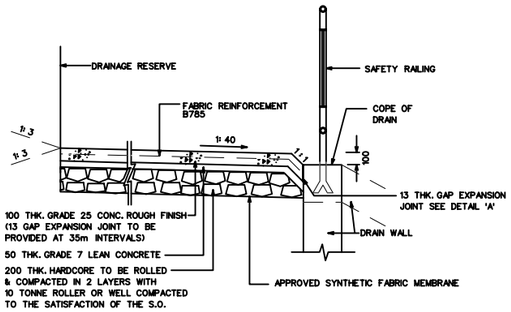
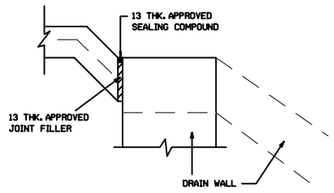


ACCESS UP TO 1.8m WIDE

SCALE 1 : 25



DETAIL 'A'

13mm THICK GAP EXPANSION JOINT

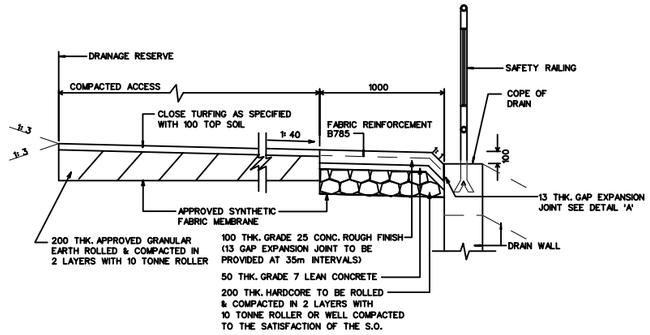
SCALE 1 : 10

SYNTHETIC GEOTECHNICAL FABRIC MEMBRANE

THE FIBRE USED TO MANUFACTURE THE FABRIC SHALL CONSIST OF EITHER POLYPROPYLENE, POLYETHYLENE, POLYESTER, OR A COMBINATION OF THE AFORESAID MATERIALS. THE FABRICS SHALL HAVE THE PHYSICAL PROPERTIES COMPLYING WITH THE TABLE BELOW :

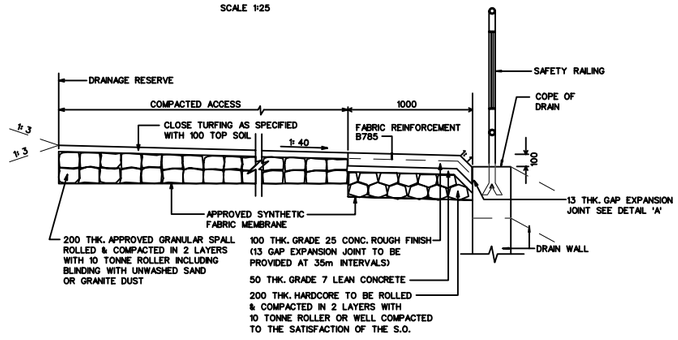
PHYSICAL PROPERTY	PHYSICAL PROPERTIES OF GEOTEXTILES CLASS OF GEOTEXTILE		SPECIFICATION
	CLASS A	CLASS B	
MINIMUM UNIT WEIGHT, g/m^2	125	50	ASTM D3376
MINIMUM GRAB TENSILE STRENGTH , N	530	270	ASTM D1682
MINIMUM ELONGATION TO BREAK, %	60	55	ASTM D1682
MINIMUM TRAPEZOIDAL TEAR STRENGTH , N	180	80	ASTM D1117
MINIMUM MULLEN BURST STRENGTH, N/mm^2	1.10	0.50	ASTM D774
WATER PERMEABILITY, cm/sec	2.0X10^{-2}	2.7X10^{-2}	MANUFACTURER'S TEST REPORT TO BE SUBMITTED

NOTE:
A. WHERE THE GEOTEXTILES SERVE A SEPARATION OR REINFORCEMENT FUNCTION, CLASS A GEOTEXTILES SHALL BE USED
B. WHERE THE GEOTEXTILES SERVE A FILTRATION FUNCTION, CLASS B GEOTEXTILES SHALL BE USED.



