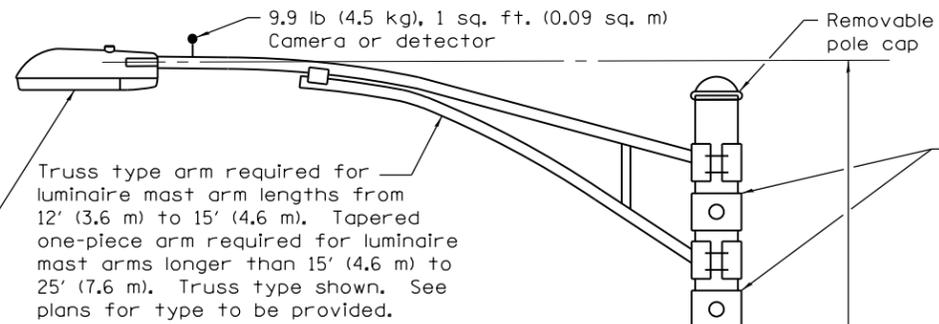


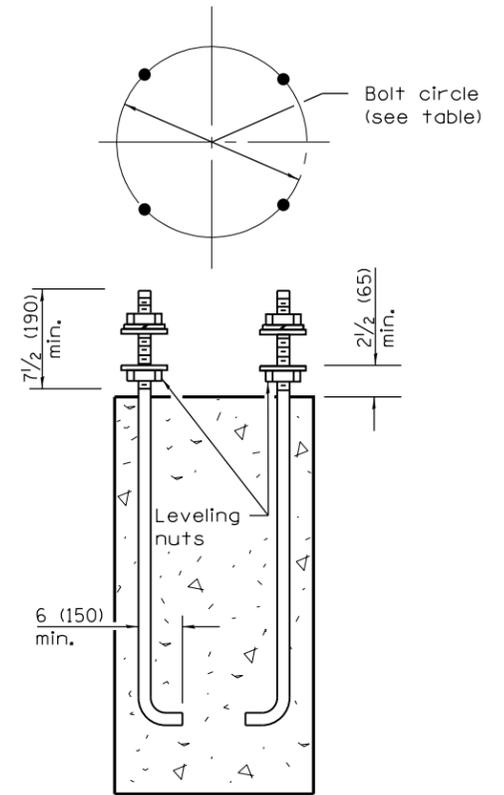
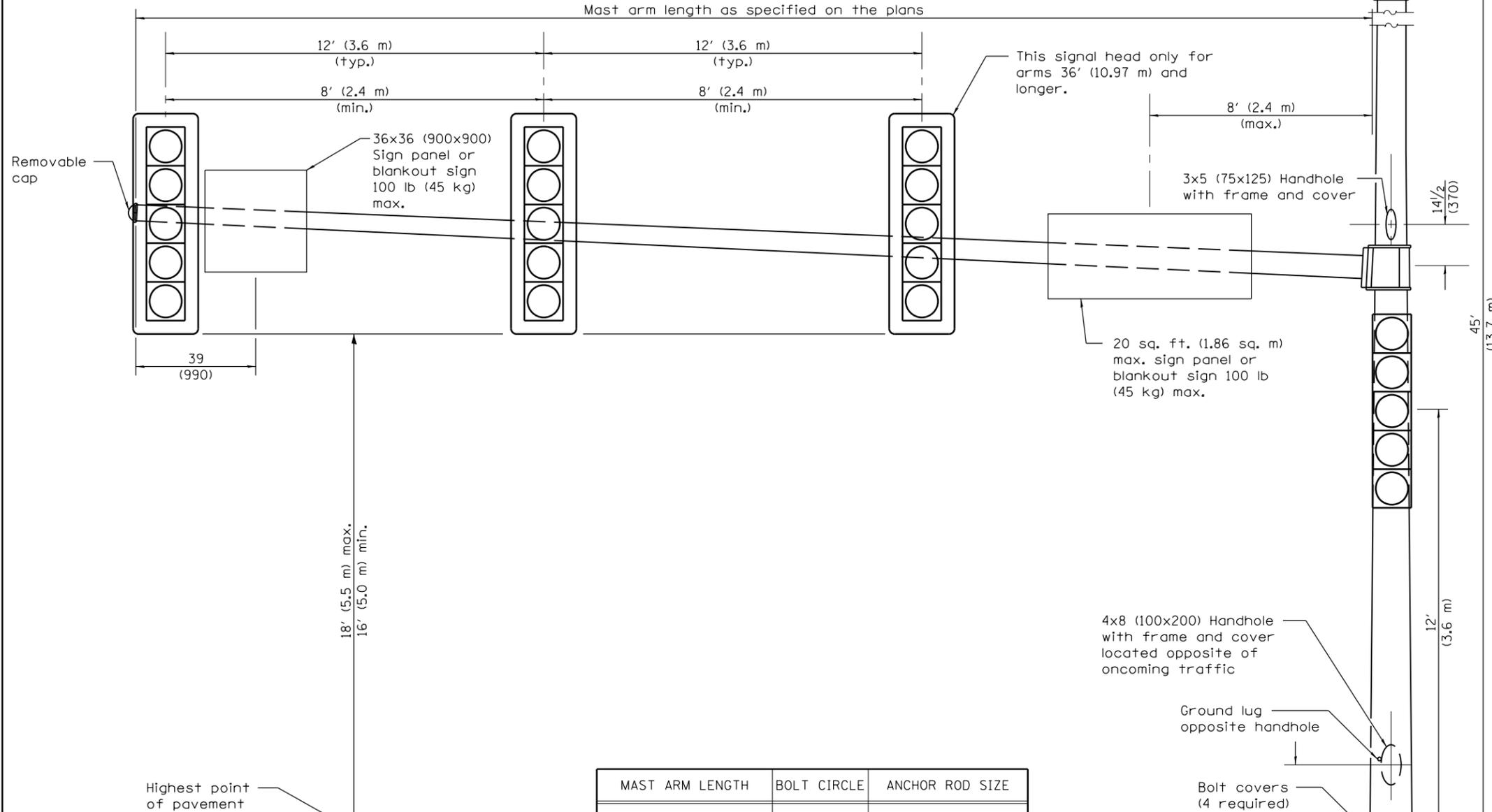
**TENON TOP FOR VERTICAL MOUNTED LUMINAIRES**

