

| PROPOSED EMERGENCY VEHICLE PREEMPTOR |   |   |
|--------------------------------------|---|---|
| EMERGENCY VEHICLE PREEMPTOR          | 3 | 4 |
| MOVEMENT                             | → | ↑ |

| I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS |           |                 |             |             | TOTAL WATTAGE |
|---------------------------------------------------------------------|-----------|-----------------|-------------|-------------|---------------|
| TYPE                                                                | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | % OPERATION |               |
| SIGNAL (RED)                                                        | 16        | 135             | 17          | 0.50        | 136.00        |
| (YELLOW)                                                            | 16        | 135             | 25          | 0.25        | 100.00        |
| (GREEN)                                                             | 16        | 135             | 15          | 0.25        | 60.00         |
| ARROW                                                               | 16        | 135             | 12          | 0.10        | 19.20         |
| PED. SIGNAL                                                         | 8         | 90              | 25          | 1.00        | 200.00        |
| CONTROLLER                                                          | 1         | 100             | 100         | 1.00        | 100.00        |
| ILLUM. SIGN                                                         |           | 84              |             | 0.05        |               |
| TOTAL =                                                             |           |                 |             |             | 624.80        |

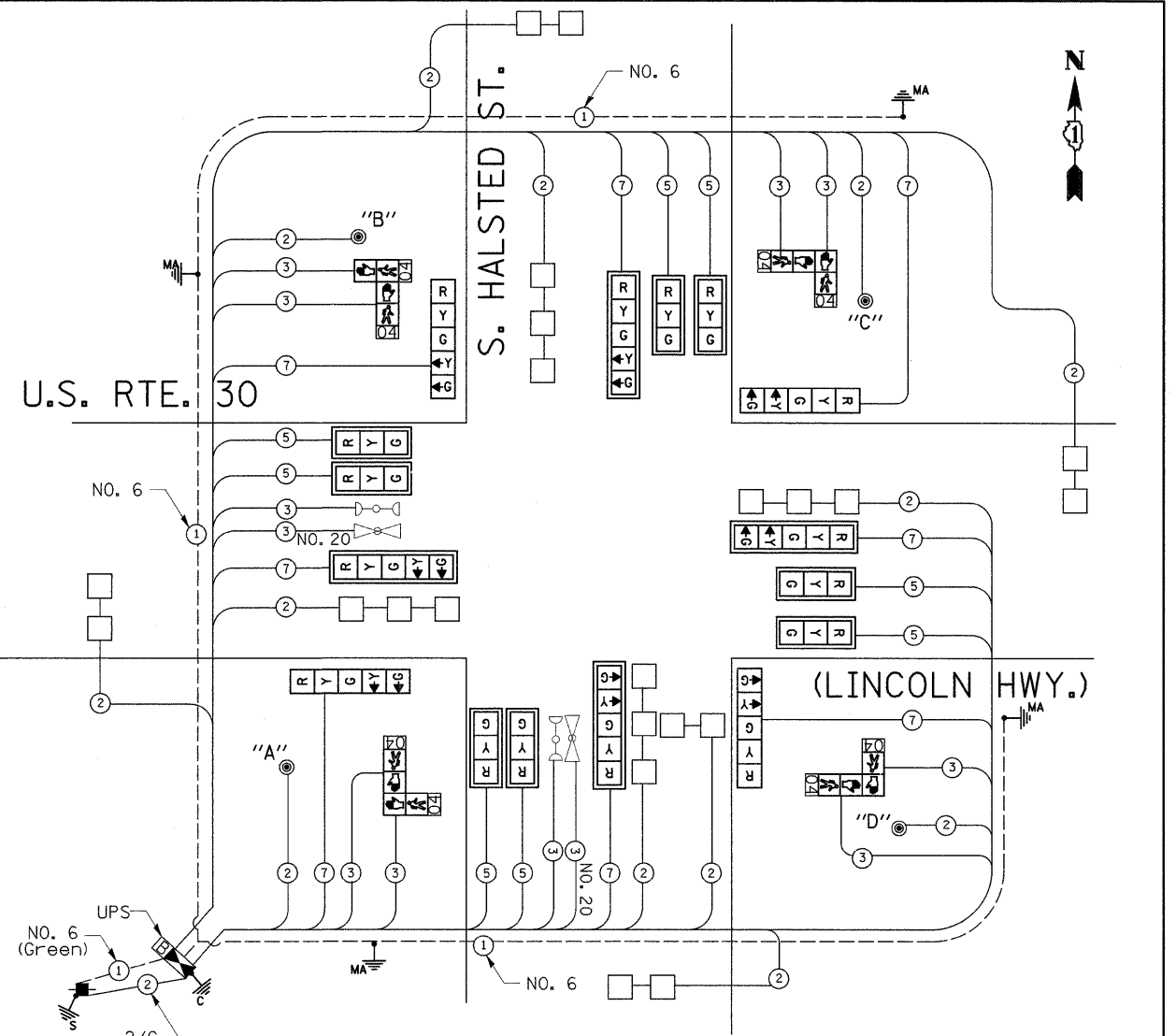
### SCHEDULE OF QUANTITIES

| ITEM                                                                     | UNIT  | QUANTITY |
|--------------------------------------------------------------------------|-------|----------|
| PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH                                 | SQ FT | 336      |
| SIDEWALK REMOVAL                                                         | SQ FT | 336      |
| DETECTABLE WARNINGS                                                      | SQ FT | 200      |
| CORRUGATED MEDIAN                                                        | SQ FT | 240      |
| SIGN PANEL-TYPE I                                                        | SQ FT | 18       |
| SIGN PANEL-TYPE II                                                       | SQ FT | 30       |
| THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS                     | SQ FT | 320      |
| THERMOPLASTIC PAVEMENT MARKING LINE 6"                                   | FOOT  | 630      |
| THERMOPLASTIC PAVEMENT MARKING LINE 24"                                  | FOOT  | 164      |
| THERMOPLASTIC PAVEMENT MARKING REMOVAL                                   | FOOT  | 170      |
| CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL                             | FOOT  | 26       |
| CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL                             | FOOT  | 10       |
| CONDUIT IN PUSH, 2" DIA., GALVANIZED STEEL                               | FOOT  | 1221     |
| CONDUIT IN PUSH, 4" DIA., GALVANIZED STEEL                               | FOOT  | 394      |
| HANDHOLE                                                                 | EACH  | 6        |
