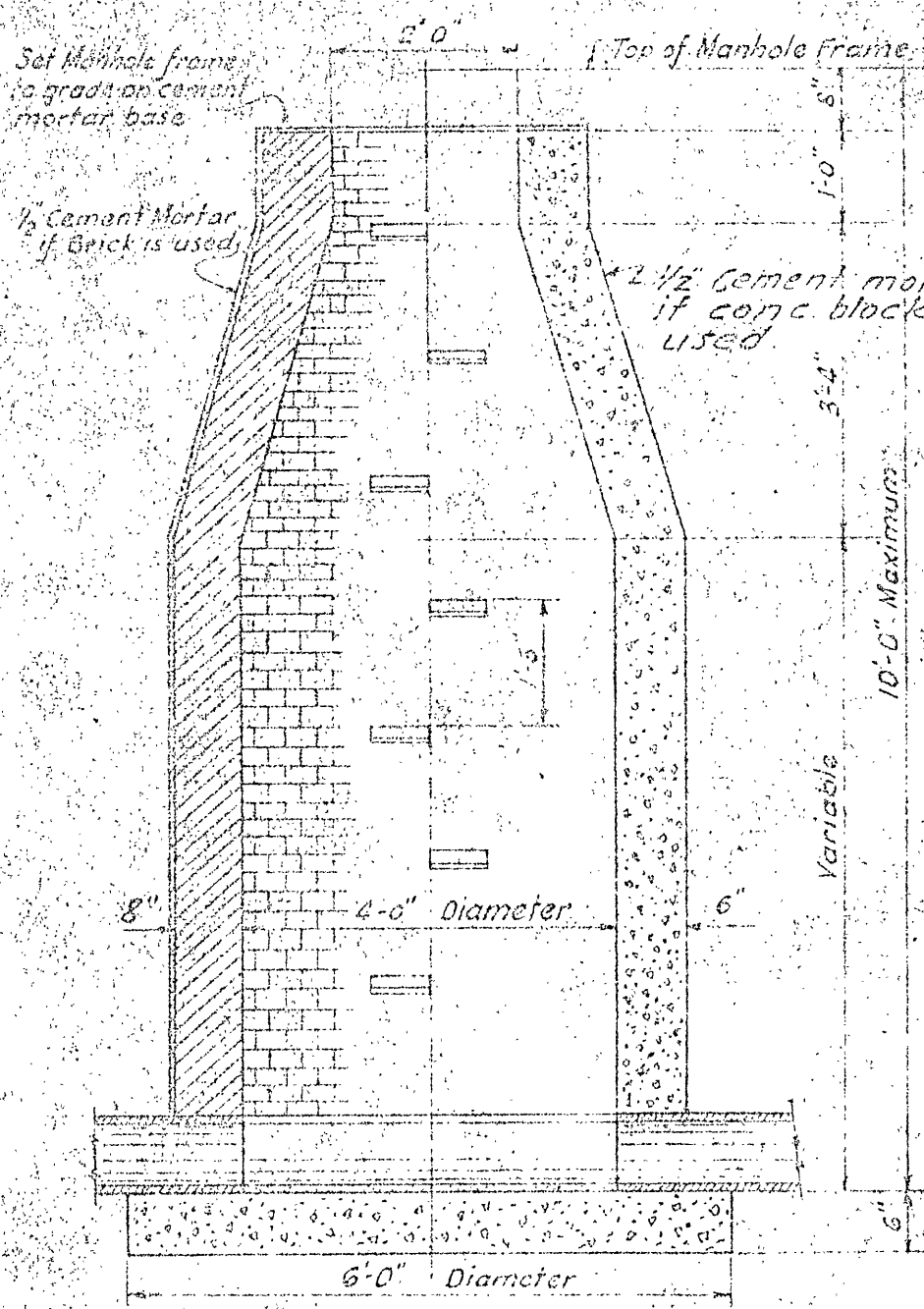
