

|                     |          |                  |                 |              |
|---------------------|----------|------------------|-----------------|--------------|
| F.A.I<br>RTE.       | SECTION  | COUNTY           | TOTAL<br>SHEETS | SHEET<br>NO. |
| 190                 | 0102.1 S | COOK             | 107             | 97           |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |                 |              |

| CONTROL PANEL DIGITAL INPUTS(TBDI) |         |             |                                                        |
|------------------------------------|---------|-------------|--------------------------------------------------------|
| TERM #                             | WIRE #  | ORIGINATION | 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 6 MAIN PUMP                                  |
| 37A                                | CP-37A  | FLOAT 2     | START LAG 6 MAIN PUMP                                  |
| 42                                 | CP-42   | FLOAT 3     | START LAG 5 MAIN PUMP                                  |
| 42A                                | CP-42A  | FLOAT 3     | START LAG 5 MAIN PUMP                                  |
| 47                                 | CP-47   | FLOAT 4     | START LAG 4 MAIN PUMP                                  |
| 47A                                | CP-47A  | FLOAT 4     | START LAG 4 MAIN PUMP                                  |
| 52                                 | CP-52   | FLOAT 5     | START LAG 3 MAIN PUMP                                  |
| 52A                                | CP-92A  | FLOAT 5     | START LAG 3 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     | START LAG 1 MAIN PUMP                                  |
| 62A                                | CP-62A  | FLOAT 7     | START LAG 1 MAIN PUMP                                  |
| 67                                 | CP-67   | FLOAT 8     | START LEAD MAIN PUMP, STOP LF PUMPS                    |
| 67A                                | CP-67A  | FLOAT 8     | START LEAD MAIN PUMP, STOP LF PUMPS                    |
| 72                                 | CP-72   | FLOAT 9     | STOP LAG 4-6 MAIN PUMPS                                |
| 72A                                | CP-72A  | FLOAT 9     | STOP LAG 4-6 MAIN PUMPS                                |
| 77                                 | CP-77   | FLOAT 10    | START LAG LOW FLOW PUMP                                |
| 77A                                | CP-77A  | FLOAT 10    | START LAG LOW FLOW PUMP                                |
| 82                                 | CP-82   | FLOAT 11    | STOP LEAD, LAG 1-3 MAIN PUMPS AND START LOW FLOW PUMPS |
| 82A                                | CP-82A  | FLOAT 11    | STOP LEAD, LAG 1-3 MAIN PUMPS AND START LOW FLOW PUMPS |
| 87                                 | CP-87   | FLOAT 12    | START LEAD LOW FLOW PUMP                               |
| 87A                                | CP-87A  | FLOAT 12    | START LEAD LOW FLOW PUMP                               |
| 92                                 | CP-92   | FLOAT 13    | MAIN PUMPS FAIL TO STOP                                |
| 92A                                | CP-92A  | FLOAT 13    | MAIN PUMPS FAIL TO STOP                                |
| 97                                 | CP-97   | FLOAT 14    | STOP LOW FLOW PUMPS                                    |
| 97A                                | CP-97A  | FLOAT 14    | STOP LOW FLOW PUMPS                                    |
| 102                                | CP-102  | FLOAT 15    | LOW WATER ALARM                                        |
| 102A                               | CP-102A | FLOAT 15    | LOW WATER ALARM                                        |
| 107                                | CP-107  |             |                                                        |
| 107A                               | CP-107A |             |                                                        |
| 112                                | CP-112  |             |                                                        |
| 112A                               | CP-112A |             |                                                        |
| 117                                | CP-117  |             |                                                        |
| 117A                               | CP-117A |             |                                                        |
| 122                                | CP-122  |             |                                                        |
| 122A                               | CP-122A |             |                                                        |
| 5                                  | CP-5    | SP-D0-P26   | ENABLE RTU-1 OUTPUT                                    |
| 11                                 | CP-166  | SP-D0-P26X  | ENABLE RTU-1 OUTPUT                                    |
| 1                                  | CP-1    | SP-D0-P15   | SCADA LEAD CALL                                        |
| 166                                | CP-11   | SP-D0-P15X  | SCADA LEAD CALL                                        |
| 1                                  | CP-1    | SP-D0-P16   | SCADA LAG 1 CALL                                       |
| 167                                | CP-167  | SP-D0-P16X  | SCADA LAG 1 CALL                                       |
| 1                                  | CP-1    | SP-D0-P17   | SCADA LAG 2 CALL                                       |
| 168                                | CP-168  | SP-D0-P17X  | SCADA LAG 2 CALL                                       |
