CAMBOL	SCHEMATIC SYMBOLS
SYMBOL	DESCRIPTION CONDUCTOR CONNECTION
4	NO CONNECTION
0	TERMINAL ON A DEVICE
⊣⊦	NORMALLY OPEN CONTACT
#	NORMALLY CLOSED CONTACT
o •	SINGLE POLE, SINGLE THROW SWITCH
<u>~°</u>	SINGLE POLE, DOUBLE THROW SWITCH
6-10	DOUBLE POLE, SINGLE THROW SWITCH
9-90	DOUBLE POLE, DOUBLE THROW SWITCH
0 ⁷ 0	THREE WAY ROTARY SWITCH
مله	NORMALLY CLOSED MOMENTARY PUSH BUTTON SWITCH
 0	NORMALLY OPEN MOMENTARY PUSH BUTTON SWITCH
1 2 0 0 0 0	2 POSITION PUSH BUTTON (EXTRA CONTACT BLOCK)
010	NORMALLY OPEN DOUBLE BREAK SINGLE THROW CONTACT BLOCK
0 0 N N	NORMALLY CLOSE DOUBLE BREAK SINGLE THROW CONTACT BLOCK
1 € 00 00 00 00	DOUBLE BREAK DOUBLE THROW CONTACT BLOCK
ഫ്	MUSHROOM HEAD PUSH BUTTON
中中	MAINTAINED CONTACT PUSHBUTTON
1 2 *0 0 +	2 OR 3 POSITIONS SELECTOR SWITCH (CLOSED CONTACTS INDICATED BY " X"
* * * * 	MULTI-POSITION, MULTI-CONTACT SELECT SWITCH (CLOSED CONTACTS INDICATED BY "X")
%7√	TEMPERATURE SWITCH - CLOSES ON RISING TEMPERATURE
7.5g	TEMPERATURE SWITCH - DPENS ON RISING TEMPERATURE
%	PRESSURE SWITCH - CLOSES ON RISING PRESSURE
৽৴	PRESSURE SWITCH - OPENS ON RISING PRESSURE
%	DIFFERENTIAL PRESSURE SWITCH - CLOSES WHEN THE DIFFERENTIAL IN PRESSURE BETWEEN TWO DIAPHRAGMS EXCEEDS A SET POINT
愛	DIFFERENTIAL PRESSURE SWITCH - OPENS WHEN THE DIFFERENTIAL IN PRESSURE BETWEEN TWO DIAPHRAGMS EXCEEDS A SET POINT
%	TIME DELAY RELAY SWITCH - CLOSES ON TIME DELAY AFTER ENERGIZATION OF RELAY COIL.
70	TIME DELAY RELAY SWITCH - OPENS ON TIME DELAY AFTER ENERGIZATION OF RELAY COIL.
o t o	TIME DELAY RELAY SWITCH - CLOSES ON TIME DELAY AFTER DE-ENERGIZATION OF RELAY COIL.
%	TIME DELAY RELAY SWITCH - OPENS ON TIME DELAY AFTER DE-ENERGIZATION OF RELAY COIL.
∞6	LIMIT SWITCH - NORMALLY OPEN
040	LIMIT SWITCH - NORMALLY CLOSED
040	LIMIT SWITCH - NORMALLY OPEN HELD CLOSED

