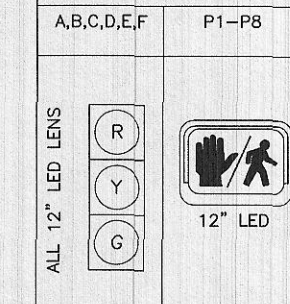


MILL STREET AT COTTAGE STREET LOCATION 3

| QUANTITY | DESCRIPTION |
|----------|--|
| 1 | TRAFFIC CONTROLLER & CABINET NEMA TS2-TYPE 1 |
| 1 | ASSEMBLY w/FOUNDATION & ELECTRIC METER |
| 1 | OVERHEAD SERVICE CONNECTION TO U.P. |
| 1 | 25' MAST ARM ASSEMBLY, BASE & FDN. |
| 1 | 20' MAST ARM ASSEMBLY, BASE & FDN. |
| 1 | 15' MAST ARM ASSEMBLY, BASE & FDN. |
| 6 | SIGNAL HEAD, 3 SECTION LED |
| 1 | SIGNAL POST - 8 FT. & FOUNDATION |
| 8 | INTERNATIONAL SYMBOL PEDESTRIAN HOUSING LED |
| 4 | PEDESTRIAN PUSH BUTTON, SIGN & SADDLE |
| 6 | QUADRUPOLE LOOP DETECTORS (6'x20') |
| 2 | DUAL CHANNEL PHASE SELECTOR (PREEMPTION) |
| 3 | UNIDIRECTIONAL SINGLE CHANNEL OPTICAL DETECTOR (RECEIVER)-PREEMPTION |
| 4 | LOOP DETECTOR AMPLIFIERS |
| 1 | EMERGENCY PREEMPTION CONFIRMATION KIT |
| 2 | GEOMETRICALLY PROGRAMMED LOUVERS |

PLUS ALL MISCELLANEOUS EQUIPMENT AND MATERIAL NECESSARY TO PROVIDE A COMPLETE OPERATING TRAFFIC CONTROL SIGNAL.

PROPOSED SIGNALS



ALL OVERHEAD SIGNALS SHALL BE EQUIPPED WITH 5" LOUVERED BACKPLATES. SIGNAL HEADS KJ SHALL BE EQUIPPED WITH GEOMETRICALLY PROGRAMMED LOUVERS.

| PARAMETER | SELECTION |
|------------------------------------|-----------|
| PHASE ASSIGNMENTS | STD. NEMA |
| OVERLAPS | STD. NEMA |
| RINGS | DUAL |
| DUAL ENTRY | OFF |
| SIMULTANEOUS GAP OUT DISABLED | YES |
| ALL RED REST | OFF |
| RED REVERT - # OF SECONDS | 3 |
| MINIMUM YELLOW IN SECONDS | 3 |
| MAX II BY INTERNAL CLOCK | NO |
| NIGHT TIME FLASH BY INTERNAL CLOCK | NO |

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|-------------------------|--------------------|-----------|--------------|
| MASS | STP-0025(302) | 87 | 216 |
| PROJECT FILE NO. 605071 | | | |

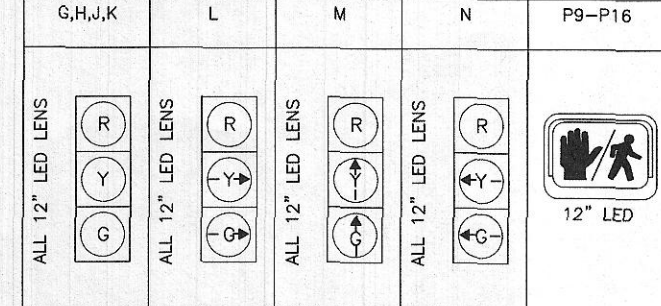
TRAFFIC SIGNAL PLAN
MILL STREET AT COTTAGE STREET LOC. 3
KEMPTON STREET AT COTTAGE STREET LOC. 4

KEMPTON STREET AT COTTAGE STREET LOCATION 4

| QUANTITY | DESCRIPTION |
|----------|--|
| 1 | TRAFFIC CONTROLLER & CABINET NEMA TS2-TYPE 1 |
| 1 | ASSEMBLY w/FOUNDATION & ELECTRIC METER |
| 1 | MASTER CONTROLLER WITH PHONE DROP |
| 1 | OVERHEAD SERVICE CONNECTION TO U.P. |
| 1 | 35' MAST ARM ASSEMBLY, BASE & FDN. |
| 1 | 30' MAST ARM ASSEMBLY, BASE & FDN. |
| 1 | 15' MAST ARM ASSEMBLY, BASE & FDN. |
| 7 | SIGNAL HEAD, 3 SECTION LED |
| 2 | SIGNAL POST - 8 FT. & FOUNDATION |
| 8 | INTERNATIONAL SYMBOL PEDESTRIAN HOUSING LED |
| 4 | PEDESTRIAN PUSH BUTTON, SIGN & SADDLE |
| 10 | QUADRUPOLE LOOP DETECTORS (6'x20') |
| 2 | DUAL CHANNEL PHASE SELECTOR (PREEMPTION) |
| 3 | UNIDIRECTIONAL SINGLE CHANNEL OPTICAL DETECTOR (RECEIVER)-PREEMPTION |
| 4 | LOOP DETECTOR AMPLIFIERS |
| 1 | EMERGENCY PREEMPTION CONFIRMATION KIT |
| 2 | GEOMETRICALLY PROGRAMMED LOUVERS |

PLUS ALL MISCELLANEOUS EQUIPMENT AND MATERIAL NECESSARY TO PROVIDE A COMPLETE OPERATING TRAFFIC CONTROL SIGNAL.

PROPOSED SIGNALS



ALL OVERHEAD SIGNALS SHALL BE EQUIPPED WITH 5" LOUVERED BACKPLATES. SIGNAL HEADS KJ SHALL BE EQUIPPED WITH GEOMETRICALLY PROGRAMMED LOUVERS.

| PARAMETER | SELECTION |
|------------------------------------|-----------|
| PHASE ASSIGNMENTS | STD. NEMA |
| OVERLAPS | STD. NEMA |
| RINGS | DUAL |
| DUAL ENTRY | OFF |
| SIMULTANEOUS GAP OUT DISABLED | YES |
| ALL RED REST | OFF |
| RED REVERT - # OF SECONDS | 3 |
| MINIMUM YELLOW IN SECONDS | 3 |
| MAX II BY INTERNAL CLOCK | NO |
| NIGHT TIME FLASH BY INTERNAL CLOCK | NO |