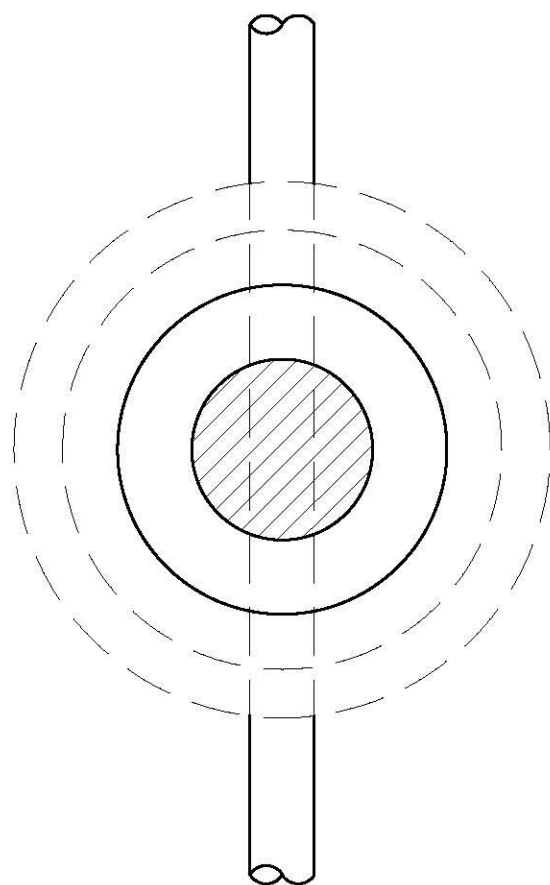
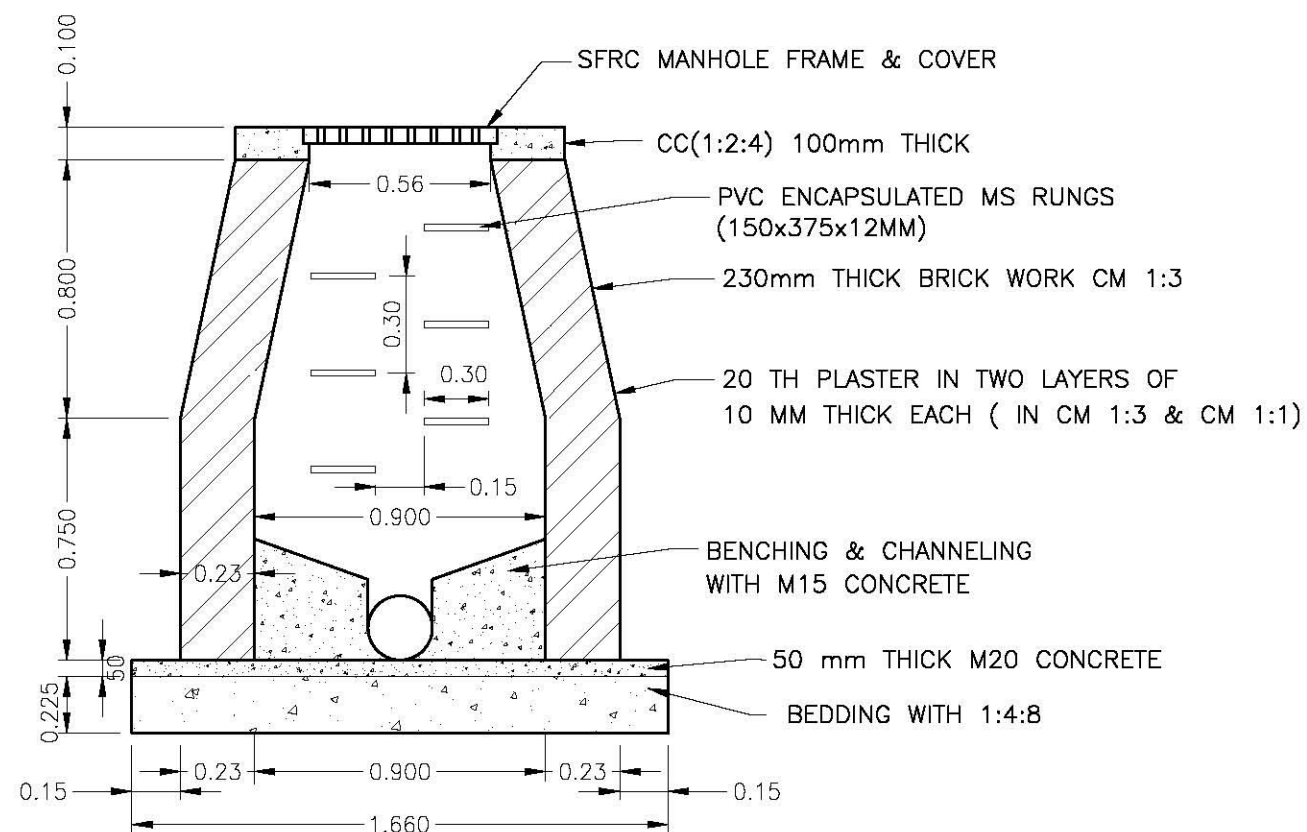


