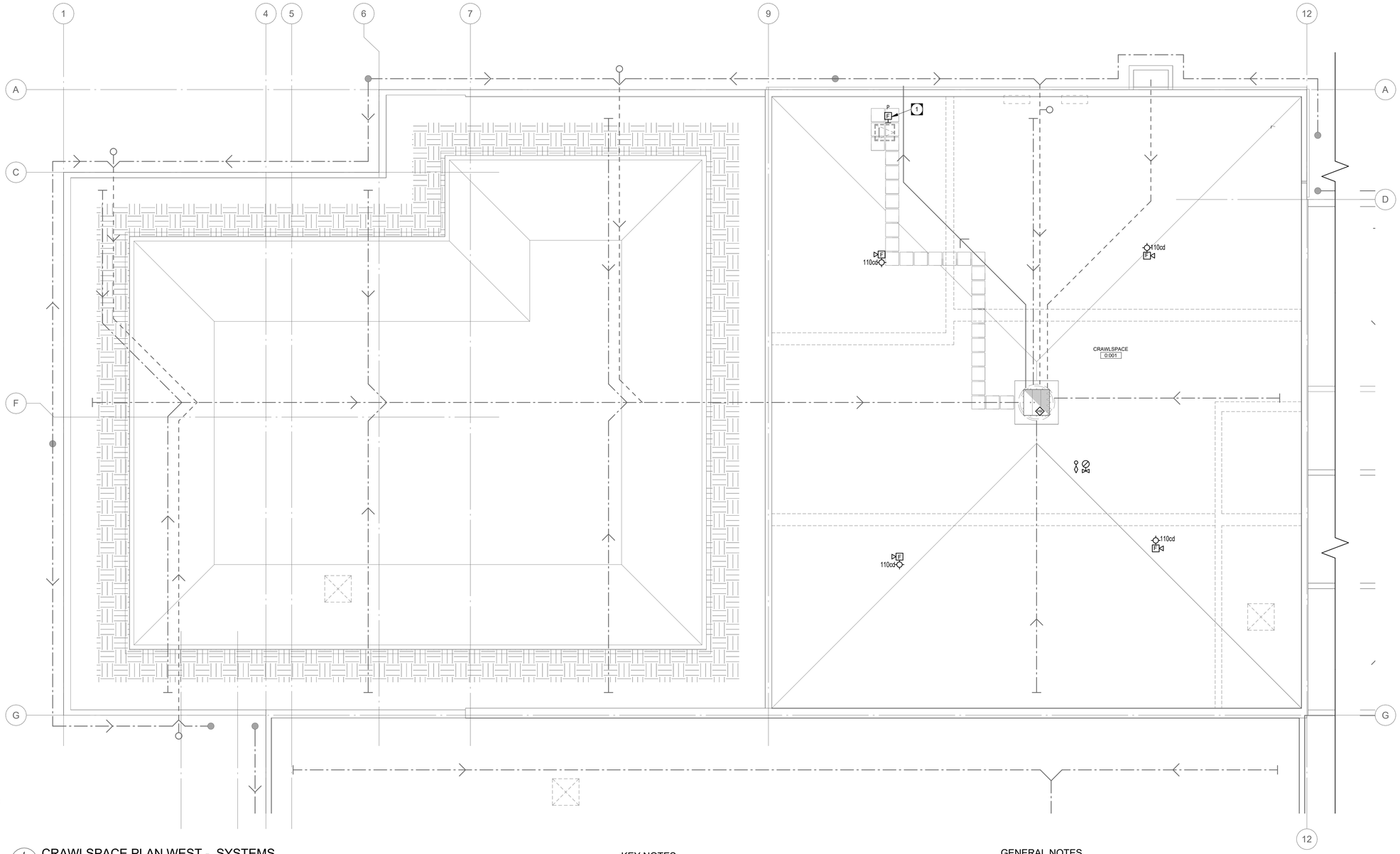

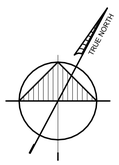

1 ESL/ CRAWLSPACE PLAN WEST - SYSTEMS

SCALE 1 : 100

KEY NOTES

1 MOUNT FIRE ALARM MANUAL STATION WITHIN CLOSE PROXIMITY OF ACCESS HATCH. COORDINATE BEST LOCATION ON SITE.

GENERAL NOTES

A. COMMUNICATIONS CABLING SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.

B. COMMUNICATIONS CONDUIT SHALL BE INSTALLED WITH NO MORE THAN TWO (2) 90° BENDS BETWEEN PULL BOXES, AND NO MORE THAN 30m (100 '-0") BETWEEN PULL BOXES. PULL BOXES SHALL BE INSTALLED FOR STRAIGHT THRU PULLS ONLY.

