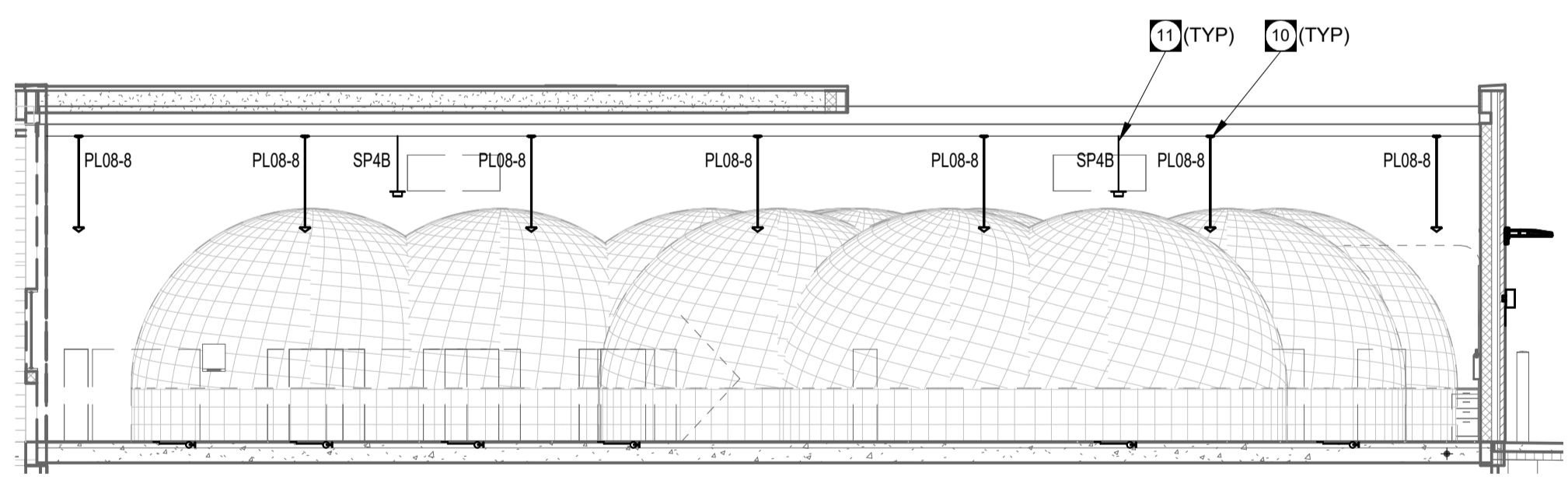