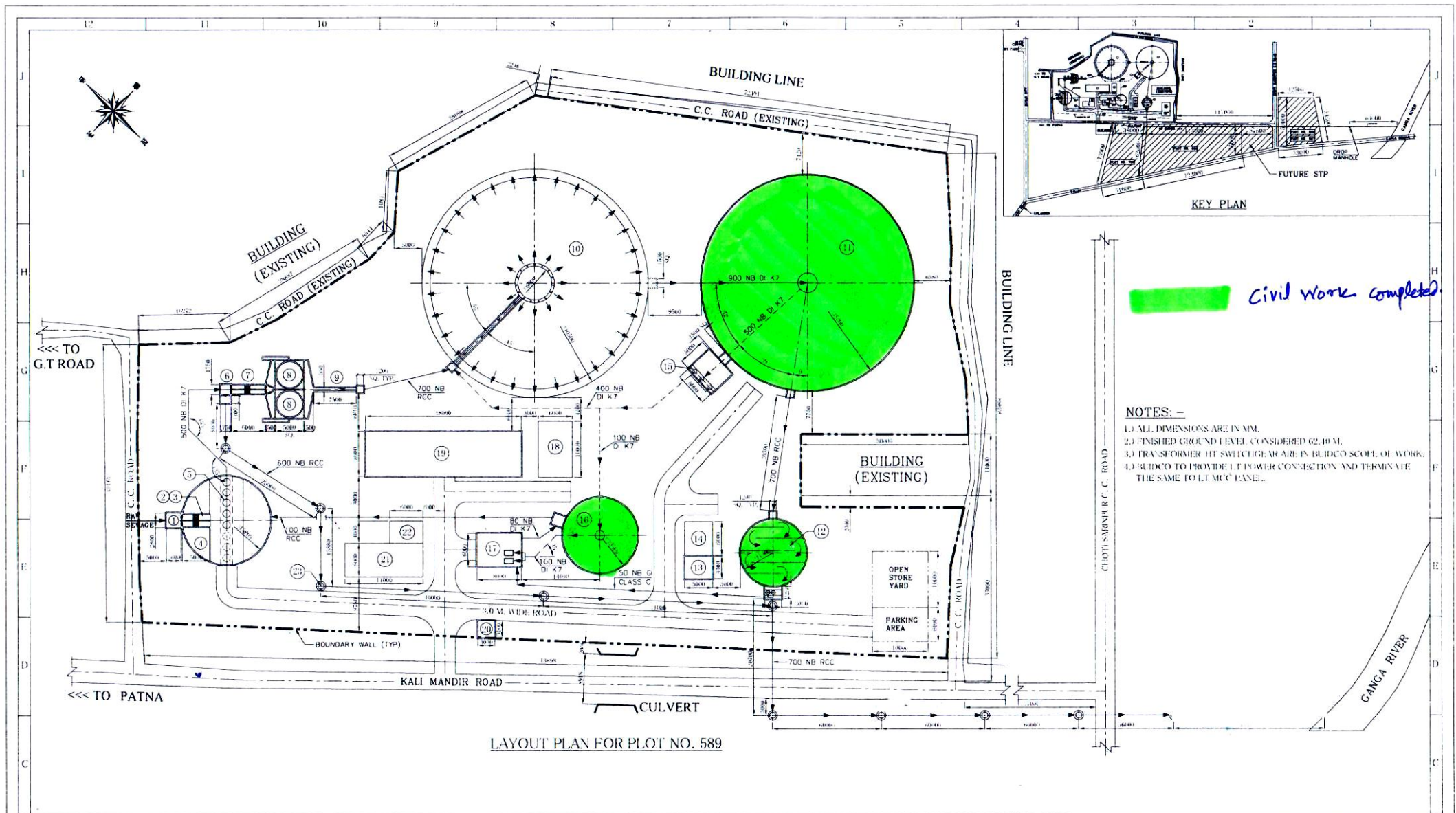


TYPICAL CROSS SECTION OF MANHOLES TYPE - A

SR NO.	DIA. OF SEWER	DIA.(M) / TYPE OF MANHOLE					
		DEPTH(M)	1.5	2.5	5.0	9.0	12.0
01	≤500	-	0.9 (TYPE A)	1.2 (TYPE B)	1.5 (TYPE C)	1.5 (TYPE D)	1.8 (TYPE E)
02	600 - 900	-	-	1.5 (TYPE B)	1.5 (TYPE C)	1.5 (TYPE D)	1.8 (TYPE E)
03	1000 -1400	-	-	-	(TYPE C)	(TYPE D)	(TYPE E)