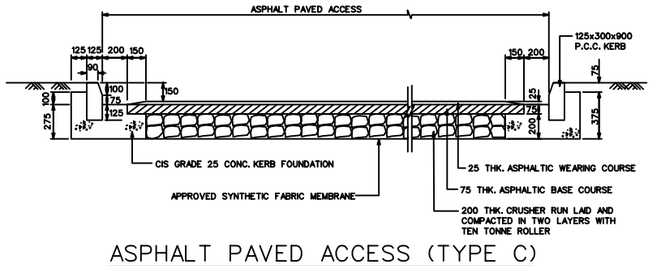
ACCESS WIDER THAN 1.8m (TYPE A)

SCALE 1:25



ACCESS WIDER THAN 1.8m (TYPE B)

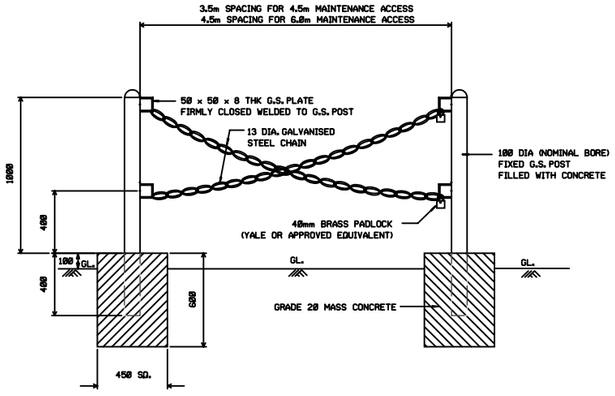
SCALE 1:25



ASPHALT PAVED ACCESS (TYPE C)

(FROM ROAD TO MAINTENANCE ACCESS)

SCALE 1:25



GALVANISED STEEL POSTS AND CHAINS

SCALE 1 : 20

(TO BE INSTALLED FOR DRAINAGE RESERVE GREATER THAN 3m)

NOTES:

1) ALL DIMENSIONS SHOWN IN THE DRAWING ARE IN MILLIMETRES UNLESS OTHERWISE STATED

2) MATERIALS
   a) ALL G.S. PIPES TO BE LIGHT TUBES CONFORMING TO S.S. 17
   b) ALL STEELS USED ARE TO BE MILD STEEL CONFORMING TO B.S. 4360
   c) ALL GALVANISING TO BE HOT DIPPED GALVANISED COATING CONFORMING TO S.S. 117

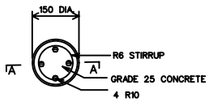
3) GALVANISED STEEL PIPES TO BE PREPARED AND PAINTED AS FOLLOWS:
   a) ONE COAT OF APPROVED WASH PRIMER
   b) ONE UNDERCOAT OF APPROVED OIL BASED PAINT
   c) TWO TOP COATS OF APPROVED OIL BASED PAINT

4) ALL STEEL RODS, FLAT & SQUARE TO BE PREPARED AND PAINTED AS FOLLOWS :
   a) BEFORE ERECTION CLEAN WITH WIRE BRUSH TO REMOVE ALL RUST & MILL SCALE AND PAINT ONE COAT OF APPROVED PRIMING PAINT
   b) AFTER ERECTION PAINT ONE UNDERCOAT OF APPROVED OIL BASED PAINT AND TWO TOP COATS OF APPROVED OIL BASED PAINT

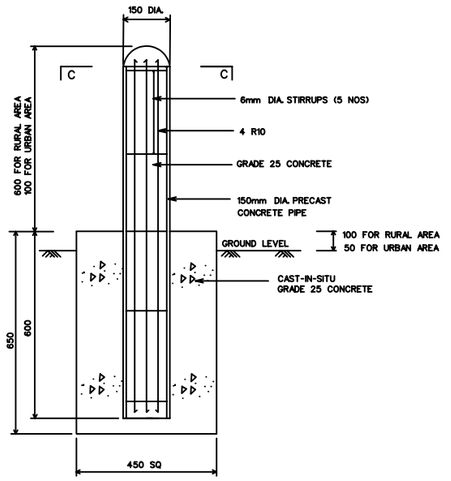
5) GALVANISED THREADED COUPLINGS SHALL BE USED FOR JOINING G.S. PIPES

6) FOR GALVANISED AREAS THAT ARE AFFECTED BY WELDING DONE ON SITE, COLD GALVANISING SHALL BE FOLLOWED AND TO THE SATISFACTION OF THE S.O.

