

Sheet No.
15.0

STANDARD MANHOLE COVER			
CITY OF RALEIGH			
DEPARTMENT OF PUBLIC UTILITIES			
DATE		DATE	
3-1-87	A.B.B.	3-1-87	
REV. NO.		REV. NO.	
3-30-86		3-30-86	
DATE		DATE	
3-1-87		2-2-05	
REV. NO.		REV. NO.	
3-30-86		3-30-86	

NOTES:
1. ALL MAINLINE FRAMES SHALL BE DOMESTICALLY CAST.
2. FRAME SHALL BE A MINIMUM WEIGHT OF 182 LBS. WITHIN 1/4" TOLERANCE.
3. WITHIN EASTERN 160 LBS.

5/8"x3" LAG BOLT IN HOLE
DRILLED INTO CONE DR
RATED FOR ANCHOR 5/8"x3"
NOT DIPPED GALVANIZED
LAG BOLT AND WASHER.

33 1/4"

Technical drawing of a window frame showing dimensions and components. The drawing includes a vertical dimension of 29 13/16" and a horizontal dimension of 22". A note indicates a 7 1/2" dimension. The text 'BUTYL-NEK DR' is written vertically, followed by 'APPROVED SEALANT BETWEEN FRAME AND COVER'.

Figure 1 consists of two schematic diagrams. Diagram (a) is a top view of a circular tank. It shows a central well with a diameter of 1.5 cm. The well is surrounded by an inner electrode with a diameter of 1.5 cm. The outer electrode has a diameter of 1.5 cm. The central electrode has a diameter of 1.5 cm. Diagram (b) is a side view of the tank. It shows the liquid level and the central electrode. The liquid level is indicated by a horizontal line. The central electrode is shown as a vertical line. The distance from the liquid level to the top of the central electrode is 3/4 cm. The distance from the liquid level to the bottom of the central electrode is 2 cm.

MANHOLE FRAME AND COVER
COVER 120 LBS. MINIMUM

tion System
connection and
r system as shown
instruction methods
m to the standards
Public Utilities

NOTION

A cross-sectional diagram of a composite beam. The beam consists of a top flange, a central web, and a bottom flange. The top flange is labeled "24 GA. TYPE 304L STAINLESS STEEL". The central web is labeled "TYPE 304L STAINLESS NUTS AND WASHERS". The bottom flange is labeled "FLOOR".

A technical diagram showing a cross-section of a pipe crown. A 450° cast iron saddle is positioned over the crown. The saddle is labeled "450° CAST IRON SADDLE". The pipe is labeled "PIPE CROWN" and "TYPE C304 STAINLESS STEEL, T-BOLTS". A dimension line indicates a distance of "23" from the centerline of the saddle to the edge of the pipe crown. A note "LNU" is present at the top right.

DATE	REVISIONS	DATE	REVISIONS	DATE	REVISIONS
2-9-05		3-1-87	A.B.B.		
		3-30-00			
		RRH			

MINIMUM OF 4 BOLTS PER FRAME

PIPE CROWN

45° 45°

<p>BE IDEOSTICALLY CAST</p> <p>ALL FRAMES SHALL BE A MINIMUM 1/2" THICK. ALL FRAMES SHALL BE GALVANIZED AND PAINTED WITH AN EPOXY PUBLIC ROW AND 160 LBS. WITHIN EXISTENTS.</p> <p>COVER SHALL VENT A MINIMUM OF 10" ABOVE THE GROUND SURFACE.</p> <p>ALL MANHOLE FRAMES OUTSIDE OF PAVED SURFACES SHALL BE REINFORCED TO THE COVER.</p>	<p>CITY OF RALEIGH</p> <p>DEPARTMENT OF PUBLIC UTILITIES</p> <p>STANDARD MANHOLE COVER</p>
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22' 23' 1/16" 23 1/16" 1/16"

BUTT-WELD OR APPROVED SEALANT GRADE

MANHOLE FRAME AND COVER
COVER 120 LBS. MINIMUM

MAINTENANCE AND SERVICE