F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(1,2)T-17	ST. CLAIR	77	72
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTROL PANEL DIGITAL INPUTS(TBDI)			
TERM #	WIRE #	ORIGINATIION	DESCRIPTION OF INPUTS
32	CP-32	FLOAT 1	HIGH WATER ALARM
32A	CP-32A	FLOAT 1	HIGH WATER ALARM
37	CP-37	FLOAT 2	START LAG 5 MAIN PUMP
37A	CP-37A	FLOAT 2	START LAG 5 MAIN PUMP
42	CP-42	FLOAT 3	START LAG 4 MAIN PUMP
42A	CP-42A	FLOAT 3	START LAG 4 MAIN PUMP
47	CP-47	FLOAT 4	START LAG 3 MAIN PUMP
47A	CP-47A	FLOAT 4	START LAG 3 MAIN PUMP
52	CP-52	FLOAT 5	STOP LAG 5 MAIN PUMP
52A	CP-92A	FLOAT 5	STOP LAG 5 MAIN PUMP
57	CP-57	FLOAT 6	START LAG 2 MAIN PUMP
57A	CP-57A	FLOAT 6	START LAG 2 MAIN PUMP
62	CP-62	FLOAT 7	STOP LAG 4 MAIN PUMP
62A	CP-62A	FLOAT 7	STOP LAG 4 MAIN PUMP
67	CP-67	FLOAT 8	START LAG 1 MAIN PUMP
67A	CP-67A	FLOAT 8	START LAG 1 MAIN PUMP
72	CP-72	FLOAT 9	STOP LAG 3 MAIN PUMP
72A	CP-72A	FLOAT 9	STOP LAG 3 MAIN PUMP
77	CP-77	FLOAT 10	START LEAD MAIN PUMP, STOP MIXERS
77A	CP-77A	FLOAT 10	START LEAD MAIN PUMP, STOP MIXERS
82	CP-82	FLOAT 11	STOP LAG 2 PUMP
82A	CP-82A	FLOAT 11	STOP LAG 2 PUMP
87	CP-87	FLOAT 12	START LAG SUMP PUMP
87A	CP-87A	FLOAT 12	START LAG SUMP PUMP
92	CP-92	FLOAT 13	STOP LAG 1 MAIN PUMP
92A	CP-92A	FLOAT 13	STOP LAG 1 MAIN PUMP
97	CP-97	FLOAT 14	START MIXERS
97A	CP-97A	FLOAT 14	START MIXERS
102	CP-102	FLOAT 15	START LEAD SUMP PUMP
102A	CP-102A	FLOAT 15	START LEAD SUMP PUMP
107	CP-107	FLOAT 16	MAIN PUMPS FAIL TO STOP
107A	CP-107A	FLOAT 16	MAIN PUMPS FAIL TO STOP
112	CP-112	FLOAT 17	STOP LAG SUMP PUMP
112A	CP-112A	FLOAT 17	STOP LAG SUMP PUMP
117	CP-117	FLOAT 18	STOP LEAD SUMP PUMP
117A	CP-117A	FLOAT 18	STOP LEAD SUMP PUMP
122	CP-122	FLOAT 19	LOW WATER ALARM
122A	CP-122A	FLOAT 19	LOW WATER ALARM
5	CP-5	SP-DO-P26	ENABLE RTU-1 OUTPUT
11	CP-166	SP-DO-P26X	ENABLE RTU-1 OUTPUT
1	CP-1	SP-DO-P15	SCADA LEAD CALL
166	CP-11	SP-DO-P15X	SCADA LEAD CALL
1	CP-1	SP-DO-P16	SCADA LAG 1 CALL
167	CP-167	SP-DO-P16X	SCADA LAG 1 CALL
1	CP-1	SP-DO-P17	SCADA LAG 2 CALL
168	CP-168	SP-DO-P17X	SCADA LAG 2 CALL
1	CP-1	SP-DO-P18	SCADA LAG 3 CALL
169	CP-169	SP-DO-P18X	SCADA LAG 3 CALL
1	CP-1	SP-DO-P19	SCADA LAG 4 CALL
168	CP-168	SP-DO-P19X	SCADA LAG 4 CALL
1	CP-1	SP-DO-P20	SCADA LAG 5 CALL
169	CP-169	SP-DO-P20X	SCADA LAG 5 CALL
