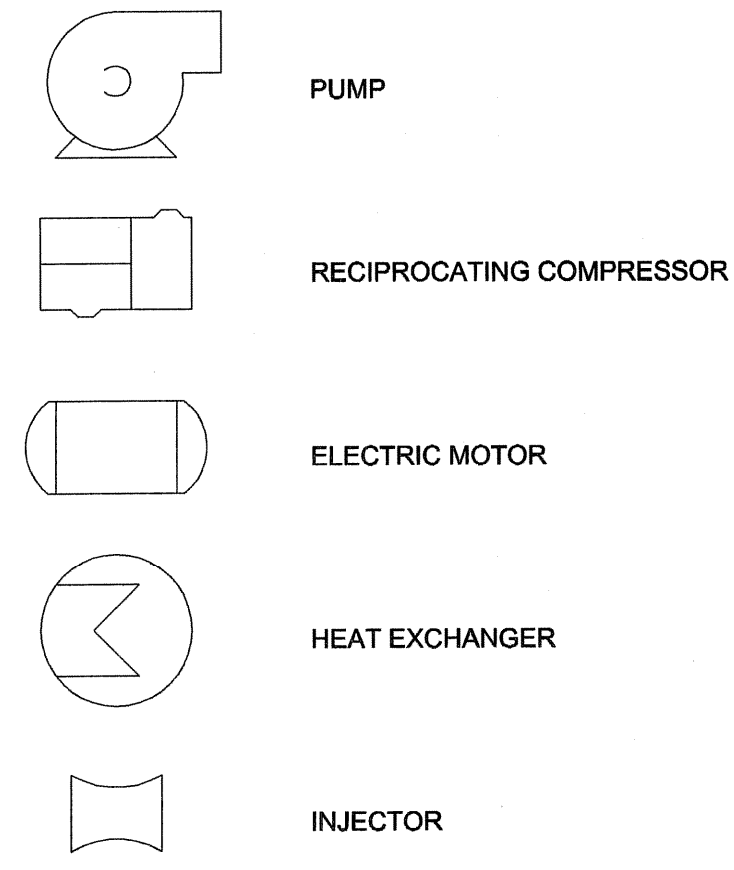


D SIZE 22" x 34" (569mm x 864mm)

