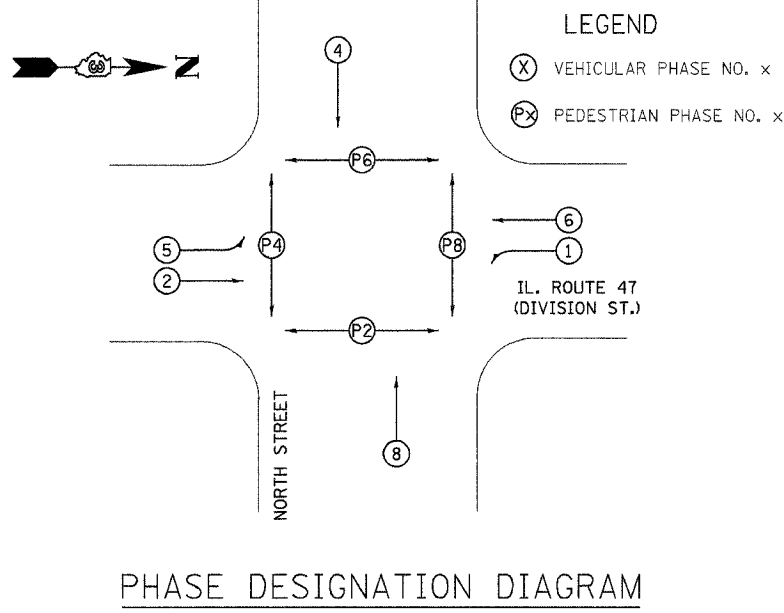


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|--------------------------|-----------------|---------------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 326 | (111CS) W&RS-21 | GRUNDY | 85 | 43 |
| STA. 18+00 TO STA. 24+10 | | ILLINOIS FED. AID PROJECT | | |
| CONTRACT NUMBER: 66720 | | | | |



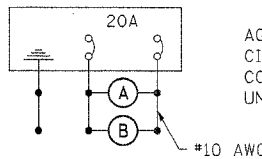
SCHEDULE OF QUANTITIES

| DESCRIPTION | UNIT | QUANTITY |
|--|---------|----------|
| SERVICE INSTALLATION, TYPE B | EACH | 1 |
| HANDHOLE, PORTLAND CEMENT CONCRETE | EACH | 5 |
| DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE | EACH | 1 |
| LUMINAIRE, SODIUM VAPOR, HOR. MOUNT, 250 WATT | EACH | 2 |
| FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL | EACH | 1 |
| MASTER CONTROLLER | EACH | 1 |
| TRANSCEIVER - FIBER OPTIC | EACH | 1 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 24 |
| INDUCTIVE LOOP DETECTOR | EACH | 10 |
| DETECTOR LOOP, TYPE 1 | FT. | 1148 |
| PEDESTRIAN PUSH-BUTTON | EACH | 8 |
| TEMPORARY TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING HANDHOLE | EACH | 3 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 9 |
| SIGN PANEL - TYPE 1 | SQ. FT. | 16 |
| SIGN PANEL - TYPE 2 | SQ. FT. | 42.5 |
| CONDUIT IN TRENCH 1 IN. DIA., PVC | FT. | 96 |
| CONDUIT IN TRENCH 2 IN. DIA., PVC | FT. | 418 |
| CONDUIT IN TRENCH 3 IN. DIA., PVC | FT. | 51 |
| CONDUIT IN TRENCH 4 IN. DIA., PVC | FT. | 16 |
| CONDUIT PUSHED, 2 IN. DIA., PVC | FT. | 46 |
| CONDUIT PUSHED, 4 IN. DIA., GALVANIZED STEEL | FT. | 263 |
| TRENCH AND BACKFILL FOR ELECTRICAL WORK | FT. | 565 |
| ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10 | FT. | 980 |
| ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO. 6 GROUND | FT. | 112 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2/C | FT. | 1062 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C | FT. | 1078 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5/C | FT. | 2287 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7/C | FT. | 704 |
| ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C | FT. | 35 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1-PAIR | FT. | 1572 |
| STEEL MAST ARM ASSEMBLY AND POLE 32 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE 34 FT. | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT. | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE C | FT. | 3.5 |
| CONCRETE FOUNDATION, TYPE E 30 IN. DIAMETER | FT. | 50 |
| LIGHTING CONTROLLER, SPECIAL | EACH | 1 |
| SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 4 |
| SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 8 |
| SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 2 |
| SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 2 |
| PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED | EACH | 8 |
| UNINTERRUPTABLE POWER SUPPLY | EACH | 1 |
| MODIFY EXISTING CONTROLLER CABINET | EACH | 1 |
| LIGHT DETECTOR | EACH | 4 |
| LIGHT DETECTOR AMPLIFIER | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT NO. 20, 3/C, TWISTED, SHIELDED | FOOT | 1108 |

PROPOSED CABLE DIAGRAM LEGEND

- CONTROLLER AND CABINET
- SERVICE INSTALLATION
- TRAFFIC SIGNAL HEAD WITH BACKPLATE
- DENOTES NUMBER OF CONDUCTORS
- LUMINAIRE, SODIUM VAPOR, 250 WATT
- PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON
- DETECTOR LOOP
- GROUND ROD AT HANDHOLE OR DOUBLE HANDHOLE
- GROUND ROD AT MAST ARM POLE
- GROUND ROD AT ELECTRIC SERVICE INSTALLATION

