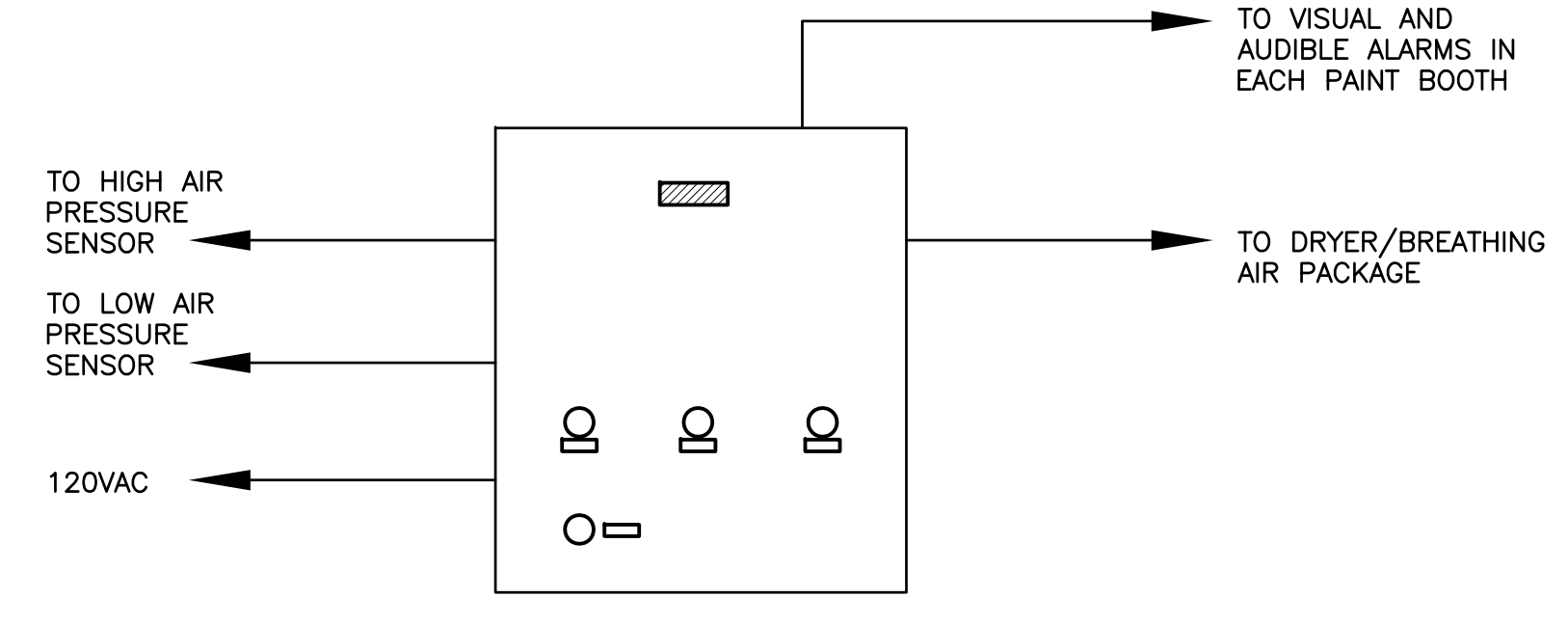


**1** PARTIAL MAIN FLOOR PLAN - ELECTRICAL LAYOUT  
1/8" = 1'-0"

**NOTES:**

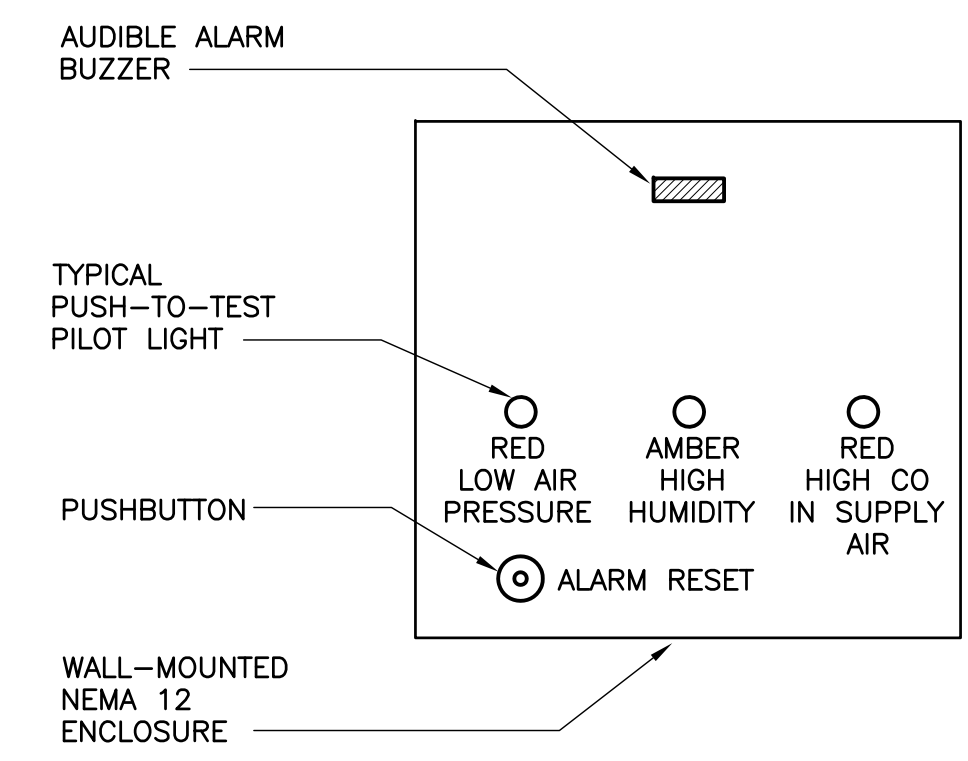
- DISCONNECT EXISTING BREATHING AIR COMPRESSORS AND ASSOCIATED CONTROLS UPON COMMISSIONING OF THE NEW BREATHING AIR SYSTEM.
- RELOCATE EXISTING STARTER AND THERMOSTAT AS SHOWN. EXTEND EXISTING WIRING.
- WIRE AND CONNECT 30HP COMPRESSOR PACKAGES AC-1 AND AC-2, 460V-3PH. INSTALL, WIRE AND CONNECT 600V-460V TRANSFORMERS SUPPLIED BY COMPRESSOR VENDOR AND VFD CONTROLLER. FEED EACH COMPRESSOR FROM A NEW MATCHING 50A-3P CIRCUIT BREAKER IN PANEL LP-RB WITH 3#8 TECK. WIRE DRAIN VALVES TO A NEW MATCHING 15A-1P CIRCUIT BREAKER IN PANEL PBL.
- WIRE AND CONNECT VENTILATION FAN F1 3HP 208V 3PH TO A NEW MATCHING 30A-3P CIRCUIT BREAKER IN PANEL PBL WITH 3#12 TECK. PROVIDE MAGNETIC STARTER IN COMPRESSOR ROOM.
- WIRE AND CONNECT DRYER/BREATHING AIR PACKAGE TO A NEW MATCHING 15A-1P CIRCUIT BREAKER IN PANEL PBL WITH 2#12 TECK.
- BREATHING AIR SYSTEM REMOTE ALARM PANEL. WIRE TO A NEW MATCHING 15A-1P CIRCUIT BREAKER IN PANEL PBL AND ASSOCIATED MECHANICAL SYSTEM CONTROLLERS AND REMOTE ALARMS.
- EXISTING VISUAL AND AUDIBLE ALARMS. TIE TO BREATHING AIR CONTROL PANEL. PROVIDE MATCHING SIGNALS. ALL WIRING WITHIN PAINT BOOTHS TO BE SUITABLE FOR CLASS 1 ZONE 1 INSTALLATION.
- WIRE AND CONNECT TWO (2) MOTORIZED DAMPERS. PROVIDE MATCHING 120V-24V TRANSFORMER. WIRE TO THERMOSTAT IN COMPRESSOR ROOM. REFER TO MECHANICAL DRAWINGS FOR SEQUENCE OF OPERATION. FEED FROM A NEW MATCHING 15A-1P BREAKER IN PANEL PBL.



