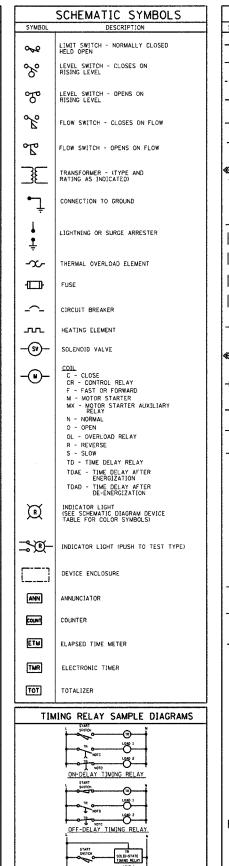
- 1	 	
	F1-20	FLUORESCENT FIXTURE  (FI INDICATES FIXTURE TYPE- REFER TO FIXTURE SCHEDULE - 20 INDICATES CIRCUIT No.2  ON SWITCH OJITYP).
	픕	FLUORESCENT FIXTURE, WALL MOUNTED
	¤	INCANDESCENT, COMPACT FLUORESCENT OR HID FIXTURE
	À	WALL MOUNTED INCANDESCENT, COMPACT FLUORESCENT OR HID FIXTURE
		FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT
	×	INCANDESCENT, COMPACT FLUORESCENT OR HID FIXTURE ON EMERGENCY CIRCUIT
	Φ	EXIT SIGN SINGLE SIDED (ABOVE DOOR)
	† <del>0</del> †	DIRECTIONAL EXIT SIGN - DOUBLE SIDED (DIRECTION AS INDICATED - TYP.)
	<b>⊕</b>	DIRECTIONAL EXIT SIGN - SINGLE SIDED
	00	BATTERY UNIT FOR EMERGENCY LIGHT
	চ্ব	BATTERY OPERATED EMERGENCY LIGHT
	ሏ*	EMERGENCY LIGHT, REMOTE HEAD
	P	ELECTRIC PULLBOX
	] 	ELECTRIC JUNCTION BOX
		BARE GROUND CABLE
		EXPOSED CONDUIT
		CONCEALED CONDUIT IN FLOOR OR UNDERGROUND
		CONCEALED CONDUIT IN CEILING OR WALLS
	LP-1-6	CONDUIT HOME-RUN TO PANEL AS INDICATE (LP-1-6 DENOTES PANEL DESIGNATION, SLAS LINES INDICATE QUANTITY OF WIRE. GROUN WIRE INDICATED AS LONG LINE WITH DOT, NEUTRAL WIRE INDICATED AS LONG LINE, PHASE WIRE AND SWITCH LEGS INDICATED AS SHORT LINES.)
	шш	CABLE TRAY
	•	CONDUIT TURNED UP OR DOWN
		CONDUIT TERMINATED OR CAPPED
	\$	SINGLE POLE TOGGLE SWITCH
	\$2	DOUBLE POLE TOGGLE SWITCH
	\$3 \$4	THREE-WAY TOGGLE SWITCH
	<b>⊅</b> ⁴ \$k	FOUR-WAY TOGGLE SWITCH
	. ⊅ <sup>k</sup> . \$ ⊤	KEY OPERATED SWITCH  MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROTECTION
_	T.	
	\$₽	TOGGLE SWITCH WITH PILOT LIGHT

