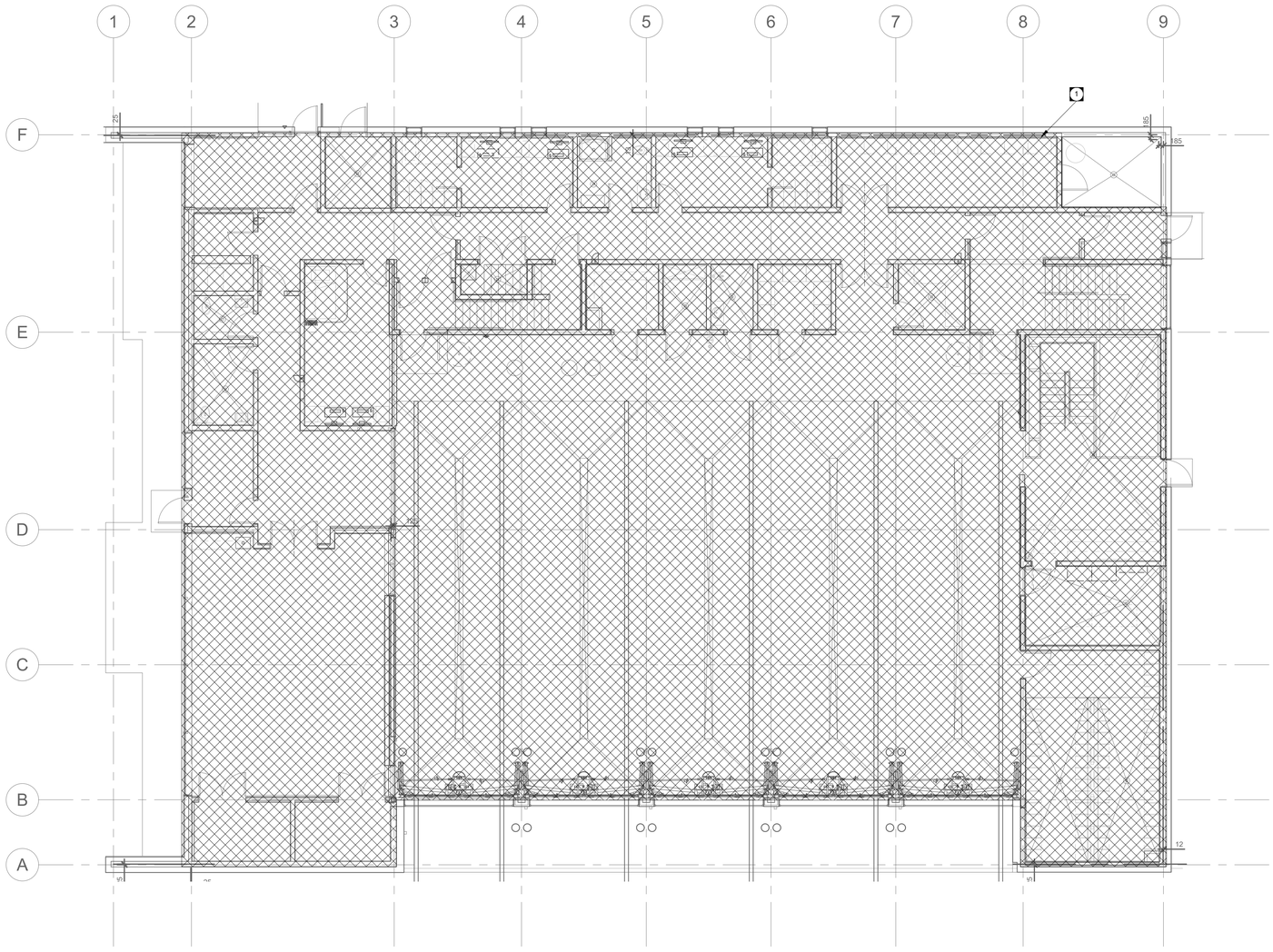

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MAIN FLOOR - AREA CLASSIFICATION PLAN
SCALE: 1 : 100

KEY NOTES

1 ZONE 2 HAZARDOUS AREA EXTENDS 50MM ABOVE FINISHED FLOOR LEVEL.

HAZARDOUS AREA CLASSIFICATION LEGEND

ORDINARY HAZARD

ZONE 2 HAZARDOUS AREA

HAZARDOUS ZONE CLASSIFICATION NOTES

A. THE APPARATUS BAY OF WFPS STATION 9 AS A COMMERCIAL REPAIR GARAGE IS CONSIDERED A ZONE 2 HAZARDOUS AREA FROM FLOOR LEVEL UP TO 50MM AFF AS PER CANADIAN ELECTRICAL CODE (CEC) TECHNICAL INTERPRETATIONS TO SECTION 20. ALL ELECTRICAL EQUIPMENT AND WIRING SHALL MEET REQUIREMENTS OF CEC. SECTION 20 AND NOTES LISTED HEREIN.