| HEAVY-DUTY HANDHOLE                                                      | EACH  | 4        |
| DOUBLE HANDHOLE                                                          | EACH  | 2        |
| TRENCH AND BACKFILL FOR ELECTRICAL WORK                                  | FOOT  | 34       |
| FULL-ACTUATED CONTROLLER AND TYPE IV CABINET(SPECIAL)                    | EACH  | 1        |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C                              | FOOT  | 636      |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C                              | FOOT  | 1314     |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C                              | FOOT  | 1434     |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C                              | FOOT  | 1440     |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR                        | FOOT  | 2292     |
| ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C                             | FOOT  | 180      |
| ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C                           | FOOT  | 560      |
| STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.                                 | EACH  | 1        |
| STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.                                 | EACH  | 1        |
| STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.                                 | EACH  | 1        |
| STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.                                 | EACH  | 1        |
| CONCRETE FOUNDATION, TYPE C                                              | FOOT  | 4        |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIA.                                 | FOOT  | 45       |
| CONCRETE FOUNDATION, TYPE E 42-INCH DIA.                                 | FOOT  | 15       |
| SIGNAL HEAD, L.E.D. 1-FACE, 3 SECTION, MAST ARM MNTD.                    | EACH  | 8        |
| SIGNAL HEAD, L.E.D. 1-FACE, 5 SECTION, MAST ARM MNTD.                    | EACH  | 4        |
| SIGNAL HEAD, L.E.D. 1-FACE, 5 SECT BRKT MNTD.                            | EACH  | 4        |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRKT. MNTD. with COUNTDOWN TIMER | EACH  | 4        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                             | EACH  | 12       |
| INDUCTIVE LOOP DETECTOR                                                  | EACH  | 9        |
| DETECTOR LOOP TYPE I                                                     | FOOT  | 588      |
| PEDESTRIAN PUSH-BUTTON                                                   | EACH  | 4        |
| TEMPORARY TRAFFIC SIGNAL INSTALLATION                                    | EACH  | 1        |
| MEDIAN REMOVAL                                                           | SQ FT | 240      |
| REMOVE ELECTRIC CABLE FROM CONDUIT                                       | FOOT  | 1470     |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                 | EACH  | 1        |
| REMOVE EXISTING CONCRETE FOUNDATION                                      | EACH  | 9        |
| REMOVE EXISTING HANDHOLE                                                 | EACH  | 4        |
| TEMPORARY TRAFFIC SIGNAL TIMINGS                                         | EACH  | 1        |
| UNINTERRUPTIBLE POWER SUPPLY                                             | EACH  | 1        |
| SERVICE INSTALLATION, POLE MOUNT                                         | EACH  | 1        |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C, TWISTED, SHIELDED          | FOOT  | 288      |