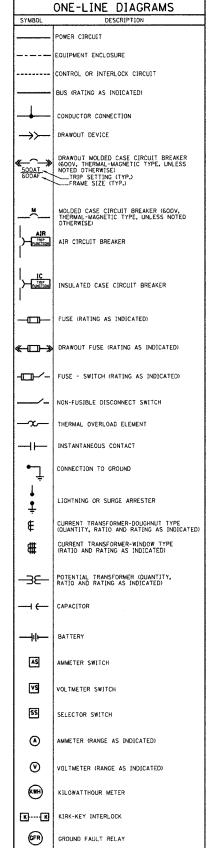
BUILDING PLANS

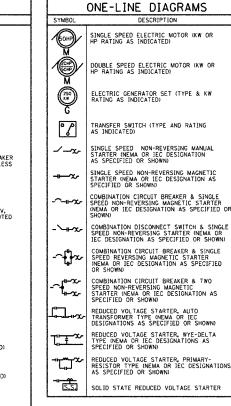
SYMBOL

SYMBOL	BUILDING PLANS DESCRIPTION
<u> </u>	SPECIAL PURPOSE RECEPTACLE
⊌ ⊌	TELEPHONE OUTLET
M	DATA OUTLET
<u> </u>	
,	FLUSH MOUNTED PANELBOARD PANEL TYPE (LIGHTING PANEL) LP-1-UNIT NUMBER
);	SURFACE MOUNTED PANELBOARD
$\Box$	MANUAL DISCONNECT SWITCH NONFUSED (RATING AS INDICATED)
Δh	MANUAL DISCONNECT SWITCH FUSED (RATING AS INDICATED)
⊠	MAGNETIC MOTOR STARTER (RATING AS INDICATED)
Øh	COMBINATION MAGNETIC MOTOR & FUSED DISCONNECT SWITCH (RATING AS INDICATED)
	PUSHBUTTON STATION (1, 2 & 3 BUTTONS SHOWN)
(SOHP)	SINGLE SPEED ELECTRIC MOTOR (KW OR HP RATING AS INDICATED)
M	DOUBLE SPEED ELECTRIC MOTOR (KW OR HP RATING AS INDICATED)
(250) KW	ELECTRIC GENERATOR SET (KW RATING AS INDICATED)
c L	LIMIT SWITCH
FS	FLOAT SWITCH
P	PRESSURE SWITCH
FW	FLOW SWITCH
EP	ELECTRIC - PNEUMATIC SWITCH
PE	PNEUMATIC - ELECTRIC SWITCH
TO	TORQUE SWITCH
T	TRANSFORMER
F	FIRE ALARM PULL STATION
AV	AUDIO VISUAL ALARM
€	FIREALARM STROBE
(\$)	SMOKE DETECTOR
$\oplus$	HEAT DETECTOR
©	COMBUSTIBLE GAS DETECTOR
T	THERMOSTAT
<b>⑤</b>	UNIT HEATER - HORIZONTAL TYPE
ÜH	UNIT HEATER - DOWNBLAST TYPE OR CENTRIFUGAL FAN TYPE
СИН	CABINET UNIT HEATER
	ALARM HORN

	SCHEMATIC SYMBOLS			
SYMBOL DESCRIPTION  CONDUCTOR CONNECTION				
+	NO CONNECTION			
0	TERMINAL ON A DEVICE			
- <del> </del>  -	NORMALLY OPEN CONTACT			
*	NORMALLY CLOSED CONTACT			
0-0	SINGLE POLE, SINGLE THROW SWITCH			
<del>ه۔</del> ه	SINGLE POLE, DOUBLE THROW SWITCH			
01-10	DOUBLE POLE, SINGLE THROW SWITCH			
هنه	DOUBLE POLE, DOUBLE THROW SWITCH			
هره	THREE WAY ROTARY SWITCH			
مله	NORMALLY CLOSED MOMENTARY PUSH BUTTON SWITCH			
9-9	NORMALLY OPEN MOMENTARY PUSH BUTTON SWITCH			
ojo s	2 POSITION PUSH BUTTON (EXTRA CONTACT BLOCK)			
010	NORMALLY OPEN DOUBLE BREAK SINGLE THROW CONTACT BLOCK			
ojo is s	NORMALLY CLOSE DOUBLE BREAK SINGLE THROW CONTACT BLOCK			
20 00 20 00 20 00	DOUBLE BREAK DOUBLE THROW CONTACT BLOCK			
ملَه	MUSHROOM HEAD PUSH BUTTON			
0000	MAINTAINED CONTACT PUSHBUTTON			
1 2 +00+	2 OR 3 POSITIONS SELECTOR SWITCH (CLOSED CONTACTS INDICATED BY " X" )			
**** +*** + * * * * * * * * * * * * * *	MULTI-POSITION, MULTI-CONTACT SELECTOR SWITCH (CLOSED CONTACTS INDICATED BY " X" )			
%7.	TEMPERATURE SWITCH - CLOSES ON RISING TEMPERATURE			
55	TEMPERATURE SWITCH - OPENS ON RISING TEMPERATURE			
%	PRESSURE SWITCH - CLOSES ON RISING PRESSURE			
প্ত	PRESSURE SWITCH - OPENS ON RISING PRESSURE			
%	DIFFERENTIAL PRESSURE SWITCH - CLOSES WHEN THE DIFFERENTIAL IN PRESSURE BETWEEN TWO DIAPHRAGMS EXCEEDS A SET POINT			
જ	DIFFERENTIAL PRESSURE SWITCH - OPENS WHEN THE DIFFERENTIAL IN PRESSURE BETWEEN TWO DIAPHRAGMS EXCEEDS A SET POINT			
%	EXCEEDS A SET POINT TIME DELAY RELAY SWITCH - CLOSES ON TIME DELAY AFTER ENERGIZATION OF RELAY COIL.			
To.	TIME DELAY RELAY SWITCH - OPENS ON TIME DELAY AFTER ENERGIZATION OF RELAY COIL.			
oto	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			
<b>*</b> 0∕2∕0	RELAY COIL. LIMIT SWITCH - NORMALLY OPEN			
0-0	LIMIT SWITCH - NORMALLY CLOSED			
040	LIMIT SWITCH - NORMALLY OPEN HELD CLOSED			
	44044			







