

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|-------------|--------------|-----------|
| 326 | * | KENDALL | 931 | 590 |
| STA. N/A | | TO STA. N/A | | |
| FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT | | | | |

*5CS, 13C, 108, 109IR

ELECTRICAL LOAD CHART

IL ROUTE 47

| INDICATION | NUMBER | WATTAGE EACH | BURN TIME (%) |
|--------------|--------|--------------|---------------|
| RED | 8 | 12 | 60 |
| YELLOW | 8 | 32 | 5 |
| GREEN | 8 | 12 | 35 |
| YELLOW ARROW | 2 | 12 | 5 |
| GREEN ARROW | 2 | 11 | 10 |
| Hand icon | 2 | 7 | 5 |
| Hand icon | 2 | 7 | 95 |

IL ROUTE 126

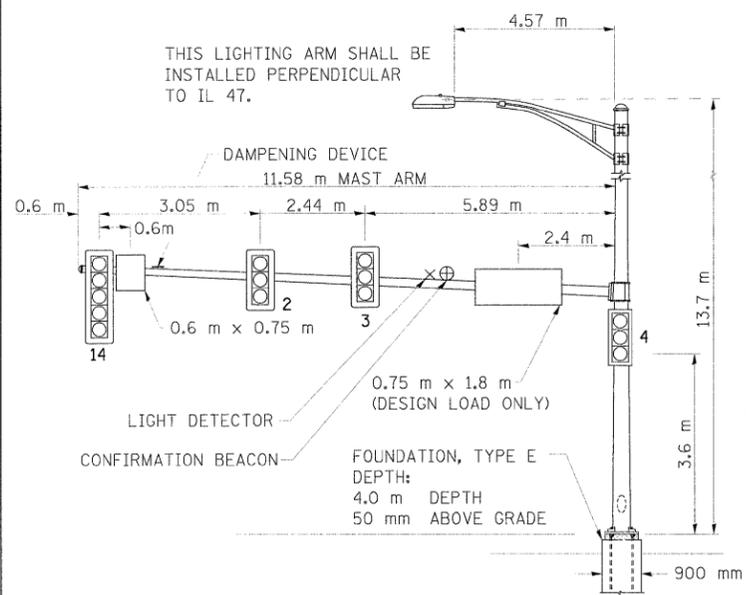
| | | | |
|--------------|---|----|----|
| RED | 6 | 12 | 70 |
| YELLOW ARROW | 6 | 12 | 10 |
| GREEN ARROW | 6 | 11 | 5 |
| Hand icon | 4 | 7 | 5 |
| Hand icon | 4 | 7 | 95 |

TRAFFIC SIGNAL CABINET

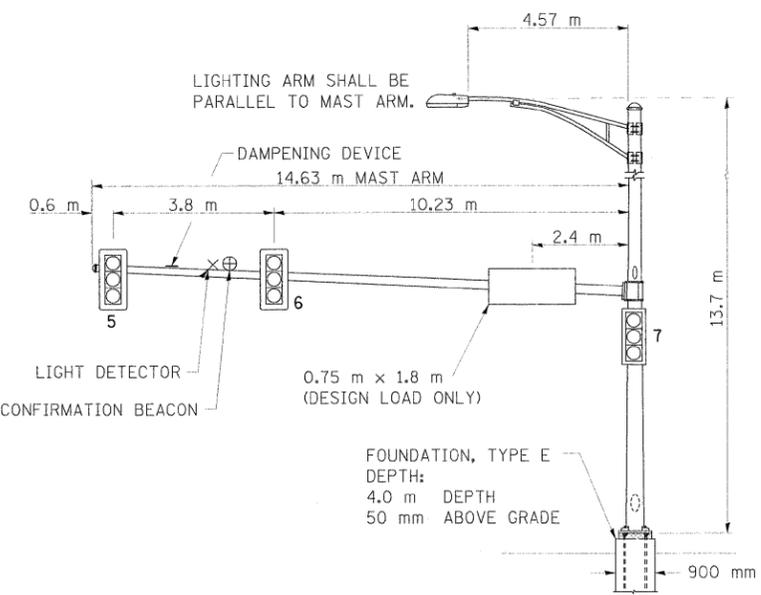
| ITEM | NUMBER | WATTAGE EACH | BURN TIME (%) |
|------------------------------|--------|--------------|---------------|
| CONTROLLER | 1 | 6 | 100 |
| INDUCTIVE LOOP DETECTOR | 8 | 1.5 | 100 |
| UNINTERRUPTIBLE POWER SUPPLY | 1 | 50 | 100 |
| LIGHT DETECTOR AMPLIFIER | 1 | 1.5 | 100 |

