

**LEGEND**  
 VEHICULAR PHASE NO. X  
 A = 3  
 B = 2  
 C = 1

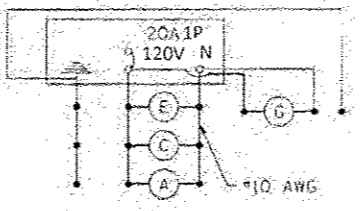
**SCHEDULE OF QUANTITIES**

| DESCRIPTION  | UNIT  | QUANTITY |
|--|-------|----------|
| SIGN PANEL - TYPE 1  | 50 FT | 36.5     |
| SIGN PANEL - TYPE 2  | 50 FT | 21       |
| SERVICE INSTALLATION - GROUND MOUNTED                                | EACH  | 1        |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.                       | FOOT  | 52       |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.                       | FOOT  | 390      |
| UNDERGROUND CONDUIT, PVC, 1" DIA.                                    | FOOT  | 398      |
| UNDERGROUND CONDUIT, PVC, 2" DIA.                                    | FOOT  | 4024     |
| UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.                                | FOOT  | 86       |
| UNDERGROUND CONDUIT, PVC, 4" DIA.                                    | FOOT  | 10       |
| CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL             | FOOT  | 48       |
| HANDHOLE, PORTLAND CEMENT CONCRETE                                   | EACH  | 15       |
| DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE                            | EACH  | 1        |
| ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/2" NO. 10         | FOOT  | 4503     |
| LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400-WATT                  | EACH  | 4        |
| UNINTERRUPTIBLE POWER SUPPLY, EXTENDED                               | EACH  | 1        |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C                          | FOOT  | 4774     |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C                          | FOOT  | 1938     |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C                          | FOOT  | 2709     |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1-PAIR                    | FOOT  | 5622     |
| ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C                         | FOOT  | 14       |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C   | FOOT  | 4403     |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                         | EACH  | 4        |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 64 FT.                  | EACH  | 2        |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 68 FT.                  | EACH  | 2        |
| CONCRETE FOUNDATION, TYPE A  | FOOT  | 12       |
| CONCRETE FOUNDATION, TYPE C  | FOOT  | 3        |
| CONCRETE FOUNDATION, TYPE F, 42-INCH DIAMETER                        | FOOT  | 92       |
| SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 1-SECTION, POST MOUNTED     | EACH  | 1        |
| SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED  | EACH  | 2        |
| SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH  | 6        |
| SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED  | EACH  | 6        |
| SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH  | 6        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC                   | EACH  | 20       |
| INDUCTIVE LOOP DETECTOR  | EACH  | 18       |
| DETECTOR LOOP, TYPE I  | FOOT  | 2090     |
| FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL                | EACH  | 1        |

**PROPOSED CABLE DIAGRAM LEGEND**

- CONTROLLER AND CABINET
- DOUBLE HANDHOLE
- HANDHOLE
- SERVICE INSTALLATION
- TRAFFIC SIGNAL HEAD W/ BACKPLATE
- INDICATES FLASHING SECTION
- INDICATES FLASHING SECTION
- DENOTES NUMBER OF CONDUCTORS
- LUMINAIRE, SODIUM VAPOR, 400 WATT
- DETECTOR LOOP
- DETECTOR LOOP SYSTEM
- GROUND ROD AT HANDHOLE OR DOUBLE HANDHOLE
- GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
- GROUND ROD AT ELECTRIC SERVICE INSTALLATION
- GROUND ROD AT CONTROLLER

