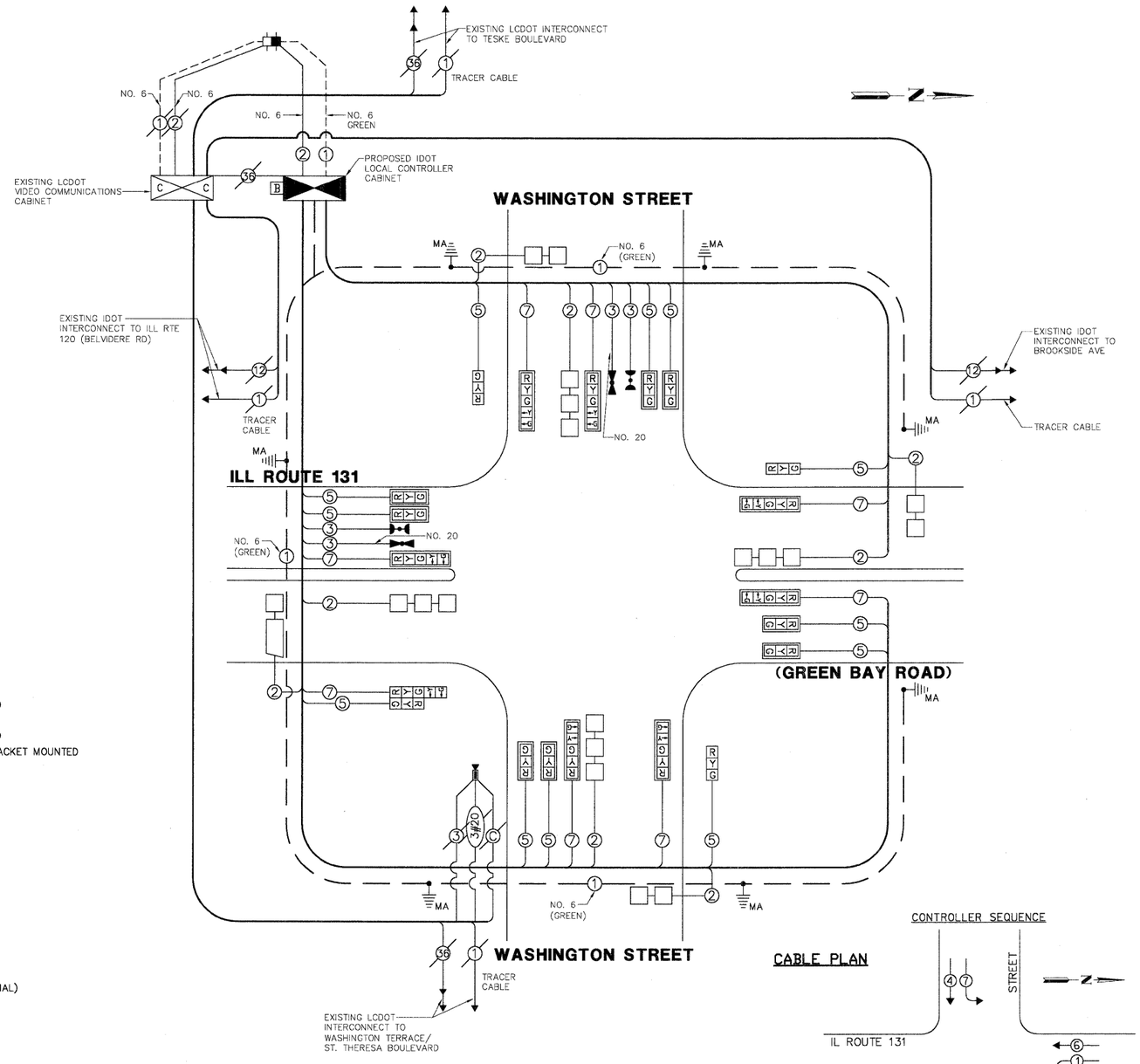
## SCHEDULE OF QUANTITIES

ILLINOIS ROUTE 131 (GREEN BAY ROAD) AND WASHINGTON STREET

| | QUANT. | UNIT | ITEM |
|---|---|---|---|
| 1. | 40 | CU.YD. | EARTH EXCAVATION |
| 2. | 90 | SQ.YD. | SUB-BASE GRANULAR MATERIAL, TYPE B, 4" |
| 3. | 12 | TON | HOT-MIX ASHPALT REPLACEMENT OVER PATCHES |
| 4. | 10 | GAL | BITUMINOUS MATERIALS (PRIME COAT) |
| 5. | 220 | FOOT | COMBINATION CURB & GUTTER REMOVAL |
| 6. | 500 | SQ.FT. | MEDIAN REMOVAL |
| 7. | 90 | SQ.YD. | CLASS B PATCHES, TYPE III, 10" |
| 8. | 0.20 | L.SUM | TRAFFIC CONTROL AND PROTECTION, STANDARD 701606-06 |
| 9. | 0.20 | L.SUM | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701-06 |
| 10. | 18 | SQ.FT. | SIGN PANEL - TYPE 1 |
| 11. | 27.5 | SQ.FT. | SIGN PANEL - TYPE 2 |
| 12. | 340 | FOOT | THERMOPLASTIC PAVEMENT MARKING - LINE 8" |
| 13. | 315 | FOOT | THERMOPLASTIC PAVEMENT MARKING - LINE 12" |
| 14. | 85 | SQ.FT. | PAVEMENT MARKING REMOVAL |
| 15. | 220 | FOOT | SAWING PAVEMENT (FULL DEPTH) |
| 16. | 762 | FOOT | CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL |
| 17. | 114 | FOOT | CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL |
| 18. | 7 | FOOT | CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL |
| 19. | 295 | FOOT | CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL |
| 20. | 362 | FOOT | CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL |
| 21. | 9 | EACH | HANDHOLE |
| 22. | 2 | EACH | HEAVY-DUTY HANDHOLE |
| 23. | 848 | FOOT | TRENCH AND BACKFILL FOR ELECTRICAL WORK |
| * 24. | 1 | EACH | FULL-ACTUATED CONTROLLER IN EXISTING CABINET |
| 25. | 372 | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C |
| 26. | 2685 | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C |
| 27. | 2118 | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C |
| 28. | 2312 | FOOT | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR |
| 29. | 94 | FOOT | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C |