Note: The tenon top shall support a bullhorn fitting with two (twin) vertically mounted luminaires (clamp-mounted bullhorn assembly with removable pole cap acceptable). Each luminaire shall weigh 100 lb (45 kg) and have an effective projected (EPA) area of 3.85 sq. ft. (0.36 sq. m).

55 lb (25 kg), 1.6 sq. ft. (0.15 sq. m) EPA Luminaire

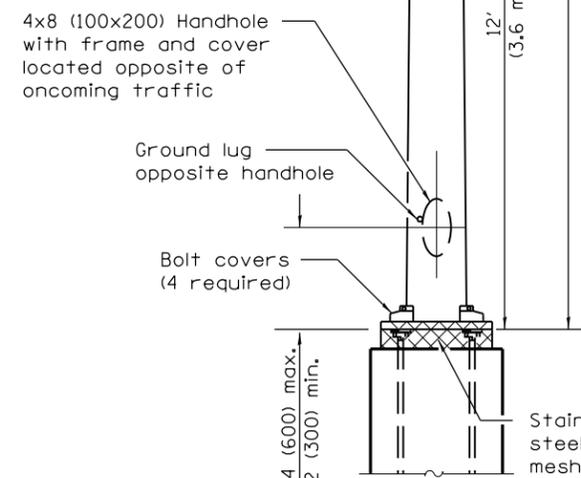


Provide second luminaire, arm and brackets at 90° when required. Luminaire and arm not shown for clarity.



**ANCHOR ROD DETAIL**

MAST ARM LENGTH	BOLT CIRCLE	ANCHOR ROD SIZE
16' thru 20' (4.87 m thru 6.10 m)	15 (380)	1 1/2 x 5' (38 x 1.5 m)
22' thru 30' (6.71 m thru 9.14 m)	18 (450)	1 1/2 x 5' (38 x 1.5 m)
32' thru 40' (9.75 m thru 12.20 m)	18 (450)	1 3/4 x 7' (44 x 2.10 m)
42' thru 55' (12.80 m thru 16.80 m)	21 (535)	1 3/4 x 7' (44 x 2.10 m)



**GENERAL NOTES**

Signal heads, sign panels, and other attachments are shown for minimum design loading purposes only. Each signal head shall weigh 80 lb (36 kg) and have a projected area of 14.7 sq. ft. (1.37 sq. m).

See standard 821101 for luminaire wiring diagram.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
4-15-16	Added sec. lum. with arm and brackets when req.
	Added ref. to std. 821101.
4-1-16	Modified luminaire arm note.
	Changed sign panel to 36x36 and 100 lb max.

**STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'**

**STANDARD 877011-07**

Illinois Department of Transportation

APPROVED April 15, 2016  
*Amy Allen*  
 ENGINEER OF OPERATIONS

APPROVED April 15, 2016  
*Marcus M. Beck*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-02  
 20-1-02