

| | | | | |
|---------------------|---------|---------------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 337 | 19R-1 | LAKE | 800 | 513 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

CONTRACT NO. 60997

SCHEDULE OF QUANTITIES

| DESCRIPTION | UNIT | QUANTITY |
|--|--------|----------|
| HANDHOLE | EACH | 6 |
| HEAVY-DUTY HANDHOLE | EACH | 3 |
| DOUBLE HANDHOLE | EACH | 1 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| FULL-ACTUATED CONTROLLER AND TYPE IV CABINET | EACH | 1 |
| TRANSCIVER - FIBER OPTIC | EACH | 1 |
| OPTICALLY PROGRAMMED SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 1 |
| OPTICALLY PROGRAMMED SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED | EACH | 1 |
| OPTICALLY PROGRAMMED SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 1 |
| TRAFFIC SIGNAL BACKPLATE | EACH | 8 |
| INDUCTIVE LOOP DETECTOR | EACH | 7 |
| LIGHT DETECTOR | EACH | 1 |
| LIGHT DETECTOR AMPLIFIER | EACH | 1 |
| PEDESTRIAN PUSH-BUTTON | EACH | 4 |
| TEMPORARY TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING HANDHOLE | EACH | 5 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 8 |
| SIGN PANEL - TYPE 1 | SQ. M. | 4.04 |
| CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL | METER | 228 |
| CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL | METER | 11 |
| CONDUIT IN TRENCH, 75MM DIA., GALVANIZED STEEL | METER | 8 |
| CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL | METER | 29 |
| CONDUIT PUSHED, 50MM DIA., GALVANIZED STEEL | METER | 16 |
| CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL | METER | 101 |
| TRENCH AND BACKFILL FOR ELECTRICAL WORK | METER | 275 |
| DETECTOR LOOP, PREFORMED | METER | 221 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | METER | 217 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | METER | 582 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | METER | 264 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | METER | 522 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | METER | 575 |
| ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C | METER | 31 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 6.09 METER | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 12.80 METER | EACH | 2 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 13.41 METER | EACH | 1 |
| CONCRETE FOUNDATION, TYPE A | METER | 1.2 |
| CONCRETE FOUNDATION, TYPE D | METER | 1.2 |
| CONCRETE FOUNDATION, TYPE E 750MM DIAMETER | METER | 4.6 |
| ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C | METER | 179 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C, TWISTED, SHIELDED | METER | 149 |
| SERVICE INSTALLATION, POLE MOUNT | EACH | 1 |
| SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 3 |
| SIGNAL HEAD, L.E.D., 1-FACE, 4-SECTION, MAST ARM MOUNTED | EACH | 2 |
| SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 2 |
| SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 3 |
| SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED | EACH | 1 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED | EACH | 2 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED | EACH | 3 |
| CONCRETE FOUNDATION, TYPE E 900MM DIAMETER | METER | 13.8 |

