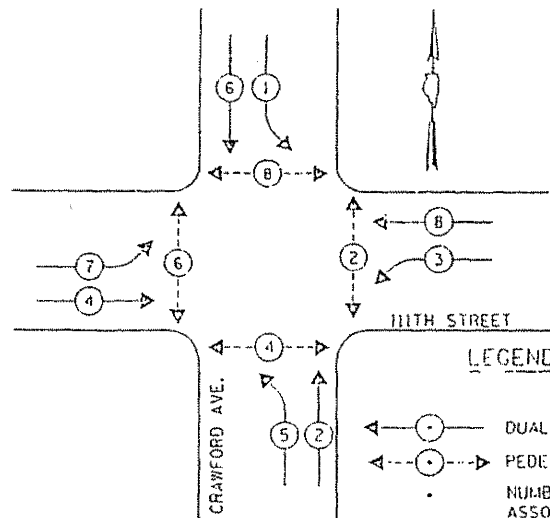


CONTROLLER SEQUENCE

REFERRING TO STANDARD B5700 THE VEHICULAR AND PEDESTRIAN PHASE USED ARE DESIGNATED BELOW.



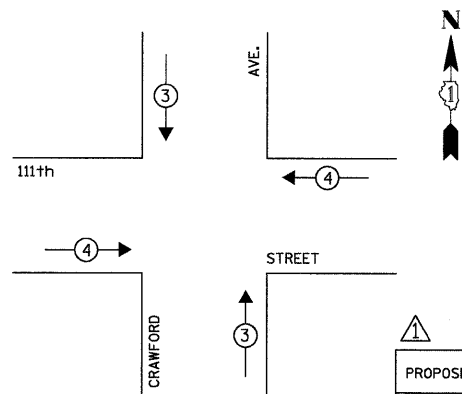
LEGEND

- DUAL ENTRY PHASE
- PEDESTRIAN MOVEMENT
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

DUAL ENTRY - ALL LEGS
PROTECTED/PERMITTED LEFT TURN PHASING

EMERGENCY VEHICLE PREEMPTION SEQUENCE



| PROPOSED EMERGENCY VEHICLE PREEMPTORS | | |
|---------------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR | 3 | 4 |
| MOVEMENT | ↓ ↑ | ← → |