1	CP-1	SP-DO-P21	SCADA LEAD SUMP PUMP CALL
170	CP-170	SP-DO-P21X	SCADA LEAD SUMP PUMP CALL
1	CP-1	SP-DO-P22	SCADA LAG SUMP PUMP CALL
171	CP-171	SP-DO-P22X	SCADA LAG SUMP PUMP CALL
1	CP-1	SP-DO-P23	SCADA MIXER CALL
189	CP-189	SP-DO-P23X	SCADA MIXER CALL
244	CP-244	M1-22A	MAIN PUMP 1 FAIL
246	CP-246	M1-22B	MAIN PUMP 1 FAIL
247	CP-247	M2-22A	MAIN PUMP 2 FAIL
249	CP-249	M2-22B	MAIN PUMP 2 FAIL
250	CP-250	M3-22A	MAIN PUMP 3 FAIL
252	CP-252	M3-22B	MAIN PUMP 3 FAIL
253	CP-253	M4-22A	MAIN PUMP 4 FAIL
255	CP-255	M4-22B	MAIN PUMP 4 FAIL
256	CP-256	M5-22A	MAIN PUMP 5 FAIL
258	CP-258	M5-22B	MAIN PUMP 5 FAIL
259	CP-259	M6-22A	MAIN PUMP 6 FAIL
261	CP-261	M6-22B	MAIN PUMP 6 FAIL
262	CP-262	M1-57	MAIN PUMP 1 OVER TEMP/MOIST
264	CP-264	M1-57A	MAIN PUMP 1 OVER TEMP/MOIST
265	CP-265	M2-57	MAIN PUMP 2 OVER TEMP/MOIST
267	CP-267	M2-57A	MAIN PUMP 2 OVER TEMP/MOIST
268	CP-268	M3-57	MAIN PUMP 3 OVER TEMP/MOIST
270	CP-270	M3-57A	MAIN PUMP 3 OVER TEMP/MOIST
271	CP-271	M4-57	MAIN PUMP 4 OVER TEMP/MOIST
273	CP-273	M4-57A	MAIN PUMP 4 OVER TEMP/MOIST
274	CP-274	M5-57	MAIN PUMP 5 OVER TEMP/MOIST
276	CP-276	M5-57A	MAIN PUMP 5 OVER TEMP/MOIST
277	CP-277	M6-30A	MAIN PUMP 6 OVER TEMP/MOIST
279	CP-279	M6-30B	MAIN PUMP 6 OVER TEMP/MOIST
280	CP-280	M7-22A	SUMP PUMP 1 FAIL
282	CP-282	M7-22B	SUMP PUMP 1 FAIL
283	CP-283	M8-22A	SUMP PUMP 2 FAIL
285	CP-285	M8-22B	SUMP PUMP 2 FAIL
286	CP-286	M9-23D	SUBMERSIBLE MIXER 1 FAIL
288	CP-288	M9-23E	SUBMERSIBLE MIXER 1 FAIL
289	CP-289	M9-23D	SUBMERSIBLE MIXER 2 FAIL
291	CP-291	M9-23E	SUBMERSIBLE MIXER 2 FAIL
292	CP-292	M9-23D	SUBMERSIBLE MIXER 3 FAIL
294	CP-294	M9-23E	SUBMERSIBLE MIXER 3 FAIL
295	CP-295	M9-23D	SUBMERSIBLE MIXER 4 FAIL
297	CP-297	M9-23E	SUBMERSIBLE MIXER 4 FAIL

CONTROL PANEL DIGITAL INPUTS(TBDI)			DESCRIPTION OF INPUTS
TERM #	WIRE #	ORIGINATION	
298	CP-292	M7-57	SUMP PUMP 1 OVER TEMP/MOIST
300	CP-293	M7-57A	SUMP PUMP 1 OVER TEMP/MOIST
301	CP-341	M8-57	SUMP PUMP 2 OVER TEMP/MOIST
302	CP-342	M8-57A	SUMP PUMP 2 OVER TEMP/MOIST
304	CP-343	M9-23D	MIXER 1 OVER TEMP/MOIST
306	CP-344	M9-23E	MIXER 1 OVER TEMP/MOIST
307	CP-346	M10-23D	MIXER 2 OVER TEMP/MOIST
309	CP-347	M10-23E	MIXER 2 OVER TEMP/MOIST
310	CP-343	M11-23D	MIXER 3 OVER TEMP/MOIST
312	CP-344	M11-23E	MIXER 3 OVER TEMP/MOIST