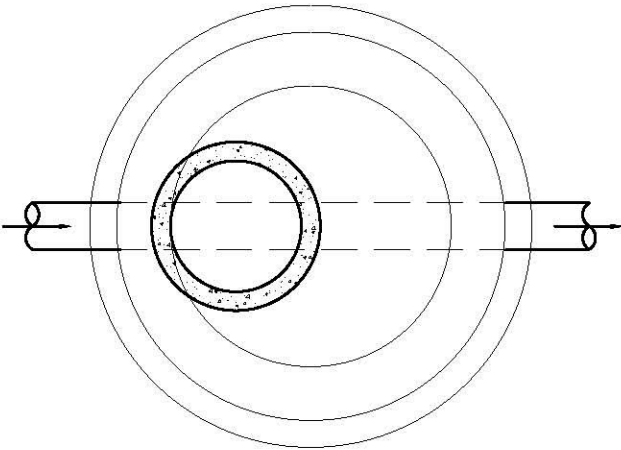
**BUX-1053-SEW-TYP-
MH-01-Type A**



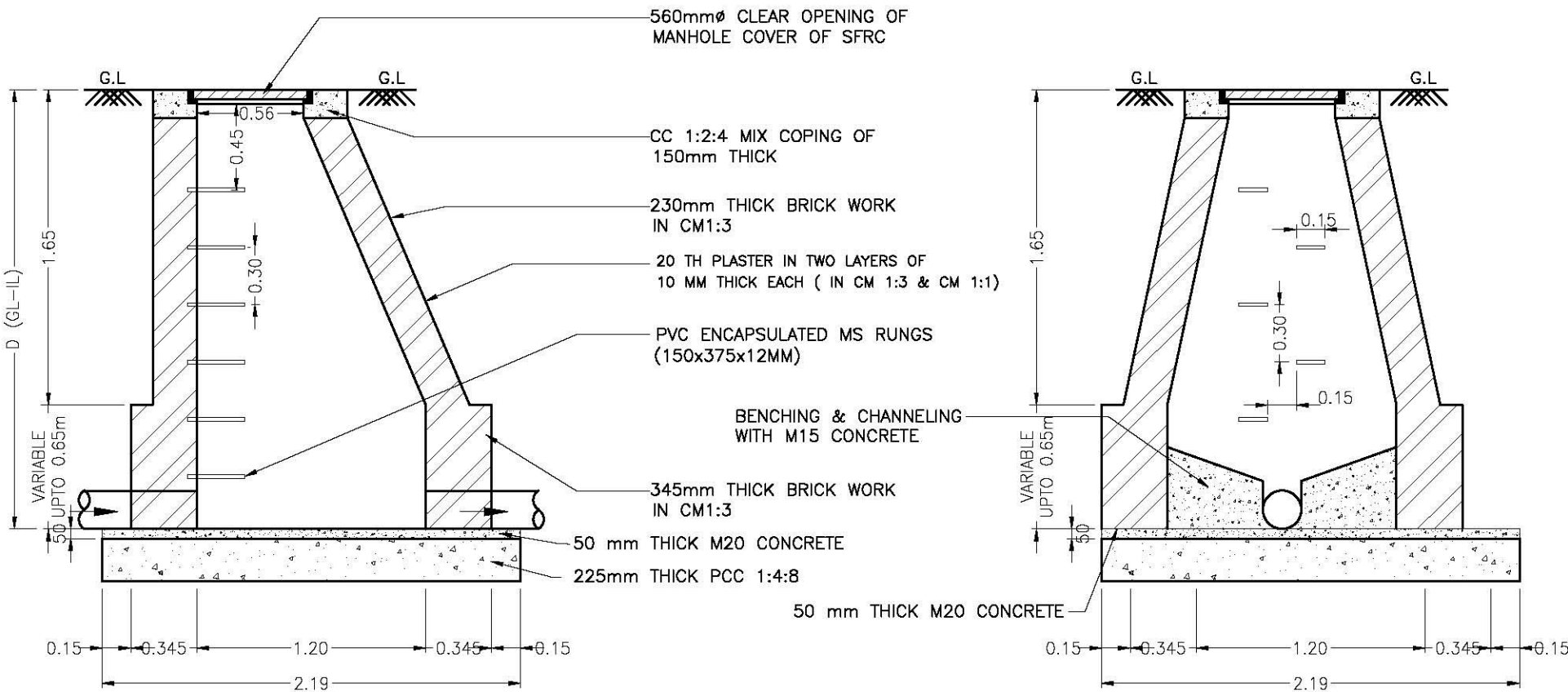
UNIT LIST				UNIT LIST				UNIT LIST			
S.NO.	DESCRIPTION	NOS.	SIZE IN METERS	S.NO.	DESCRIPTION	NOS.	SIZE IN METERS	S.NO.	DESCRIPTION	NOS.	SIZE IN METERS
1	RECEIVING CHAMBER	1	2.6 x 2.6 x 1.25 SWD + 6.65 FT	8	MECHANICAL GRIT CHAMBERS	2	5.0 x 5.0 x 0.9 SWD + 0.5 FT	17	CENTRIFUGAL SHED (G+1)	1	8.0 x 6.0 x 8.5 HT
2	MECHANICAL COARSE SCREEN CHANNEL	1	5.0 x 1.05 x 1.1 SWD + 0.5 FT	9	PARSHALL FLUME CHANNEL	1	7.5 x 0.55 x 0.95 SWD + 0.3 FT	18	AIR BLOWER SHED	1	6.0 x 10.0 x 5.5 HT
3	MANUAL COARSE SCREEN CHANNEL	1	5.0 x 0.95 x 1.1 SWD + 0.5 FT	10	AERATION TANK	1	40.36 x 5.0 SWD - 0.5 FT	19	ADMINISTRATION BUILDING MCC/PLC CONTROL ROOM/ WORK SHOP/STORE	1	28.0 x 8.0 x 1.0 HT
4	RAW SEWAGE SUMP WET WELL	1	15.8 x 1.5 SWD - 8.1 FT	11	SECONDARY CLARIFIER	1	38.2 x 3.0 SWD + 0.5 FT	20	SECURITY CABIN	1	3.0 x 3.0 x 3.0 HT
5	RAW SEWAGE PUMP SHED	1	15.8 x 6.0 x 4.5 HT	12	CHLORINE CONTACT TANK	1	11.9 x 3.0 SWD + 0.5 FT	21	HT PANEL TRANSFORMER OPEN AREA (BY BUDCO)	1	14.0 x 6.0
6	STILLING CHAMBER	1	1.75 x 1.75 x 4.25 SWD - 0.5 FT	13	CHLORINATION ROOM	1	5.0 x 4.0 x 1.0 HT	22	DG SET FOUNDATION	1	6.0 x 4.0
7	MECH FINE SCREEN CHANNELS	2	6.0 x 0.75 x 1.0 SWD + 0.5 FT	14	CHLORINE TONNER SHED	1	5.0 x 6.0 x 5.0 HT	23	BYPASS MANHOLES	5	1.0 x 3.7 SWD - 0.3 FT
				15	RETURN SLUDGE SUMP	1	6.0 x 5.0 x 5.5 SWD - 0.7 FT				
				16	GRAVITY SLUDGE THICKNER	1	13.5 x 1.5 SWD + 0.5 FT				