| 1                                  | CP-1    | SP-D0-P18   | SCADA LAG 3 CALL                                       |
| 169                                | CP-169  | SP-D0-P18X  | SCADA LAG 3 CALL                                       |
| 1                                  | CP-1    | SP-D0-P19   | SCADA LAG 4 CALL                                       |
| 168                                | CP-168  | SP-D0-P19X  | SCADA LAG 4 CALL                                       |
| 1                                  | CP-1    | SP-D0-P20   | SCADA LAG 5 CALL                                       |
| 169                                | CP-169  | SP-D0-P20X  | SCADA LAG 5 CALL                                       |
| 1                                  | CP-1    | SP-D0-P21   | SCADA LAG 6 CALL                                       |
| 170                                | CP-170  | SP-D0-P21X  | SCADA LAG 6 CALL                                       |
| 1                                  | CP-1    | SP-D0-P22   | SCADA LEAD LOW FLOW PUMP CALL                          |
| 171                                | CP-171  | SP-D0-P22X  | SCADA LEAD LOW FLOW PUMP CALL                          |
| 1                                  | CP-1    | SP-D0-P23   | SCADA LAG LOW FLOW PUMP CALL                           |
| 172                                | CP-172  | SP-D0-P23X  | SCADA LAG LOW FLOW PUMP CALL                           |
| 244                                | CP-240  | M1-22A      | MAIN PUMP 1 FAIL                                       |
| 246                                | CP-242  | M1-22B      | MAIN PUMP 1 FAIL                                       |
| 247                                | CP-244  | M2-22A      | MAIN PUMP 2 FAIL                                       |
| 249                                | CP-246  | M2-22B      | MAIN PUMP 2 FAIL                                       |
| 250                                | CP-247  | M3-22A      | MAIN PUMP 3 FAIL                                       |
| 252                                | CP-249  | M3-22B      | MAIN PUMP 3 FAIL                                       |
| 253                                | CP-250  | M4-22A      | MAIN PUMP 4 FAIL                                       |
| 255                                | CP-252  | M4-22B      | MAIN PUMP 4 FAIL                                       |
| 256                                | CP-253  | M5-22A      | MAIN PUMP 5 FAIL                                       |
| 258                                | CP-255  | M5-22B      | MAIN PUMP 5 FAIL                                       |
| 259                                | CP-256  | M6-22A      | MAIN PUMP 6 FAIL                                       |
| 261                                | CP-258  | M6-22B      | MAIN PUMP 6 FAIL                                       |
| 262                                | CP-259  | M7-22A      | MAIN PUMP 7 FAIL                                       |
| 264                                | CP-260  | M7-22B      | MAIN PUMP 7 FAIL                                       |
| 265                                | CP-261  | M1-57       | MAIN PUMP 1 OVER TEMP/MOIST                            |
| 267                                | CP-262  | M1-57A      | MAIN PUMP 1 OVER TEMP/MOIST                            |
| 268                                | CP-263  | M2-57       | MAIN PUMP 2 OVER TEMP/MOIST                            |
| 270                                | CP-264  | M2-57A      | MAIN PUMP 2 OVER TEMP/MOIST                            |
| 271                                | CP-265  | M3-57       | MAIN PUMP 3 OVER TEMP/MOIST                            |
| 273                                | CP-267  | M3-57A      | MAIN PUMP 3 OVER TEMP/MOIST                            |
| 274                                | CP-268  | M4-57       | MAIN PUMP 4 OVER TEMP/MOIST                            |
| 276                                | CP-270  | M4-57A      | MAIN PUMP 4 OVER TEMP/MOIST                            |
| 277                                | CP-271  | M5-57       | MAIN PUMP 5 OVER TEMP/MOIST                            |
| 279                                | CP-273  | M5-57A      | MAIN PUMP 5 OVER TEMP/MOIST                            |
| 280                                | CP-274  | M6-57A      | MAIN PUMP 6 OVER TEMP/MOIST                            |
| 282                                | CP-276  | M6-57B      | MAIN PUMP 6 OVER TEMP/MOIST                            |
| 283                                | CP-277  | M7-57A      | MAIN PUMP 7 OVER TEMP/MOIST                            |
| 285                                | CP-279  | M7-57B      | MAIN PUMP 7 OVER TEMP/MOIST                            |
| 286                                | CP-280  | M8-22A      | LOW FLOW PUMP 1 FAIL                                   |
| 288                                | CP-282  | M8-22B      | LOW FLOW PUMP 1 FAIL                                   |
| 289                                | CP-283  | M9-22A      | LOW FLOW PUMP 2 FAIL                                   |
| 291                                | CP-285  | M9-22B      | LOW FLOW PUMP 2 FAIL                                   |
| 292                                | CP-286  | M8-57A      | LOW FLOW PUMP 1 TEMP/MOIST                             |
| 294                                | CP-287  | M8-57B      | LOW FLOW PUMP 1 TEMP/MOIST                             |
| 295                                | CP-288  | M9-57A      | LOW FLOW PUMP 2 TEMP/MOIST                             |
| 297                                | CP-289  | M9-57B      | LOW FLOW PUMP 2 TEMP/MOIST                             |