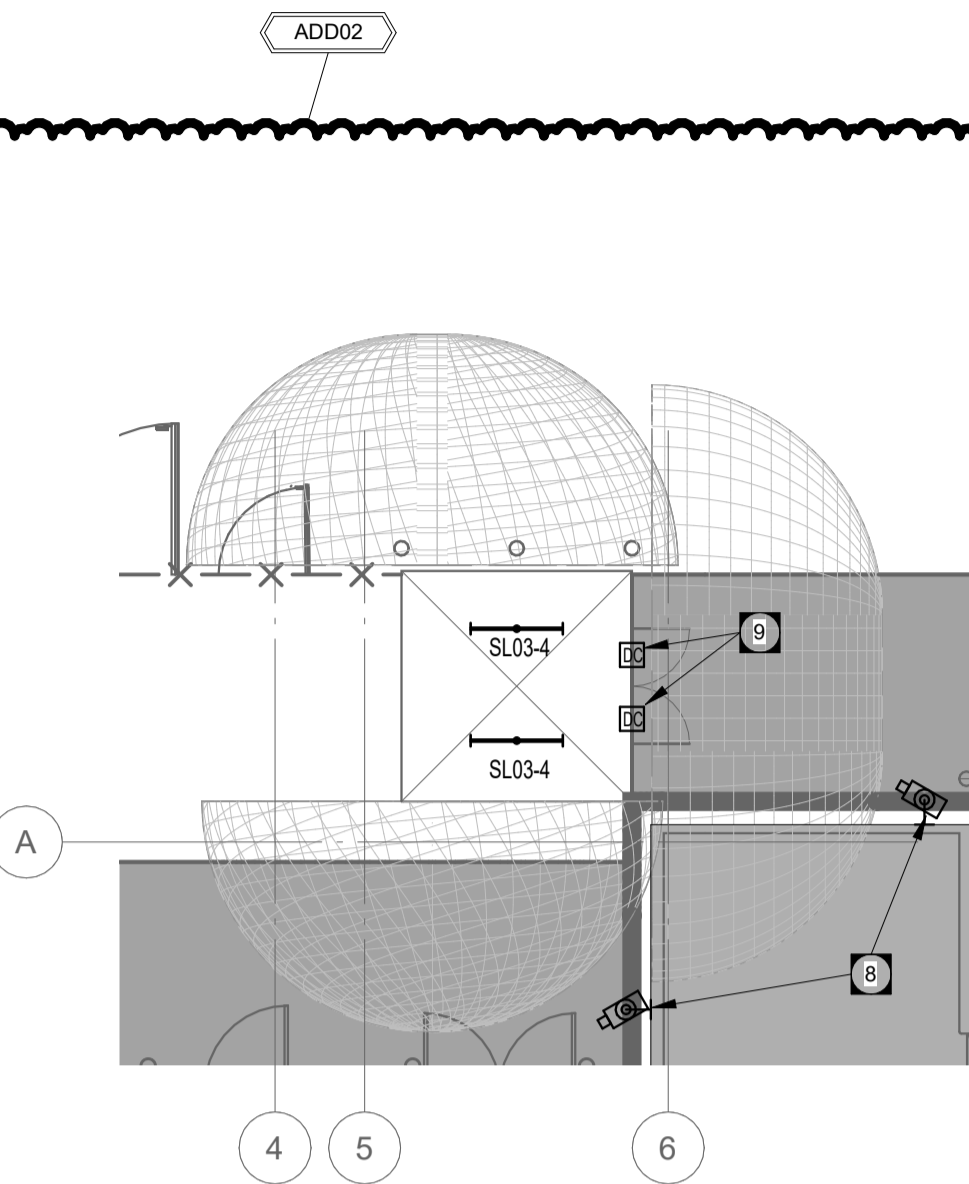