1	17.09.12	REVISED AS PER FIELD SURVEY / INTERNAL RE-ENGINEERING	MS	DR	A DUTT
REV.	DATE	DESCRIPTION	DRN	CHKD	APPD.
CLIENT:- BIHAR URBAN INFRASTRUCTURE DEVELOPMENT CORPORATION LTD., PATNA					
PROJECT:- 16.0 MLD SEWAGE TREATMENT PLANT AT BUXAR, BIHAR					
BIDDERS NAME:- TRI-TECH (BEIJING) COMPANY LTD. BEIJING, NEW DELHI					
DATE:-	23.04.12	TITLE:-	LAYOUT PLAN		
DRAWN:-	MS	SCALE/SHEET	DRAWING NO		
CHKD	DR A DUTT	1:100	3 OF 4	TT/BEI/BUX/1053/STP/A08	
APPD	DR A DUTT	1:100	3 OF 4	TT/BEI/BUX/1053/STP/A08	

TYPICAL CROSS SECTION OF MANHOLES TYPE - B



PLAN

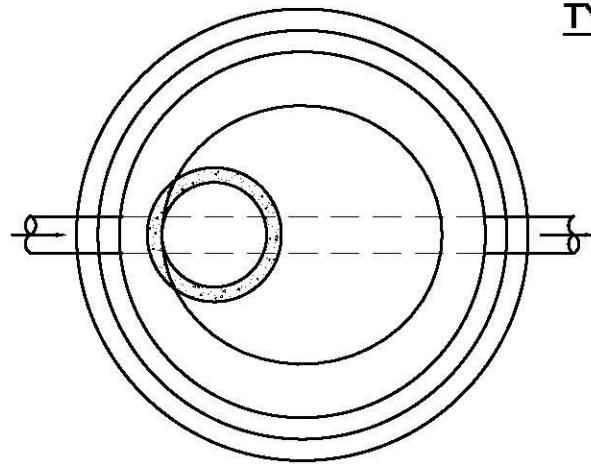


NOTE:

