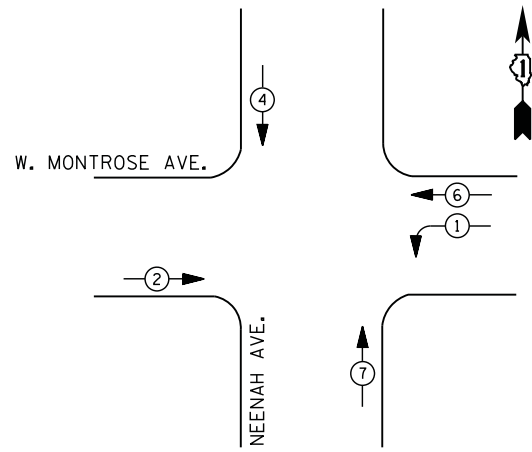




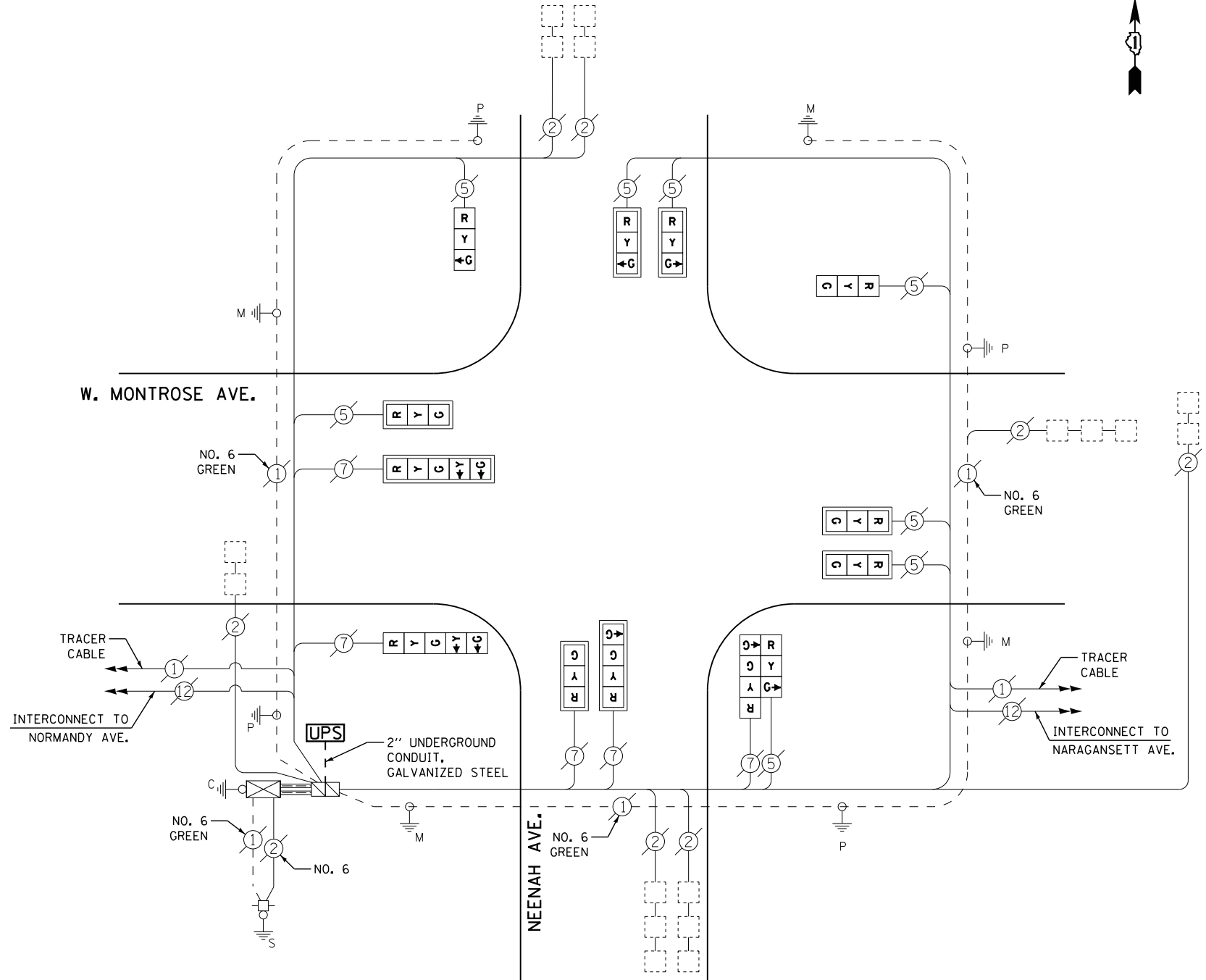
**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM**

**LEGEND**

- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- NUMBER REFERS TO ASSOCIATED PHASE



**CABLE PLAN**

THE UPS SHALL BE INSTALLED NEXT TO THE EXISTING CONTROLLER CABINET USING HELICAL GROUND ANCHORS DUE TO THE PHYSICAL CONSTRAINTS OR AS DIRECTED BY THE ENGINEER. ALL WORK INCLUDING DRILL EXISTING HANDHOLE, CONDUIT, AND ELECTRICAL CABLE NEEDED TO PROPERLY INSTALL THE UPS SHALL BE INCLUDED IN THE PAY ITEM UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED.

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

**I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS**

| TYPE           | NO. LAMPS | WATTAGE |     | % OPERATIONS | TOTAL WATTAGE |
|----------------|-----------|---------|-----|--------------|---------------|
|                |           | INCAND. | LED |              |               |
| SIGNAL ( RED ) | 13        | 135     | 17  | 0.50         | 111           |
| ( YELLOW )     | 13        | 135     | 25  | 0.25         | 62            |
| ( GREEN )      | 15        | 135     | 15  | 0.25         | 57            |
| ARROW          | 4         | 135     | 12  | 0.10         | 5             |
| PED. SIGNAL    | 0         | 90      | 25  | 1.00         | 0             |
| CONTROLLER     | 1         | 100     | 100 | 1.00         | 100           |
| ILLUM. SIGN    |           | 252     | 25  | 0.05         |               |
| VIDEO SYSTEM   |           | 150     | -   | 1.00         |               |
| FLASHER LED    |           |         |     |              |               |
| TOTAL =        |           |         |     |              | 355           |

**SCHEDULE OF QUANTITIES**

| QUANTITY | UNIT | ITEM  |
|----------|------|---|
| 1        | EACH | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                           |
| 1        | EACH | MODIFY EXISTING CONTROLLER CABINET  |
| 1        | EACH | UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED                                  |
| 1        | EACH | SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED, RETROFIT |
| 2        | EACH | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT                |
| 6        | EACH | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT               |
| 1        | EACH | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT               |
| 1        | EACH | SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED, RETROFIT               |
| 1        | EACH | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT                |

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT JOE STACHO  
PHONE 630-424-5704  
COMMONWEALTH EDISON

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MONTROSE AVENUE AT NEENAH AVENUE  
SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM

| F.A. RTE.          | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|------------|--------|--------------|-----------|
|                    | 2014-019TS | COOK   | 90           | 56        |
| CONTRACT NO. 60Y05 |            |        |              |           |

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

TS #21775  
HARWOOD HEIGHTS