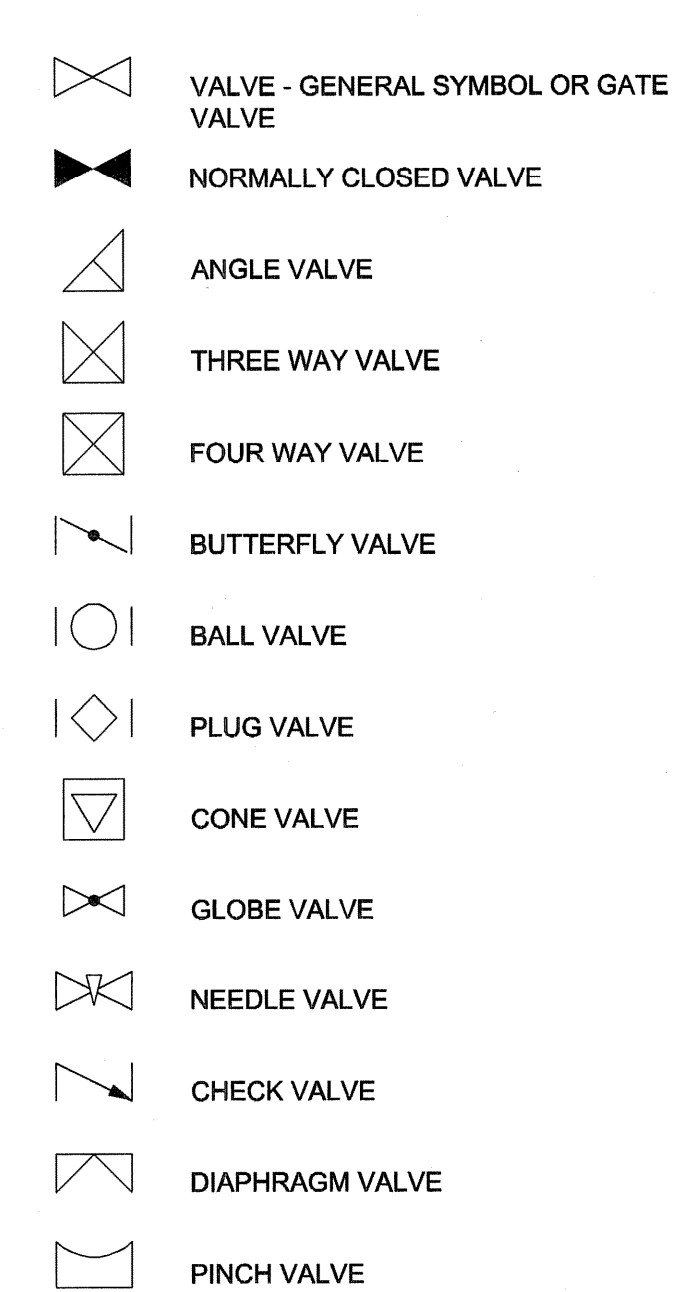
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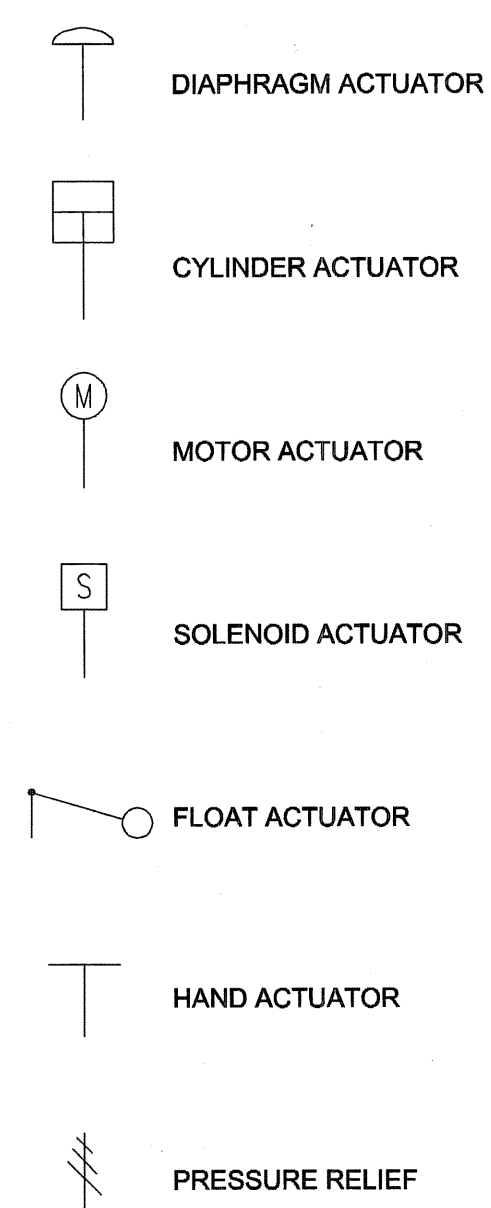
EQUIPMENT SYMBOLS



