

LEGENDS

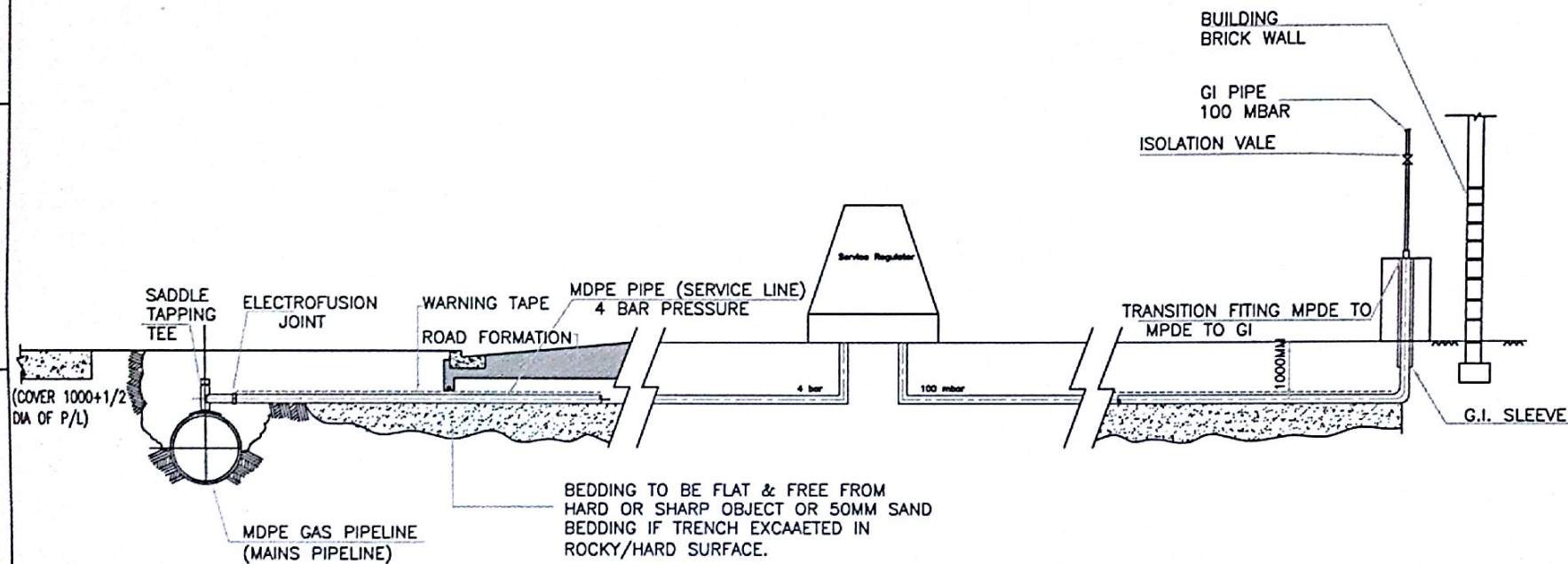
- UNDER GROUND LINE
- ABOVE GROUND LINE
- ✕ ISOLATION BALL VALVE
- ◁ REDUCER/EXPANDER
- ⊙ REGULATOR

Drawing No..