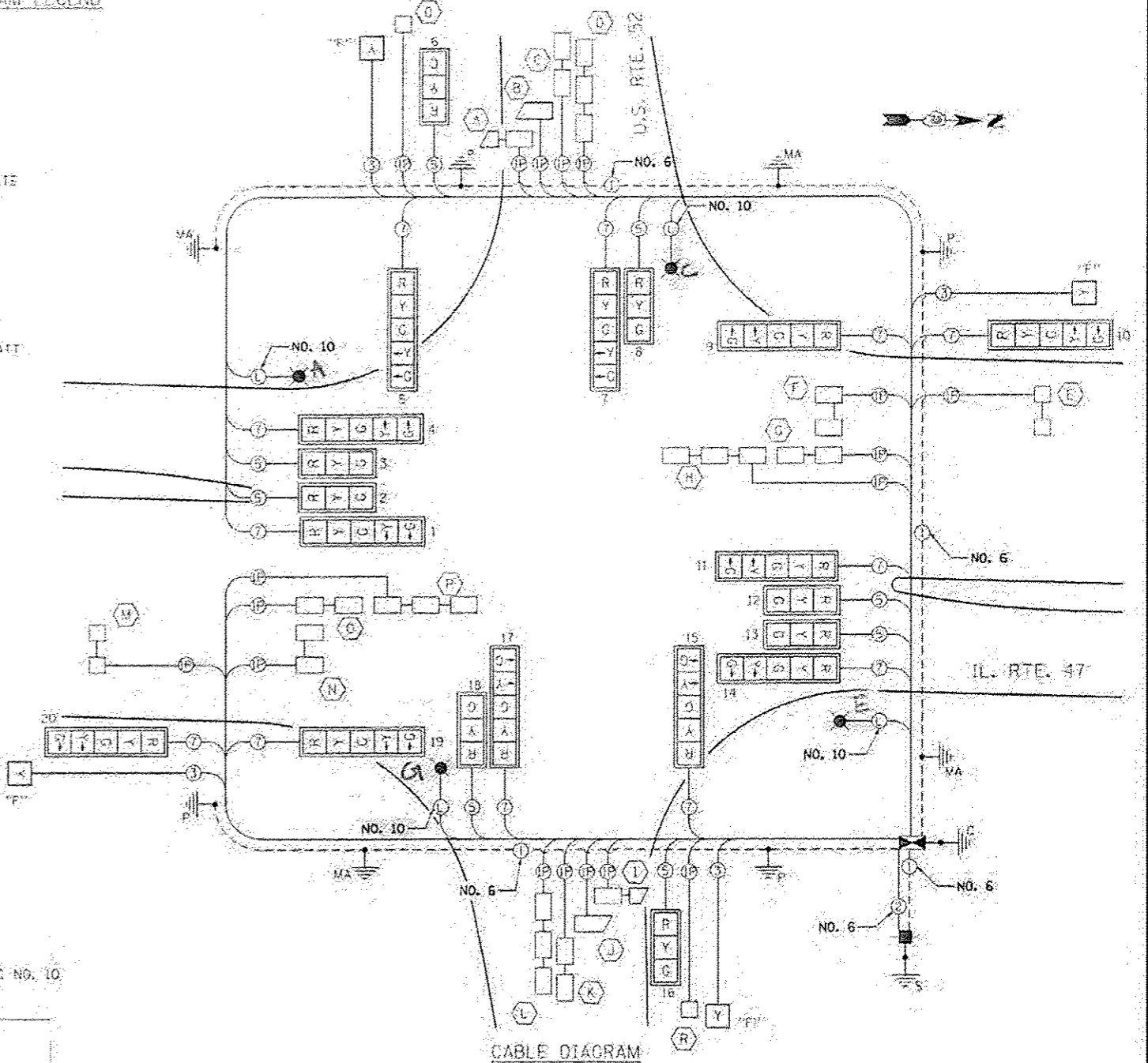
- SERVICE CABLE
- ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
- LIGHTING CABLE  
600V (XLP-TYPE USE) 3-1/2" NO. 10



**LIGHTING CIRCUIT DIAGRAM**

AGENCY RESPONSIBLE FOR ENERGY CHARGES:  
ILLINOIS DEPARTMENT OF TRANSPORTATION

CONTRACTOR PAYS ALL ENERGY CHARGES UNTIL PROJECT IS ACCEPTED.



**CABLE DIAGRAM**

A 120 VOLT 20 AMP CIRCUIT BREAKER SHALL BE INSTALLED INSIDE THE TRAFFIC SIGNAL CONTROLLER CONNECTED TO THE MAIN BREAKER, TO SERVE THE ROADWAY LIGHTING, PER SECTION 1068.01 (e)(3) OF THE STANDARD SPECIFICATIONS. THE CIRCUIT BREAKER SHALL BE CLEARLY LABELED FOR LIGHTING ACCORDING TO ARTICLE 1068.01(f) OF THE STANDARD SPECIFICATIONS. THE PHOTOCCELL SHALL BE MOUNTED TO THE EXTERIOR OF THE TRAFFIC SIGNAL CONTROLLER CABINET, PER SECTION 1068.01(e)(2). THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTROLLER PAY ITEM.

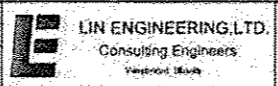
NOTE:  
REDUCE THE NUMBER OF LEAD-IN CABLES TO REDUCE CUTS IN THE CONCRETE PAVEMENT. PLACE ACCORDING TO PLAN OR AS DIRECTED BY THE ENGINEER. RED TIME FOR LEFT TURNS ON IL. RTE. 47 SHALL GET THE REQUIRED MUTCD RED TIME + ONE SECOND TO ACCOMMODATE U-TURNS.

FOR CONDUIT GOING TO THE SIGNAL HEAD MOUNTED ON THE SIGN POST, 12 FEET OF CONDUIT ATTACHED TO STRUCTURE HAS BEEN INCLUDED FOR THE PORTION ATTACHED TO THE SIGN POST. THE CONDUIT ADAPTER FROM THE GROUND CONDUIT TO THE ATTACHED CONDUIT IS INCIDENTAL TO THE CONDUIT PAY ITEM.

NOTE: LIGHTING CABLES WILL BE CONNECTED TO THE PROPOSED LIGHTING CONTROLLER. SEE LIGHTING PLANS.

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

|   |                              |                 |
|---|------------------------------|-----------------|
| FILE NAME: V:\310\66884\North Section\CADD Sheets | USER NAME: jld@idot.com      | DESIGNED: RC    |
| PROJECT: 66884-11-11-11-11                        | PLDT SCALE: 48,000 1/2" = 1' | DRAWN: RC       |
| PROJECT: 66884-11-11-11-11-11                     | PLDT DATE: 7/14/2014         | CHECKED: ST     |
|   |                              | DATE: 7/07/2014 |



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL RTE. 47 AT U.S. RTE. 52  
PHASE DIAGRAM, CABLE DIAGRAM & SCHEDULE OF QUANTITIES  
SCALE: N/A SHEET NO. 11 OF 13 SHEETS STA. N/A TO STA. N/A

| SECTION                          | COUNTY  | TOTAL SHEETS       | SHEET NO. |
|----------------------------------|---------|--------------------|-----------|
| 009, 110P-1                      | RENDALL | 619                | 361       |
|                                  |         | CONTRACT NO. 66884 |           |
| ILLINOIS DEPT. OF TRANSPORTATION |         |                    |           |