

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	627
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

ELECTRICAL LOAD CHART

US ROUTE 34

INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	10	12	60
YELLOW	10	32	5
GREEN	10	12	35
YELLOW ARROW	4	12	5
GREEN ARROW	4	11	10
↑	4	7	5
↓	4	7	95

CENTER PARKWAY

RED	9	12	60
YELLOW	9	32	5
GREEN	9	12	35
YELLOW ARROW	4	12	5
GREEN ARROW	4	11	10
↑	4	7	5
↓	4	7	95

TRAFFIC SIGNAL CABINET

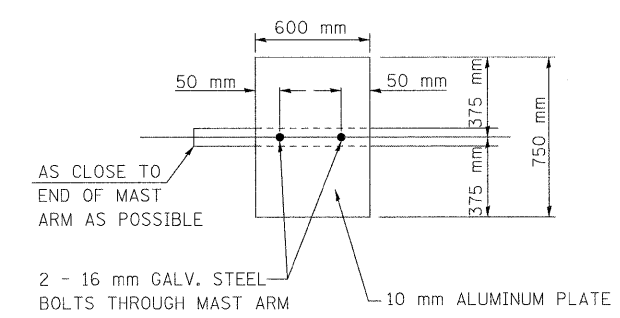
ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
INDUCTIVE LOOP DETECTOR	13	1.5	100
UNINTERRUPTIBLE POWER SUPPLY	1	50	100
LIGHT DETECTOR AMPLIFIER	1	1.5	100

HIGHWAY LIGHTING

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
LUMINAIRE	4	250	45

- 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.
 - ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
 - FOUNDATION SHOULD BE 50mm ABOVE GRADE OR 0.35m ABOVE CENTERLINE OF ROADWAY, WHICHEVER IS HIGHER.

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.



PEDESTRIAN CROSSING SIGN DETAIL

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

8 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.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAST ARM LOADING DIAGRAM
 ELECTRICAL LOAD CHART
 SIGN DETAILS
 US ROUTE 34 (VETERANS PKWY)/
 CENTER PARKWAY

SCALE: NONE
 DATE: MARCH, 2010
 DRAWN BY: SL
 CHECKED BY: KC

DETECTOR LOOP INDUCTANCE CHART

DETECTOR LOOP SYSTEM	TURNS PER LOOP	INDUCTANCE READING (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	4	529	26,518	OFF
B	5	438	29,163	ON
C	4	789	21,714	ON
D	4	514	26,920	OFF
E	5	431	29,399	ON
F	4	808	21,457	ON
G	4	573	25,480	OFF
H	6	624	24,433	ON
I	4	833	21,132	ON
J	4	569	25,586	OFF
K	4	341	33,051	ON
L	4	284	36,192	ON
M	4	804	21,510	ON

GRANULAR SOILS ARE EXPECTED TO BE ENCOUNTERED AT THIS INTERSECTION.

