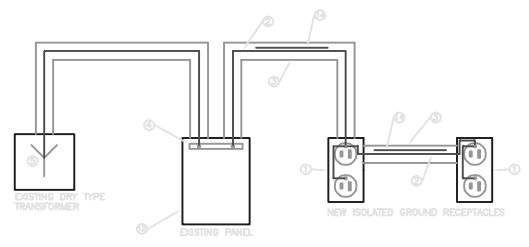
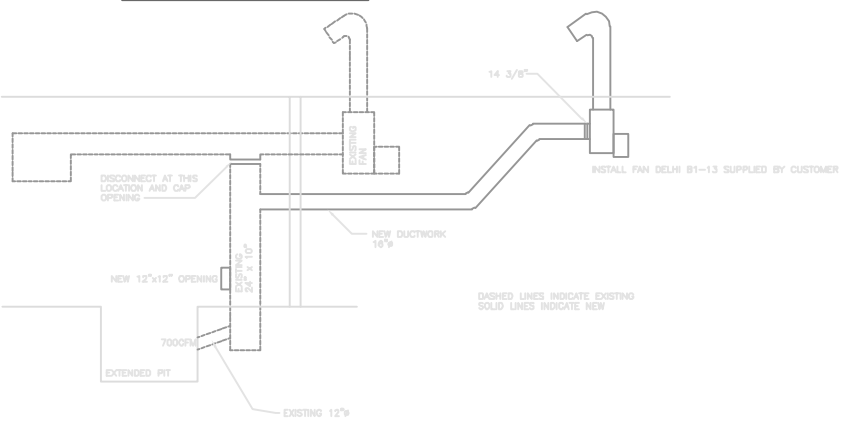


- NOTES**
- N1 INSTALL CONDUITS FOR GAS DETECTORS AND LIGHTING THROUGH EXISTING 12" EXHAUST DUCT. ALL CONDUIT AND WIRING FROM PIT TO BE EXPLOSION PROOF.
  - N2 EXTEND EXISTING COMPRESSED AIR LINES TO ADDITIONAL LOCATIONS FOR ROLLING JACK AND REPAIRS.
  - N3 EXISTING EXHAUST DUCT FROM PIT
  - N4 WIRE GAS DETECTOR CONTROL PANELS TO PROVIDE ALARM ON FIRST LEVEL OF GAS PRESENCE AND ENSURE GENERAL EXHAUST AND SUPPLY FANS ARE RUNNING WITH DAMPER POSITION TO ALLOW FULL ADMISSION OF MAKE UP AIR AND FULL EXHAUST IF LEVEL INCREASES.



**ISOLATED GROUND WIRING SCHEMATIC**

- BILL OF MATERIAL AND INSTRUCTIONS**
- ① NEW ISOLATED GROUND DUPLEX RECEPTACLES (ORANGE COLOUR) 44 INCHES ABOVE FLOOR
  - ② INSULATED GROUND CONDUCTOR (GREEN YELLOW)
  - ③ RIGID STEEL CONDUIT SUITABLE FOR GROUNDING
  - ④ GROUND BUS ON INSULATORS: IF NOT PRESENT RUN INSULATED GROUND CONDUCTOR THROUGH TO TRANSFORMER NEUTRAL IN SAME CONDUIT AS PANEL FEEDER
  - ⑤ POINT OF CONNECTION TO TRANSFORMER NEUTRAL
  - ⑥ FLUORESCENT LIGHTING FIXTURES EXPLOSION PROOF, APPLETON NO. ARS232 WITH EP248 GAIRD MOUNTED HORIZONTALY
  - ⑦ SWITCH FOR PIT LIGHTING WIRE TO 15A-1P BREAKER IN ②
  - ⑧ DO GAS DETECTOR TYPE RDS EXPLOSION PROOF
  - ⑨ CO GAS CONTROL PANEL TYPE SC4
  - ⑩ NO GAS DETECTOR TYPE AST EXPLOSION PROOF
  - ⑪ NO GAS DETECTOR/CONTROL PANEL TYPE SCP
  - ⑫ EXISTING 120/208V, 3Φ PANEL WITH 15VA TRANSFORMER ABOVE PANEL
  - ⑬ 2-15AMP, 1-POLE BREAKER IN ②
  - ⑭ #12-RW90
- BY CRITICAL ENVIRONMENTAL TECHNOLOGIES AVAILABLE THROUGH BPL SALES



**EXHAUST SYSTEM MODIFICATIONS (REV.3)**



**MANENCO ENGINEERING**  
 318 - 830 CENTURY STREET  
 WINNIPEG, MANITOBA R2H 3T8  
 TEL: (204) 783-0712  
 FAX: (204) 774-3714

REV. NO. | DATE | BY | CHECKED BY

1	ORIGINAL DESIGN	07/12/01	DK	
2	MECHANICAL REVISIONS	11/20/02	DK	
3	ADDED EXHAUST SYSTEM	7/22/03	DK	

REC. DWG. NO. **01154-M 3**

ISSUED FOR CLIENT REVIEW	July 10/01		
REVISIONS			
NO.	DESCRIPTION	DATE	BY
CLIENT			
<b>CITY OF WINNIPEG TRANSIT</b>			
421 OSBORNE ST., WINNIPEG, MANITOBA			
PROJECT			
INSTALL FRONT END ALIGNMENT MACHINE DYNAMOMETER ROOM			
DESIGNED BY			
ELECTRICAL AND MECHANICAL			
DATE	ISSUED BY	DESIGN BY	CHECKED BY
		DK	
APPROVED BY			
<b>D.H. ROBBINS</b>			
SCALE	DATE	NO.	REV.
AS NOTED	July 8, 01	01402-01-S1	3