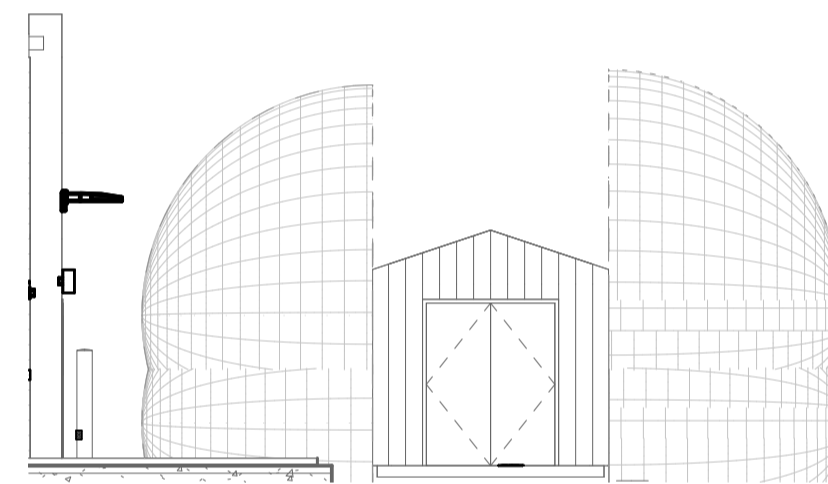
1 CONSTRUCTION & WOOD TECHNOLOGY - CSA HAZARD ZONES  
SCALE 1:100



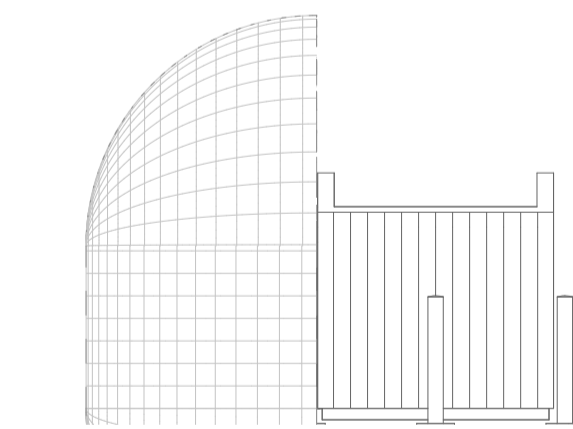
2 CONSTRUCTION & WOOD TECHNOLOGY - CSA HAZARD ZONE WEST ELEVATION  
SCALE 1:100



3 TANK STORAGE SHED - CSA HAZARD ZONE FLOOR PLAN  
SCALE 1:100



4 TANK STORAGE SHED - CSA HAZARD ZONE WEST ELEVATION  
SCALE 1:100



5 TANK STORAGE SHED - CSA HAZARD ZONE NORTH ELEVATION  
SCALE 1:100

GENERAL NOTES

- A. THE GENERAL NOTES AS HEREIN DESCRIBED APPLY TO THE ENTIRE CONSTRUCTION & WOOD TECHNOLOGY SPACE UNLESS SPECIFICALLY NOTED OTHERWISE.
- B. EXPOSED WIRING SHALL UTILIZE EMT CONDUIT C/W WET LOCATION APPROVED COUPLINGS AND CONNECTORS.
- C. EXPOSED BOXES AND FITTINGS SHALL BE IN ACCORDANCE WITH CEC 18-252(2).
- D. SURFACE MOUNTED ENCLOSURES FOR EQUIPMENT DISCONNECTS SHALL BE SUITABLE FOR CIRCULATING DUST AS PER DEC TABLE-68.
- E. RECEPTACLES SHALL BE EQUIPPED WITH SELF-CLOSING COVERS SUITABLE FOR WET LOCATION. WHERE DUPLEX RECEPTACLES ARE USED, PROVIDE, EACH SECTION OF THE RECEPTACLE WITH A SELF-CLOSING COVER.
- F. LIGHTING FIXTURES INCLUDING EXIT SIGNAGE SHALL BE TYPE 4 LISTED.
- G. HATCHED AREA IDENTIFIES ZONE 22 CLASSIFIED ELECTRICALLY HAZARDOUS LOCATION. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL WIRING METHODS, DEVICES, AND EQUIPMENT WITHIN THESE AREAS SHALL BE SUITABLE FOR ZONE 22 REQUIREMENTS.

CONSTRUCTION WOOD TECHNOLOGY

AREA CLASSIFICATION:  
ZONE 22, GROUP IIIB

MATERIAL:  
WOOD DUST, PARTICLE SIZE <30µm  
IGNITION TEMP = 260C

ASSUMPTIONS:

1. GOOD HOUSEKEEPING ADHERED TO. CLEAN AS NECESSARY TO MAINTAIN LESS THAN 3MM (1/8") DUST LAYER.
2. DUST COLLECTION SYSTEM INSTALLED AND INTERLOCKED WITH EQUIPMENT OPERATION. I.E. SIGNIFICANT DUST CREATING EQUIPMENT WILL NOT ENERGIZE UNLESS DUST COLLECTION SYSTEM IS OPERATING.
3. WITHIN ZONE 22 AREA, NO VISIBLE DUST CLOUD WITH A DUST LAYER NOT EXCEEDING 3MM (1/8") UNDER NORMAL OPERATING CONDITIONS WITH DUST COLLECTOR.