* 100% COST TO THE VILLAGE OF LAKE ZURICH

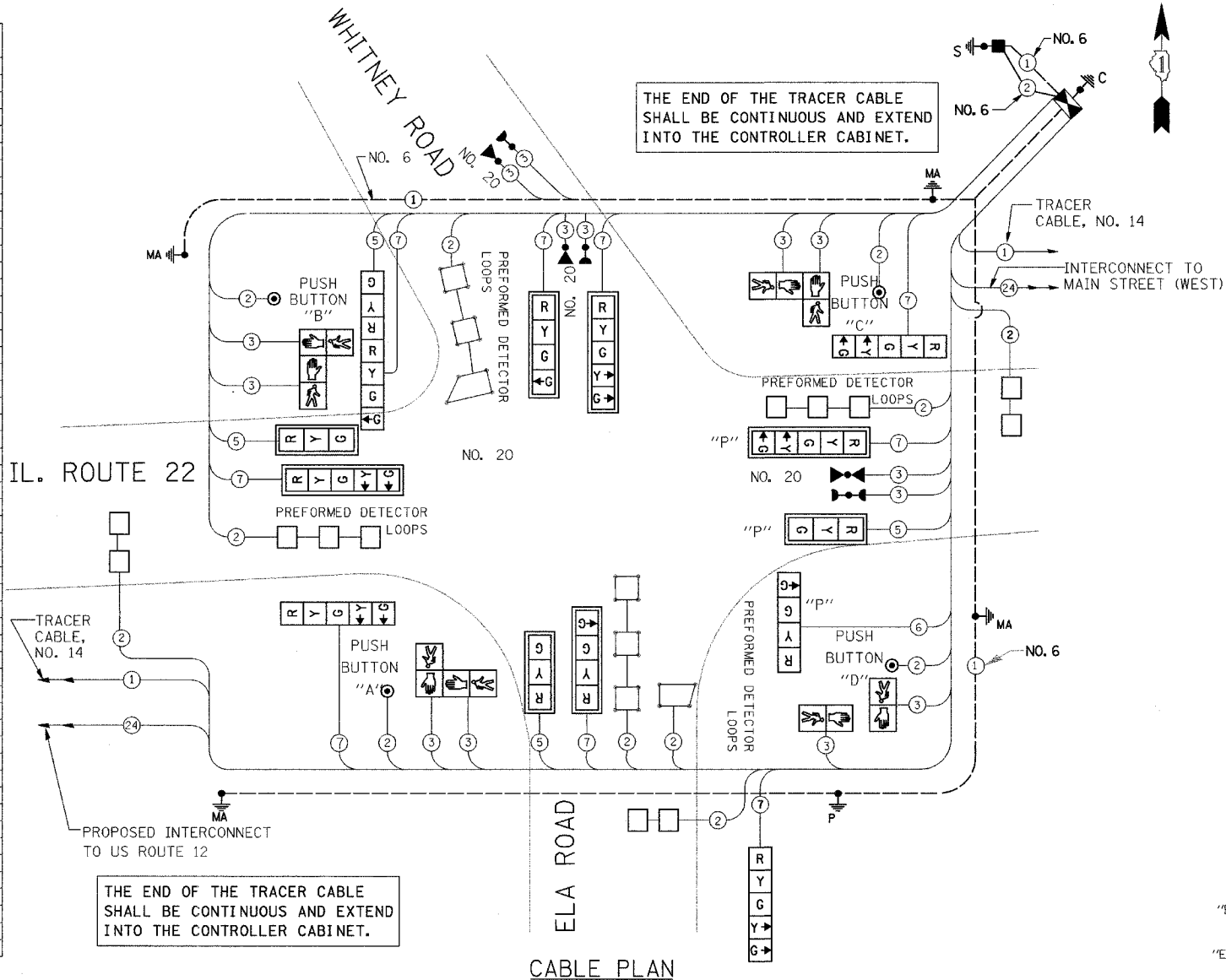
| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | | TOTAL WATTAGE |
|--|-----------|-------------------|---------------|------------|---------------|
| TYPE | NO. LAMPS | WATTAGE (INCAND.) | WATTAGE (LED) | *OPERATION | |
| SIGNAL (RED) | 14 | 135 | 17 | 0.50 | 119.00 |
| (YELLOW) | 14 | 135 | 25 | 0.25 | 87.50 |
| (GREEN) | 18 | 135 | 15 | 0.25 | 67.50 |
| ARROW | 12 | 135 | 12 | 0.10 | 14.40 |
| PED. SIGNAL | 8 | 90 | 25 | 1.00 | 200.0 |
| CONTROLLER | 1 | 100 | 100 | 1.00 | 100.00 |
| ILLUM. SIGN | 0 | 84 | | 0.05 | |

FLASHER 0.50

ENERGY COSTS TO: TOTAL = 588.40

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096
CONTACT: TERI BLACK
PHONE: (847) 816-5239
COMPANY: COM. EDISON

| 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) |
| O - 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) | BRACKET MOUNTED | (6m±L-0.6m)± |
| | | 24" (600mm) | 10 (3.0) | CONTROLLER CAB. | 1 (0.5) |
| | | 30" (750mm) | 15 (4.6) | FIBER OPTIC | 13 (4.0) |
| | | | | ELECTRIC SERVICE | 1 (0.5) |
| | | | | GROUND CABLE | 1 (0.5) |
| | | | | POST MOUNTED | 6 (1.8) |



CABLE PLAN LEGEND

- EXISTING PROPOSED
- 8" (200mm) TRAFFIC SIGNAL SECTION
 - 12" (300mm) TRAFFIC SIGNAL SECTION
 - 12" (300mm) PEDESTRIAN SIGNAL SECTION
 - 12" (300mm) PEDESTRIAN SIGNAL SECTION
 - CONTROLLER CABINET
 - SERVICE INSTALLATION
 - TELEPHONE CONNECTION
 - MAGNETIC DETECTOR
 - EMERGENCY VEHICLE LIGHT DETECTOR
 - CONFIRMATION BEACON
 - PUSHBUTTON DETECTOR
 - VEHICLE DETECTOR, INDUCTION LOOP
 - VIDEO DETECTION
 - SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
 - RAILROAD CONTROL CABINET
 - ILLUMINATED SIGN, L.E.D. "NO LEFT TURN"
 - ILLUMINATED SIGN, L.E.D. "NO RIGHT TURN"
 - GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
 - GROUND ROD AT POST (P), OR MAST ARM POLE (MA)
 - GROUND ROD AT ELECTRIC SERVICE INSTALLATION
 - GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
 - FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F

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

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

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REFER TO LIGHTING PLANS FOR COMBINATION POLE LUMINAIRES WIRE AND CONDUIT REQUIREMENTS.

- PUSH BUTTON "A" SHALL PLACE A CALL IN PHASE 6+3
- PUSH BUTTON "B" SHALL PLACE A CALL IN PHASE 2+3
- PUSH BUTTON "C" SHALL PLACE A CALL IN PHASE 2+4
- PUSH BUTTON "D" SHALL PLACE A CALL IN PHASE 4+6

| REVISIONS | |
|------------------|----------|
| NAME | DATE |
| Rev. Signal Head | 11/24/04 |
| Quantity | |

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, AND CABLE PLAN

IL RTE 22 & ELA RD - WHITNEY AVE

SCALE: N.T.S.

DATE: 07/21/04

DRAWN BY VAP
DESIGNED BY RAM
CHECKED BY DDL