Schematic Diagram for Domestic
PNG connection in Multistoried
Housing Connection



Maharashtra Natural Gas Limited



GENERAL NOTES

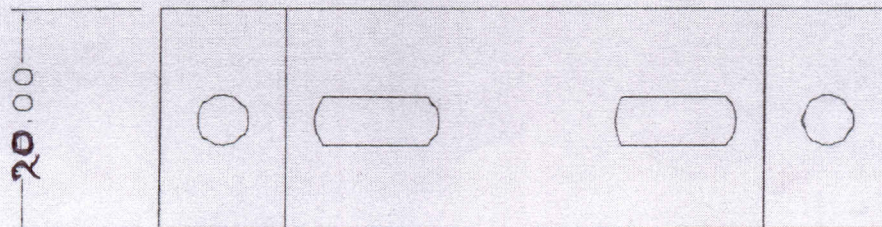
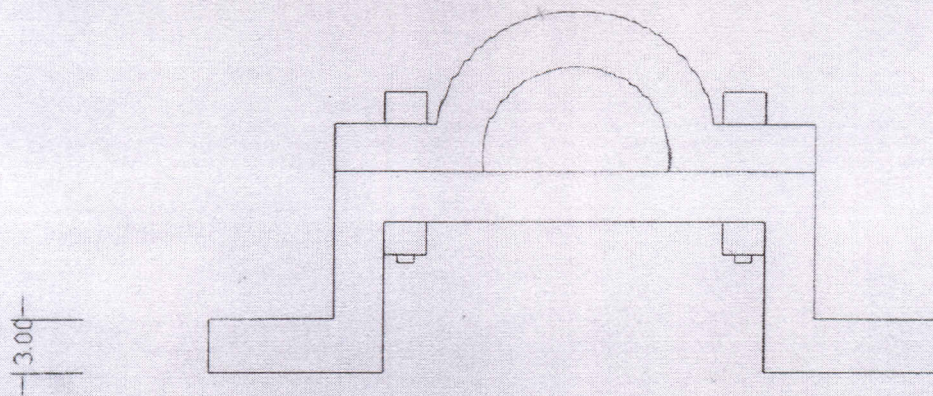
1. FOR CLAMPING TO BRICK WALL USE SUITABLE WALL BRACKETS.
2. TRENCH BACK FILL TO BE FREE FROM STONES OR SHARP OBJECTS OR CARE TO EXERCISED WHEN CONSOLIDATING BACK FILL TO AVOID DAMAGING PLASTIC PIPE.
3. THIS SKTECH IS INCATIVE AND FINAL LAYING WILL BE ENGINEER-IN-CHARGE

