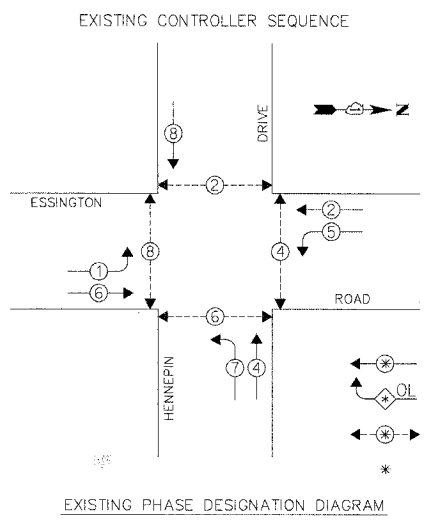
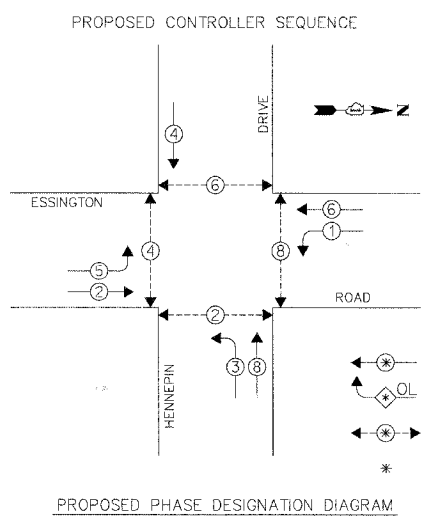


| | | | | |
|---------------------|----------------|----------|------------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 326 | 05-00395-00-TL | WILL | 31 | 26 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |
| CONTRACT NO: 83992 | | | | |



LEGEND
 DUAL ENTRY PHASE
 OVERLAP
 PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

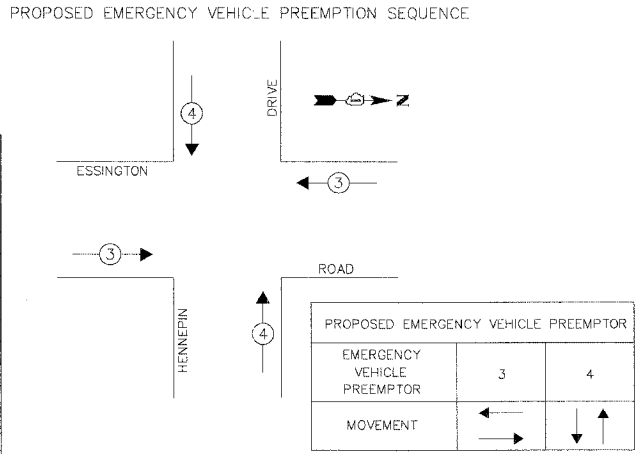


LEGEND
 DUAL ENTRY PHASE
 OVERLAP
 PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

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 SEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

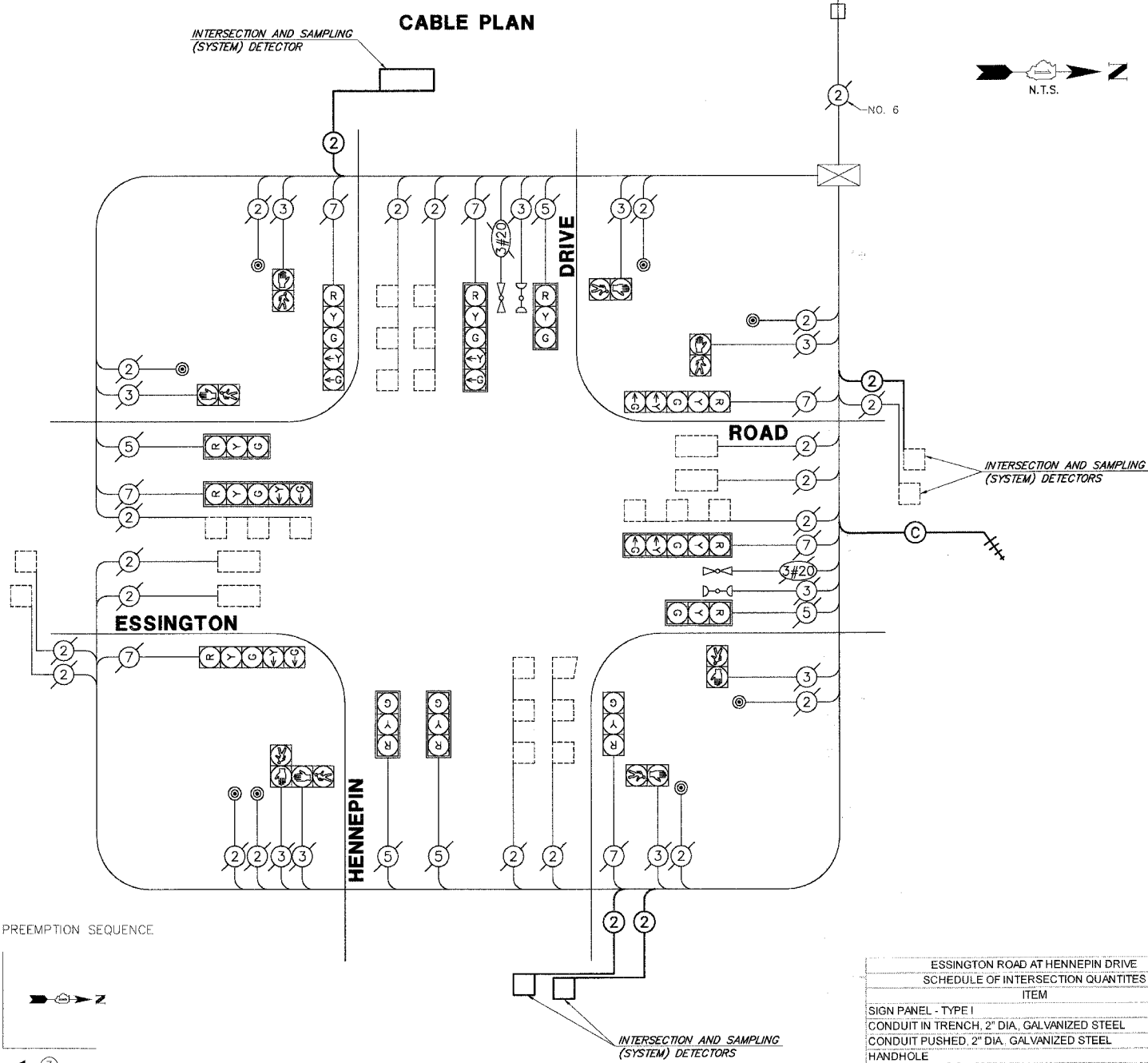
| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | | TOTAL WATTAGE |
|--|--------------|-------------------|-----|-------------|---------------|
| TYPE | NO. OF LAMPS | WATTAGE x INCAND. | LED | % OPERATION | |
| SIGNAL (RED) | 12 | 135 | | 0.50 | 810.0 |
| (YELLOW) | 12 | 135 | | 0.25 | 405.0 |
| (GREEN) | 12 | 135 | | 0.25 | 405.0 |
| ARROW | 12 | 135 | | 0.10 | 162.0 |
| PED. SIGNAL | 8 | 90 | | 1.00 | 720.0 |
| CONTROLLER | 1 | 100 | | 1.00 | 100.0 |
| TOTAL = | | | | | 2602.0 |