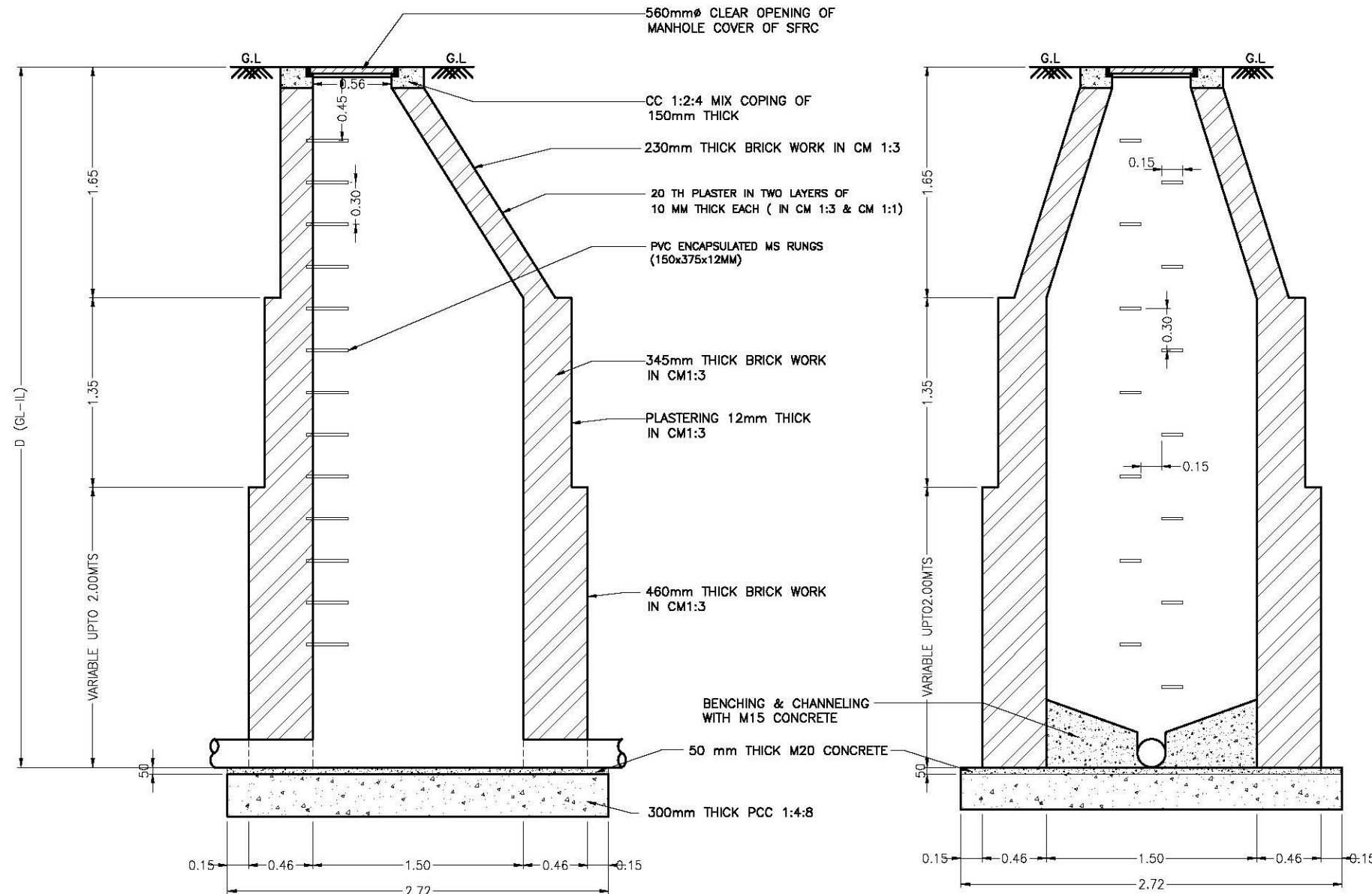
- 1) ALL DIMENSIONS ARE IN MTS. UNLESS OTHERWISE SPECIFIED.
- 2) "D" IS THE DEPTH FROM GROUND LEVEL TO LOWEST SEWER INVERT LEVEL IN MANHOLE.
- 3) 150mm THICKNESS OF CONCRETE CAN BE VARIED TO FLUSH MANHOLE COVER AND FRAME WITH ROAD SURFACE.
- 4) SFRC MANHOLE COVER & FRAME OF HEAVY DUTY AS PER IS: 12592
- 5) THE BENCHING AT THE SIDE OF CHANNEL SHALL BE AT LEAST 50mm ABOVE THE CROWN OF THE PIPE AND THEN RISE WITH A SLOPE OF 1 IN 12 TOWARDS THE SIDES OF THE MANHOLE.