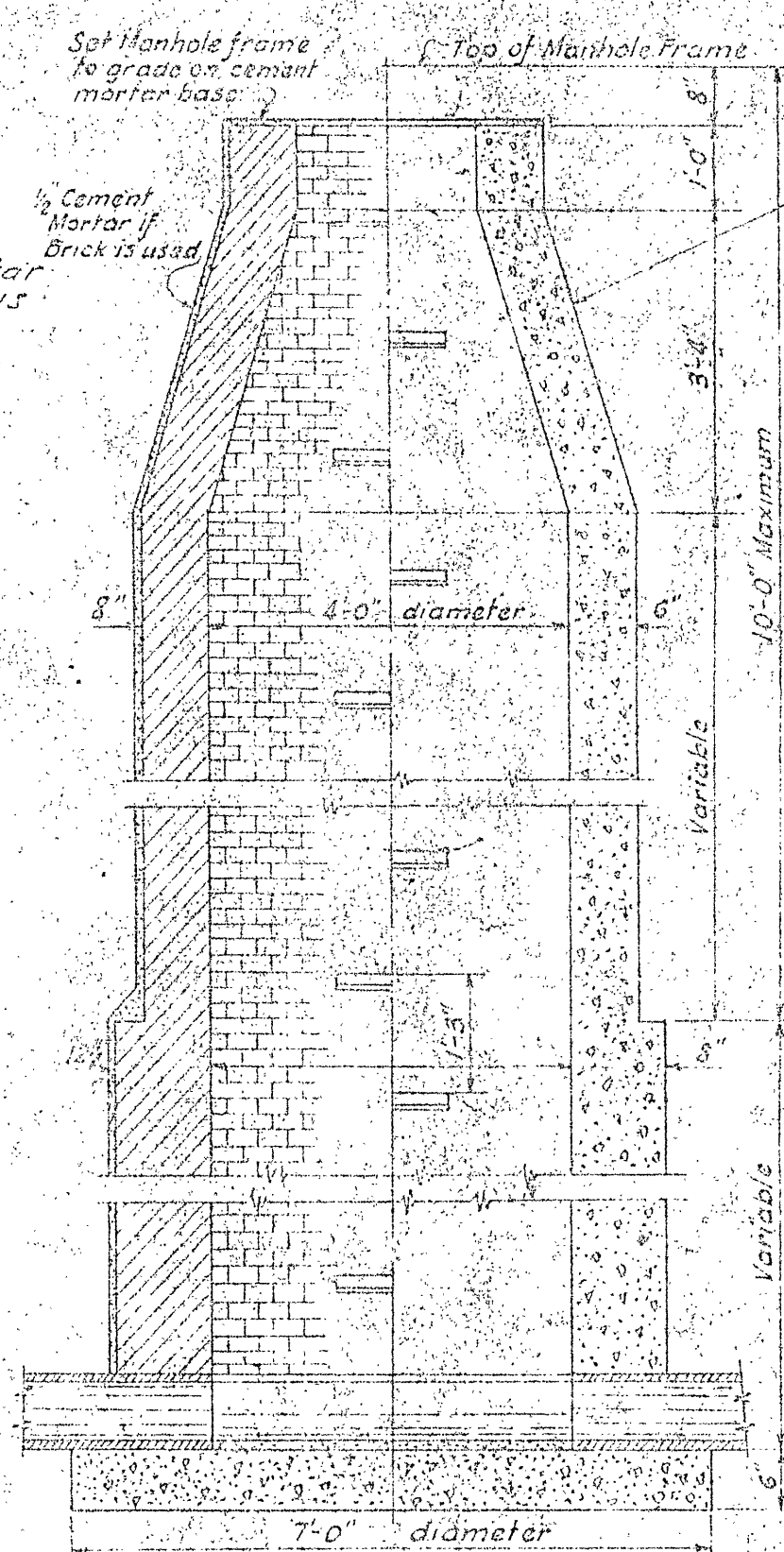