| * 30. | 695 | FOOT | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C |
| 31. | 372 | FOOT | ELECTRIC CABLE IN CONDUIT, NO. 20 3/C TWISTED, SHIELDED |
| 32. | 1 | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 22 FT |
| 33. | 2 | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 24 FT |
| 34. | 2 | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 44 FT |
| 35. | 1 | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 46 FT |
| 36. | 1 | EACH | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 36 FT |
| 37. | 8 | FOOT | CONCRETE FOUNDATION, TYPE A |
| 38. | 30 | FOOT | CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER |
| 39. | 52 | FOOT | CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER |
| 40. | 6 | EACH | DRILL EXISTING HANDHOLE |
| 41. | 8 | EACH | SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED |
| 42. | 3 | EACH | SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED |
| 43. | 7 | EACH | SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED |
| 44. | 1 | EACH | SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED |
| 45. | 15 | EACH | TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINIUM |
| * 46. | 8 | EACH | INDUCTIVE LOOP DETECTOR |
| * 47. | 660 | FOOT | DETECTOR LOOP, TYPE 1 |
| 48. | 2 | EACH | LIGHT DETECTOR |
| 49. | 1 | EACH | LIGHT DETECTOR AMPLIFIER |
| 50. | 1 | EACH | TEMPORARY TRAFFIC SIGNAL INSTALLATION |
| 51. | 135 | FOOT | REMOVE EXISTING CABLE FROM CONDUIT |
| 52. | 21 | FOOT | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT |
| 53. | 1 | EACH | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT |
| 54. | 9 | EACH | REMOVE EXISTING HANDHOLE |
| 55. | 4 | EACH | REMOVE EXISTING CONCRETE FOUNDATION |
| 56. | 1 | EACH | SERVICE INSTALLATION, POLE MOUNT |
| 57. | 1 | EACH | UNINTERRUPTIBLE POWER SUPPLY (UPS) |
| 58. | 1 | EACH | REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE |
| 59. | 1 | EACH | RELOCATE EXISTING REMOTE-CONTROLLER VIDEO SYSTEM (SPECIAL) |