**BUX-1053-SEW-TYP-MH-
02-Type-B**

TYPICAL CROSS SECTION OF MANHOLES TYPE - C



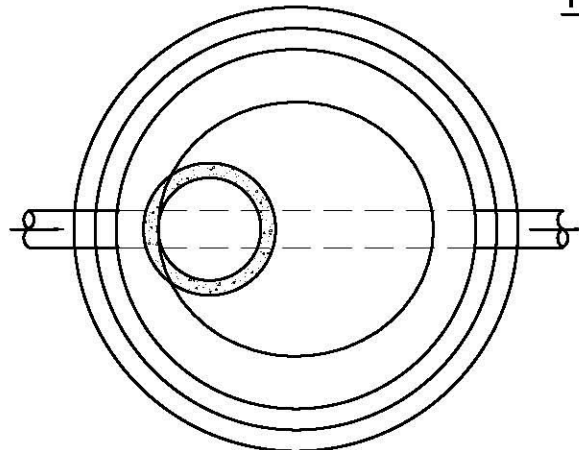
PLAN



- NOTE:
- 1) ALL DIMENSIONS ARE IN MTS. UNLESS OTHERWISE SPECIFIED.
 - 2) "D" IS THE DEPTH FROM GROUND LEVEL TO LOWEST SEWER INVERT LEVEL IN MANHOLE.
 - 3) 150mm THICKNESS OF CONCRETE CAN BE VARIED TO FLUSH MANHOLE COVER AND FRAME WITH ROAD SURFACE.
 - 4) SFRC MANHOLE COVER & FRAME OF HEAVY DUTY AS PER IS: 12592
 - 5) THE BENCHING AT THE SIDE OF CHANNEL SHALL BE AT LEAST 50mm ABOVE THE CROWN OF THE PIPE AND THEN RISE WITH A SLOPE OF 1 IN 12 TOWARDS THE SIDES OF THE MANHOLE.