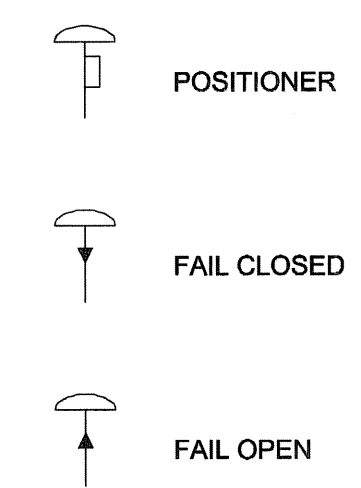
VALVE SYMBOLS



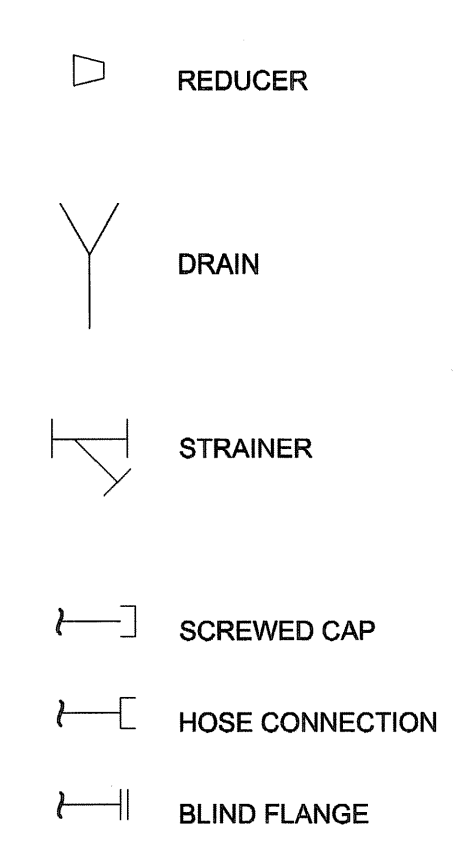
ACTUATOR SYMBOLS



ACTUATOR DETAIL SYMBOLS



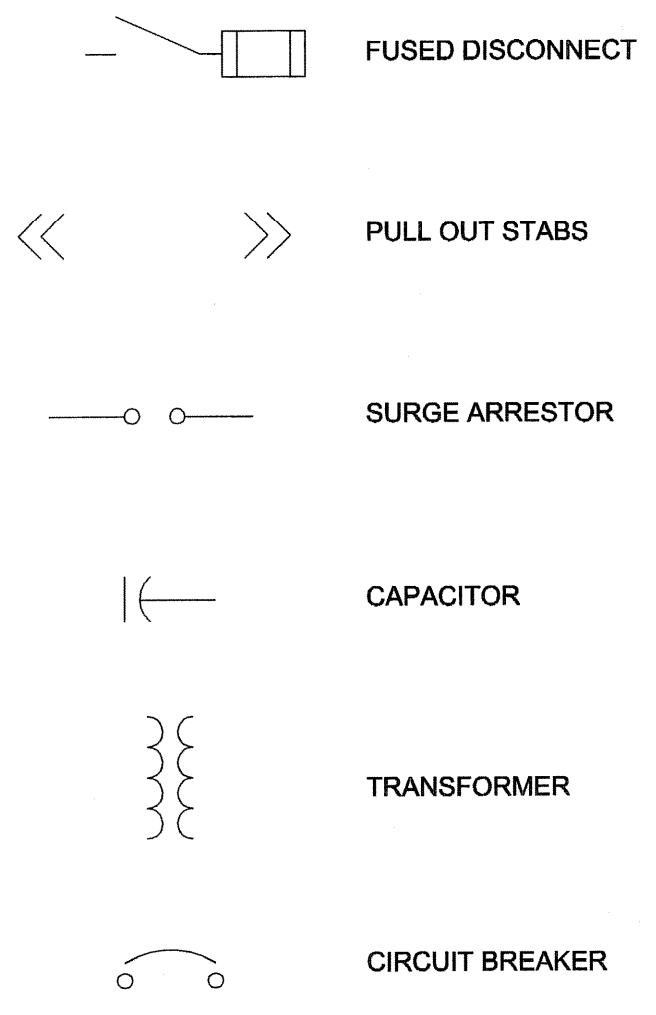
PIPING DETAIL SYMBOLS



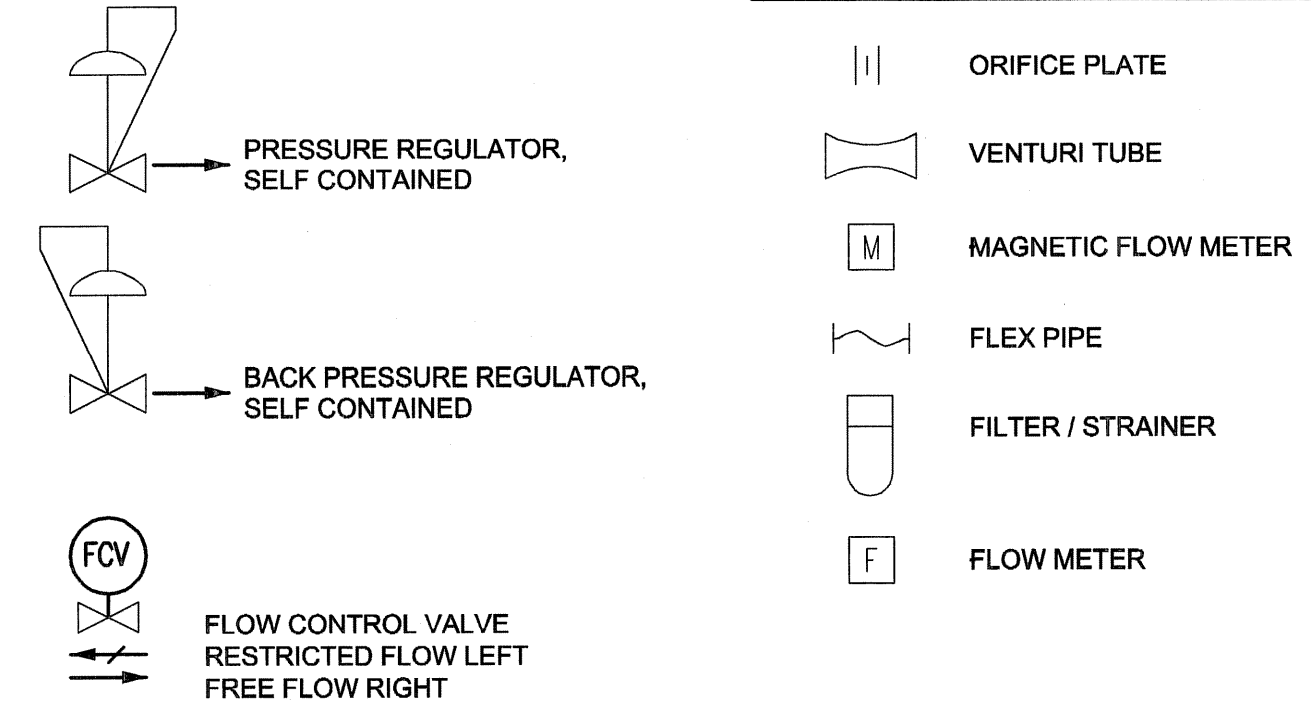
PID STANDARDS

- 1. DRAWINGS UTILIZE CITY OF WINNIPEG STANDARDS FOR BORDER AND TITLE BLOCK. ALL DRAWINGS ARE PRODUCED ON AUTOCAD (LATEST REV., R2000 OR LATER).
2. ALL UNITS ARE IN METRIC, EXCEPT AS NOTED OTHERWISE. ALL DIMENSIONS SHOWN ARE IN MILLIMETERS (mm).
3. DRAWING CONTENT GENERALLY CONFORMS WITH ISA-5.1 STANDARD. AN EXCEPTION REGARDING EQUIPMENT TAGGING HAS BEEN MADE TO ALLOW CONFORMITY WITH EXISTING NAMING CONVENTIONS.
4. PID'S INDICATE MAJOR PROCESS PIPING AND EQUIPMENT AND ASSOCIATED LOCAL INSTRUMENTATION, SCADA PLC AND OTHER PROCESS I/O.
5. EQUIPMENT INCLUDING VESSELS, DRUMS, EXCHANGERS, HEATERS, PUMPS, COMPRESSORS, ETC. ARE ARRANGED IN SEQUENCE WITH PRINCIPLE FUNCTIONS AND FLOWS.
6. ALL MAJOR EQUIPMENT INCLUDING PUMPS, COMPRESSORS, TANKS, ETC. ARE LABELED AS TO FUNCTION WITH DESIGN SIZES AND RATINGS.
7. ALL PROCESS LINES ARE LABELED ACCORDING TO FUNCTION AND SIZE UTILIZING SYSTEM CODES DEFINED HEREIN.
8. EACH SYSTEM INTERCONNECTION POINT BETWEEN DRAWINGS IS LABELED WITH A SOURCE DRAWING NUMBER OR DESTINATION DRAWING NUMBER. ARROWS ON PROCESS PIPING INDICATE DIRECTION OF FLOW BETWEEN DRAWINGS.

