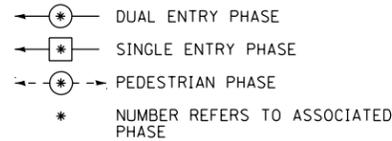


PHASE DESIGNATION DIAGRAM LEGEND



CONSTRUCTION NOTES:

- 1 PROTECTED RIGHT TURN ARROWS SHALL NOT BE PROVIDED, HOWEVER, A 7 CONDUCTOR CABLE SHALL BE INSTALLED AS SHOWN (FOR FUTURE USE).

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

SCHEDULE OF QUANTITIES

| ITEM | UNIT | TOTAL |
|--|-------|-------|
| SIGN PANEL - TYPE 1 | SO FT | 60 |
| SERVICE INSTALLATION - GROUND MOUNTED | EACH | 1 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 843 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA. | FOOT | 37 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 34 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA. | FOOT | 3 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 568 |
| HANDHOLE | EACH | 3 |
| HEAVY-DUTY HANDHOLE | EACH | 4 |
| DOUBLE HANDHOLE | EACH | 3 |
| FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL | EACH | 1 |
| UNINTERRUPTIBLE POWER SUPPLY, SPECIAL | EACH | 1 |
| TRANSCEIVER - FIBER OPTIC | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 1512 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 2165 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 2647 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 1782 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 3413 |
| ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C | FOOT | 116 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 780 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT. | EACH | 2 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 2 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT. | EACH | 2 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT. | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE A | FOOT | 16 |
| CONCRETE FOUNDATION, TYPE C | FOOT | 4 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 45 |
| CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER | FOOT | 21 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED | EACH | 10 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED | EACH | 2 |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 2 |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED | EACH | 2 |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2 |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 3 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM | EACH | 12 |
| INDUCTIVE LOOP DETECTOR | EACH | 14 |
| PREFORMED DETECTOR LOOP | FOOT | 1030 |
| *LIGHT DETECTOR | EACH | 3 |
| *LIGHT DETECTOR AMPLIFIER | EACH | 1 |
| PEDESTRIAN PUSH-BUTTON | EACH | 8 |
| REMOVE EXISTING HANDHOLE | EACH | 1 |
| TEMPORARY WIRELESS INTERCONNECT SYSTEM | EACH | 1 |
| *ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED MAINTENANCE OF EXISTING TEMPORARY TRAFFIC SIGNAL INSTALLATION | FOOT | 597 |
| **LED INTERNALLY ILLUMINATED STREET NAME SIGN | EACH | 4 |
| ELECTRIC SERVICE DISCONNECT, LIGHTING AND TRAFFIC SIGNAL | EACH | 1 |
| TEMPORARY TRAFFIC SIGNAL TIMING | EACH | 1 |