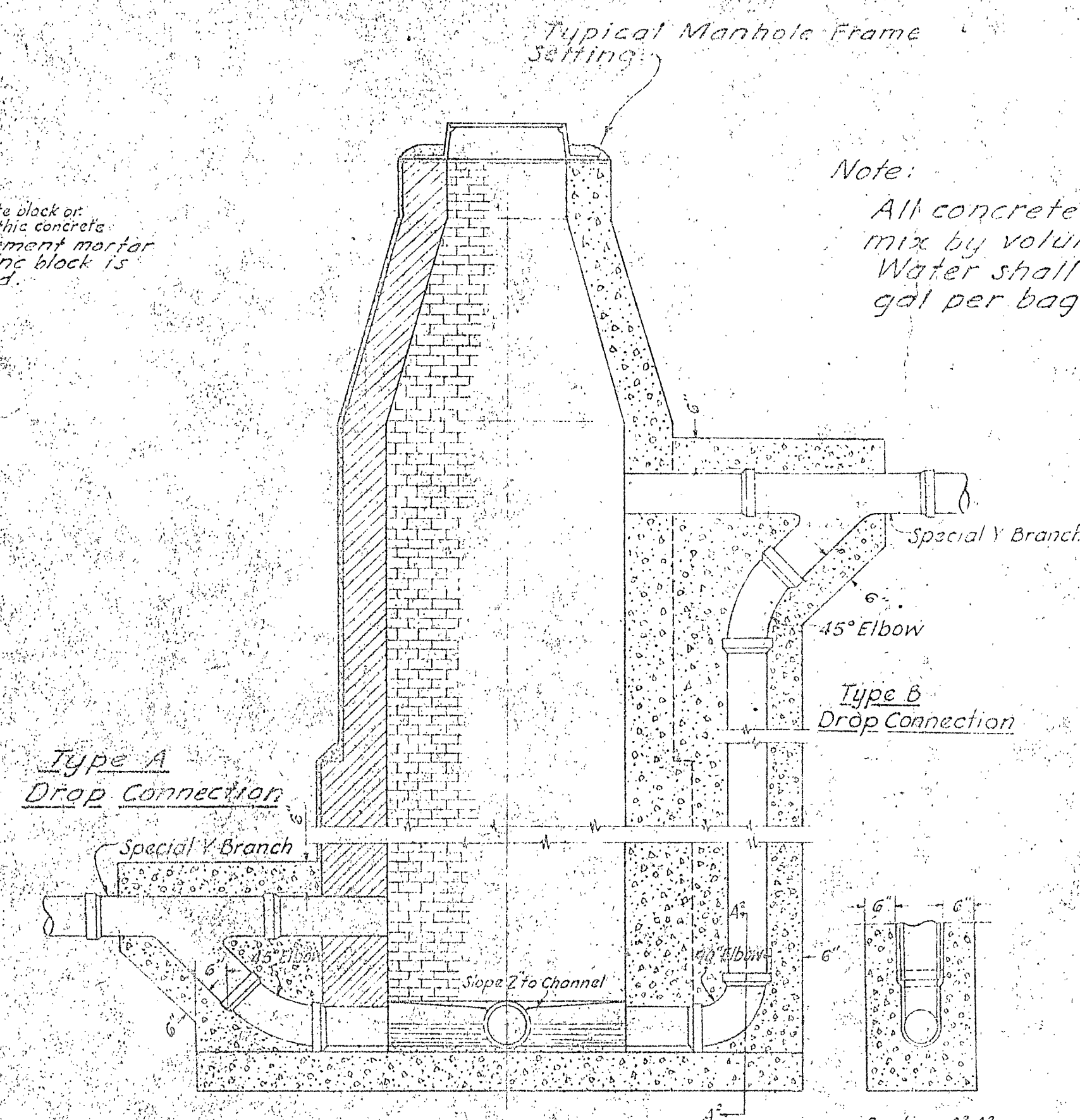


Longitudinal Section
STANDARD MANHOLE
0 to 10' DEEP

All Manholes to have concrete base
All brick laid generally as headers

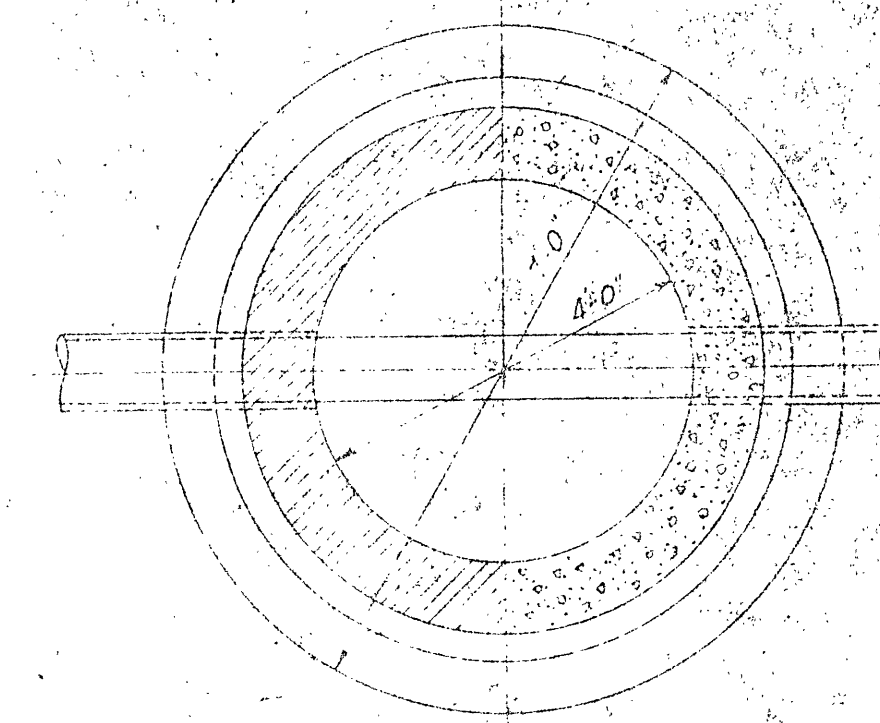


Longitudinal Section
STANDARD MANHOLE
OVER 10' DEEP

