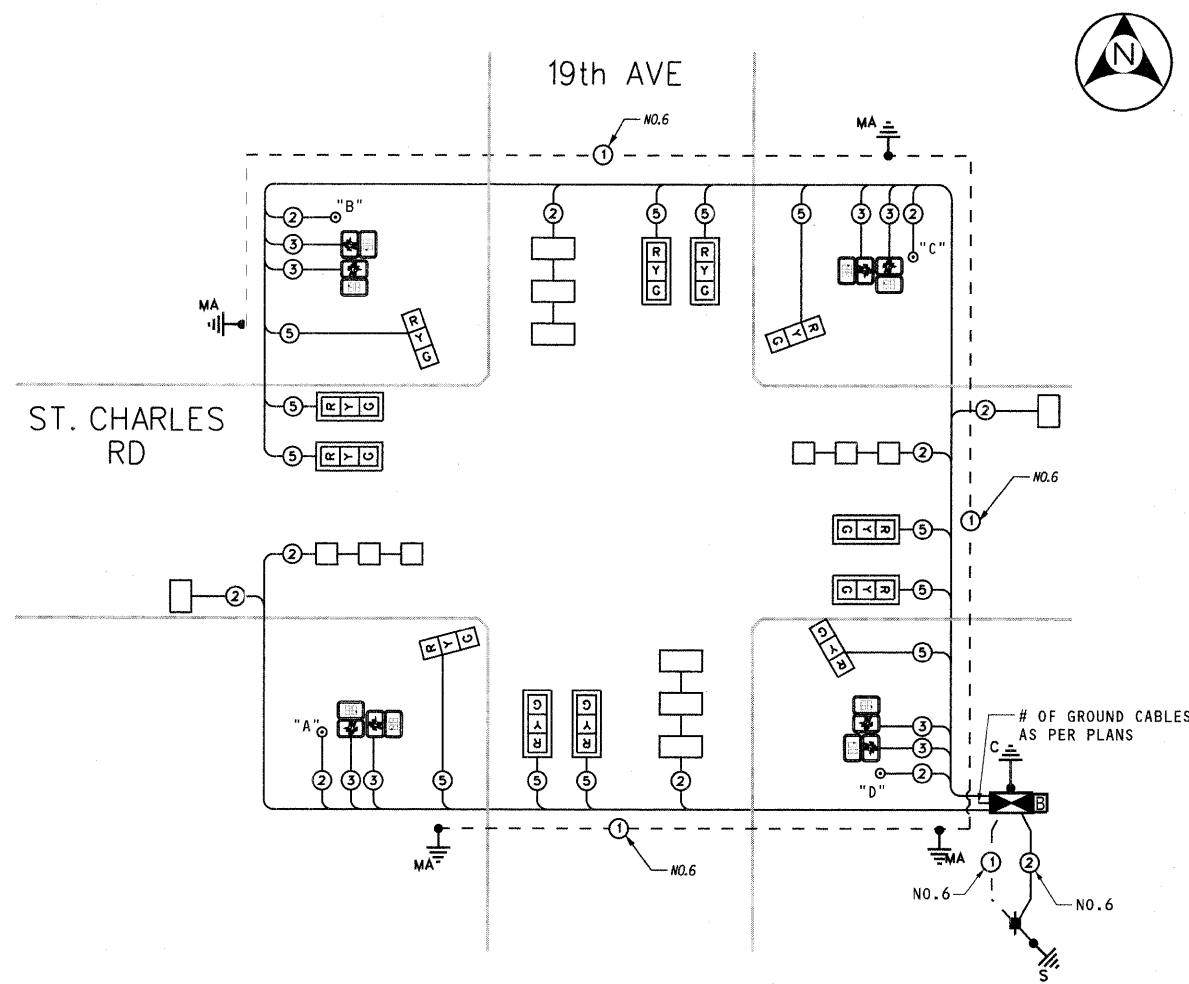


SCHEDULE OF QUANTITIES

| QTY | UNIT | DESCRIPTION |
|------|-------|---|
| 30 | SQ FT | SIGN PANEL - TYPE 1 |
| 1 | EACH | SERVICE INSTALLATION, POLE MOUNTED |
| 605 | FOOT | CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL |
| 31 | FOOT | CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL |
| 10 | FOOT | CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL |
| 65 | FOOT | CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL |
| 191 | FOOT | CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL |
| 6 | EACH | HANDHOLE |
| 1 | EACH | DOUBLE HANDHOLE |
| 330 | FOOT | TRENCH AND BACKFILL FOR ELECTRICAL WORK |
| 1 | EACH | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET |
| 344 | FOOT | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C |
| 434 | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C |
| 900 | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C |
| 1650 | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C |
| 1220 | FOOT | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR |
| 195 | FOOT | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C |
| 1 | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. |
| 1 | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 28 FT. |
| 2 | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 28 FT. |
| 4 | FOOT | CONCRETE FOUNDATION, TYPE C |
| 60 | FOOT | CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER |
| 8 | EACH | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED |
| 4 | EACH | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED |
| 4 | EACH | PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER |
| 8 | EACH | TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM |
| 6 | EACH | INDUCTIVE LOOP DETECTOR |
| 666 | FOOT | DETECTOR LOOP, TYPE I |
| 4 | EACH | PEDESTRIAN PUSH-BUTTON |
| 1 | EACH | TEMPORARY TRAFFIC SIGNAL INSTALLATION |
| 1 | EACH | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT |
| 5 | EACH | REMOVE EXISTING HANDHOLE |
| 7 | EACH | REMOVE EXISTING CONCRETE FOUNDATION |
| 1 | EACH | UNINTERRUPTABLE POWER SUPPLY |
| 1 | EACH | TEMPORARY TRAFFIC SIGNAL TIMING |