SYMBOL	DESCRIPTION
~0	LIMIT SWITCH - NORMALLY CLOSED HELD OPEN
%	LEVEL SWITCH - CLOSES ON RISING LEVEL
જ	LEVEL SWITCH - OPENS ON RISING LEVEL
%	FLOW SWITCH - CLOSES ON FLOW
T	FLOW SWITCH - OPENS ON FLOW
30	TRANSFORMER - (TYPE AND RATING AS INDICATED)
•1	CONNECTION TO GROUND
 - -	LIGHTNING OR SURGE ARRESTER
<i>-</i> ∕-	THERMAL OVERLOAD ELEMENT
10	FUSE
-^-	CIRCUIT BREAKER
.r.r.	HEATING ELEMENT
— SV —	SOLENOID VALVE
u	COLL C - CLOSE C - CONTROL RELAY F - FAST OR FORWARD M - MOTOR STARTER MX - MOTOR STARTER AUXILIARY RELAY N - NORMAL O - OPEN OL - OVERLOAD RELAY R - REVERSE S - SLOW TD - TIME DELAY RELAY TDAE - TIME DELAY AFTER ENERGIZATION TOAD - TIME DELAY AFTER DELEMERGIZATION TOAD - TIME DELAY AFTER DE-ENERGIZATION
R	INDICATOR LIGHT (SEE SCHEMATIC DIAGRAM DEVICE TABLE FOR COLOR SYMBOLS)
₹	INDICATOR LIGHT (PUSH TO TEST TYPE)
	DEVICE ENCLOSURE
ANN	ANNUNCIATOR
COUNT	COUNTER
ETM	ELAPSED TIME METER
TMR	ELECTRONIC TIMER
тот	TOTALIZER
TIMIN	IG RELAY SAMPLE DIAGRAMS
	START N

SCHEMATIC SYMBOLS

TIM	ING RELAY SAMPLE DIAGRAMS
	START N
	TR LOAD 1
	Lowe z
	ON-DELÂY TIMING RELAY
	START #
	Loud 1
	—
	LOAD 2
	OFF-DELAY TIMING RELAY
	START TR
	SOLID-STATE TIMMS RELAY LOAD 1
	+°
	NOTC LOAD 2
SOLID	STATE. ON-DELAY TIMING RELAY
20110	STATE ON DEEAT TIMING NELAT

ALTERNATING CURRENT ACKNOWLEDGE AC ACK A/C AFG ABOVE FINISHED GRADE ABOVE FINISHED FLOOR ANNUNCIATOR ATS AUTOMATIC TRANSFER SWITCH CIRCUIT BREAKER CIRCUIT CENTIMETER CURRENT TRANSFORMER CONTROL PANEL DC DIA DIRECT CURRENT DIAMETER DISTRIBUTION PANEL EXHAUST FAN ELECTRICAL METALLIC TUBING FEET OR FOOT FND CON FOUNDATION CONCRETE FULL VOLTAGE NON-REVERSING FULL VOLTAGE REVERSING GROUND FAULT RELAY GND HIGH INTENSITY DISCHARGE HORSEPOWER ISOLATED GROUND JUNCTION BOX KII OWATTS LIGHTING PANEL MCC MOTOR CONTROL CENTER MTG HT MOUNTING HEIGHT NL NO, * PB PLC NIGHT LIGHT PUSH BUTTON PROGRAMMABLE LOGIC CONTROLLER POTENTIAL TRANSFORMER RECEPTACLE RIGID GALVANIZED CONDUIT REDUCED VOLTAGE STARTER RGC SUPERVISORY CONTROL AND DATA AQUISITION SCADA SEL SW SELECTOR SWITCH SUPPLY FAN SPARE SPACE SPACE STAINLESS STEEL STA STATION SWITCHGEAR SWGR TEMP **TEMPERATURE** T' STAT THERMOSTAT TEFC FULLY ENCLOSED FAN COOLED UNIT HEATER VARIABLE FREQUENCY DRIVE WEATHERPROOF XEMR TRANSFORMER EXPLOSION-PROOF (CLASS 1, DIV 1, GROUP C & D UNLESS NOTED OTHERWISE)

ABBREVIATIONS

DESCRIPTION

SYMBOL

NOTICE: THIS IS A STANDARD LEGEND. NOT ALL OF THE INFORMATION SHOWN ON THIS LEGEND IS USED IN THESE CONTRACT DRAWINGS.

