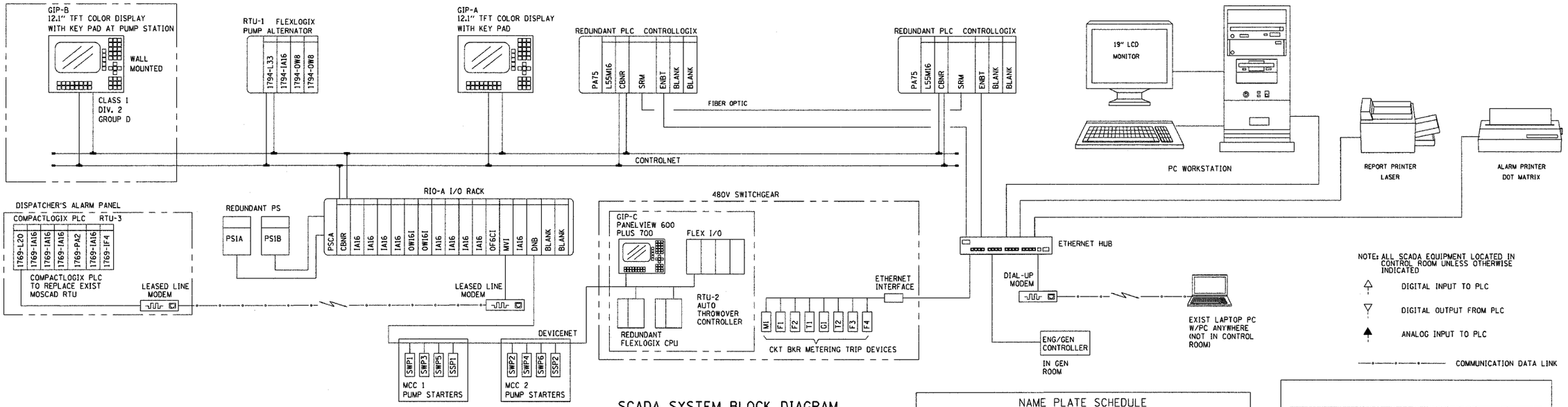
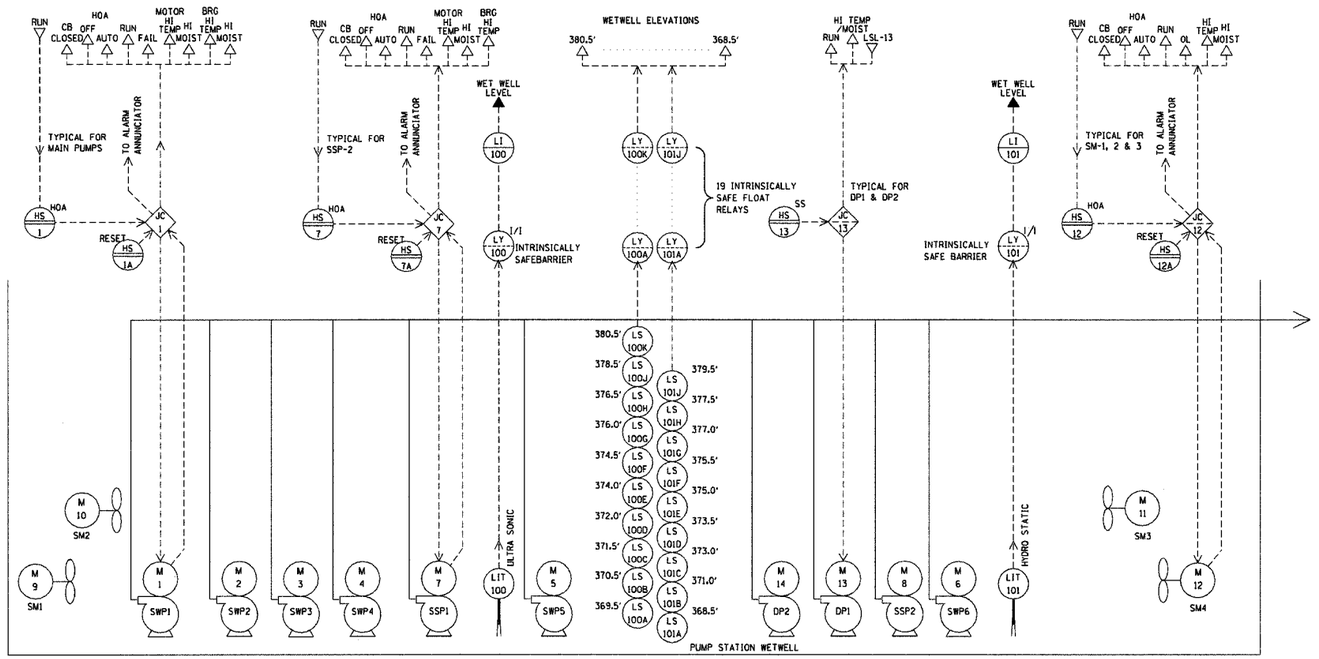
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(1,2)T-17	ST. CLAIR	77	61
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SCADA SYSTEM BLOCK DIAGRAM