HIGHWAY LIGHTING

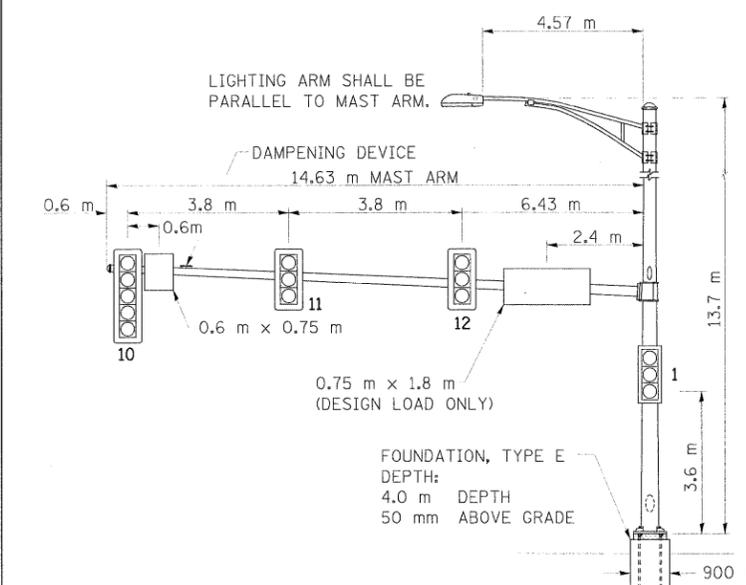
| ITEM | NUMBER | WATTAGE EACH | BURN TIME (%) |
|------------|--------|--------------|---------------|
| CONTROLLER | 1 | 6 | 100 |
| LUMINAIRE | 3 | 400 | 45 |



MAST ARM NORTHWEST QUADRANT (A)



MAST ARM NORTHEAST QUADRANT (B)



MAST ARM SOUTHWEST QUADRANT (E)

- NOTES:**
- WORD "GRADE" IS TO BE INTERPRETED AS TOP OF CURB. TOP OF FOUNDATION SHALL NOT BE EXPOSED MORE THAN 100 mm ABOVE THE SURROUNDING GROUND.
 - THREE ROUTE SIGNS WILL BE FURNISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
 - ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
 - FOUNDATION SHOULD BE 50mm ABOVE GRADE OR 0.35m ABOVE CENTERLINE OF ROADWAY, WHICHEVER IS HIGHER.

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

DETECTOR LOOP INDUCTANCE CHART

| DETECTOR LOOP SYSTEM | TURNS PER LOOP | INDUCTANCE READING (MICROHENRIES) | FREQUENCY (HERTZ) | J PIN STATUS |
|----------------------|----------------|-----------------------------------|-------------------|--------------|
| A | 4 | 596 | 24,992 | OFF |
| B | 6 | 642 | 24,087 | ON |
| C | 4 | 886 | 20,491 | ON |
| D | 4 | 634 | 24,217 | OFF |
| E | 4 | 634 | 24,217 | OFF |
| F | 4 | 784 | 21,778 | ON |
| G | 4 | 553 | 25,917 | OFF |
| H | 6 | 608 | 24,759 | ON |

PEDESTRIAN CROSSING SIGN DETAIL

COUNT-DOWN PEDESTRIAN SIGN R10-3e TO BE USED.