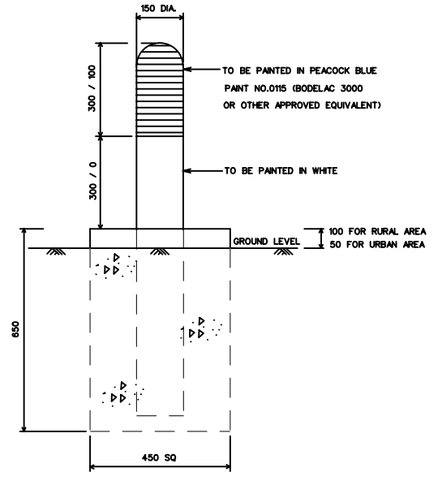
7) ALL FABRIC REINFORCEMENT SHALL CONFORM TO SS 32



SECTION C-C



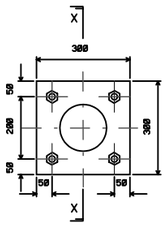
SECTION A - A



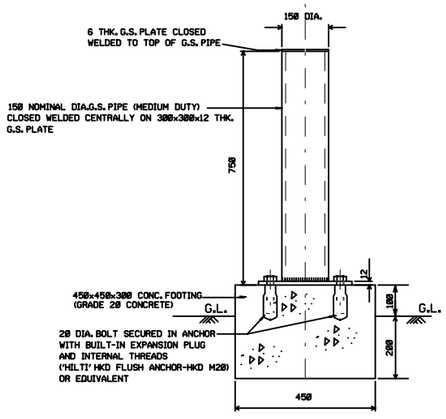
ELEVATION

DETAILS OF DRAINAGE RESERVE CONCRETE MARKER

SCALE 1 : 10



PLAN VIEW

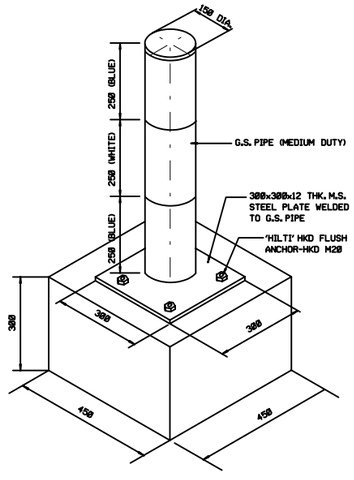


SECTION X-X

DETACHABLE BOLLARD

SCALE 1:10

(TO BE INSTALLED AT 1.0m SPACING FOR DRAINAGE RESERVE LESS THAN 3.0m WIDTH)



ISOMETRIC VIEW

NOTES FOR DETACHABLE BOLLARD:

- THREE COATS OF APPROVED OIL BASE PAINT TO BE PAINTED ON BOLLARDS.
- STEEL BASE PLATE BOLTS AND NUTS TO BE COATED WITH BITUMINOUS PAINT.

REVISION	C

1) CHANGE OF DEPARTMENT NAME AND PUB LOGO
2) CHANGE DRAWING NO. PUB/D/156B/01 TO PUB/BSD/D/156C/01

PREPARED BY :	APPROVED BY :
POON S. H. Asst. Director — Date	CHANDRATHARAN Dy. Director — Date

PUB
Water for All : Conserve, Value, Enjoy
BEST SOURCING DEPARTMENT

SCHEME

STANDARD DRAWING FOR DRAINAGE WORKS

PROJECT TITLE

–

DRAWING TITLE

STANDARD DETAILS OF MAINTENANCE ACCESS, D.R. MARKER, DETACHABLE BOLLARD AND POST & CHAINS

SCALE : AS SHOWN

APPROVED BY	DIRECTOR	YAP K. G.	SIGNED	28-06-01
CHECKED BY	Dy. DIRECTOR	ONG-CHUA S. E.	SIGNED	28-06-01
CHECKED BY	Asst. Dy DIRECTOR	CHIA B. H.	SIGNED	28-06-01
PREPARED BY	TSO GRADE II	TAN H. S.	SIGNED	28-06-01
DRAWN BY	TSO GRADE VII	KHIN S. Y.	SIGNED	28-06-01

FILENAME : BSD156c_01.DGN	ARCHIVED REF: PUB_STD	ARCHIVED BY : KOH G. L.

DRAWING NO.

PUB/BSD/D/156C/01