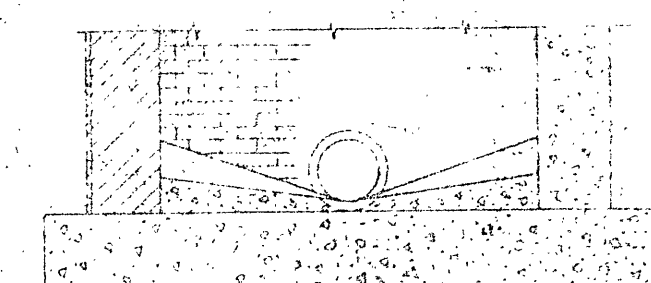


Cross Section
TYPICAL DROP CONNECTIONS
FOR ALL MANHOLES AND ALL PIPE SIZES

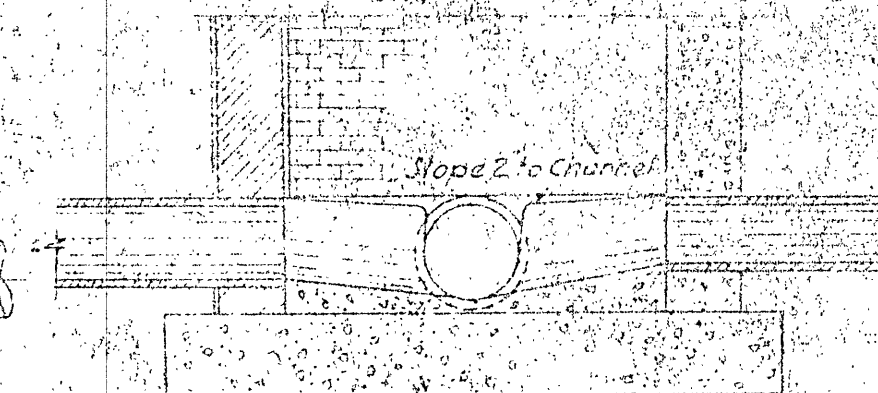
Note:
All concrete shall be 1:2:4
mix by volume.
Water shall not exceed 5.5
gal per bag of cement.