ENERGY COSTS TO: TOTAL = 2602.0
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT
 SCHAMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: BETTY BRULC
 PHONE: (815) 724-5052
 COMPANY: COMED



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

| 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"= |
| C - M. ARM POLE | | SIGNAL POST | 2 (1.0) | (6m+L-0.6m)= | |
| 24" (600mm) | 10 (3.0) | CONTROLLER CAB. | 1 (0.5) | BRACKET MOUNTED | 13 (4.0) |
| 30" (750mm) | 15 (4.6) | FIBER OPTIC | 13 (4.0) | PED. PUSHBUTTON | 4 (1.2) |
| 36" (900mm) | 15 (4.6) | ELECTRIC SERVICE | 1 (0.5) | ELECTRIC SERVICE | 13.5 (4.1) |
| | | GROUND CABLE | 1 (0.5) | SERVICE TO GROUND | 13.5 (4.1) |
| | | | | POST MOUNTED | 6 (1.8) |



- CABLE PLAN LEGEND**
- EXISTING: 8" (200mm) TRAFFIC SIGNAL SECTION
 - PROPOSED: 12" (300mm) TRAFFIC SIGNAL SECTION
 - 12" (300mm) PEDESTRIAN SIGNAL SECTION
 - 12" (300mm) PEDESTRIAN SIGNAL SECTION
 - CONTROLLER CABINET
 - SERVICE INSTALLATION
 - TELEPHONE INSTALLATION
 - VEHICLE DETECTOR, INDUCTION LOOP
 - MAGNETIC DETECTOR
 - EMERGENCY VEHICLE LIGHT DETECTOR
 - CONFIRMATION BEACON
 - PUSHBUTTON DETECTOR
 - 2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
 - 1 GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
 - 24 FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
 - SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
 - RAILROAD CONTROL CABINET
 - ILLUMINATED SIGN "NO LEFT TURN"
 - ILLUMINATED SIGN "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
 - RADIO ANTENNA
 - COAXIAL CABLE

| ESSINGTON ROAD AT HENNEPIN DRIVE SCHEDULE OF INTERSECTION QUANTITIES | | |
|--|---------|----------|
| ITEM | UNIT | QUANTITY |
| SIGN PANEL - TYPE I | SQ. FT. | 194 |
| CONDUIT IN TRENCH, 2" DIA. GALVANIZED STEEL | FOOT | 461 |
| CONDUIT PUSHED, 2" DIA. GALVANIZED STEEL | FOOT | 52 |
| HANDHOLE | EACH | 2 |
| TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 461 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| TRANSCEIVER | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 1366 |
| ELECTRIC CABLE IN CONDUIT, COAXIAL | FOOT | 230 |
| DRILL EXISTING HANDHOLE | EACH | 2 |
| INDUCTIVE LOOP DETECTOR | EACH | 4 |
| DETECTOR LOOP, TYPE I | FOOT | 113 |
| MODIFY EXISTING CONTROLLER | EACH | 1 |
| REBUILD EXISTING HANDHOLE TO DOUBLE HANDHOLE | EACH | 1 |

PLANS PREPARED BY:
GEWALT HAMILTON ASSOCIATES, INC.
 Consulting Engineers & Surveyors
 650 Forest Edge Drive
 Vernon Hills, IL 60061
 (847) 478-9700
 (847) 478-9701 Fax

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
 ESSINGTON ROAD AT HENNEPIN DRIVE
 JOLIET, ILLINOIS
 SCALE: N.T.S.
 DATE: DECEMBER 7, 2007
 DRAWN BY: LB
 DESIGNED BY: TCM
 CHECKED BY: BLS