**PUSH BUTTON NOTES:**  
 PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4  
 PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6  
 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8  
 PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

| FOUNDATION (DEPTH) | FT. (m)  | CABLE SLACK      | FT. (m)   | VERTICAL          | FT. (m)    |
|--------------------|----------|------------------|-----------|-------------------|------------|
| TYPE A - POST      | 4 (1.2)  | HANDHOLE         | 6.5 (2.0) | ALL FOUNDATIONS   | 3.5 (1.0)  |
| D - CONTROLLER     | 4 (1.2)  | DOUBLE HANDHOLE  | 13 (4.0)  | MAST ARM (L) POLE | 20'-H-2"=  |
| E - M. ARM POLE    |          | SIGNAL POST      | 2 (1.0)   | (6m-H-0.6m)=      |            |
| 24" (600mm)        | 10 (3.0) | CONTROLLER CAB.  | 1 (0.5)   | BRACKET MOUNTED   | 13 (4.0)   |
| 30" (750mm)        | 15 (4.6) | FIBER OPTIC      | 13 (4.0)  | PED. PUSHBUTTON   | 4 (1.2)    |
| 36" (900mm)        | 15 (4.6) | ELECTRIC SERVICE | 1 (0.5)   | ELECTRIC SERVICE  | 13.5 (4.1) |
|                    |          | GROUND CABLE     | 1 (0.5)   | SERVICE TO GROUND | 13.5 (4.1) |
|                    |          |                  |           | POST MOUNTED      | 6 (1.8)    |

**NOTE:**  
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.



| CABLE PLAN LEGEND                                                                        |  | PROPOSED | EXISTING | PROPOSED                                                             | EXISTING |
|------------------------------------------------------------------------------------------|--|----------|----------|----------------------------------------------------------------------|----------|
| CONTROLLER CABINET                                                                       |  | ☒        | ☒        | 12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE | ☒        |
| RAILROAD CONTROL CABINET                                                                 |  | ☒        | ☒        | 12" (300mm) TRAFFIC SIGNAL SECTION                                   | ☒        |
| SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT                                       |  | ☐        | ☐        | 12" (300mm) PEDESTRIAN SIGNAL SECTION with COUNTDOWN TIMER           | ☒ OR ☒   |
| TELEPHONE CONNECTION                                                                     |  | ☐        | ☐        | ILLUMINATED SIGN "NO LEFT TURN"                                      | ☒        |
| GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE       |  | ☐        | ☐        | ILLUMINATED SIGN "NO RIGHT TURN"                                     | ☒        |
| FIBER OPTIC CABLE IN CONDUIT, NUMBER OF FIBERS AS NOTED                                  |  | ---24--- | ---24--- | PUSHBUTTON DETECTOR                                                  | ☐        |
| ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED. NUMBER OF CONDUCTORS AS NOTED |  | ---2---  | ---2---  | DETECTOR LOOP                                                        | ☐        |
| GROUND CABLE IN CONDUIT NO. 6 COPPER (GREEN)                                             |  | ---1---  | ---1---  | PREFORMED DETECTOR LOOP                                              | ☐        |
| SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD                                |  | ☐        | ☐        | MICROWAVE VEHICLE SENSOR                                             | ☐        |
|                                                                                          |  | ☐        | ☐        | VIDEO DETECTOR                                                       | ☐        |
|                                                                                          |  | ☐        | ☐        | CLOSED CIRCUIT TV                                                    | ☐        |
|                                                                                          |  | ☐        | ☐        | EMERGENCY VEHICLE SYSTEM DETECTOR                                    | ☐        |
|                                                                                          |  | ☐        | ☐        | CONFIRMATION BEACON                                                  | ☐        |
|                                                                                          |  | ☐        | ☐        | UNINTERRUPTIBLE POWER SUPPLY                                         | ☐        |