313	CP-346	M12-23D	MIXER 4 OVER TEMP/MOIST
315	CP-347	M12-23E	MIXER 4 OVER TEMP/MOIST
334	CP-349	SWGR-19	INC. LINE 1 NORM SOURCE POWER FAIL
336	CP-350	SWGR-20	INC. LINE 1 NORM SOURCE POWER FAIL
337	CP-292	SWGR-21	INC. LINE 2 EMER SOURCE POWER FAIL
339	CP-293	SWGR-22	INC. LINE 2 EMER SOURCE POWER FAIL
340	CP-292	GEN-7	GENERATOR ALARM
342	CP-293	GEN-8	GENERATOR ALARM
343	CP-341	SP-DO-P28	SCADA PANEL AC POWER FAILURE
345	CP-342	SP-DO-P28X	SCADA PANEL AC POWER FAILURE
343	CP-343	SP-DO-P27	SCADA PANEL ALARM
344	CP-344	SP-DO-P27X	SCADA PANEL ALARM
361	CP-346	FIRE ALARM PANEL	FIRE ALARM
363	CP-347	FIRE ALARM PANEL	FIRE ALARM
367	CP-344	CO-5	CARBONMONOXIDE ALARM
369	CP-346	CO-6	CARBONMONOXIDE ALARM
370	CP-347	CO-7	CO DETECTOR FAIL
372	CP-347	CO-8	CO DETECTOR FAIL
376	CP-343	SP-DO-P24	ALARM ACKNOWLEDGE
376A	CP-344	SP-DO-P24X	ALARM ACKNOWLEDGE
391	CP-346	SPDI-120	ALARM ACKNOWLEDGED
391A	CP-347	SPDI-120C	ALARM ACKNOWLEDGED
420	CP-349	M1-5B	MAIN PUMP 1 FAILURE
420A	CP-350	M1-5C	MAIN PUMP 1 FAILURE
421	CP-349	M2-5B	MAIN PUMP 2 FAILURE
421A	CP-350	M2-5C	MAIN PUMP 2 FAILURE
422	CP-349	M3-5B	MAIN PUMP 3 FAILURE
422A	CP-350	M3-5C	MAIN PUMP 3 FAILURE
423	CP-349	M4-5B	MAIN PUMP 4 FAILURE
423A	CP-350	M4-5C	MAIN PUMP 4 FAILURE
424	CP-349	M5-5B	MAIN PUMP 5 FAILURE
424A	CP-350	M5-5C	MAIN PUMP 5 FAILURE
425	CP-349	M6-5B	MAIN PUMP 6 FAILURE
425A	CP-350	M6-5C	MAIN PUMP 6 FAILURE
426	CP-349	M7-5B	SUMP PUMP 1 FAILURE
426A	CP-350	M7-5C	SUMP PUMP 1 FAILURE
427	CP-349	M8-5B	SUMP PUMP 2 FAILURE
427A	CP-350	M8-5C	SUMP PUMP 2 FAILURE
428	CP-349	M9-6	MIXER 1 FAILURE
428A	CP-350	M9-6A	MIXER 1 FAILURE
428	CP-349	M10-6	MIXER 2 FAILURE
429	CP-350	M10-6A	MIXER 2 FAILURE
428	CP-349	M11-6	MIXER 3 FAILURE
430	CP-350	M11-6A	MIXER 3 FAILURE
428	CP-349	M12-6	MIXER 4 FAILURE
431	CP-350	M12-6A	MIXER 4 FAILURE
463	CP-463	GSD1 +	COMBUSTIBLE GAS SENSOR 1
463A	CP-463	GSD1 −	COMBUSTIBLE GAS SENSOR 1
464	CP-463	GSD1 S	COMBUSTIBLE GAS SENSOR 1
466	CP-463	GSD2 +	COMBUSTIBLE GAS SENSOR 2
466A	CP-463	GSD2 −	COMBUSTIBLE GAS SENSOR 2
467	CP-463	GSD2 S	COMBUSTIBLE GAS SENSOR 2
469	CP-463	GSD3 +	COMBUSTIBLE GAS SENSOR 3
469A	CP-463	GSD3 −	COMBUSTIBLE GAS SENSOR 3
470	CP-463	GSD3 S	COMBUSTIBLE GAS SENSOR 3
472	CP-463	GSD4 +	COMBUSTIBLE GAS SENSOR 4
472A	CP-463	GSD4 −	COMBUSTIBLE GAS SENSOR 4