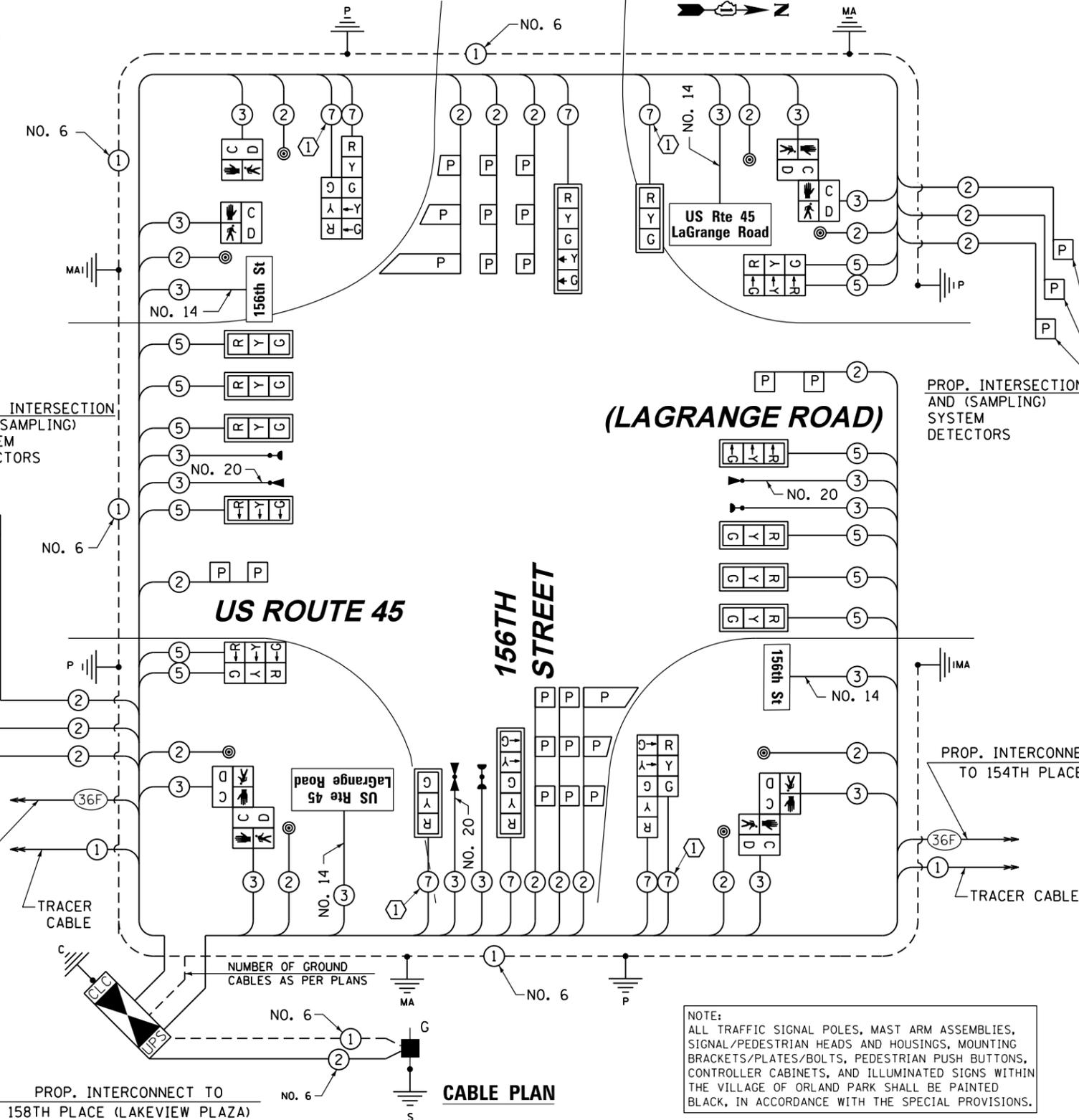
EMERGENCY VEHICLE PREEMPTION SEQUENCE

| PROPOSED EMERGENCY VEHICLE PREEMPTORS | | | |
|---------------------------------------|---|---|---|
| EMERGENCY VEHICLE PREEMPTORS | 3 | 4 | 5 |
| MOVEMENT | ↘ | ↙ | ↕ |

| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | | | TOTAL WATTAGE |
|--|--------------|-----------------|------|-------------|-------|---------------|
| TYPE | NO. OF LAMPS | WATTAGE INCAND. | LED | % OPERATION | | |
| SIGNAL (RED) | 20 | 17 | 0.50 | 170.0 | | |
| (YELLOW) | 20 | 25 | 0.25 | 125.0 | | |
| (GREEN) | 20 | 15 | 0.25 | 75.0 | | |
| ARROW | 8 | 12 | 0.10 | 9.6 | | |
| PED. SIGNAL | 8 | 25 | 1.00 | 200.0 | | |
| CONTROLLER | 1 | 100 | 1.00 | 100.0 | | |
| ILLUM. SIGN | 4 | 25 | 0.05 | 5.0 | | |
| FLASHER | | 25 | 0.50 | - | | |
| ENERGY COST TO: | TOTAL = | | | | 684.6 | |

VILLAGE OF ORLAND PARK
14700 SOUTH RAVINIA AVE.

ENERGY SUPPLY: CONTACT: KATHRYN SUGRUE
PHONE: (708) 235-2337
COMPANY: COMMONWEALTH EDISON



NOTE: ALL TRAFFIC SIGNAL POLES, MAST ARM ASSEMBLIES, SIGNAL/PEDESTRIAN HEADS AND HOUSINGS, MOUNTING BRACKETS/PLATES/BOLTS, PEDESTRIAN PUSH BUTTONS, CONTROLLER CABINETS, AND ILLUMINATED SIGNS WITHIN THE VILLAGE OF ORLAND PARK SHALL BE PAINTED BLACK, IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

- * 100% COST TO ORLAND FIRE PROTECTION DISTRICT
- ** 100% COST TO VILLAGE OF ORLAND PARK

NOTE: NEW PERMANENT SERVICE INSTALLATIONS WITH ILLUMINATED SIGNS AND/OR COMBINATION MAST ARM SIGNAL POLES SHALL BE METERED.

URS
100 S. WACKER DR.
SUITE 600
CHICAGO, IL 60606
TEL (312) 939-1000
FAX (312) 939-4998

| | | | |
|----------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160M61-SHT-TS20.dgn | USER NAME = Anthony.Plutz | DESIGNED - MRF | REVISED - |
| SHT.PLAN | PLOT SCALE = 40.0000' / in. | DRAWN - MRF | REVISED - |
| | PLOT DATE = 3/14/2013 | CHECKED - MJL | REVISED - |
| | | DATE - 03/13/2013 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US 45 (LAGRANGE ROAD) AND 156TH STREET

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|--------|--------------|-----------|
| 330 | 103R-4 | COOK | 877 | 330 |
| TD-20 | | | CONTRACT NO. | 60M61 |
| ILLINOIS FED. AID PROJECT | | | | |