 10) LATCH SIDE CLEARANCE OF 300MM / 12" ON PUSH SIDE AND 600MM / 24" ON PULL SIDE OF ALL DOORS.
- 11) VESTIBULES TO HAVE 1200MM / 48" PLUS THE DOOR SWING INTERIOR DIMENSION.

**3.8.3.8. WATER CLOSET STALLS:**

- 1) a) 1500MM X 1500MM ( 5 FT X 5 FT)
- b) HAVE A DOOR THAT IS:
  - i. LOCKING
  - ii. 760MM / 30" WIDTH
  - iii. SWING OUTWARD
  - iv. HAVE AN INTERIOR DOOR PULL
  - v. HAVE AN EXTERIOR DOOR PULL
- c) WC WITH WALL CLEARANCE OF 285-305MM / 11-12 INCHES
- d) HAVE GRAB BARS:
  - i. HORIZONTALLY, EXTENDING 450MM / 16" FRONTWARD AND AFTWARD OF THE FRONT OF THE BOWL
  - ii. BE MOUNTED ON THE REAR OF THE TANK
  - iii. 840-920MM / 33-36" HEIGHT
  - iv. RESIST A 1.3kN
  - v. 30-40MM / 1.2-1.6" DIAMETER
  - vi. BE 35-45MM / 1.4-1.8" CLEAR OF WALL
- e) HAVE A COAT HOOK, MAX. 1400MM / 55" HIGH & 50MM / 2" PROJECTION
- f) HAVE A CLEARANCE NOT LESS THAN 1700MM / 5'-7" FROM THE STALL FACE TO THE FACE OF THE INSWINGING WC DOOR AND 1400MM / 4'-7" TO ANY WALL MOUNTED FIXTURE.

**3.8.3.9.1) WATER CLOSETS:**

- a) SEAT HEIGHT 400-460MM / 15.7-18" HIGH
- b) HAVE HAND OPERATING CONTROLS
- c) HAVE A SEAT LID OR BACK SUPPORT
- d) NOT HAVE A SPRING LOADED SEAT

**3.8.3.10. URINALS**

- 1) a) RIM HEIGHT OF 488-512MM / 19.2-20"
- 2) a) HAVE A CLEAR WIDTH OF 800MM / 31.5" CENTRED ON URINAL
- b) HAVE A GRAB BAR ON EACH SIDE THAT IS 300MM / 12" LONG, 1000MM / 39" FLOOR TO CENTRELINE AND 380MM / 15" HORIZONTALLY FROM CENTRE OF FIXTURE.

**3.8.3.11. 1) LAVATORIES**

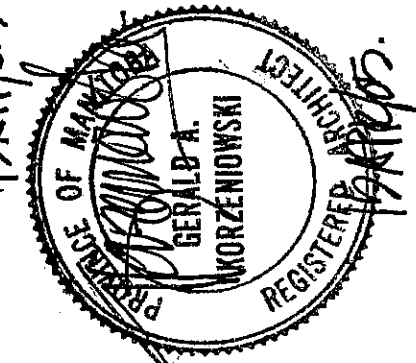
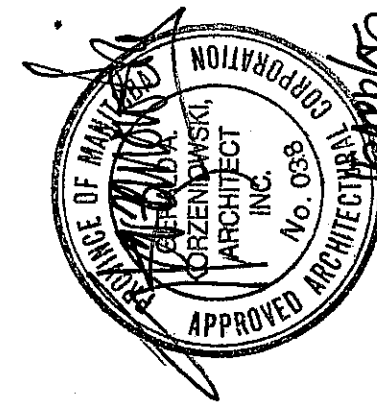
- a) 460MM / 18" FROM CENTRE TO ADJACENT WALL
- b) 865MM / 34" HEIGHT
- c) HAVE A CLEARANCE BELOW OF:
  - i. 760MM / 30" WIDE
  - ii. 735MM / 29" CLEAR HEIGHT AT FRONT
  - iii. 685MM / 27" TO 205MM / 8" INTO
  - iv. 230MM / 9" HEIGHT TO 430MM / 17" INTO
- d) HAVE INSULATED PIPES
- e) LEVER HANDLES, WITHOUT SPRING LOADING
- f) HAVE SOAP / TOWELS WITHIN 1200MM / 48" HEIGHT AND REACHABLE FROM A WHEELCHAIR AT THE SINK.
- 4) MIRRORS TO BE 1000MM / 39" ABOVE FLOOR OR TILTED

**3.8.3.14. COUNTERS**

- 1) WHEN MORE THAN 2M / 6'-6" IN LENGTH, ONE SECTION SHALL BE WHEELCHAIR ACCESSABLE
- 2) 865MM / 34" HEIGHT
- 3) KNEE SPACE BENEATH:
  - a) 760MM / 30" WIDE
  - b) 685MM / 27" HIGH
  - c) 485MM / 19" DEEP

**3.8.3.16.1) DRINKING FOUNTAINS:**

- a) SPOUT AT FRONT THAT IS 915MM / 36" ABOVE FLOOR
- b) OPERABLE WITH ONE HAND, WITHOUT TWISTING



SHEET TITLE  
**BUILDING CODE**

PROJECT TITLE  
**LIVING PRAIRIE MUSEUM  
 2795 NESS AVE**

218 OVERDALE STREET  
 WINNIPEG, MB. R3J 2G3  
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 ARCHITECT INC.**



SHEET NO.  
**A-16**

FILE NO.  
**2417**

DRAWN  
**KLM**

DATE  
**APR 3/05**

SCALE