FOR TENDER PURPOSE

drawing no. 2

Scheme of medium ^{Low Pressure} service
installation

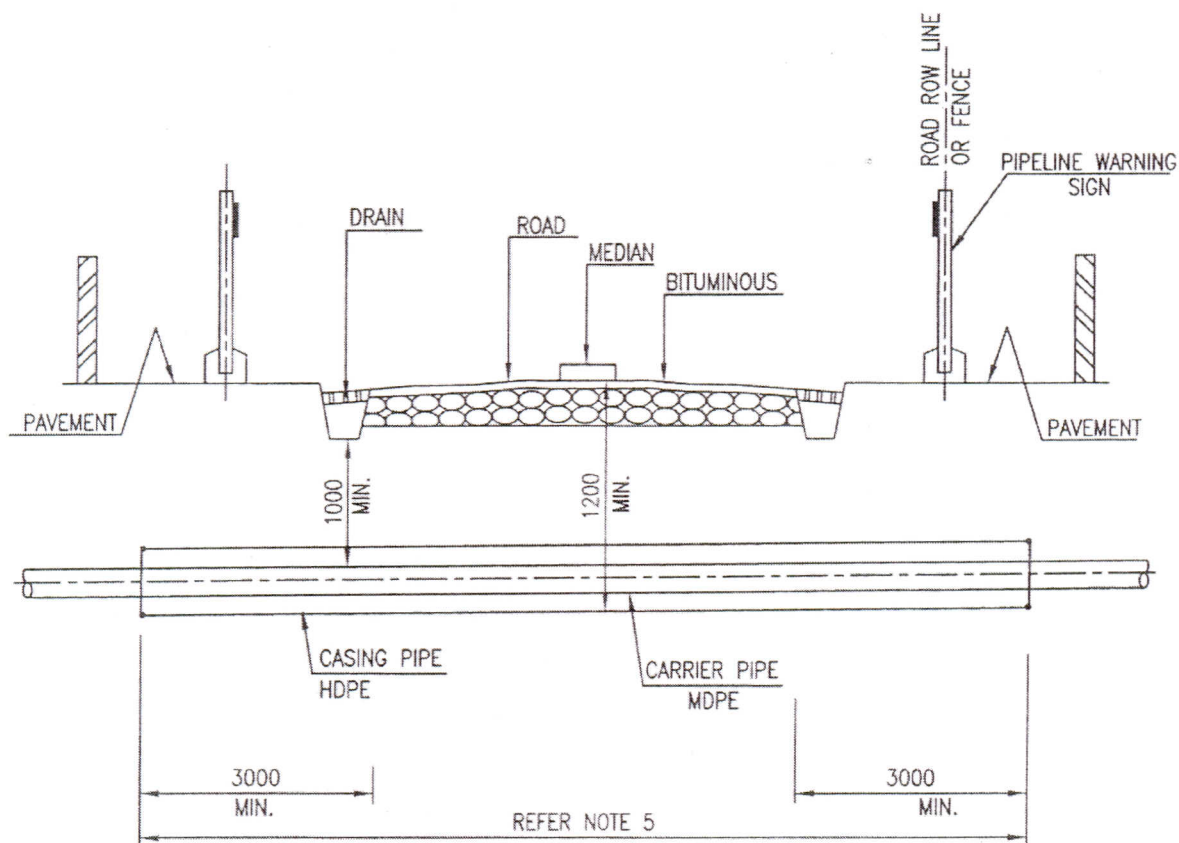
Maharashtra Natural Gas Limited



* All dimension are in mm.

MNGL

GI Clamps(1/2" to 1")



TYPICAL SECTION

NOTES:-

1. ALL DIMENSIONS ARE IN MM. UNLESS SPECIFIED OTHERWISE.
2. ROAD/ HIGHWAY CROSSING SHALL BE RESTORED TO ORIGINAL CONDITION TO THE ENTIRE SATISFACTION OF COMPANY AND CONCERNED AUTHORITIES HAVING JURISDICTION.
3. REFER API RP 1102 FOR OTHER DESIGN AND INSTALLATION REQUIREMENTS.
4. ANGLE OF INTERSECTION BETWEEN PIPELINE AND THE ROAD/ HIGHWAY SHALL BE AS CLOSE TO 90° AS POSSIBLE BUT IN NO CASE LESS THAN 30°.
5. CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS WITH RESPECT TO SURVEY DETAILS FOR EACH ROAD/ HIGHWAY CROSSED AND PREPARE DETAILED DRAWING FOR INDIVIDUAL CROSSING FOR ENGINEER-IN-CHARGE. APPROVAL BEFORE COMMENCEMENT OF CONSTRUCTION.