## SCHEMATIC DIAGRAM DEVICE DESIGNATIONS

SYMBOL	DESCRIPTION
	DESIGNATION DESCRIBING DEVICE OPERATION OR FUNCTION
A AUTO }	AUTOMATIC
ACK	ACKNOWLEDGE
CL	CLOSE
F	FAST
FWD	FORWARD
HI	HIGH
Н	HAND
INST	INSTANTANEOUS
L	LOW
LOS	LOCKOUT-STOP
LOC	LOCAL
нR	HAND RESET
HS	HIGH SPEED
LSP	LOW SPEED
N	NORMAL
NC	NORMALLY CLOSED
NCTC	NORMALLY CLOSED TIMED CLOSED
NCTO	NORMALLY CLOSED TIMED OPEN
NO	NORMALLY OPEN
NOTC	NORMALLY OPEN TIMED CLOSED
NOTO	NORMALLY OPEN TIMED OPEN
0	OFF
0P	OPEN
REM	REMOTE
REV	REVERSE
S	SLOW
Α	AMBER
BL	BLUE
Ċ	CLEAR
G	GREEN
R	RED

YELLOW

E1

REVISIONS NAME

COUNTY F.A.I SECTION 70 82-(1,2)T-17 ST. CLAIR 77 43 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

**ABBREVIATIONS** 

DESCRIPTION ALTERNATING CURRENT ACKNOWLEDGE AERIAL CABLE ABOVE FINISHED GRADE ABOVE FINISHED FLOOR ANNUNCIATOR AUTOMATIC TRANSFER SWITCH ATS CIRCUIT BREAKER CIRCUIT CENTIMETER CURRENT TRANSFORMER CONTROL PANEL DIRECT CURRENT DIAMETER DISTRIBUTION PANEL EXHAUST FAN EMERGENCY ELECTRICAL METALLIC TUBING FEET OR FOOT FOUNDATION CONCRETE FULL VOLTAGE NON-REVERSING FULL VOLTAGE REVERSING GROUND FAULT CIRCUIT INTERRUPTER GFC1 GFR GROUND FAULT RELAY GROUND HIGH INTENSITY DISCHARGE HORSEPOWER ISOLATED GROUND JUNCTION BOX KILOVOLT AMPERE KILOWATTS LIGHTING PANEL MOTOR CONTROL CENTER MILLIMETER MOUNTING HEIGHT MM MTG HT MANUAL TRANSFER SWITCH NIGHT LIGHT NL NO, # PB PLC PNL PT NUMBER PUSH BUTTON
PROGRAMMABLE LOGIC CONTROLLER POTENTIAL TRANSFORMER RIGID GALVANIZED CONDUIT REDUCED VOLTAGE STARTER SCADA SUPERVISORY CONTROL AND DATA AGUISITION SEL SW SELECTOR SWITCH SUPPLY FAN SPARE SPARE SPACE STAINLESS STEEL SS STA STATION SWITCHGEAR TEMPORARY SWGF TEMPERATURE THERMOSTAT FULLY ENCLOSED FAN COOLED UNIT HEATER VARIABLE FREQUENCY DRIVE WEATHERPROOF XFER TRANSFORMER EXPLOSION-PROOF (CLASS 1, DIV 1, GROUP C & D UNLESS NOTED OTHERWISE)

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOWMAN AVENUE PUMP STATION DATE REHABILITATION ELECTRICAL

> SYMBOL LIST DRAWN BY: LMJ SCALE: AS SHOWN

> > CHECKED BY: KCC

DATE: 09-12-05

ALVORD, BURDICK & HOWSON, L.L.C. **ENGINEERS** 

DIMMER SWITCH SINGLE RECEPTACLE

DUPLEX RECEPTACLE

QUADRUPLEX RECEPTACLE

DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER

DUPLEX RECEPTACLE WITH ISOLATED GROUND

\$D

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CHICAGO

PLOT DATE: \*DATE-TIME\*