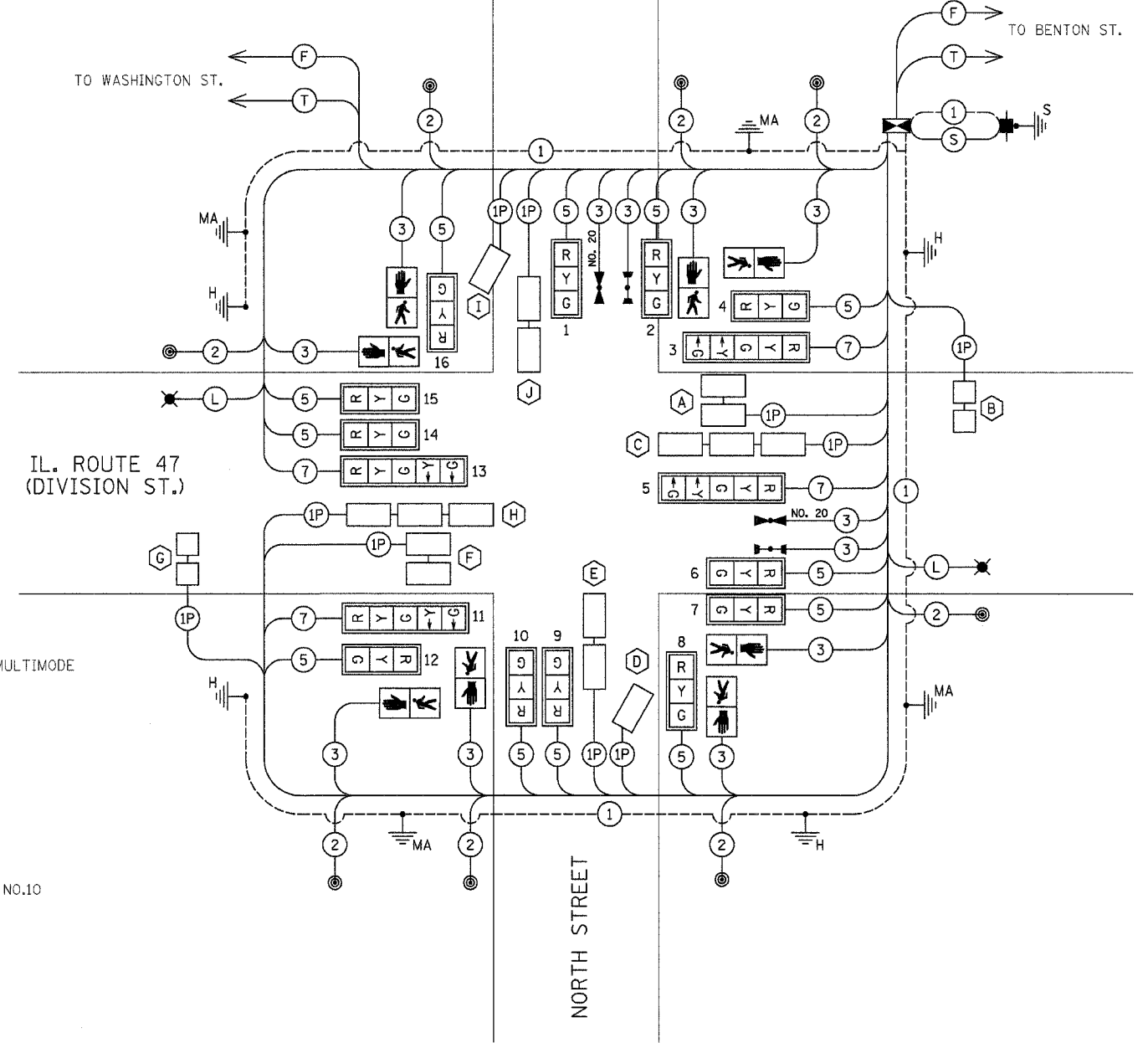
- INTERCONNECTION CABLE**
- (F) FIBER OPTIC CABLE 12 FIBER MULTIMODE AND 12 FIBER SINGLE MODE
- (T) TRACER CABLE NO. 14 1C
- SERVICE CABLE**
- (S) ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2C
- LIGHTING CABLE**
- (L) 600V (XLP-TYPE USE) 3 - 1/C NO.10



LIGHTING CIRCUIT DIAGRAM

AGENCY RESPONSIBLE FOR ENERGY CHARGES:
CITY OF MORRIS
CONTRACTOR PAYS ALL ENERGY CHARGES
UNTIL PROJECT IS ACCEPTED

NOTE:
THE LIGHT DETECTORS AND LIGHT DETECTOR AMPLIFIERS FURNISHED FOR THIS PROJECT SHALL BE TOMAR.



CABLE DIAGRAM

CONTROLLER SPECIFIED: EAGLE EPAC

| REVISIONS | NAME | DATE |
|-----------|------|------|
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ILLINOIS DEPARTMENT OF TRANSPORTATION
**PHASE DIAGRAM, CABLE DIAGRAM
SCHEDULE OF QUANTITIES
IL. 47 (DIVISION ST.) /
NORTH ST.**

SCALE: NONE
DATE: JANUARY 2008

DRAWN BY: JVR
CHECKED BY: FML

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