Plan
CHANNEL DIAGRAM
STANDARD MANHOLE OVER 10' DEEP

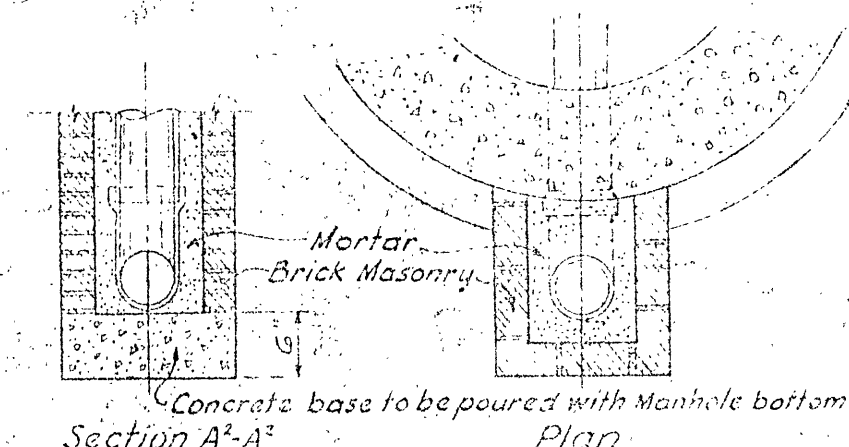


Cross Section

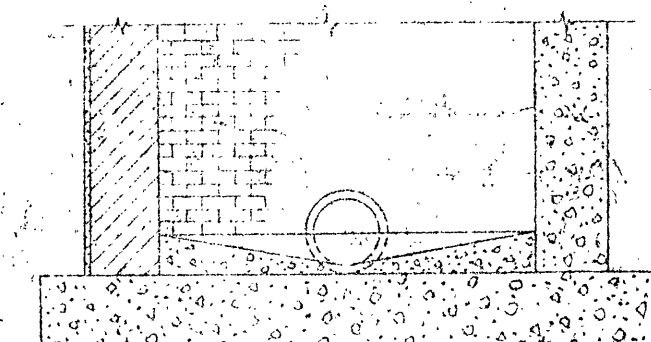


Longitudinal Section
TYPICAL LATERAL
CONNECTIONS

SINGLE TERMINAL MANHOLE
ALL MANHOLES

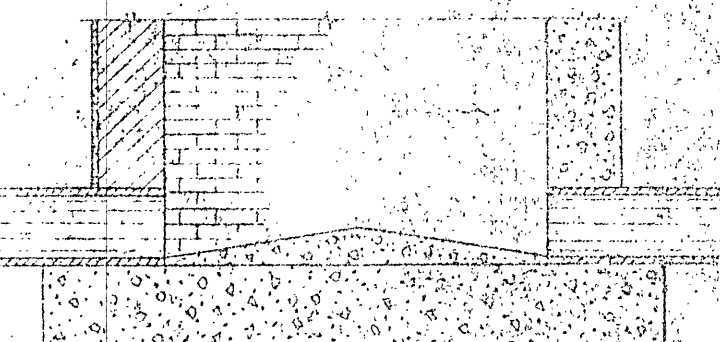


MASONRY ENCASEMENT
OF DROP CONNECTIONS

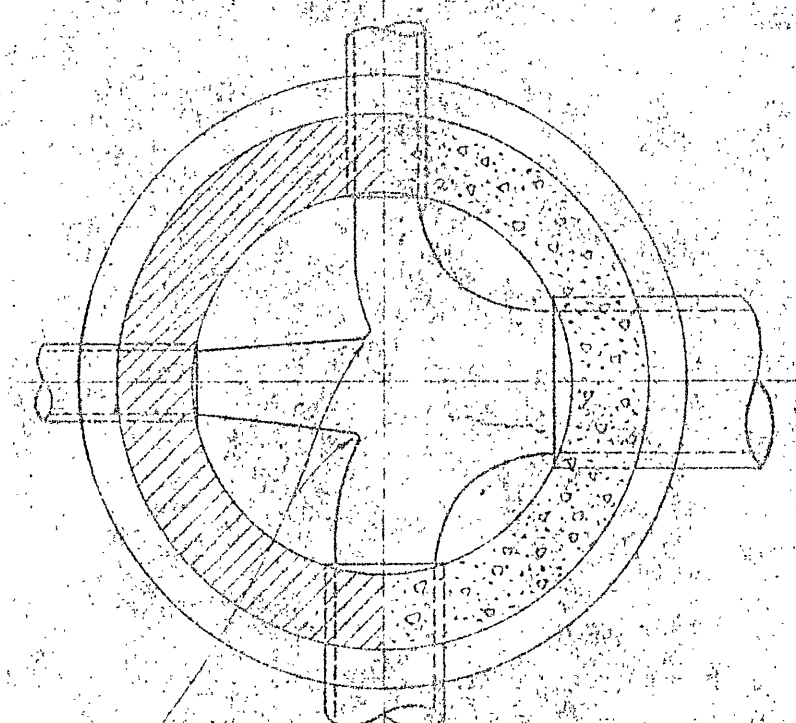
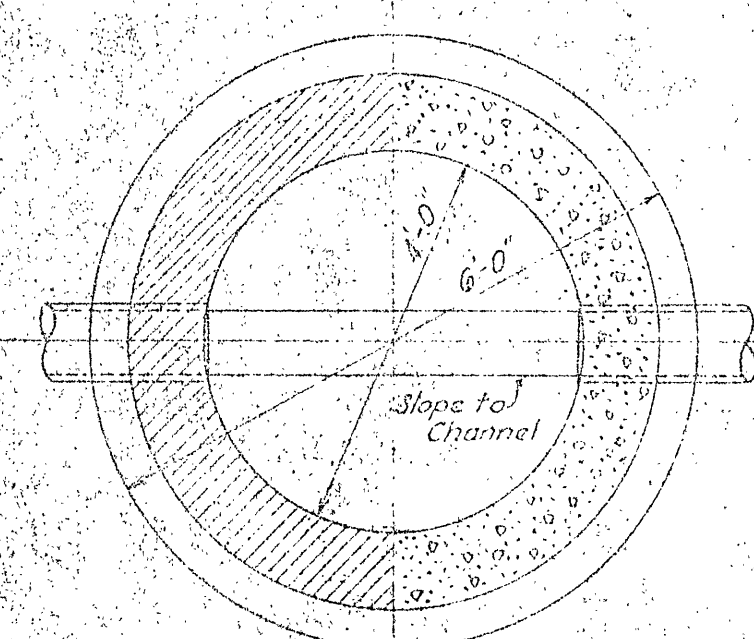