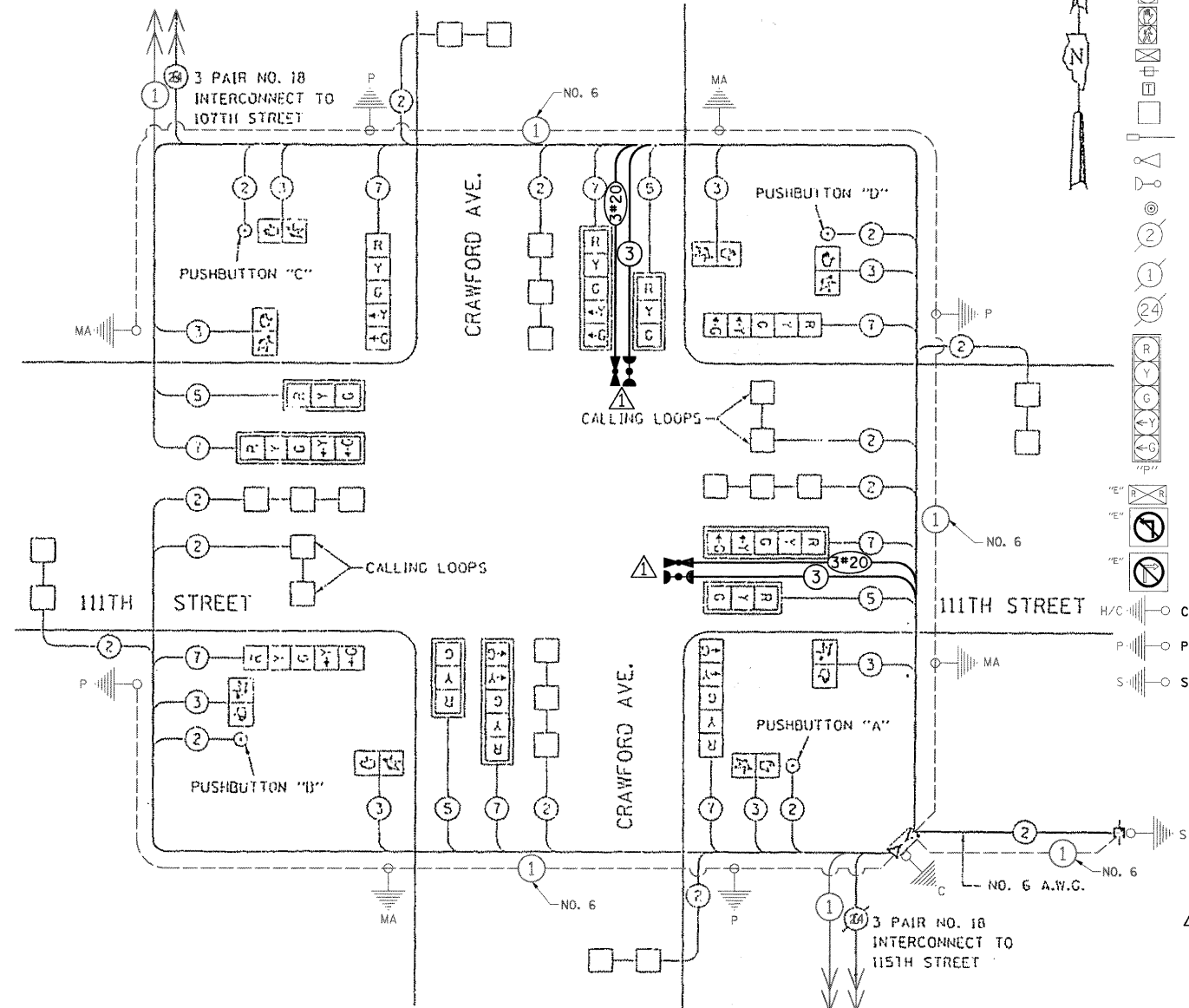
THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE "OPTICOM" TO MATCH THE EXISTING SYSTEM AND MUNICIPAL REQUIREMENTS



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 SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

CABLE PLAN LEGEND

- | | |
|--|---|
| | 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 INSTALLATION |
| | 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) |
| | 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 |
| | EMERGENCY VEHICLE LIGHT DETECTOR |
| | CONFIRMATION BEACON |



CABLE DIAGRAM

NOT TO SCALE

PUSHBUTTON NOTES:

- 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

SCHEDULE OF QUANTITIES

| ITEM | UNIT | TOTAL |
|---|------|-------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C | FOOT | 258 |
| LIGHT DETECTOR | EACH | 2 |
| LIGHT DETECTOR AMPLIFIER | EACH | 1 |
| MODIFY EXISTING CONTROLLER CABINET | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED | FOOT | 258 |
| TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 | EACH | 1 |

| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | TOTAL WATTAGE | |
|--|--------------|----------|-----|---------------|---------|
| TYPE | NO. OF LAMPS | WATTAGE | | | |
| | | KINCAND. | LED | % OPERATION | |
| SIGNAL (RED) | 12 | 135 | | 0.50 | 810.00 |
| (YELLOW) | 12 | 135 | | 0.25 | 405.00 |
| (GREEN) | 12 | 135 | | 0.25 | 405.00 |
| ARROW | 16 | 135 | | 0.10 | 216.00 |
| PED. SIGNAL | 8 | 90 | | 1.00 | 720.00 |
| CONTROLLER | 1 | 100 | | 1.00 | 100.00 |
| ILLUM. SIGN | - | 252 | | 0.05 | - |
| FLASHER | | | | 0.50 | - |
| ENERGY COSTS TO: | | | | TOTAL = | 2656.00 |

| 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"HL-2" |
| E - 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 (4.5) | 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) |

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3575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

| REVISIONS | |
|-----------|---------|
| NAME | DATE |
| CBBEL | 6-27-08 |

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE DIAGRAM
PHASE DESIGNATION DIAGRAM
SCHEDULE OF QUANTITIES
111TH STREET AT CRAWFORD AVENUE
SCALE: NOT TO SCALE DRAWN
DATE: 1-18-97 CHECKED