[illegible]

| CONTROL PANEL DIGITAL OUTPUTS(TBDO) |          |             |                                    |
|-------------------------------------|----------|-------------|------------------------------------|
| TERM #                              | WIRE #   | DESTINATION | DESCRIPTION OF OUTPUTS             |
| 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 LOW FLOW PUMP 1              |
| 9A                                  | M7-14    | M7-14       | START LOW FLOW PUMP 1              |
| 12                                  | M8-7     | M8-7        | START LOW FLOW PUMP 2              |
| 12A                                 | M8-14    | M8-14       | START LOW FLOW PUMP 2              |
| 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                  |
| 61                                  | M7-7     | M7-7        | START MAIN PUMP 7                  |
| 61A                                 | M7-14    | M7-14       | START MAIN PUMP 7                  |
| 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. 608.0' |
| 201A                                | SP-100C  | SPDI-100C   | WETWELL LVL BELOW FLOAT EL. 608.0' |
| 202                                 | SP-101   | SPDI-101    | WETWELL LVL BELOW FLOAT EL. 607.0' |
| 202A                                | SP-101C  | SPDI-101C   | WETWELL LVL BELOW FLOAT EL. 607.0' |
| 203                                 | SP-102   | SPDI-102    | WETWELL LVL BELOW FLOAT EL. 606.5' |
| 203A                                | SP-102C  | SPDI-102C   | WETWELL LVL BELOW FLOAT EL. 606.5' |
| 204                                 | SP-103   | SPDI-103    | WETWELL LVL BELOW FLOAT EL. 606.0' |
| 204A                                | SP-103C  | SPDI-103C   | WETWELL LVL BELOW FLOAT EL. 606.0' |
| 205                                 | SP-104   | SPDI-104    | WETWELL LVL BELOW FLOAT EL. 605.5' |
| 205A                                | SP-104C  | SPDI-104C   | WETWELL LVL BELOW FLOAT EL. 605.5' |
| 206                                 | SP-105   | SPDI-105    | WETWELL LVL BELOW FLOAT EL. 605.0' |
| 206A                                | SP-105C  | SPDI-105C   | WETWELL LVL BELOW FLOAT EL. 605.0' |
| 207                                 | SP-106   | SPDI-106    | WETWELL LVL BELOW FLOAT EL. 604.5' |
| 207A                                | SP-106C  | SPDI-106C   | WETWELL LVL BELOW FLOAT EL. 604.5' |
| 208                                 | SP-107   | SPDI-107    | WETWELL LVL BELOW FLOAT EL. 604.0' |
| 208A                                | SP-107C  | SPDI-107C   | WETWELL LVL BELOW FLOAT EL. 604.0' |
| 209                                 | SP-108   | SPDI-108    | WETWELL LVL BELOW FLOAT EL. 603.0' |
| 209A                                | SP-108C  | SPDI-108C   | WETWELL LVL BELOW FLOAT EL. 603.0' |
| 210                                 | SP-109   | SPDI-109    | WETWELL LVL BELOW FLOAT EL. 602.5' |
| 210A                                | SP-109C  | SPDI-109C   | WETWELL LVL BELOW FLOAT EL. 602.5' |
| 211                                 | SP-110   | SPDI-110    | WETWELL LVL BELOW FLOAT EL. 602.0' |
| 211A                                | SP-110C  | SPDI-110C   | WETWELL LVL BELOW FLOAT EL. 602.0' |
| 212                                 | SP-111   | SPDI-111    | WETWELL LVL BELOW FLOAT EL. 601.5' |
| 212A                                | SP-111C  | SPDI-111C   | WETWELL LVL BELOW FLOAT EL. 601.5' |
| 213                                 | SP-112   | SPDI-112    | WETWELL LVL BELOW FLOAT EL. 601.0' |
| 213A                                | SP-112C  | SPDI-112C   | WETWELL LVL BELOW FLOAT EL. 601.0' |
| 214                                 | SP-113   | SPDI-113    | WETWELL LVL BELOW FLOAT EL. 600.0' |
| 214A                                | SP-113C  | SPDI-113C   | WETWELL LVL BELOW FLOAT EL. 600.0' |
| 215                                 | SP-114   | SPDI-114    | WETWELL LVL BELOW FLOAT EL. 599.5' |
| 215A                                | SP-114C  | SPDI-114C   | WETWELL LVL BELOW FLOAT EL. 599.5' |
| 221                                 |          |             |                                    |
| 221A                                |          |             |                                    |
| 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                                | HORN-1   | HORN-1      | ALARM HORN, OPERATOR'S ROOM        |
| 484B                                | HORN-2   | HORN-2      | ALARM HORN, OPERATOR'S ROOM        |
| 484A                                | HORN-2-1 | HORN-1      | ALARM HORN, PUMP ROOM              |
| 484B                                | HORN-2-2 | HORN-2      | ALARM HORN, PUMP ROOM              |
| 484A                                | HORN-3-1 | HORN-1      | ALARM HORN, INTERMEDIATE LEVEL     |
| 484B                                | HORN-3-2 | HORN-2      | ALARM HORN, INTERMEDIATE LEVEL     |
| 484A                                | HORN-4-1 | HORN-1      | ALARM HORN DISCHARGE LEVEL         |
| 484B                                | HORN-4-2 | HORN-2      | ALARM HORN DISCHARGE LEVEL         |

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 24  
RELOCATION

## CONTROL PANEL TERMINAL SCHEDULE

SCALE: N/A

DRAWN BY: CRP

DATE: 11-22-10

CHECKED BY: KHC