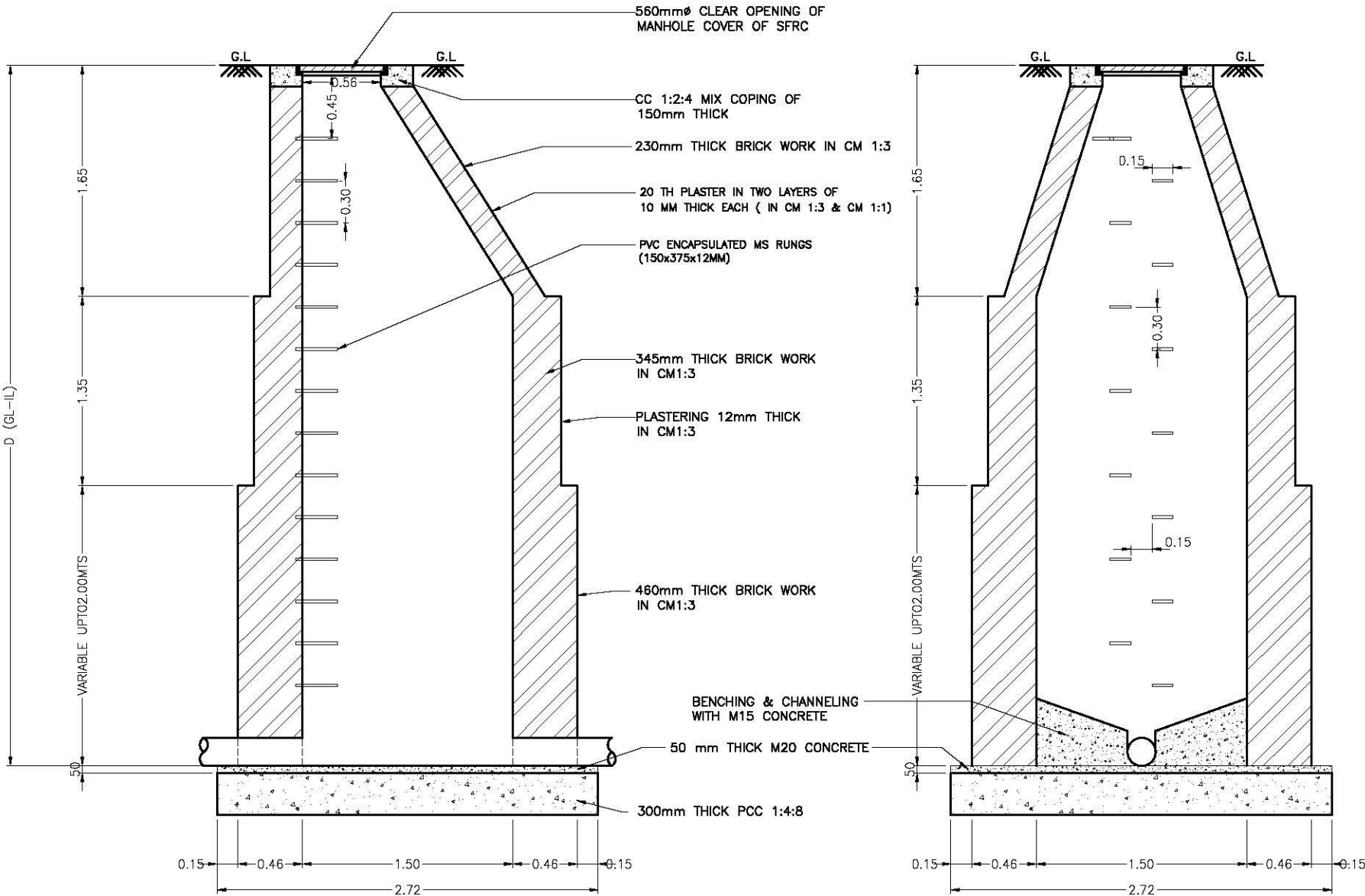
**BUX-1053-SEW-TYP-MH-
03-Type-C**

TYPICAL CROSS SECTION OF MANHOLES TYPE - D



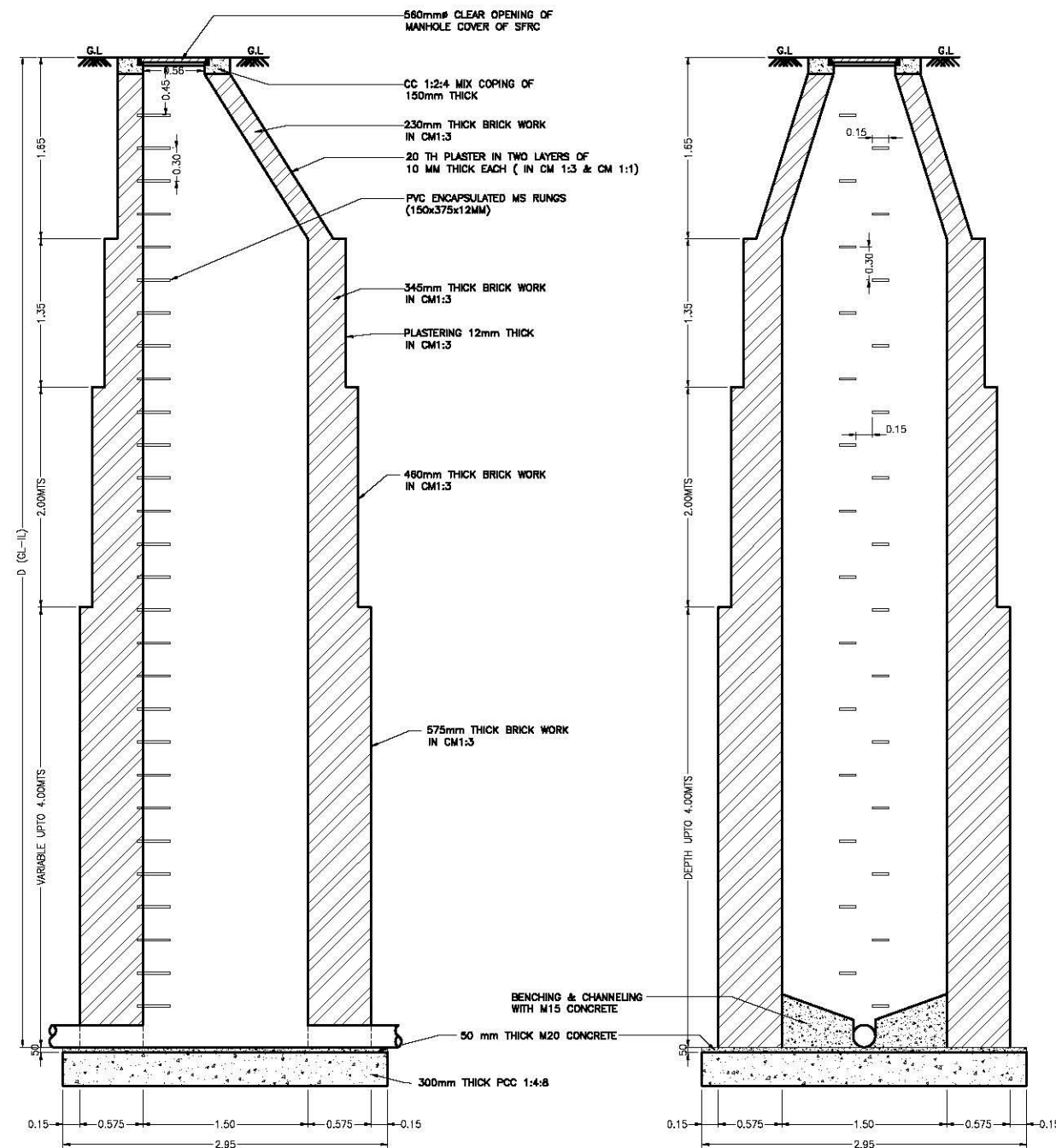
PLAN

- NOTE:
- 1) ALL DIMENSIONS ARE IN MTS. UNLESS OTHERWISE SPECIFIED.
 - 2) "D" IS THE DEPTH FROM GROUND LEVEL TO LOWEST SEWER INVERT LEVEL IN MANHOLE.
 - 3) 150mm THICKNESS OF CONCRETE CAN BE VARIED TO FLUSH MANHOLE COVER AND FRAME WITH ROAD SURFACE.
 - 4) SFRM MANHOLE COVER & FRAME OF HEAVY DUTY AS PER IS: 12592
 - 5) THE BENCHING AT THE SIDE OF CHANNEL SHALL BE AT LEAST 50mm ABOVE THE CROWN OF THE PIPE AND THEN RISE WITH A SLOPE OF 1 IN 12 TOWARDS THE SIDES OF THE MANHOLE.