PROCESS & INSTRUMENT DIAGRAM

NOTE: FLOATS 100A THRU 100K ARE MOUNTED IN STILLING WELL SW1
FLOATS 101A THRU 101J ARE MOUNTED IN STILLING WELL SW2

NAME PLATE SCHEDULE

	EXISTING	NEW (NOTE 2)
1	SP 1	
2	SP 2	
3	SWP 1	
4	SWP 2	
5	SWP 3	
6	SWP 4	
7	SWP 5	
8	SWP 6	
9	STANDBY	
10	RUNNING	
11	FAIL TO RUN	
12	UTILITY 1 POWER FAIL	
13	UTILITY 2 POWER FAIL	
14	MCC 1 POWER FAIL	
15	MCC 2 POWER FAIL	
16	SYS MANAGER SITE PWR FAIL	BOWMAN PS UPS ALARM
17	PUMP CONTROL POWER FAIL	
18	LOW WATER LEVEL	
19	HIGH WATER LEVEL	
20	CTRL SYS A LOW PRESSURE	ULTRASONIC LVL XMTR FAIL
21	CTRL SYS B LOW PRESSURE	HYDROSTATIC LVL XMTR FAIL
22	CONTROL SYS PLC FAIL	
23	CTRL SYS DIFFERENTIAL	PUMP ALT RTU-1 FAIL
24	RTU POWER FAIL	BOWMAN PS UPS ALARM
25	COMB GAS LOCK OUT	COMB GAS WARNING
26	COMB GAS MOTOR ROOM	COMB GAS ALARM
27	COMB GAS CONTROL ROOM	COMB GAS TROUBLE
28	COMB GAS SUMP	BLANK
29	PUMP LUBRICATION FAIL	BOWMAN PS UPS INPT PWR FAIL
30	GENERATOR RUNNING	
31	GENERATOR FAIL	
32	GENERATOR DC POWER FAIL	
33	FIRE SYS HEAT DETECTION	FIRE ALARM
34	FIRE SYS VALVE CLOSE	BLANK
35	FIRE SYS POWER FAIL	BLANK
36	DISPATCH PANEL POWER FAIL	
37	COMM FAIL TO GEN BLD RTU	BLANK
38	COMM FAIL TO BOWMAN PUMP RTU FAIL	COMM FAIL TO BOWMAN PS
39	BLANK	
40	BLANK	
41	BLANK	
42	BLANK	WETWELL LEVEL - ULTRASONIC
43	ACK	
44	DISPATCH PNL PWR FAIL	
45	LAMP TEST	
46	HORN	
47	BLANK	WETWELL LEVEL - HYDROSTATIC

NOTES:

1 ALL DEVICES ON DISPATCHER'S ALARM PANEL ARE EXISTING.
2 PROVIDE NEW NAME PLATES AS NOTED.

DISPATCHER'S ALARM PANEL PARTIAL FRONT VIEW

DEVICE LEGEND

- (A) AMBER LED LIGHT
- (B) RED LED LIGHT
- (C) GREEN LED LIGHT
- (D) AMBER PILOT LIGHT
- (E) PUSH BUTTONS
- (F) ALARM BUZZER
- (G) PRECISION DIGITAL INDICATOR
- (H) NEWPORT DIGITAL INDICATOR

E19

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOWMAN AVENUE PUMP STATION REHABILITATION

SCADA SYSTEM DIAGRAMS

SCALE: AS SHOWN
DRAWN BY: LMJ
DATE: 09-12-05
CHECKED BY: KCC

PLOT DATE: •DATE-TIME•

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

DATE
BY
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
PLAN
NOTE BOOK
NO.

•DATE•
•DATE-TIME•
•DGN-SPEC•
•REF•
•REF•