| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 351 | 3277R | COOK | 541 | 302 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |

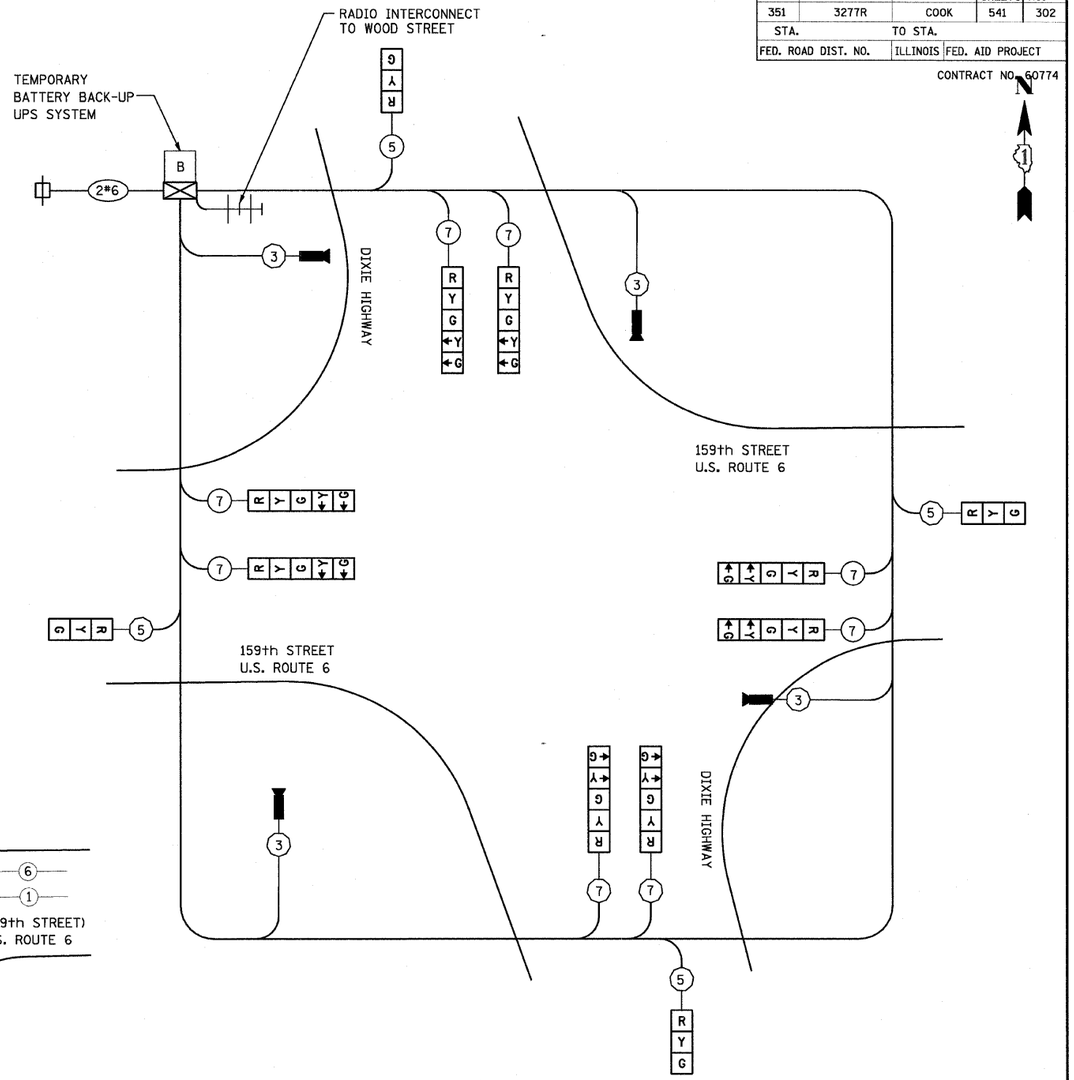
CONTRACT NO. 60774

## TEMPORARY CABLE DIAGRAM LEGEND

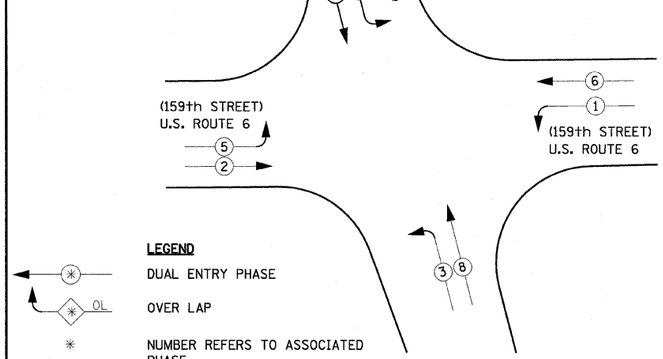
- R — TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300 mm)
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SERVICE INSTALLATION
- (5) — INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- PEDESTRIAN PUSHBUTTON DETECTOR
- VEHICLE DETECTOR, INDUCTION LOOP
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- VIDEO IMAGE SENSOR
- B — TEMPORARY BATTERY BACK-UP UPS SYSTEM