473	CP-463	GSD4 S	COMBUSTIBLE GAS SENSOR 4
475	CP-463	GSD5 +	COMBUSTIBLE GAS SENSOR 5
475A	CP-463	GSD5 −	COMBUSTIBLE GAS SENSOR 5
476	CP-463	GSD5 S	COMBUSTIBLE GAS SENSOR 5
478	CP-463	GSD6 +	COMBUSTIBLE GAS SENSOR 6
478A	CP-463	GSD6 −	COMBUSTIBLE GAS SENSOR 6
479	CP-463	GSD6 S	COMBUSTIBLE GAS SENSOR 6
484	CP-484	FAP-3	FIRE ALARM
484A	CP-484A	FAP-4	FIRE ALARM

CONTROL PANEL DIGITAL OUTPUTS(TBDO)			DESCRIPTION OF OUTPUTS
TERM #	WIRE #	DESTINATION	
2	SP-119	SPDI-119	PUMP CONTROL CKT POWER FAIL
2A	SP-119C	SPDI-119C	PUMP CONTROL CKT POWER FAIL
9	M7-7	M7-7	START SUMP PUMP 1
9A	M7-14	M7-14	START SUMP PUMP 1
12	M8-7	M8-7	START SUMP PUMP 1
12A	M8-14	M8-14	START SUMP PUMP 1
31	M1-7	M1-7	START MAIN PUMP 1
31A	M1-14	M1-14	START MAIN PUMP 1
36	M2-7	M2-7	START MAIN PUMP 2
36A	M2-14	M2-14	START MAIN PUMP 2
41	M3-7	M3-7	START MAIN PUMP 3
41A	M3-14	M3-14	START MAIN PUMP 3
46	M4-7	M4-7	START MAIN PUMP 4
46A	M4-14	M4-14	START MAIN PUMP 4
51	M5-7	M5-7	START MAIN PUMP 5
51A	M5-14	M5-14	START MAIN PUMP 5
56	M6-7	M6-7	START MAIN PUMP 6
56A	M6-14	M6-14	START MAIN PUMP 6
145	SP-XXX	SPDI-XXX	MAIN PUMP FAIL TO START
145A	SP-XXX	SPDI-XXX	MAIN PUMP FAIL TO START
201	SP-100	SPDI-100	WETWELL LVL BELOW FLOAT EL. 380.5'
201A	SP-100C	SPDI-100C	WETWELL LVL BELOW FLOAT EL. 380.5'
202	SP-101	SPDI-101	WETWELL LVL BELOW FLOAT EL. 379.5'
202A	SP-101C	SPDI-101C	WETWELL LVL BELOW FLOAT EL. 379.5'
203	SP-102	SPDI-102	WETWELL LVL BELOW FLOAT EL. 378.5'
203A	SP-102C	SPDI-102C	WETWELL LVL BELOW FLOAT EL. 378.5'
204	SP-103	SPDI-103	WETWELL LVL BELOW FLOAT EL. 377.5'
204A	SP-103C	SPDI-103C	WETWELL LVL BELOW FLOAT EL. 377.5'
205	SP-104	SPDI-104	WETWELL LVL BELOW FLOAT EL. 377.0'
205A	SP-104C	SPDI-104C	WETWELL LVL BELOW FLOAT EL. 377.0'
206	SP-105	SPDI-105	WETWELL LVL BELOW FLOAT EL. 376.5'
206A	SP-105C	SPDI-105C	WETWELL LVL BELOW FLOAT EL. 376.5'
207	SP-106	SPDI-106	WETWELL LVL BELOW FLOAT EL. 376.0'
207A	SP-106C	SPDI-106C	WETWELL LVL BELOW FLOAT EL. 376.0'
208	SP-107	SPDI-107	WETWELL LVL BELOW FLOAT EL. 375.5'
208A	SP-107C	SPDI-107C	WETWELL LVL BELOW FLOAT EL. 375.5'
209	SP-108	SPDI-108	WETWELL LVL BELOW FLOAT EL. 375.0'
209A	SP-108C	SPDI-108C	WETWELL LVL BELOW FLOAT EL. 375.0'
210	SP-109	SPDI-109	WETWELL LVL BELOW FLOAT EL. 374.5'