**2** BREATHING AIR ALARM SYSTEM RISER DIAGRAM  
N.T.S

**NOTES:**

- PILOT LIGHTS ON THE ALARM PANEL TO INDICATE LOW AIR PRESSURE, HIGH AIR PRESSURE, AND HIGH CO IN SUPPLY AIR.
- THE FOLLOWING CONDITIONS TO INITIATE AUDIBLE ALARM ON THE PANEL AND AUDIBLE/VISUAL ALARMS IN PAINT BOOTHS:  
- HIGH AIR PRESSURE  
- LOW AIR PRESSURE  
- HIGH CO IN SUPPLY AIR
- ALARM RESET BUTTON IS TO SILENCE AUDIBLE ALARM ONLY.



**3** BREATHING AIR ALARM PANEL ELEVATION  
N.T.S

**SYMBOL LEGEND**

- ELECTRIC MOTOR. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION.
- DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR.
- PANELBOARD.
- MAGNETIC STARTER BY ELECTRICAL CONTRACTOR.
- JUNCTION BOX.
- ALARM HORN.
- ALARM STROBE LIGHT.
- THERMOSTAT BY MECHANICAL CONTRACTOR.
- MOTORIZED DAMPER. WIRE AND CONNECT AS REQUIRED. PROVIDE MATCHING 24V TRANSFORMER.

01	ISSUED FOR ADDENDUM	08.06.17	L.K.
00	ISSUED FOR TENDER	08.05.27	L.K.
NO.	DESCRIPTION	DATE	ISSUED BY

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CLIENT  
**CITY OF WINNIPEG  
TRANSIT DEPARTMENT**

**WARDROP** | Engineering Inc.

PROJECT NAME  
**WINNIPEG TRANSIT - OSBORNE STREET GARAGE  
PAINT BOOTH BREATHING AIR SYSTEM UPGRADE**

DRAWING DESCRIPTION  
**PARTIAL MAIN FLOOR PLAN  
ELECTRICAL LAYOUT**

<b>PRELIMINARY DRAWING</b>  NOT TO BE USED FOR CONSTRUCTION	DESIGNED BY: L.K.	DRAWN BY: T.S.	CHECKED BY: L.K.
	APPROVED BY: AR		
	SCALE: AS NOTED	DATE: 08.04.08	
	DRAWING NO. <b>0829720100-DWG-E0001</b>	REV. <b>01</b>	