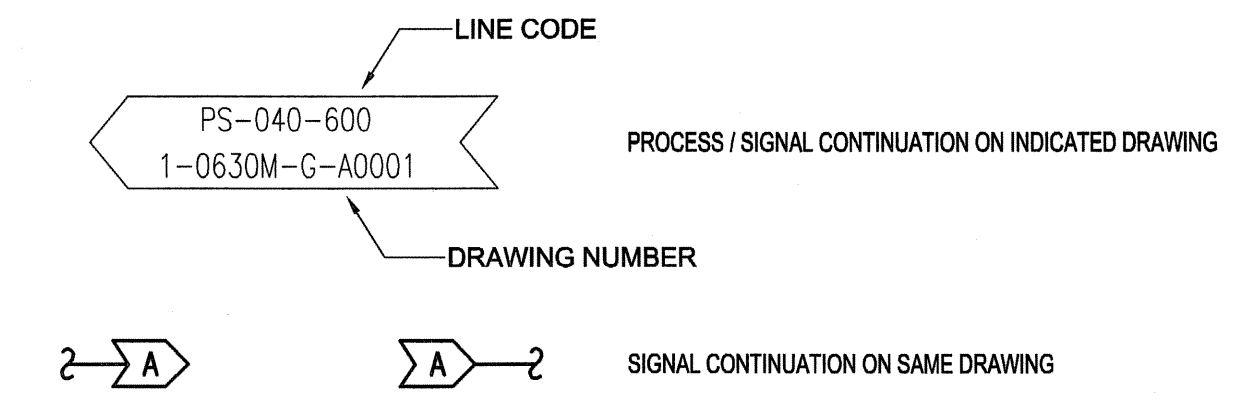
ELECTRICAL SYMBOLS



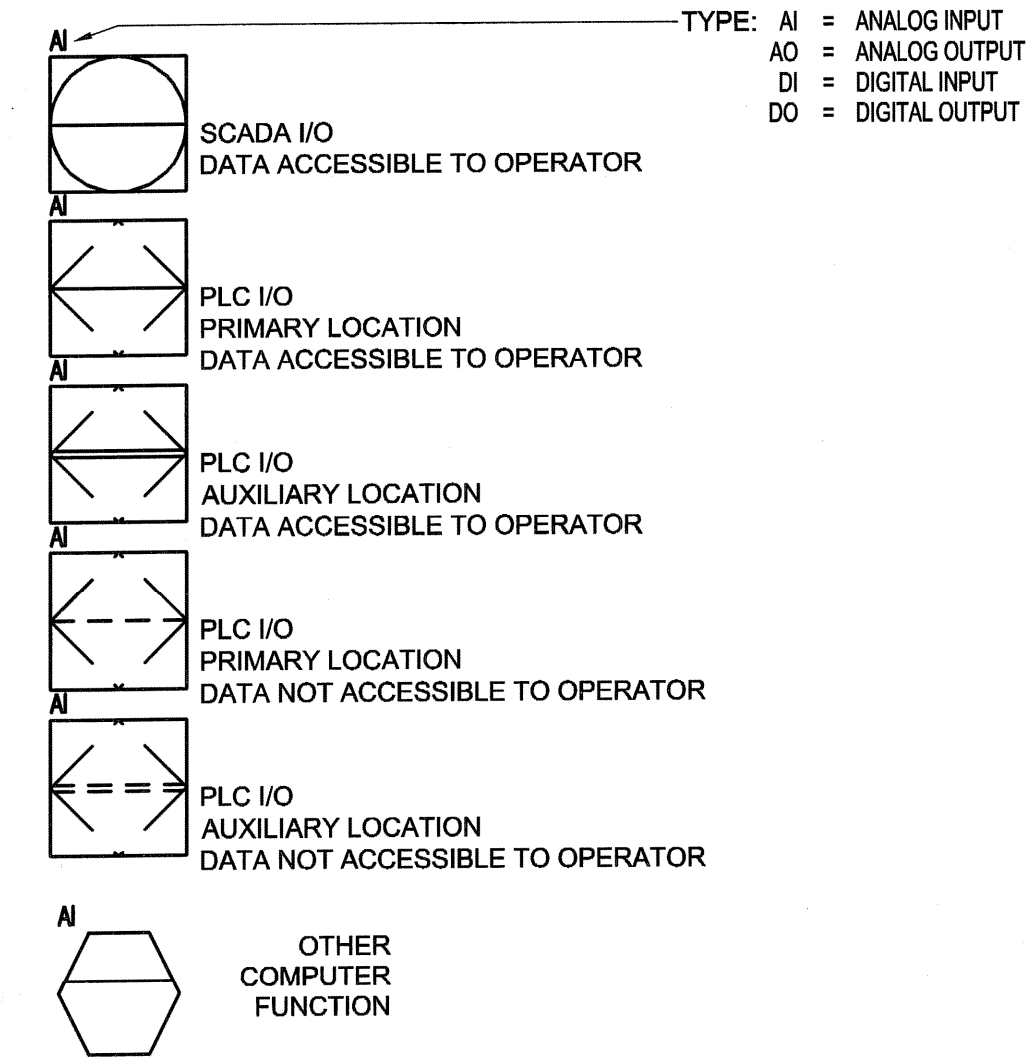
ACCESSORY DEVICE SYMBOLS



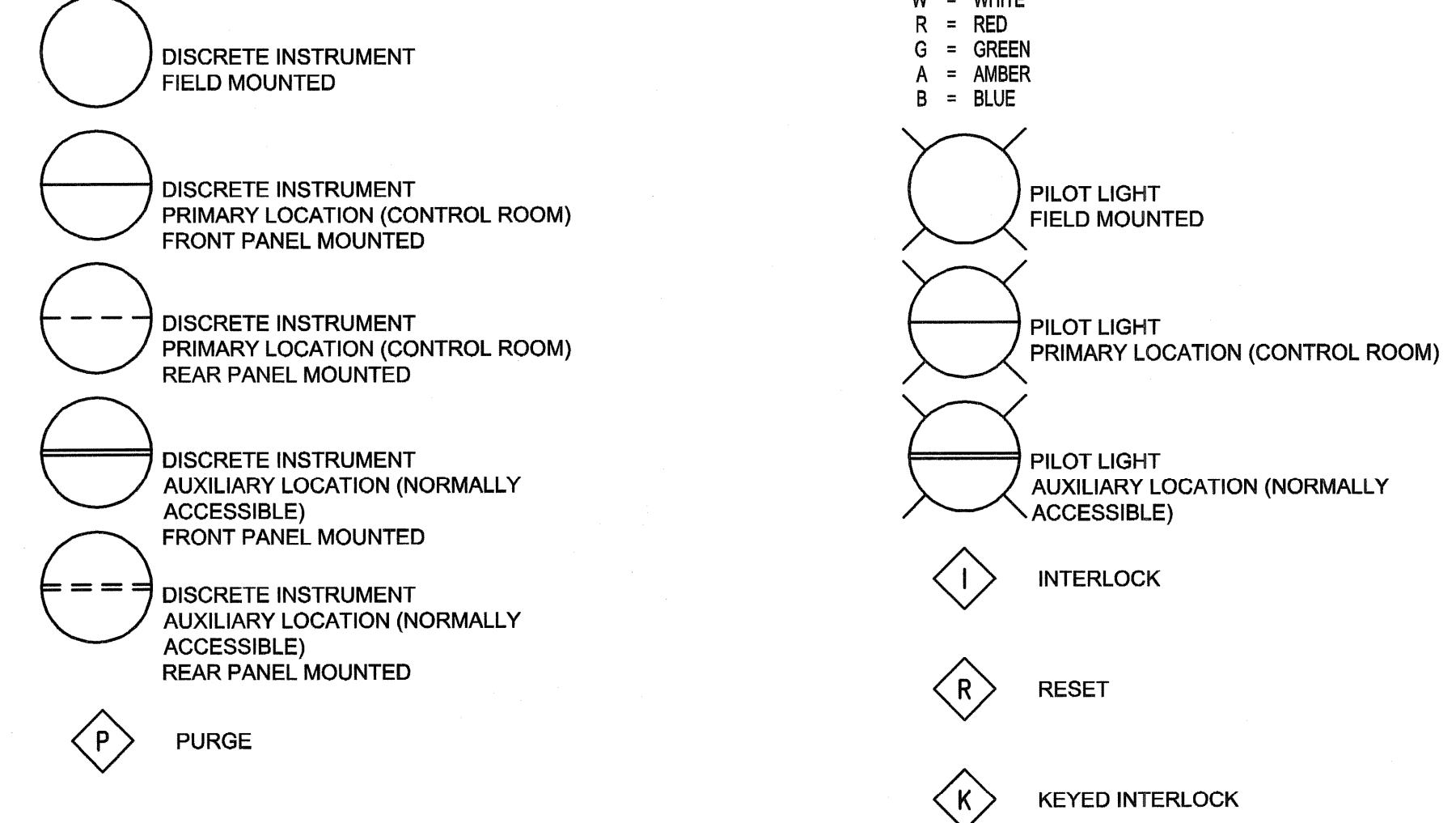
CONNECTING ARROWS



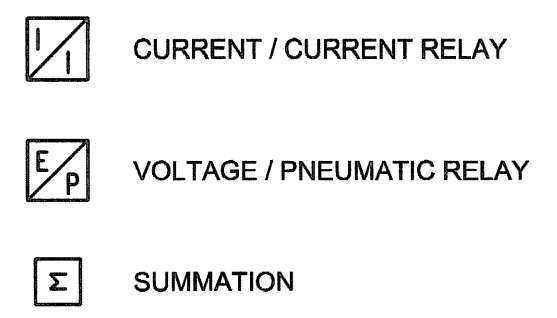
I/O TAGS



INSTRUMENT SYMBOLS



W = WHITE
R = RED
G = GREEN
A = AMBER
B = BLUE

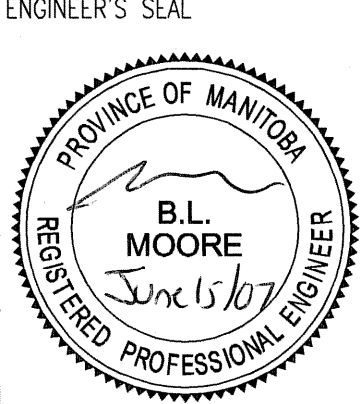


NOTE:

UMA AECOM REVIEW stamp with initials and dates.

APEGM Certificate of Authorization
UMA Engineering Ltd. (MB)
No. 256 Date: June 15/07

Table with columns for B.M. ELEV., FIELD BOOK #, DESIGNED BY, CHECKED BY, DRAWN BY, APPROVED BY, HOR. SCALE, VERTICAL, DATE, and FILENAME. Includes revision table and drawing number 1-0630A-D-A0001.



THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT
G. C. MACLEAN PUMPING STATION
Contract No.
Natural Gas Engine Drives Replacement
Process and Instrumentation Diagrams
Legend and Details

Table with columns for CITY DRAWING NUMBER (1-0630A-D-A0001), SHEET (001), REV. (C), and SIZE (D).