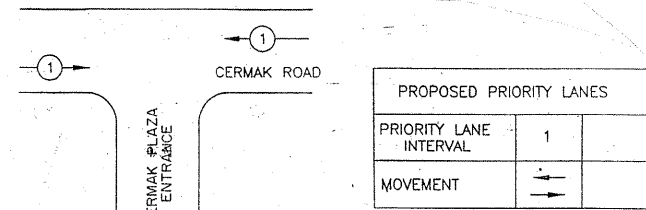


CABLE PLAN LEGEND

EXISTING PROPOSED

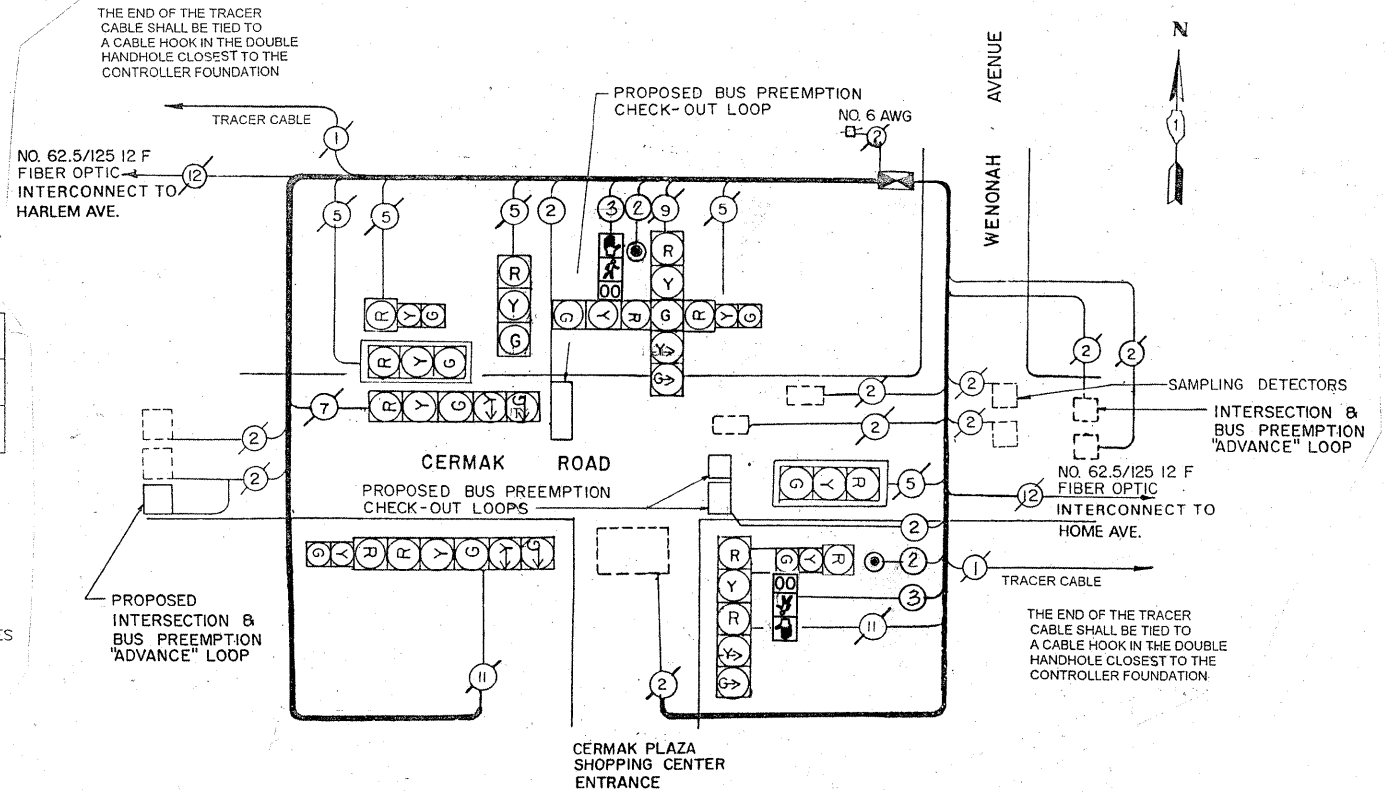
| | | |
|--|--|---|
| | | 8" (200mm) |
| | | TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | | 12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE CONNECTION |
| | | MAGNETIC DETECTOR |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | 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 MM12F |
| | | SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD |

BUS PREEMPTION SEQUENCE NOTES FOR DUAL ENTRY OPERATION - ALL LEGS



NOTES:

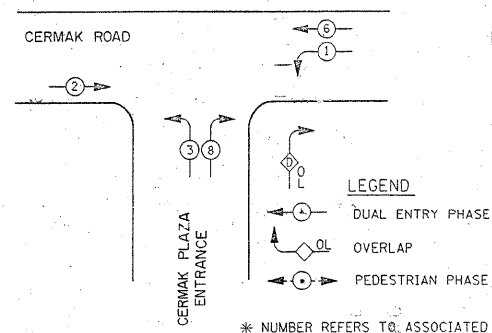
- ONCE PREEMPTION HAS BEEN CALLED, TERMINATION OF A PHASE(S) SHALL BE IDENTICAL TO THE NORMAL SEQUENCES OF OPERATION'S TERMINATION OF A PHASE(S) AS DESCRIBED IN STANDARD 2393.
- CONTINUATION OR TERMINATION OF ALL RIGHT TURN OVERLAPS SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S CONTINUATION OR TERMINATION OF RIGHT TURN OVERLAPS AS DESCRIBED IN THE CLEARANCE NOTES FOR RIGHT TURN OVERLAPS.
- TERMINATION OF ALL PEDESTRIAN PHASES SHALL INCLUDE A FULL FLASHING "DON'T WALK" INTERVAL.
- IF ALL RED CLEARANCE IS USED IN THE NORMAL SEQUENCE OF OPERATION, IT MUST BE DISPLAYED AFTER THE YELLOW CLEARANCE INTERVAL WHEN ENTERING OR LEAVING THE PREEMPTION SEQUENCE.