TANK STORAGE

AREA CLASSIFICATION:  
ZONE 2, GROUP IIC, T2

MATERIALS:  
ACETYLENE - GROUP IIC, T2 (300C)  
OXYGEN - NOT RESTRICTED, OXIDIZER

ASSUMPTIONS:

1. MATERIALS STORED:  
ACETYLENE:  
1 CYLINDER = 3.68 M<sup>3</sup>  
8 CYLINDERS TOTAL = 29.44 M<sup>3</sup>  
OXYGEN:  
1 CYLINDER = 3.68 M<sup>3</sup>  
8 CYLINDERS TOTAL = 29.44 M<sup>3</sup>  
TANK STORAGE IS ADEQUATELY VENTILATED. VENT PROVIDED EXCEEDS 0.1M<sup>2</sup> PER EVERY 50 M<sup>2</sup>

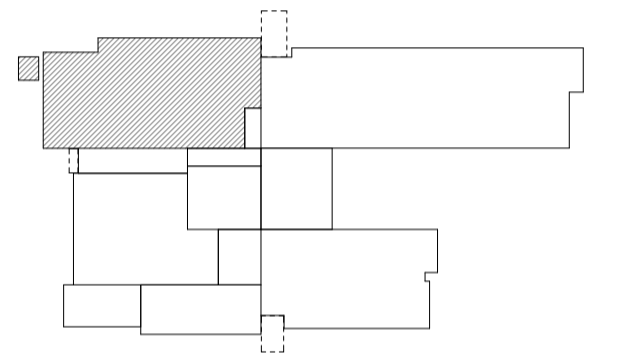


KEY NOTES

1. FIRE ALARM SIGNAL DEVICE SHALL BE NEMA 4X.
2. MANUAL STATION SHALL BE CONVENTIONAL AND LISTED FOR WET LOCATION.
3. EXIT SIGNAGE SHALL BE NEMA 4X.
4. LIGHTING FIXTURES SHALL BE NEMA 4X.
5. MOTION DETECTOR SHALL BE NEMA 4X.
6. CLASSROOM INTERCOM CALL SWITCH LOCATED OUTSIDE OF ZONE 22 AREA.
7. CLASSROOM INTERCOM CLOCK SPEAKER LOCATED OUTSIDE OF ZONE 22 AREA.
8. CCTV CAMERA LOCATED OUTSIDE OF ZONE 2 LOCATION.
9. DOOR CONTACTS SHALL BE SUITABLE FOR ZONE 2 AREA. COORDINATE WITH FONTAINE ELECTRIC.
10. NEMA 4 LIGHTING FIXTURE PENDANT SUSPENDED USING THREADED ROD AND STEEL CHANNEL SUPPORT. MOUNT HIGH AS POSSIBLE TIGHT TO UNDERSIDE OF MECHANICAL DUCTWORK. MAINTAIN MOUNTING HEIGHT THROUGHOUT THE SPACE.
11. INSTRUCTIONAL AUDIO SYSTEM SPEAKER PENDANT SUSPENDED USING PENDANT MOUNTING KIT. MOUNT SPEAKER ABOVE HAZARDOUS ZONE AREA TIGHT TO UNDERSIDE OF CEILING JOISTS.

**ese** epp siepman  
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BUILDING KEYPLAN - MAIN  
SCALE 1:2000

**LM esp**

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	ADDENDUM_2-DRAWING_EP2.4-R1	24-04-25
ISSUED FOR CONSTRUCTION	JS MP	24-04-01
No.	REVISION/DESCRIPTION	BY DATE

SEAL

EW DRAWN	MP/KG CHECKED	KG DESIGNED	MP/KG APPROVED
DATE 2024-04-25	USER APPROVAL		

THE CITY OF WINNIPEG  
ASSETS & PROJECT MANAGEMENT  
DEPARTMENT  
MUNICIPAL ACCOMMODATIONS DIVISION  
3-65 GARRY STREET, R3C 4K4

PROJECT  
PEMBINA TRAILS COLLEGIATE  
VOCATIONAL WING  
TENDER NO. 954-2023B  
50 FRONTIER TRAIL, WINNIPEG, MANITOBA, R3Y 2H1

SHEET TITLE  
Main Floor West - CSA Hazard Zone Plan

SCALE As indicated	PROJECT No: 2020-127	SHEET No: EP2.4-R1
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