EQUIPMENT AND VALVE TAG IDENTIFICATION

TAG NUMBER

W-001

W: EQUIPMENT OR SELF CONTAINED VALVE ABBREVIATION

001: DEVICE NUMBER

** COMPONENT DESIGNATOR

EQUIPMENT ABBREVIATIONS

E EJECTOR

G GATE
M MECHANICAL EQUIPMENT

P PUMP

T TANK

LCP LOCAL CONTROL PANEL

CS CONTROL STATION

ITC INTERCONNECTING TERMINATION CABINET

FD ADJUSTABLE FREQUENCY DRIVE

AP ALARM PANEL

SELF CONTAINED VALVE ABBREVIATIONS

ARV AIR RELEASE VALVE

AVRV AIR AND VACUUM RELIEF VALVE

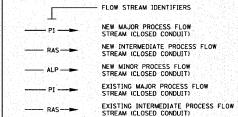
LCV LEVEL CONTROL VALVE

PCV PRESSURE CONTROL VALVE

TCV TEMPERATURE CONTROL VALVE

PSV PRESSURE SAFETY (RELIEF) VALVE

PROCESS FLOW IDENTIFICATION

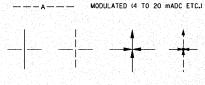


STRUCTURE/EQUIPMENT IDENTIFICATION

EXISTING MINOR PROCESS FLOW STREAM (CLOSED CONDUIT)

NEW OR RELOCATED ITEM
EXISTING ITEM
NEW OR RELOCATED STRUCTU
EVICTING CEDUCTURE

SIGNAL IDENTIFICATION



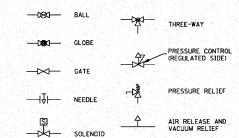
---- DISCRETE (ON/OFF ETC.)

NON-CONNNECTING LINES

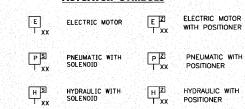
(4) (8)

PARALLELING LINES.
(PARENTHETICAL NUMBER INDICATES
THE NUMBER OF SIGNALS REPRESENTED)

VALVE SYMBOLS



VALVE AND GATE POWER ACTUATOR SYMBOLS



NOTE ON 'XX': ON LOSS OF PRIMARY POWER (PNEUMATIC OR ELECTRICAL)

XX: FC =

FC = FAIL CLOSED POSITION

FIP = FAIL INTERMEDIATE POSITION

FLP = FAIL LAST POSITION

FO = FAIL OPEN POSITION

COMPONENT DESIGNATORS

- PROVIDE COMPONENT IN ACCORDANCE WITH DIVISION 16D.
- PROVIDE COMPONENT IN ACCORDANCE WITH DIVISION 16C.

COMPONENT DESIGNATORS ARE NOT INTENDED TO ENCOMPASS PIPING, CONDUIT, WIRING OR CONCRETE STRUCTURES.

MISCELLANEOUS SYMBOLS



Sol (E) Tolk

ELECTRIC MOTOR

E2

REVISIONS
NAME

INTERFACE SYMBOLS

	TIIII)
NEW OR CONCURRENT	EXISTING

	1.
	1
> TO INTERFACE	7.7
NOT IN CONTRACT	H
	_
	10

SCHEMATIC DIAGRAM DEVICE DESIGNATIONS

TOTAL SHEET SHEETS NO.

107 75

COUNTY

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

СООК

SECTION

0102.1 S

SYMBOL	DESCRIPTION
	DESIGNATION DESCRIBING DEVICE OPERATION OR FUNCTION
A OTUA	AUTOMATIC
ACK	ACKNOWLEDGE
CL	CLOSE
F	FAST
FWD	FORWARD
HI	HICH
Н	HAND
INST	INSTANTANEOUS
L	LOW
LOS	LOCKOUT-STOP
LOC	LOCAL
HR	HAND RESET
HS	HIGH SPEED
LSP	LOW SPEED
N	NORMAL
NC	NORMALLY CLOSED
NCTC	NORMALLY CLOSED TIMED CLOSED
NCT0	NORMALLY CLOSED TIMED OPEN
NO	NORMALLY OPEN
NOTC	NORMALLY OPEN TIMED CLOSED
NOTO	NORMALLY OPEN TIMED OPEN
0	OFF
OP	OPEN
REM	REMOTE
REV	REVERSE
S	SLOW
Α	AMBER
BL C	BLUE CLEAR
G	GREEN
R	RED
₩	WHITE
<u> </u>	YELLOW

ILLINOIS DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 24
RELOCATION

I & C SYMBOL LIST

SCALE: N/A DATE: 11-22-10

DRAWN BY: MS
CHECKED BY: MS