Cross Section

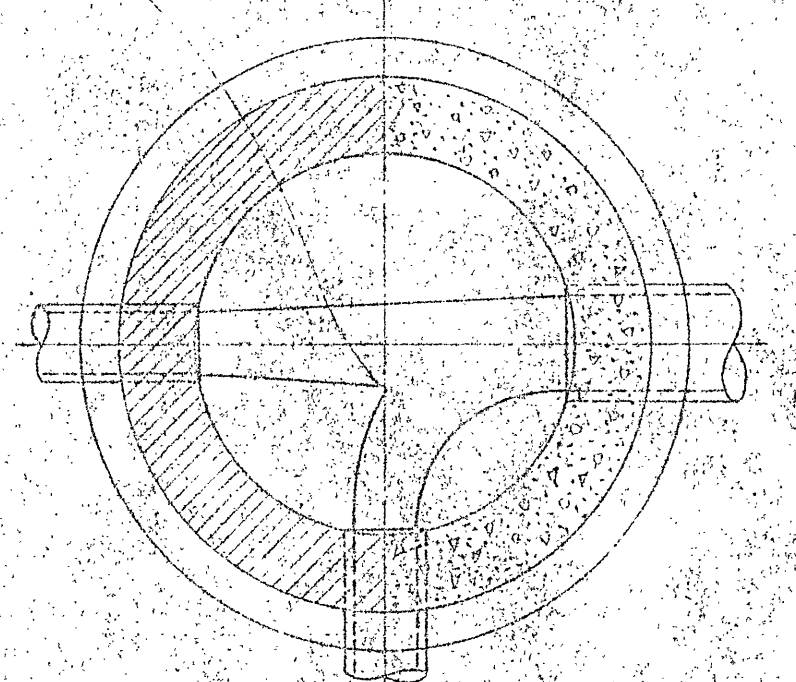
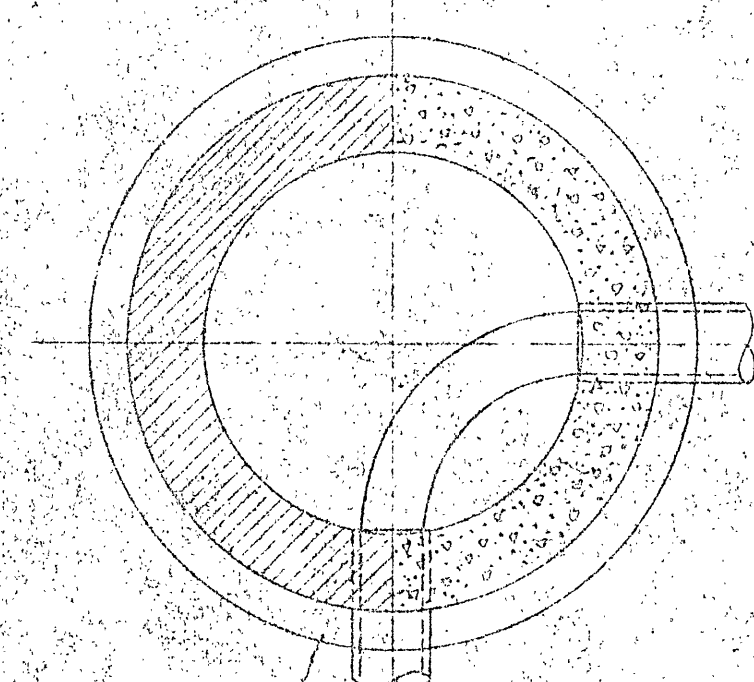
DOUBLE TERMINAL MANHOLE
ALL MANHOLES