B. FOR EACH FLOOR AT OR ABOVE GRADE, THE ENTIRE AREA UP TO A LEVEL OF 50mm ABOVE THE FLOOR SHALL BE ZONE 2 LOCATION EXCEPT THAT ADJACENT AREAS SHALL NOT BE CLASSIFIED AS HAZARDOUS LOCATIONS PROVIDED THAT THEY ARE:
   A. ELEVATED FROM A SERVICE AND REPAIR AREA BY AT LEAST 50mm; OR
   B. SEPARATED FROM A SERVICE AND REPAIR AREA BY TIGHT-FITTING BARRIERS SUCH AS CURBS, RAMPS, OR PARTITIONS AT LEAST 50mm HIGH.

C. PER CEC ITEM 20-102, THE ENTIRE FLOOR AREA UP TO 50mm ABOVE APPARATUS BAY FLOOR LEVEL INCLUDING BELOW FLOOR LEVEL (ELEVATOR PIT AND SUMP PITS) SHALL BE CLASSIFIED AS A ZONE 2 HAZARDOUS LOCATION. WIRING METHODS AND MATERIAL WITHIN THAT LOCATION SHALL BE IN ACCORDANCE WITH CEC SECTION 18 REQUIREMENTS FOR HAZARDOUS ZONE 2.

D. AVOID INSTALLATION OF ELECTRICAL EQUIPMENT WITHIN ZONE 2 HAZARDOUS LOCATION. WHERE NECESSARY, PROTECT WIRING AND EQUIPMENT WITH MINIMUM 50mm CONCRETE CURB OR HOUSEKEEPING PAD OR INSTALL TO CEC SECTION 18 REQUIREMENTS FOR ZONE 2.

E. EXPOSED WIRING SHALL NOT BE PERMITTED. WIRING SHALL BE RECESSED IN WALL OR WHERE WALLS ARE NOT ACCESSIBLE DUE TO WALL CONSTRUCTION (CONCRETE BLOCK. CONCRETE, BRICK, ETC), PROVIDE CONDUIT AS REQUIRED TO CONCEAL SAME. COORDINATE WITH ARCHITECTURAL.

F. PERMANENTLY INSTALLED LUMINAIRES THAT ARE LOCATED OVER LANES THROUGH WHICH VEHICLES ARE COMMONLY DRIVEN SHALL BE PERMITTED TO BE SUITABLE FOR NON-HAZARDOUS LOCATIONS AND SHALL BE:
   A. LOCATED NOT LESS THAN 3.6m ABOVE FLOOR LEVEL; OR
   B. PROTECTED FROM MECHANICAL DAMAGE BY A GUARD OR BY LOCATION.

G. BATTERY CHARGERS AND THEIR CONTROL EQUIPMENT, AND BATTERIES BEING CHARGED, SHALL NOT BE LOCATED WITHIN THE HAZARDOUS AREAS.

H. WITHIN HAZARDOUS AREA AS DEFINED IN RULE 20-102 , WIRING AND EQUIPMENT SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF SECTION 18 OF THE CEC.

Cibinel
Architecture Ltd
560 ACADEMY ROAD WINNIPEG MB R3N 0E3
T. 204 989 8910

ARCHITECT

epp siepman engineering
400 - 136 Market Avenue
Winnipeg, MB R3B 0P4
T 204 453 1080

CONSULTANT

N

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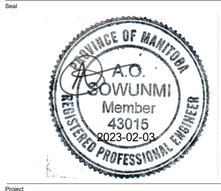

Project

WFPS STATION 9

1083 AUTUMNWOOD DRIVE

Sheet Title

AREA CLASSIFICATION PLAN

Project No. 22028

Sheet E1.1