

DEPARTMENT OF
PUBLIC WORKS
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departmental
DIAGRAMMATIC CIVIL
ENGINEERING DETAILS
FOR DOLOMITIC SOILS

title
CABLING
MANHOLE FOR POWER
AND DATA CABLES

scale 1:20	date 22/06/2006
drawing number / type number TYPE NO DT 02/C	

HOLES FOR ALL PIPES THROUGH CONCRETE
TO BE DIAMETER PLUS 20mm. SEAL OPENINGS
WITH 25mm DEEP POLYSULPHIDE ON IN AND
OUTSIDE OF WALL.
(ALTERNATIVE PUDDLE FLANGE ON PIPE)

600mm \varnothing (SABS 558 / SANS 558)
MANHOLE COVER AND FRAME FOR ROADS
(HEAVY DUTY) - LOCKABLE
SEE ENGINEERS SPECIFICATION

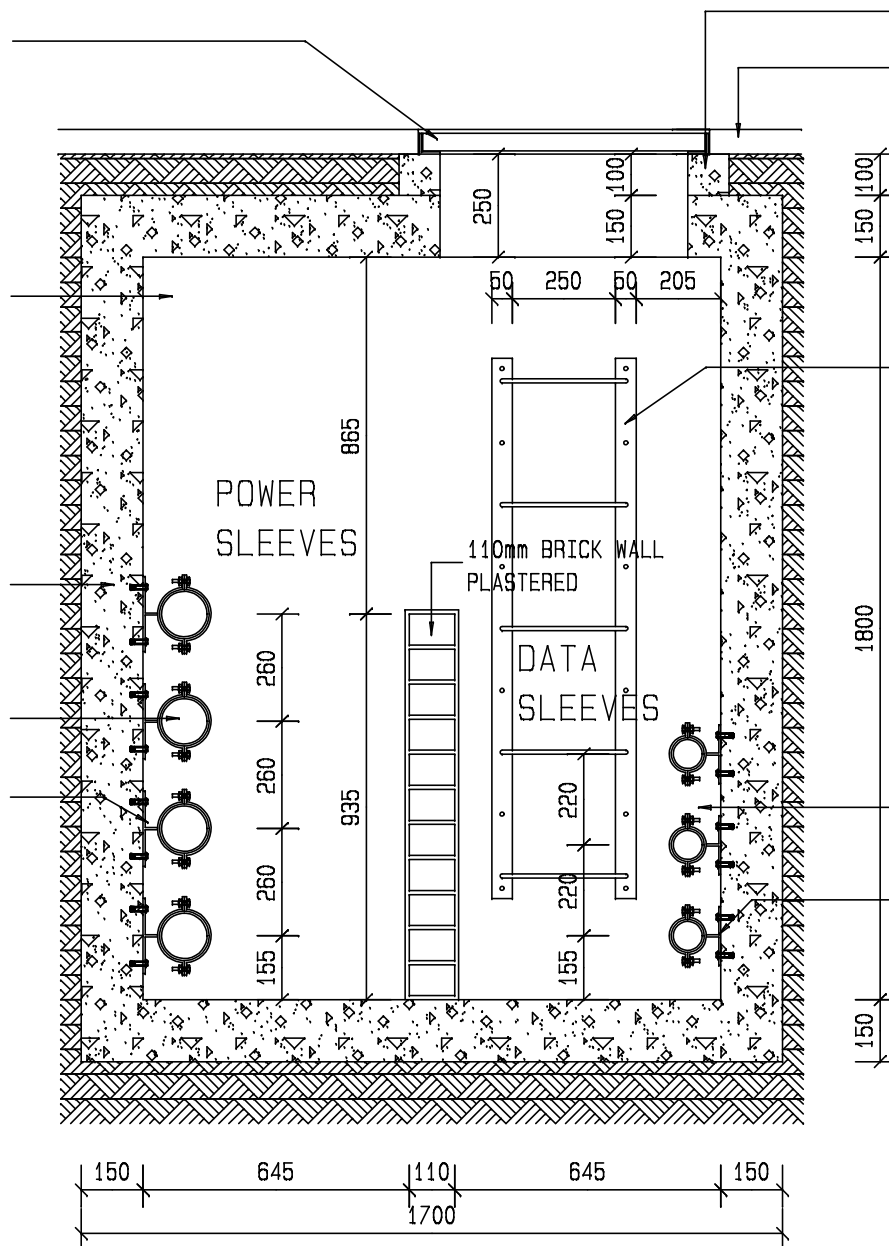
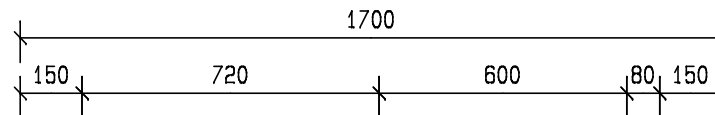
SMOOTH OF
SHUTTER FINISH

25MPa/19mm
CONCRETE MANHOLE

110mm \varnothing HDPE PE100 PN10
SLEEVE PIPES FOR POWER
CABLES

PIPE HOLDER BRACKET AS PER
DETAIL TYPE DT 08/W 600mmc/c max.
FOR PIPE SPACING SEE SABS LC-1981

BACKFILLING COMPACTED AROUND
MANHOLE TO 93% MOD ASSTHO
DENSITY IN LAYERS OF 150mm
PERMEABILITY TO BE LOWER
THAN THE SURROUNDING SOIL



NOTE: ALL TO COMPLY TO SABS 1200 LC-10981

SLEEVE PIPES SMALLER THAN 63mm dia HDPE
PE100 PN 10 SABS ISO 4427/SANS4427
SLEEVE PIPES BIGGER THAN 75mm dia HDPE
PE100 PN 10 SABS ISO 4427/SANS 4427

ADAPTOR SLAB

CONCRETE PAVING BLOCKS/TAR
SEE SITE LAYOUT

10mm \varnothing STEEL BAR TO FORM
STEP AT 300mmc/c WELDED
TO 50X5mm STEEL SUPPORT
BOLTED TO WALL WITH 10mm \varnothing
EXPANTION BOLTS SEE DT 04/C
HOT DIPPED GALVANISED

STEEL REINFORCING TO
ENGINEER SPECIFICATION
(Y10 @ 200mm IN BOTH
DIRECTIONS) IN AND
OUTSIDE

75mm \varnothing HDPE PE100 PN10 SLEEVE
PIPES FOR DATA CABLES

PIPE HOLDER BRACKET AS PER
DETAIL TYPE DT 08/W 600mmc/c max.
FOR PIPE SPACING SEE SABS LC-1981

TYPICAL MANHOLE FOR
POWER AND DATA SLEEVES
(1700X1700X1800mm DEEP)