210A	SP-109C	SPDI-109C	WETWELL LVL BELOW FLOAT EL. 374.5'
211	SP-110	SPDI-110	WETWELL LVL BELOW FLOAT EL. 374.0'
211A	SP-110C	SPDI-110C	WETWELL LVL BELOW FLOAT EL. 374.0'
212	SP-111	SPDI-111	WETWELL LVL BELOW FLOAT EL. 373.5'
212A	SP-111C	SPDI-111C	WETWELL LVL BELOW FLOAT EL. 373.5'
213	SP-112	SPDI-112	WETWELL LVL BELOW FLOAT EL. 373.0'
213A	SP-112C	SPDI-112C	WETWELL LVL BELOW FLOAT EL. 373.0'
214	SP-113	SPDI-113	WETWELL LVL BELOW FLOAT EL. 372.0'
214A	SP-113C	SPDI-113C	WETWELL LVL BELOW FLOAT EL. 372.0'
215	SP-114	SPDI-114	WETWELL LVL BELOW FLOAT EL. 371.5'
215A	SP-114C	SPDI-114C	WETWELL LVL BELOW FLOAT EL. 371.5'
216	SP-115	SPDI-115	WETWELL LVL BELOW FLOAT EL. 371.0'
216A	SP-115C	SPDI-115C	WETWELL LVL BELOW FLOAT EL. 371.0'
217	SP-116	SPDI-116	WETWELL LVL BELOW FLOAT EL. 370.5'
217A	SP-116C	SPDI-116C	WETWELL LVL BELOW FLOAT EL. 370.5'
218	SP-117	SPDI-117	WETWELL LVL BELOW FLOAT EL. 369.5'
218A	SP-117C	SPDI-117C	WETWELL LVL BELOW FLOAT EL. 369.5'
219	SP-118	SPDI-118	WETWELL LVL BELOW FLOAT EL. 368.5'
219A	SP-118C	SPDI-118C	WETWELL LVL BELOW FLOAT EL. 368.5'
221	M13-3	M13-3	STOP EF1 AT WETWELL EL.375.5'
221A	M13-4	M13-4	STOP EF1 AT WETWELL EL.375.5'
391	SP-120	SPDI-120	ALARM ACKNOWLEDGED
391A	SP-120C	SPDI-120C	ALARM ACKNOWLEDGED
481	SP-121	SPDI-121	COMBUSTIBLE GAS WARNING
481A	SP-121C	SPDI-121C	COMBUSTIBLE GAS WARNING
482	SP-122	SPDI-122	COMBUSTIBLE GAS ALARM
482A	SP-122C	SPDI-122C	COMBUSTIBLE GAS ALARM
483	SP-123	SPDI-123	COMBUSTIBLE GAS DETECTOR FAIL
483A	SP-123C	SPDI-123C	COMBUSTIBLE GAS DETECTOR FAIL
484A	HORN1-1	HORN-1	ALARM HORN, OPERATOR'S ROOM
484B	HORN1-2	HORN-2	ALARM HORN, OPERATOR'S ROOM
484A	HORN2-1	HORN-1	ALARM HORN, PUMP ROOM
484B	HORN2-2	HORN-2	ALARM HORN, PUMP ROOM
484A	HORN3-1	HORN-1	ALARM HORN, INTERMEDIATE LEVEL
484B	HORN3-2	HORN-2	ALARM HORN, INTERMEDIATE LEVEL
484A	HORN4-1	HORN-1	ALARM HORN DIDCHARGE LEVEL
484B	HORN4-2	HORN-2	ALARM HORN DIDCHARGE LEVEL

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	R.O.W. CHECKED		
NOTE BOOK			
NO.	CADD FILE NAME		

E30

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOWMAN AVENUE PUMP STATION REHABILITATION

CONTROL PANEL TERMINAL SCHEDULE

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

$$DATE$$
DATE-TIME
DGN-SPEC
DGN-LIB
REF
REF