## CONSTRUCTION NOTES

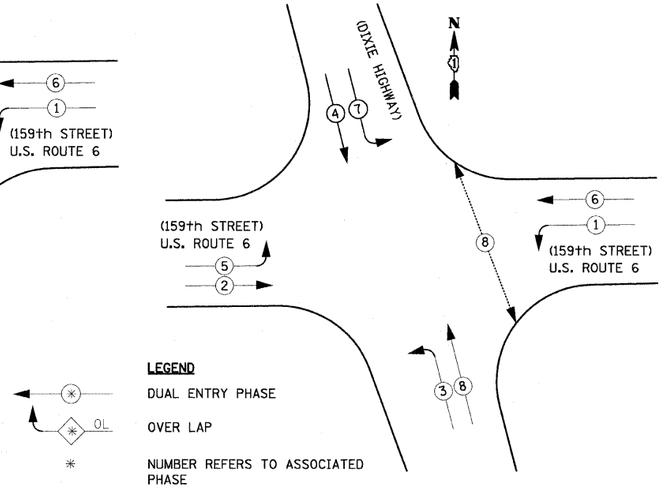
1. THE EXISTING TRAFFIC RESPONSIVE CLOSED LOOP SYSTEM OPERATION SHALL BE MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE S.C.A.T. SYSTEMS ENGINEER, MR. GEORGE BROWN AT (847) 697-6700 AT LEAST 72 HOURS PRIOR TO THE START OF WORK TO REQUEST MODIFICATION OF THE EXISTING TRAFFIC RESPONSIVE PROGRAM. UPON COMPLETION AND ACCEPTANCE OF THE TRAFFIC SIGNAL MODIFICATIONS, THE CONTRACTOR SHALL CONTACT THE SIGNAL SYSTEM ENGINEER TO REQUEST RESTORATION OF THE ORIGINAL TRAFFIC RESPONSIVE PROGRAM.
2. THE CONTRACTOR SHALL MAINTAIN THE EXISTING SIGNAL SYSTEM INTERCONNECT DURING TEMPORARY SIGNAL OPERATION. THE INSTALLATION OF THE TEMPORARY INTERCONNECT CABLE OR RADIO SHALL BE NON-DESTRUCTIVE. THE INSTALLATION AND MAINTENANCE OF THE TEMPORARY INTERCONNECT CABLE OR RADIO SHALL BE INCIDENTAL TO THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.
3. THE PHASING SHALL BE DEACTIVATED AS REQUIRED DURING CONSTRUCTION STAGING.
4. THE EMERGENCY VEHICLE PREEMPTION SEQUENCE SHALL BE MODIFIED AS REQUIRED DURING CONSTRUCTION STAGING.
5. LED SIGNAL HEADS SHALL BE USED FOR ALL TEMPORARY TRAFFIC SIGNALS.




## TEMPORARY CONTROLLER SEQUENCE




## TEMPORARY PHASE DESIGNATION DIAGRAM STAGE 1




## TEMPORARY PHASE DESIGNATION DIAGRAM STAGE 2

| I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | | TOTAL WATTAGE |
|---|---|---|---|---|---|
| TYPE | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | |
| SIGNAL (RED) | 12 | 135 | 17 | 0.50 | 102.00 |
| (YELLOW) | 12 | 135 | 12 | 0.25 | 36.00 |
| (GREEN) | 12 | 135 | 12 | 0.25 | 36.00 |
| ARROW | 16 | 135 | 8 | 0.10 | 12.80 |
| PED. SIGNAL | 0 | 90 | 12 | 1.00 | 0.00 |
| CONTROLLER | 1 | 100 | 100 | 1.00 | 100.00 |
| ILLUM. SIGN | | 84 | | 0.05 | |
| | | | | | |
| | | | | | |
| FLASHER | | | | 0.50 | |
| ENERGY COSTS TO: | | | | TOTAL = | 286.8 |

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY CONTACT: MIKE LYNCH
PHONE: (847) 816-5331
COMPANY: COM. EDISON

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

| 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'+L-2= |
| E - M. ARM POLE | | SIGNAL POST | 2 (1.0) | | (6m+L-0.6m)= |
| 30" (750mm) | 13.5 (4.1) | CONTROLLER CAB. | 1 (0.5) | BRACKET MOUNTED | 13 (4.0) |
| 36" (900mm) | 11 (3.4) | FIBER OPTIC | 13 (4.0) | PED. PUSHBUTTON | 4 (1.2) |
| 36" (900mm) | 13 (4.0) | ELECTRIC SERVICE | 1 (0.5) | ELECTRIC SERVICE | 13.5 (4.1) |
| 36" (900mm) | 15 (4.6) | GROUND CABLE | 1 (0.5) | SERVICE TO GROUND | 13.5 (4.1) |
| | | | | POST MOUNTED | 6 (1.8) |

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

Delta Engineering, Inc.
CONSULTING ENGINEERS, CHICAGO ILLINOIS.

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1

TEMPORARY CABLE PLAN
US RTE 6 & DIXIE HIGHWAY

SCALE. NONE DRAWN BY DK
DATE 01/28/09 CHECKED BY JA