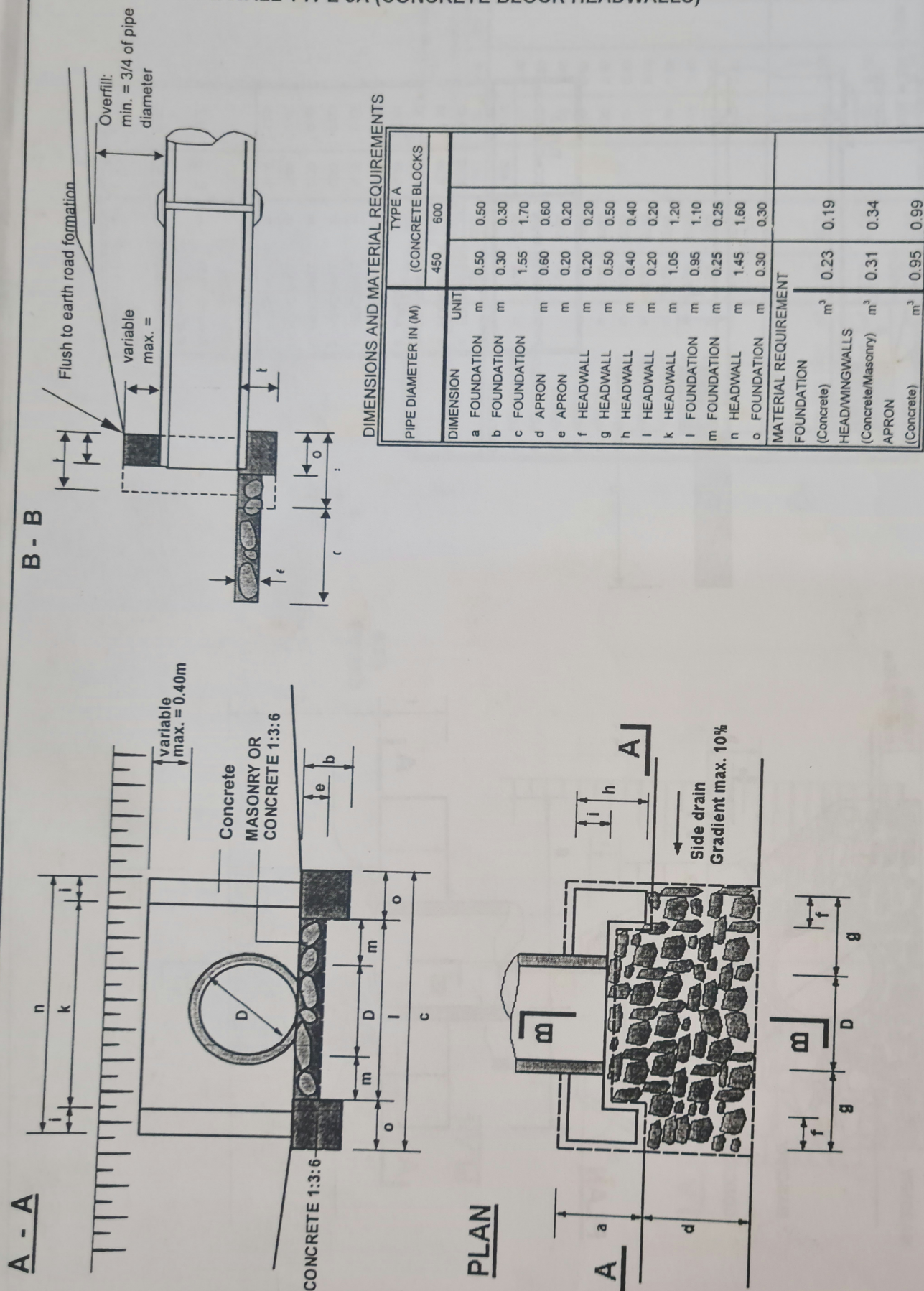


## STANDARD DRAWINGS E-10

FIGURE E.10 - HEADWALL TYPE 3A (CONCRETE BLOCK HEADWALLS)



DIMENSIONS AND MATERIAL REQUIREMENTS

PIPE DIAMETER IN (M)	UNIT	TYPE A (CONCRETE BLOCKS)	
		450	600
a FOUNDATION	m	0.50	0.50
b FOUNDATION	m	0.30	0.30
c FOUNDATION	m	1.55	1.70
d APRON	m	0.60	0.60
e APRON	m	0.20	0.20
f HEADWALL	m	0.20	0.20
g HEADWALL	m	0.50	0.50
h HEADWALL	m	0.40	0.40
i HEADWALL	m	0.20	0.20
k HEADWALL	m	1.05	1.20
l FOUNDATION	m	0.95	1.10
m FOUNDATION	m	0.25	0.25
n HEADWALL	m	1.45	1.60
o FOUNDATION	m	0.30	0.30
MATERIAL REQUIREMENT			
FOUNDATION			
(Concrete)	m <sup>3</sup>	0.23	0.19
HEADWALLS			
(Concrete/Masonry)	m <sup>3</sup>	0.31	0.34
APRON			
(Concrete)	m <sup>3</sup>	0.95	0.99