CABLE PLAN

CONTROLLER SEQUENCE

REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



PHASE DESIGNATION DIAGRAM

DUAL ENTRY PROTECTED/PERMITTED LEFT TURN PHASING WITH RIGHT TURN OVERLAPS

RIGHT TURN OVERLAP PHASE DESIGNATION

| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE | DISPLAY |
|----------------|------------------|-----------------|---------|
| D | 8 | 1 | 8 |

DISPLAY - THE YELLOW RIGHT ARROW OF THE OVERLAP SHALL BE INHIBITED DURING THE PERMISSIVE PHASE'S YELLOW INTERVAL. THE GREEN RIGHT ARROW OF THE OVERLAP SHALL BE INHIBITED DURING THE PERMISSIVE PHASE'S GREEN INTERVAL.

CLEARANCE NOTES FOR RIGHT TURN OVERLAPS WITH 5-SECTION RIGHT TURN SIGNAL HEAD DISPLAYS

- CONTINUATION OF AN OVERLAP DURING ITS PERMISSIVE PHASE SHALL BE WITH A CIRCULAR YELLOW DISPLAYED TOGETHER WITH A GREEN RIGHT ARROW WHEN FOLLOWED BY THAT OVERLAP'S PROTECTED PHASE.
- TERMINATION OF AN OVERLAP DURING ITS PERMISSIVE PHASE SHALL BE WITH A CIRCULAR YELLOW WHEN NOT FOLLOWED BY THAT OVERLAP'S PROTECTED PHASE.
- CONTINUATION OF AN OVERLAP DURING ITS PROTECTED PHASE SHALL BE WITH A CIRCULAR RED DISPLAYED TOGETHER WITH A GREEN RIGHT ARROW WHEN FOLLOWED BY THAT OVERLAP'S PERMISSIVE PHASE.
- TERMINATION OF AN OVERLAP DURING ITS PROTECTED PHASE SHALL BE WITH A CIRCULAR RED DISPLAYED TOGETHER WITH A YELLOW RIGHT ARROW WHEN NOT FOLLOWED BY THAT OVERLAP'S PERMISSIVE PHASE.

TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

| PAY ITEM | UNIT | QUANTITY |
|--|---------|----------|
| COMBINATION CURB AND GUTTER REMOVAL | FOOT | 16 |
| SIDEWALK REMOVAL | SQ. FT. | 90 |
| PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | SQ. FT. | 70 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| PEDESTRIAN PUSH-BUTTON | EACH | 2 |
| MODIFY EXISTING CONTROLLER | EACH | 1 |
| PEDESTRIAN SIGNAL HEAD, I.E.D. 1-FACE BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2 |
| THERMOPLASTIC PAVEMENT MARKING - LINE 12" | SQ. FT. | 208 |
| THERMOPLASTIC PAVEMENT MARKING - LINE 24" | SQ. FT. | 80 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 256 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 262 |

| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | | TOTAL WATTAGE |
|--|-----------|----------------|-------------|-------------|---------------|
| TYPE | NO. LAMPS | WATTAGE INCAND | WATTAGE LED | % OPERATION | |
| SIGNAL (RED) | 12 | 135 | 17 | 0.50 | 810 |
| (YELLOW) | 12 | 135 | 25 | 0.25 | 405 |
| (GREEN) | 12 | 135 | 15 | 0.25 | 405 |
| ARROW | 5 | 135 | 12 | 0.10 | 108 |
| PED. SIGNAL | 2 | 90 | 25 | 1.00 | 100 |
| CONTROLLER | 1 | 100 | 100 | 1.00 | 100 |
| ILLUM. SIGN | | 84 | 35 | 0.05 | |
| FLASHER | | 135 | 25 | 0.50 | |
| TOTAL = | | | | | 1928 |

| | | | |
|--|-----------------------------|------------|-----------|
| FILE NAME = | USER NAME = kanthaphixybc | DESIGNED - | REVISED - |
| 01\pw_work\pwsdot\kanthaphixybc\dms92341\si061A002.DGN | | DRAWN - | REVISED - |
| | PLOT SCALE = 50.0000' / IN. | CHECKED - | REVISED - |
| | PLOT DATE = 12/4/2008 | DATE - | REVISED - |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN - PHASE DESIGNATION DIAGRAM CERMMAK ROAD (22ND St.) @ WENONAH AVENUE

| | | | | |
|--------------------|---------------------|-------------|---|-------------|
| F.A.U. RTE. 1453 | SECTION 2008-079 TS | COUNTY COOK | TOTAL SHEETS 8 | SHEET NO. 8 |
| CONTRACT NO. 60F81 | | | FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT | |

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