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

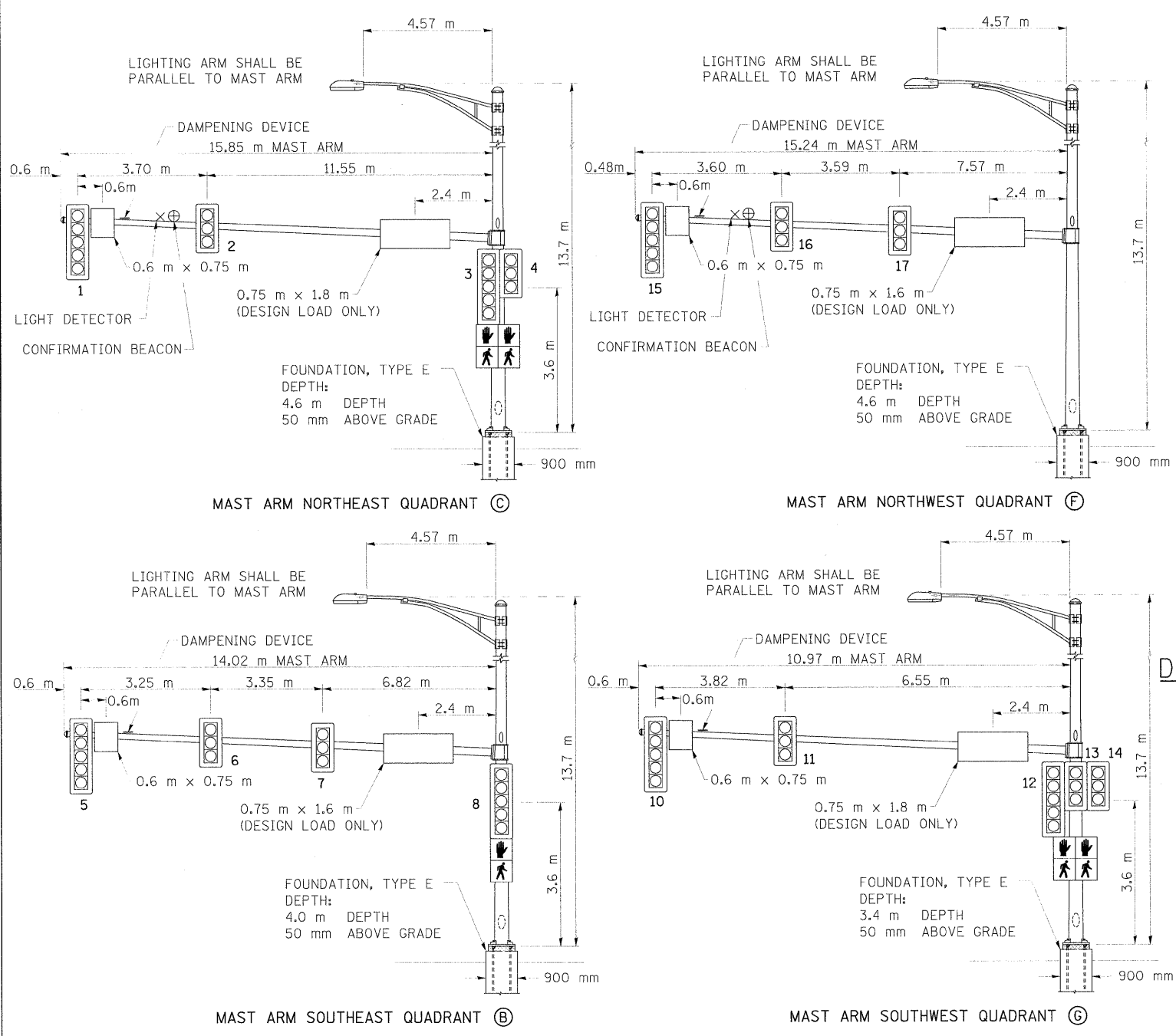
NOTE: TRAILBLAZER SIGNS AS SHOWN SHALL BE PLACED ON MAST ARM POSTS AS DIRECTED BY THE ENGINEER.

EAST 0.18 SQ. M. EACH
 1 REQUIRED

M3-4 SIGN
 600 x 300

34 0.36 SQ. M. EACH
 1 REQUIRED

M1-4 SIGN
 600 x 600



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:
 1. TYPE ZZ SHEETING REQUIRED
 2. WHITE/GREEN BACKGROUND
 3. STYLE (d)-15 mm BORDER
 4. 200 mm SERIES D LETTERS EXCEPT "VETERANS PKWY" USE SERIES C 150 mm
 5. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

US ROUTE 34 VETERANS PKWY 1.35 SQ. M. EACH
 2 REQUIRED

CENTER PARKWAY 1.24 SQ. M. EACH
 2 REQUIRED

LEFT TURN YIELD ON GREEN 0.45 SQ. M. EACH
 4 REQUIRED

R10-12

PLOT DATE = 8/11/2011
 FILE NAME = h:\NS122\design\627center parkway_mast.dgn
 PLOT SCALE = 6:3000 m / IN.
 USER NAME = JOSEPHESOR.