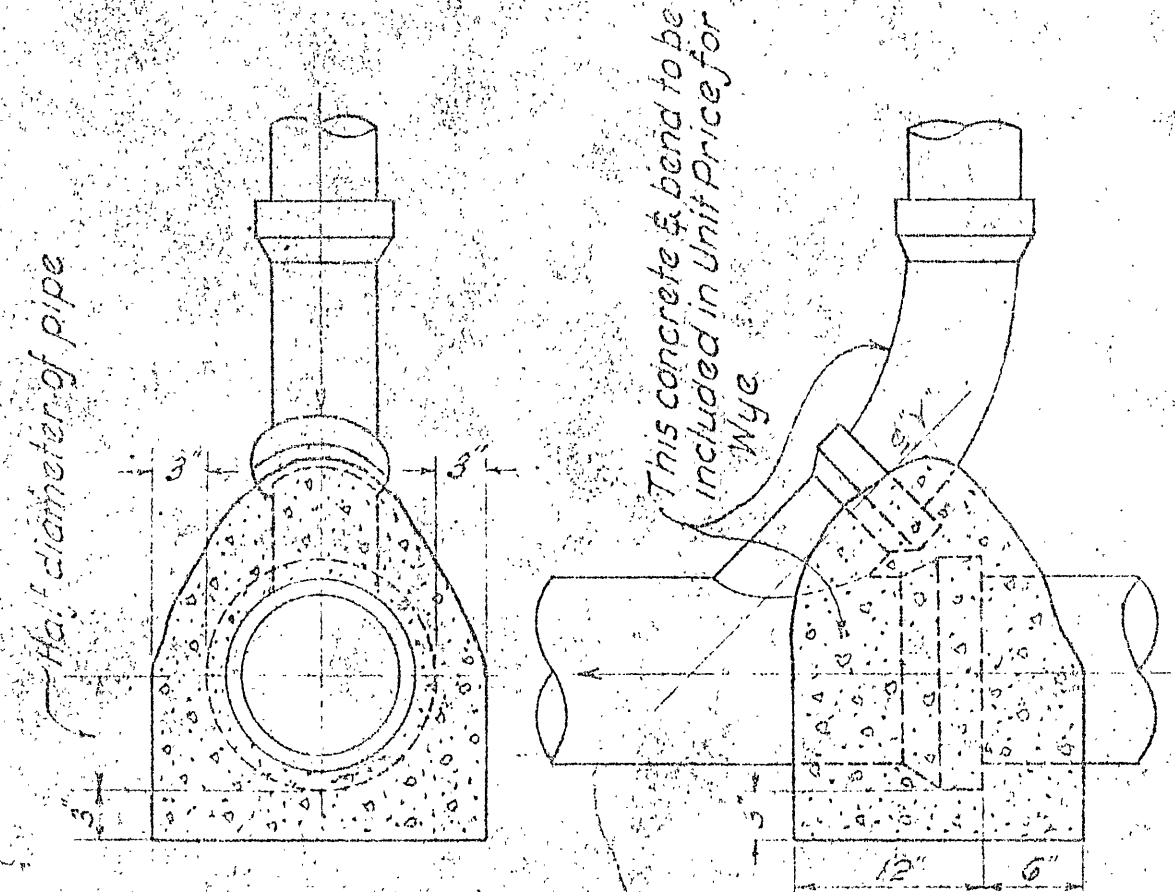
Longitudinal Section



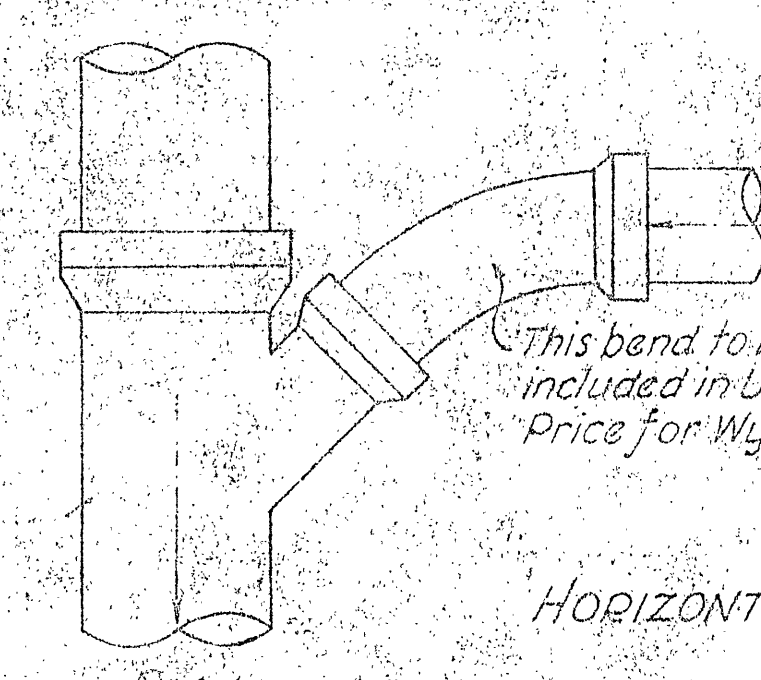
All corners to be rounded



TYPICAL CHANNEL DIAGRAMS
STANDARD MANHOLE
0 TO 10' DEEP

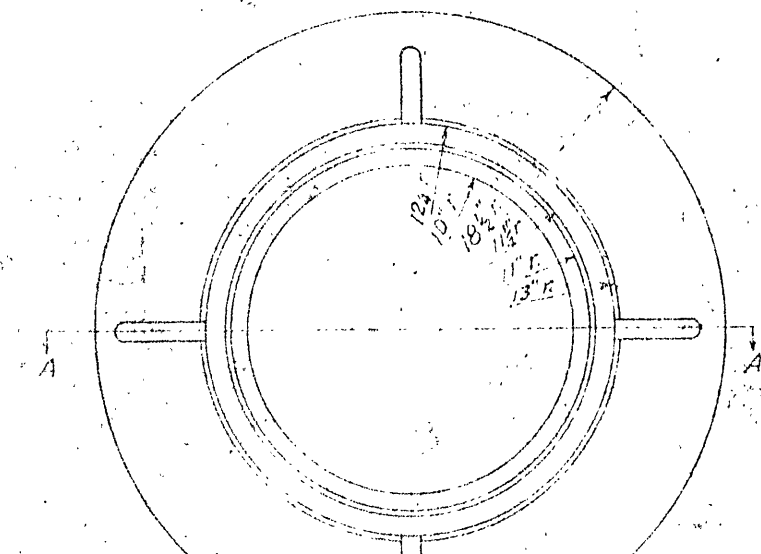


VERTICAL RISER

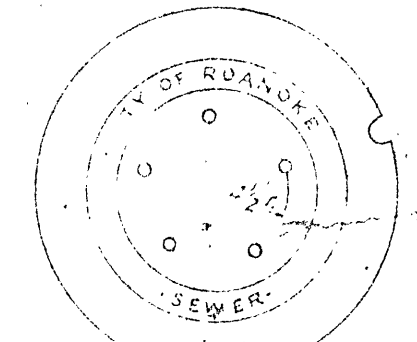


HORIZONTAL WYE

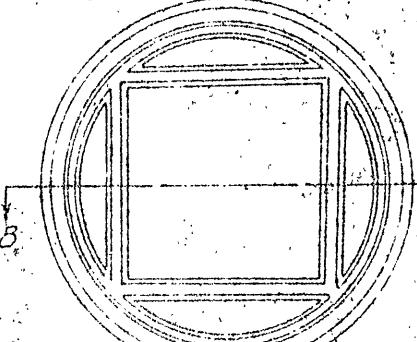
SANITARY SEWER SERVICE CONNECTIONS



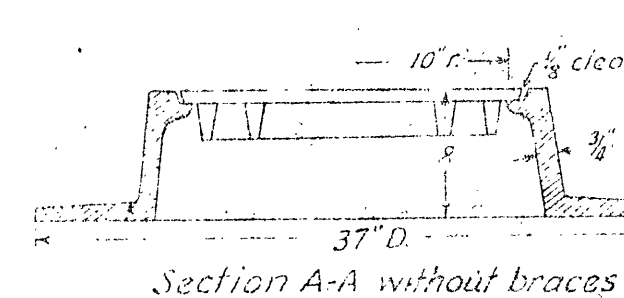
Plan Standard M.H. Top
Section A-A