4 REQUIRED.

DIMENSIONS: 230mm x 380mm (TYP.)
 LEGEND AND BORDER: NON-REFLECTORIZED BLACK
 BACKGROUND: RETROREFLECTIVE WHITE
 NUMBERS AND SYMBOLS: RETROREFLECTIVE ORANGE

ONE SIGN SHALL BE PROVIDED FOR EACH PUSH-BUTTON. ORIENTATION OF DIRECTIONAL ARROWS TO BE DETERMINED BY PUSH-BUTTON LOCATION.

ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL CONSTRUCTION. ALL MOUNTING BOLTS SHALL BE HEX HEAD.

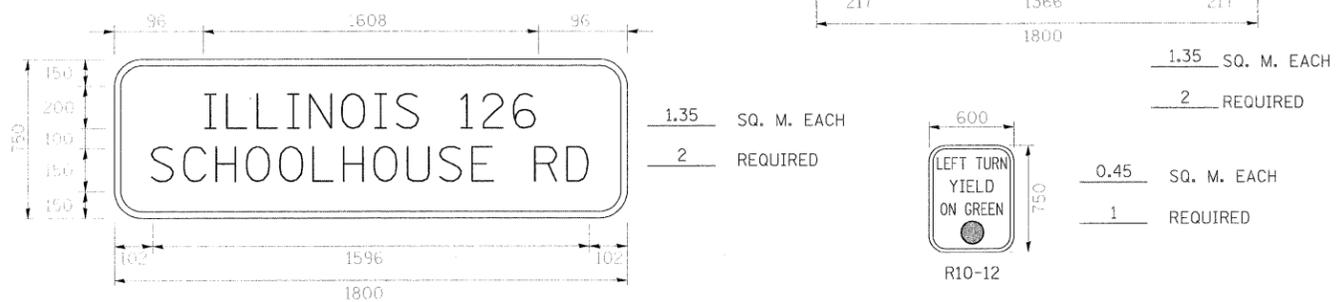
MATERIALS AND INSTALLATION OF THIS SIGN SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTON.

STREET SIGN DETAIL

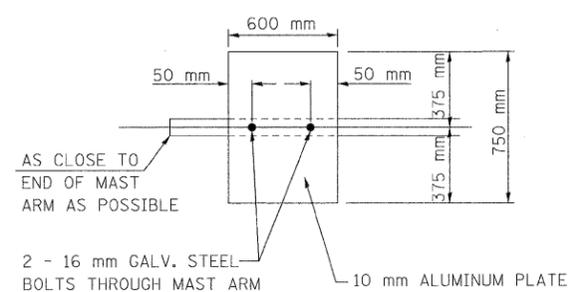
THESE STREET NAME SIGNS SHALL BE PLACED ON THE MAST ARMS PARALLEL TO THE RESPECTIVE ROUTE AS DIRECTED BY THE ENGINEER.

STREET NAME SIGNS:

- TYPE ZZ SHEETING REQUIRED
- WHITE/GREEN BACKGROUND
- STYLE (d)-15 mm BORDER
- 200 mm SERIES D LETTERS (TOP ROW)
- 150 mm SERIES C LETTERS (BOTTOM ROW)
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



NOTE: DAMPENING DEVICE SHALL CONSIST OF A 600mm X 750mm TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 750mm LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



DAMPENING PLATE DETAIL
(TOP VIEW) INCIDENTAL TO MAST ARM QUANTITY

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
| | |
| | |
| | |
| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAST ARM LOADING DIAGRAM
 ELECTRICAL LOAD CHART
 SIGN DETAILS
 IL. 47 (BRIDGE ST.)/
 IL. 126 (SCHOOLHOUSE RD.)

SCALE: NONE
 DATE: MARCH, 2010

DRAWN BY: SL
 CHECKED BY: KC

PLOT DATE = 8/11/2011
 FILE NAME = h:\5122\design\590.1126_mast.dgn
 PLOT SCALE = 6:3000 m / IN.
 USER NAME = JOSEPH.SOL.