C. ELECTRICAL CONTRACTOR SHALL COORDINATE QUANTITIES AND LOCATIONS OF ALL FLOW SWITCHES AND SUPERVISED VALVES REQUIRING CONNECTION TO FIRE ALARM SYSTEM WITH SPRINKLER CONTRACTOR.

D. PROVIDE TESTING AND VERIFICATION FOR ALL NEW AND MODIFIED FIRE ALARM DEVICES.

E. REFER TO FIRE ALARM RISER DIAGRAM FOR FURTHER REQUIREMENTS.

F. HEAT DETECTORS WITHIN CRAWLSPACE SHALL BE NON-ADDRESSABLE MOISTURE PROOF TYPE.

G. ALL MANUAL STATIONS SHALL BE INSTALLED COMPLETE WITH VANDAL GUARD.

H. COORDINATE FINAL LOCATION OF ELECTRICAL WITH FURNITURE LAYOUTS PRIOR TO ROUGH-IN.

I. HOMERUN ALL SYSTEMS CABLING BACK TO EXISTING IT ROOM (IDC) UNLESS SPECIFICALLY NOTED OTHERWISE.

J. PROVIDE ALTERNATE PRICE FOR INSTRUCTIONAL AUDIO SYSTEMS.
   a. BASE BID: PROVIDE ROUGH-IN FOR INSTRUCTIONAL AUDIO SYSTEMS DEVICES AND EQUIPMENT AS INDICATED.
   b. ALTERNATE PRICE: PROVIDE ALTERNATE PRICE TO INSTALL, WIRE AND CONNECT DIVISION SUPPLIED DEVICES AND EQUIPMENT AS INDICATED.

K. PROVIDE ALTERNATE PRICE FOR CCTV SYSTEMS.
   a. BASE BID: PROVIDE ROUGH-IN FOR CCTV SYSTEMS DEVICES AND EQUIPMENT AS INDICATED.
   b. ALTERNATE PRICE: PROVIDE ALTERNATE PRICE TO INSTALL, WIRE AND CONNECT DIVISION SUPPLIED DEVICES AND EQUIPMENT AS INDICATED. INCLUDE ALL CAMERA VIEW ADJUSTMENTS, AND OPERATIONAL TESTING.

L. PROVIDE ALTERNATE PRICE FOR MASTER CLOCK AND PUBLIC ADDRESS SYSTEMS.
   a. BASE BID: PROVIDE ROUGH-IN FOR MASTER CLOCK AND PUBLIC ADDRESS SYSTEMS DEVICES AND EQUIPMENT AS INDICATED.
   b. ALTERNATE PRICE: PROVIDE ALTERNATE PRICE TO INSTALL, WIRE AND CONNECT DIVISION SUPPLIED DEVICES AND EQUIPMENT AS INDICATED. INCLUDE ALL OPERATIONAL TESTING.

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Epp Siepman Engineering Inc.
No. 4035

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

LM esp
LM Architectural Group | Environmental Space Planning
500-136 Market Avenue Winnipeg, Manitoba Canada R3B 0P4
t: 204.942.0681 lm-esp.ca

No.	REVISION/DESCRIPTION	BY	DATE
0	ISSUED FOR TENDER	JS/MP	24-04-01

SEAL

PROVINCE OF MANITOBA
M. G. PENNER
Member
23792
2024-04-01
PROFESSIONAL ENGINEER

EW DRAWN	MP/KG CHECKED	KG DESIGNED	MP/KG APPROVED
DATE 2024-04-01	USER APPROVAL		

Winnipeg
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
Underslab/Crawlspace West - Systems Plan

SCALE	PROJECT No:	SHEET No:
As indicated	2020-127	ES2.0

DRAWING SHEET SIZE: A1 (594x841) PLOT 1:1
ESE 24049