BUX-1053-SEW-TYP-MH-
04-Type-D

PLAN



- 1) ALL DIMENSIONS ARE IN MTS. UNLESS OTHERWISE SPECIFIED.
- 2) "D" IS THE DEPTH FROM GROUND LEVEL TO LOWEST SEWER INVERT LEVEL IN MANHOLE.
- 3) 150mm THICKNESS OF CONCRETE CAN BE VARIED TO FLUSH MANHOLE COVER AND FRAME WITH ROAD SURFACE.
- 4) SFRC MANHOLE COVER & FRAME OF HEAVY DUTY AS PER IS: 12592
- 5) THE BENCHING AT THE SIDE OF CHANNEL SHALL BE AT LEAST 50mm ABOVE THE CROWN OF THE PIPE AND THEN RISE WITH A SLOPE OF 1 IN 12 TOWARDS THE SIDES OF THE MANHOLE.

**BUX-1053-SEW-TYP-MH-
05-Type-E**



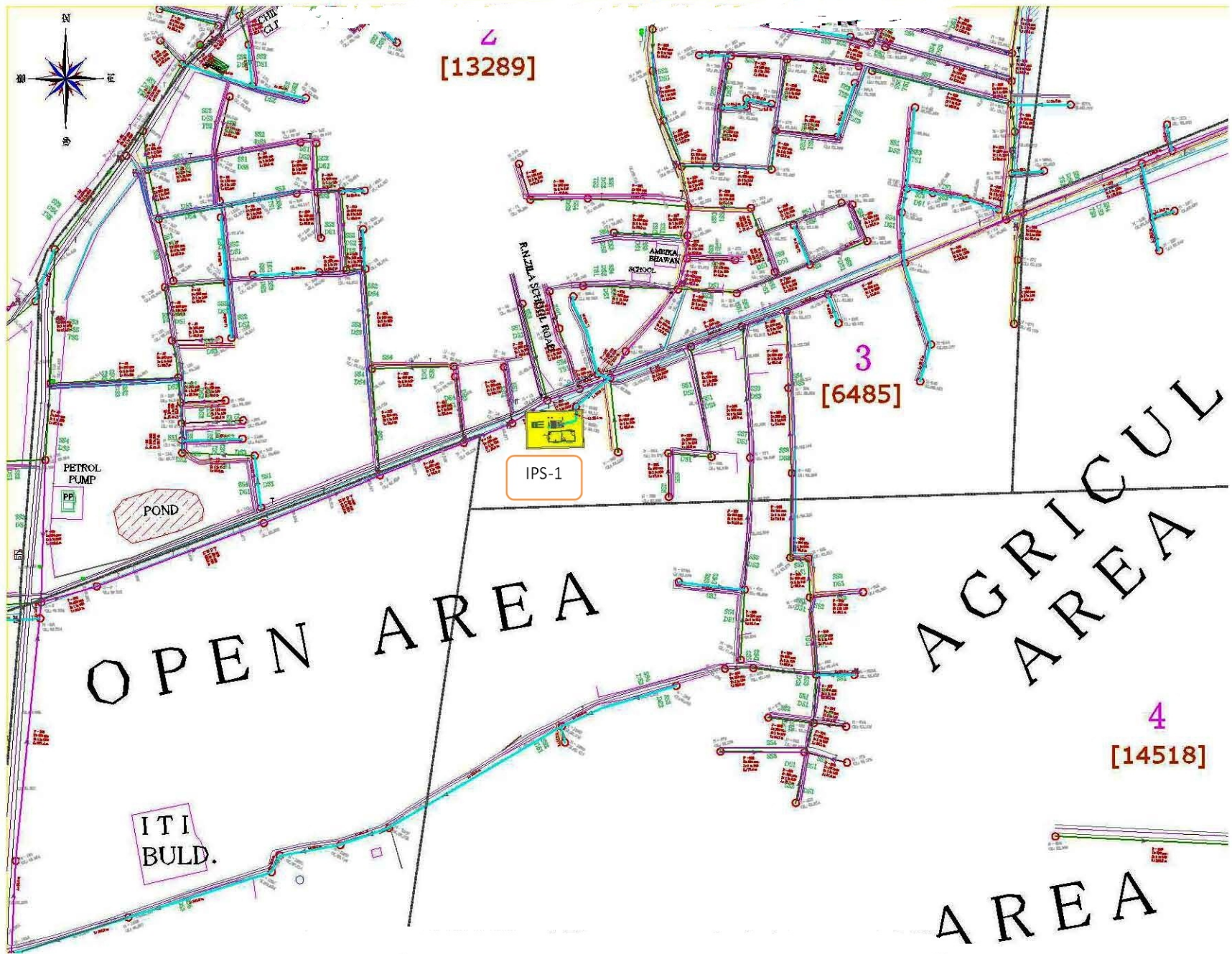
CONSTRUCTIONAL DETAILS OUTGOING SEWER FOR R.C.C PIPES

NOTE:- ALL DIMENSIONS ARE IN M.M.

BUX-1053-SEW-TYP-
Sewer Trench

BUX-1053-SEW-TYP-
Sewer Trench

Location Plan of IPS-1 of Buxar Sewerage Project



Location Plan of IPS-2 of Buxar Sewerage Project