PROPOSED CABLE PLAN

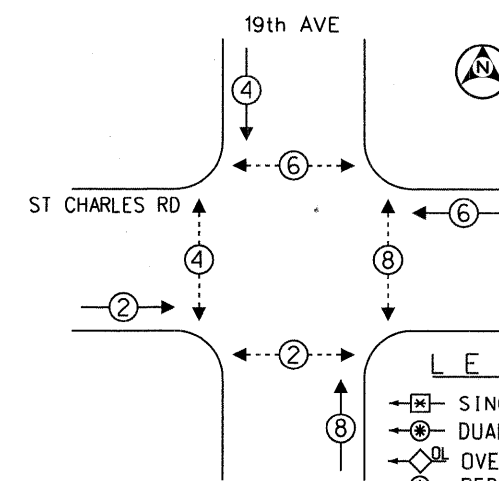


NOTE:
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

CABLE PLAN LEGEND

| EXISTING | PROPOSED | DESCRIPTION |
|----------|----------|---|
| □ | □ | 8" (200mm) TRAFFIC SIGNAL SECTION |
| □ | □ | 12" (300mm) TRAFFIC SIGNAL SECTION |
| □ | □ | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| □ | □ | 12" PEDESTRIAN SIGNAL WITH COUNTDOWN TIMER |
| □ | □ | CONTROLLER CABINET |
| □ | □ | SERVICE INSTALLATION |
| □ | □ | TELEPHONE CONNECTION |
| □ | □ | VEHICLE DETECTOR, INDUCTION LOOP |
| □ | □ | MAGNETIC DETECTOR |
| □ | □ | EMERGENCY VEHICLE LIGHT DETECTOR |
| □ | □ | CONFIRMATION BEACON |
| □ | □ | PUSHBUTTON DETECTOR |
| □ | □ | DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| □ | □ | GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN) |
| □ | □ | NO. 62.5/125 MM 12F & SM 12F, FIBER OPTIC CABLE |
| □ | □ | 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 |
| □ | □ | UNINTERRUPTABLE POWER SUPPLY (BATTERY BACKUP) |

PROPOSED CONTROLLER SEQUENCE



LEGEND

| | |
|---|------------------------------------|
| □ | SINGLE ENTRY PHASE |
| □ | DUAL ENTRY PHASE |
| □ | OVERLAP |
| □ | PEDESTRIAN PHASE |
| * | NUMBER REFERS TO ASSOCIATED PHASE. |

PHASE DESIGNATION DIAGRAM

| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | | TOTAL WATTAGE |
|--|--------------|---------|--------|------------------|---------------|
| TYPE | NO. OF LAMPS | WATTAGE | INCAND | LED % OPERATIONS | |
| SIGNAL (RED) | 12 | 135 | 17 | 0.50 | 102 |
| (YELLOW) | 12 | 135 | 25 | 0.25 | 75 |
| (GREEN) | 12 | 135 | 15 | 0.25 | 45 |
| ARROW | | 135 | 12 | 0.10 | |
| PED. SIGNAL | 8 | 90 | 25 | 1.00 | 200 |
| CONTROLLER | 1 | 100 | 100 | 1.00 | 100 |
| ILLUM. SIGN | | 84 | | 0.05 | |
| FLASHER | | | | 0.50 | |
| TOTAL = | | | | | 522 |

| 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 (1.1) |
| C - CONTROLLER | 4 (1.2) | DOUBLE HANDHOLE | 13 (4.0) | MAST ARM (L) POLE | 20'±L-2' = (6.1±L-1.0) = |
| D - CONTROLLER | 4 (1.2) | SIGNAL POST | 2 (1.0) | BRACKET MOUNTED | 13 (4.0) |
| E - M ARM POLE | | CONTROLLER CAB. | 1 (0.5) | PED. PUSHBUTTON | 4 (1.2) |
| 24" (600mm) | 10 (3.0) | FIBER OPTIC | 13 (4.0) | ELECTRIC SERVICE | 13.5 (4.1) |
| 30" (750mm) | 15 (4.6) | ELECTRIC SERVICE | 1 (0.5) | SERVICE TO GROUND | 13.5 (4.1) |
| 36" (900mm) | 15 (4.6) | GROUND CABLE | 1 (0.5) | POST MOUNTED | 6 (1.8) |

ENERGY COSTS TO: VILLAGE OF MAYWOOD
 40 E. MADISON ST.
 MAYWOOD, ILLINOIS 60153
 (708) 344-1200

ENERGY SUPPLY - CONTACT: MICHAEL BELL
 PHONE: (708) 410-5314
 COMPANY: COMED

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

| | |
|-----------------|-----------|
| DESIGNED - DAP | REVISOR - |
| DRAWN - DAP | REVISOR - |
| CHECKED - JAM | REVISOR - |
| DATE - 11-30-09 | REVISOR - |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES
 19th AVE & ST. CHARLES RD, MAYWOOD, IL

PREPARED BY:
METRO TRANSPORTATION GROUP, INC.
 TRAFFIC ENGINEERING, TRANSPORTATION PLANNING,
 TRANSPORTATION ENGINEERING, SIGNAL SYSTEMS/DESIGN
 3100 W. HIGGINS ROAD, HOFFMAN ESTATES, IL 60169
 PH# 630 213-1000 FAX# 630 213-3227

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|--------------|-----------|
| 1397 | 09-00129-00-PV | COOK | 103 | 84 |
| CONTRACT NO. 63428 | | | | |

SCALE: NTS SHEET NO. T13 OF SHEETS STA. TO STA.

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)
 (BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 563-08-29001