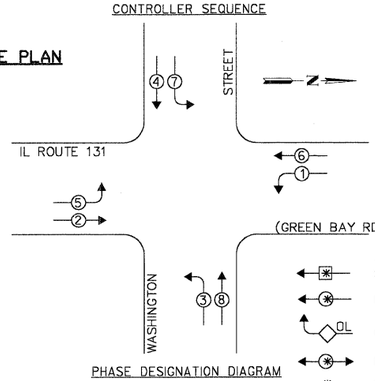
*100% COST TO THE CITY OF WAUKEGAN

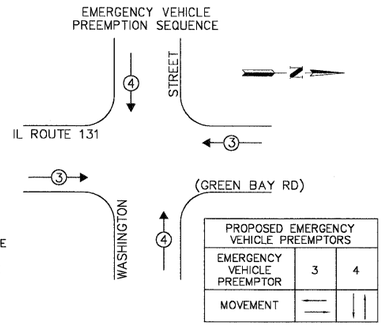



## CABLE PLAN LEGEND

| EXISTING | PROPOSED | |
|---|---|---|
| | G | 8" (200mm) TRAFFIC SIGNAL SECTION |
| | R | 12" (300mm) TRAFFIC SIGNAL SECTION |
| | W | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | T | TELEPHONE |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| 2 | 2 | DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| 1 | 1 | GROUND CABLE IN CONDUIT NO.6 SOLID COPPER (GREEN) |
| 36 | 36 | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM24F |
| | | SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD |
| "E" | | RAILROAD CONTROL CABINET |
| "E" | | ILLUMINATED SIGN "NO LEFT TURN" |
| "E" | | ILLUMINATED SIGN "NO RIGHT TURN" |
| H/C | C | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C) |
| P | P | GROUND ROD AT POST (P) OR MAST ARM POLE (MA) |
| S | S | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| | | PTZ CAMERA |
| | | UNINTERRUPTIBLE POWER SUPPLY (UPS) |
| "E" | | VIDEO COMMUNICATIONS CABINET |

## CABLE PLAN




| PROPOSED EMERGENCY VEHICLE PREEMPTORS | | |
|---|---|---|
| EMERGENCY VEHICLE PREEMPTOR | 3 | 4 |
| MOVEMENT | | |

| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | | TOTAL WATTAGE |
|---|---|---|---|---|---|
| TYPE | NO LAMPS | WATTAGE INCAND. | WATTAGE L.E.D. | % OPERATION | |
| SIGNAL (RED) | 20 | 135 | 17 | 0.50 | 170.0 |
| SIGNAL (YELLOW) | 20 | 135 | 25 | 0.25 | 125.0 |
| SIGNAL (GREEN) | 20 | 135 | 15 | 0.25 | 75.0 |
| ARROW | 16 | 135 | 12 | 0.10 | 19.2 |
| PED.SIGNAL | - | 90 | 25 | 1.00 | - |
| CONTROLLER | 1 | - | 100 | 1.00 | 100.0 |
| LUMINAIRE | - | - | 250 | 0.50 | - |
| L.E.D. ST. NAME SIGN | - | - | 64 | 0.50 | - |
| VIDEO SYSTEM | - | - | 150 | 1.00 | - |
| BATTERY BACKUP | 1 | - | 25 | 1.00 | 25.0 |
| TOTAL = | | | | | 514.2 |

ENERGY COSTS - BILLED TO: CITY OF WAUKEGAN
(ADDRESS) 100 N. M.L.K. JR. AVENUE
(ADDRESS) WAUKEGAN, IL
ENERGY SUPPLY - CONTACT: NEW BUSINESS
PHONE: 1-866-639-3552
COMPANY: COMED

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "NTCIP" COMPLIANT.

| FOUNDATION (DEPTH) | (FT.) | CABLE SLACK | (FT.) | VERTICAL | (FT.) |
|---|---|---|---|---|---|
| TYPE A - POST | 4 | HANDHOLE | 6.5 | ALL FOUNDATIONS | 3.5 |
| TYPE D - CONTROLLER | 4 | DOUBLE HANDHOLE | 13 | MAST ARM (L) POLE | 20'+L'-2= |
| TYPE E - M.ARM POLE | | SIGNAL POST | 2 | BRACKET MOUNTED | 13 |
| 30' (26'-30') | 10 | CONTROLLER CAB. | 1 | PED. PUSHBUTTON | 4 |
| 30' (30'-40') | 13.5 | FIBER OPTIC | 13 | ELECTRIC SERVICE | 13.5 |
| 36' (40'-48') | 13 | ELECTRIC SERVICE | 1 | SERVICE TO GROUND | 13.5 |
| 36' (50'-55') | 15 | GROUND CABLE | 1 | POST MOUNTED | 6 |

GHA #4085.806

| FILE NAME | USER NAME | DESIGNED | JRD | REVISED | - |
|---|---|---|---|---|---|
| 4085.800-TR1.dgn | | DRAWN | LJD | REVISED | - |
| | PLOT SCALE = NONE | CHECKED | KLB | REVISED | - |
| | PLOT DATE = 1/29/09 | DATE | 1/29/09 | REVISED | - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES
ILL RTE 131 (GREEN BAY RD.) AND WASHINGTON STREET

SCALE: NONE | SHEET NO. 20 OF 21 SHEETS | STA. | TO STA.

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 2711 | 2009-005 TS | 097(LAKE)ILK | 21 | 20 |
| | | CONTRACT NO. 60G01 | | |
| | ILLINOIS FED. AID PROJECT | | | |