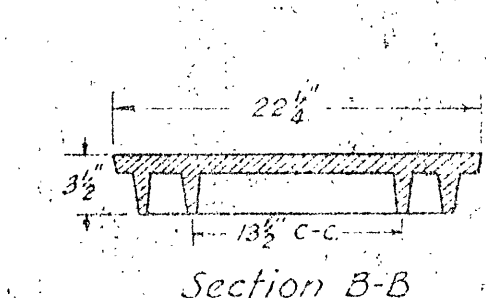
Plan - M.H. Lid - over



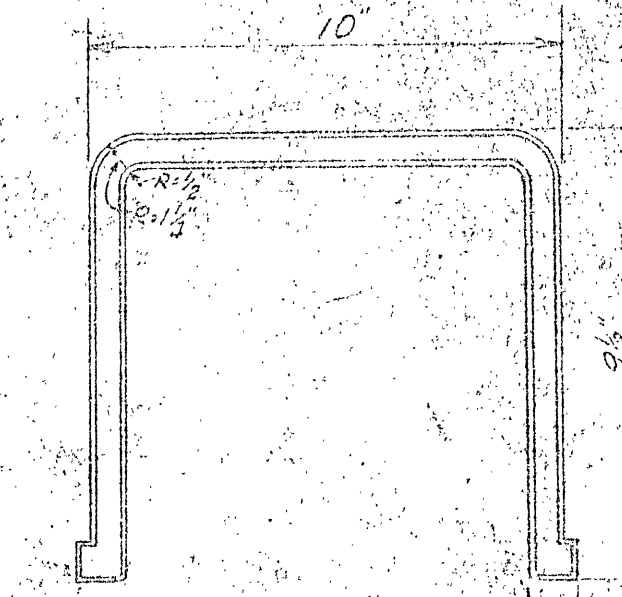
Plan - M.H. Lid - under



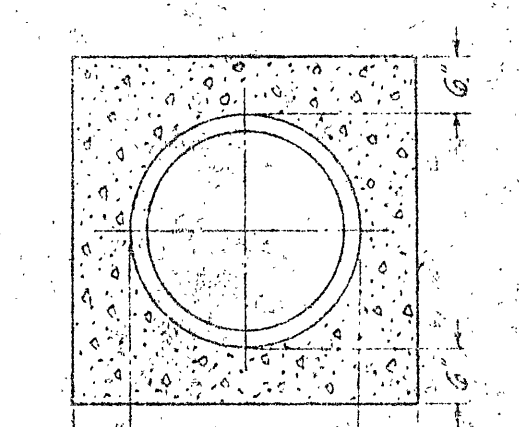
STANDARD MANHOLE TOPS
Scale: 1" = 1'-0"



Section B-B



SECTION Scale: Full Size
DETAILS MANHOLE STEPS



CONCRETE ENCASEMENT

MATTEN & MATTEN ENGINEERS ROANOKE VIRGINIA			
STANDARD DETAILS SANITARY SEWERS CITY OF ROANOKE, VA.			
DESIGNED	STW	SCALE	1/2" = 1'-0" except
DRAWN	RBK	DATE	2-11-61
CHECKED	EKM	DATE	5 JULY 1961