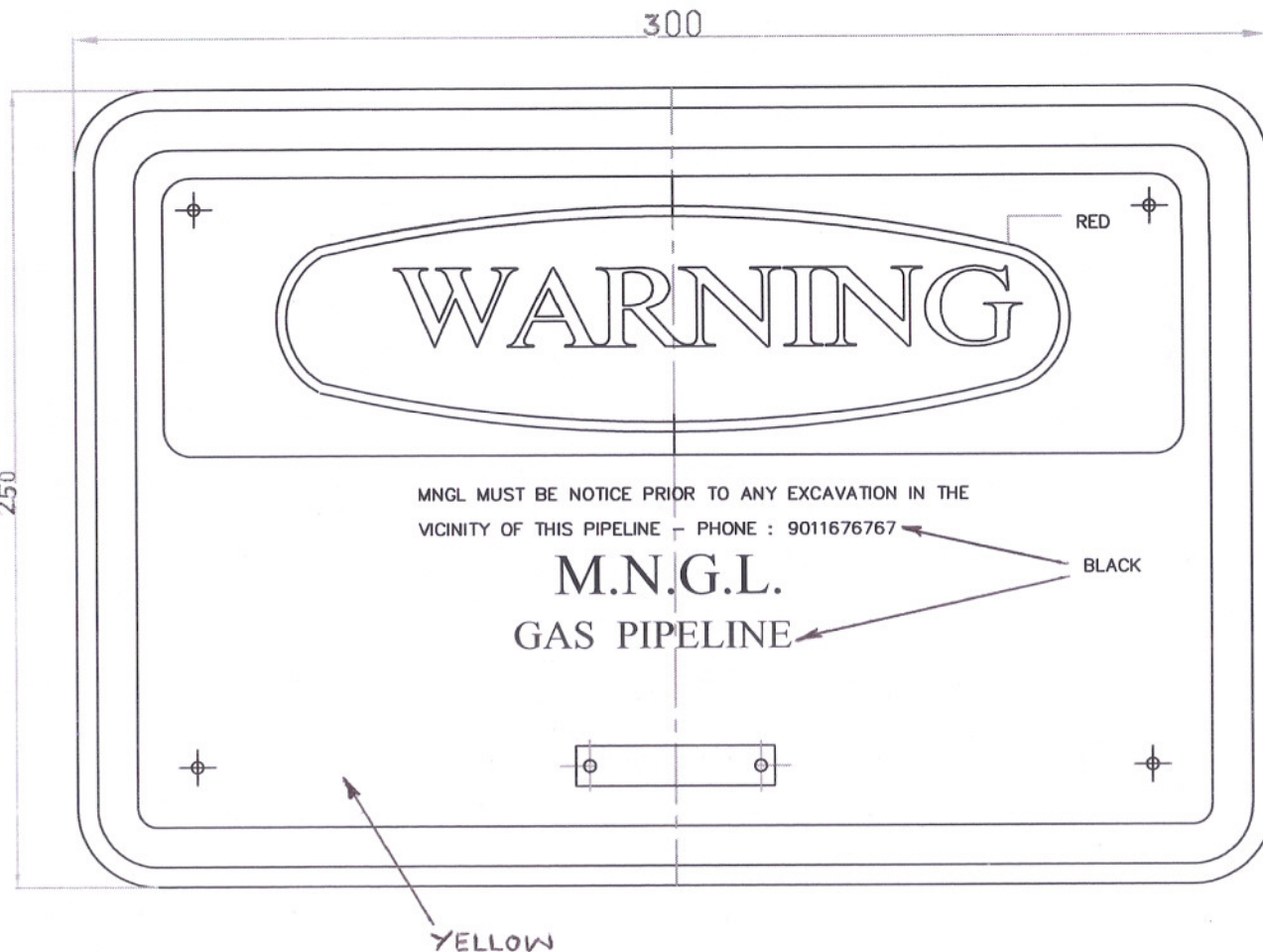
FOR TENDER PURPOSE

Drawing No.. 4

Road/Highway Cased Crossing For
MDPE Pipe



Maharashtra Natural Gas Limited



NOTES :-

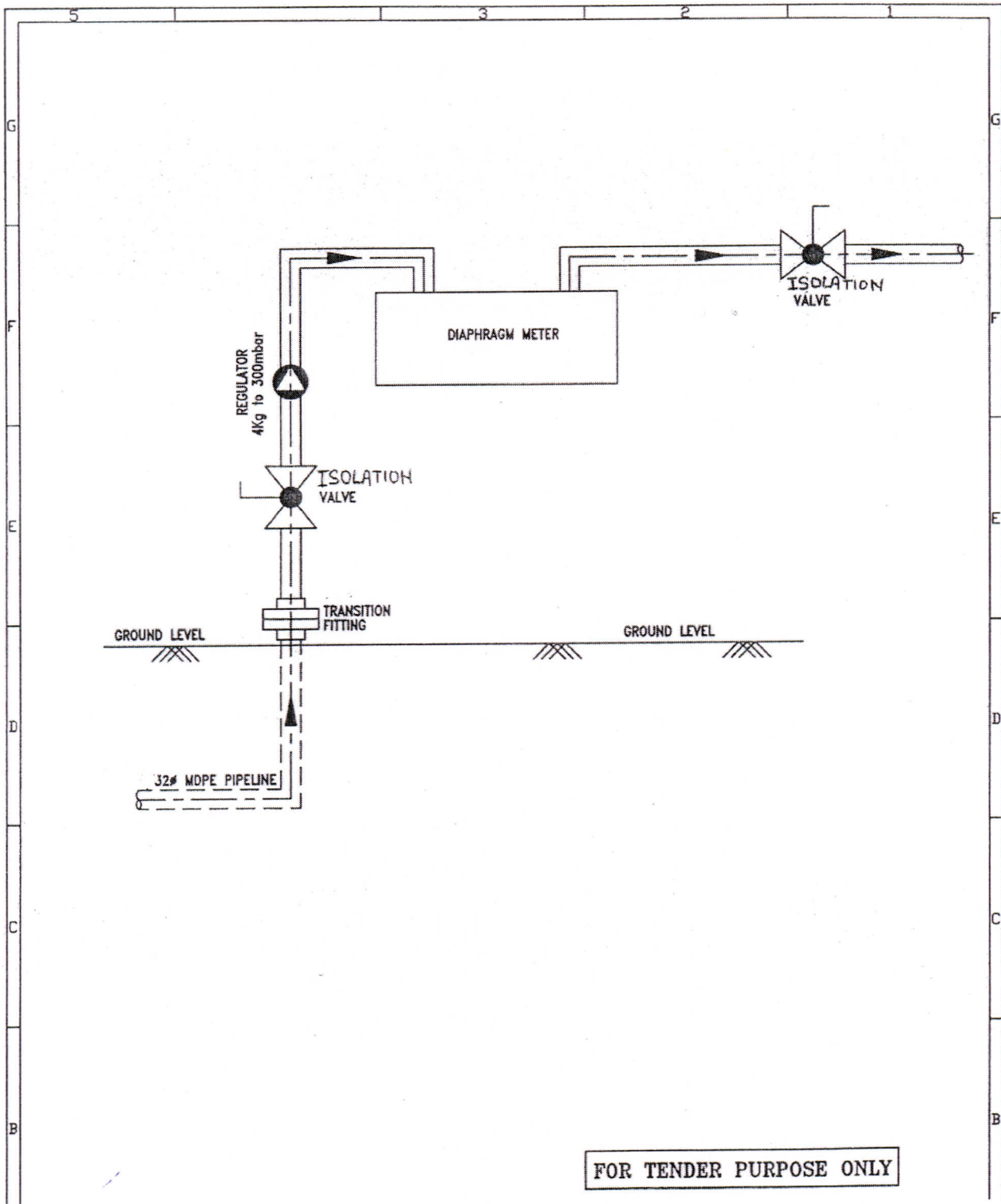
1. THE FULL WORKING AND WILL BE DECIDED BY ENGINEER -IN-CHARGE.
2. SCHEME FOR PAINTING & COLOURING
 - ONE COAT OF PRIMER & TWO COATS OF SPECIFIED COLOUR PAINT.
 - ALL LETTRS EXCEPT WARNING TO BE PAINTED BLACK.
3. SIGN PLATE IN REGIONAL LANGUAGE BE PREPARED BY CONTRACTOR AS DECIDED BY ENGINEER-IN-CHARGE.
4. FIXING ON PERMANENT STRUCTURE AS DECIDED BY ENGINEER-IN-CHARGE.
5. ALL DIMENSIONS IN MM, UNLESS OTHERWISE SPECIFIED.
6. 3MM THK G.I. SHEET TO BE USED AS BASE PLATE.

FOR TENDER PURPOSE

Drawing No.7

Warning plate without foundation

Maharashtra Natural Gas Limited



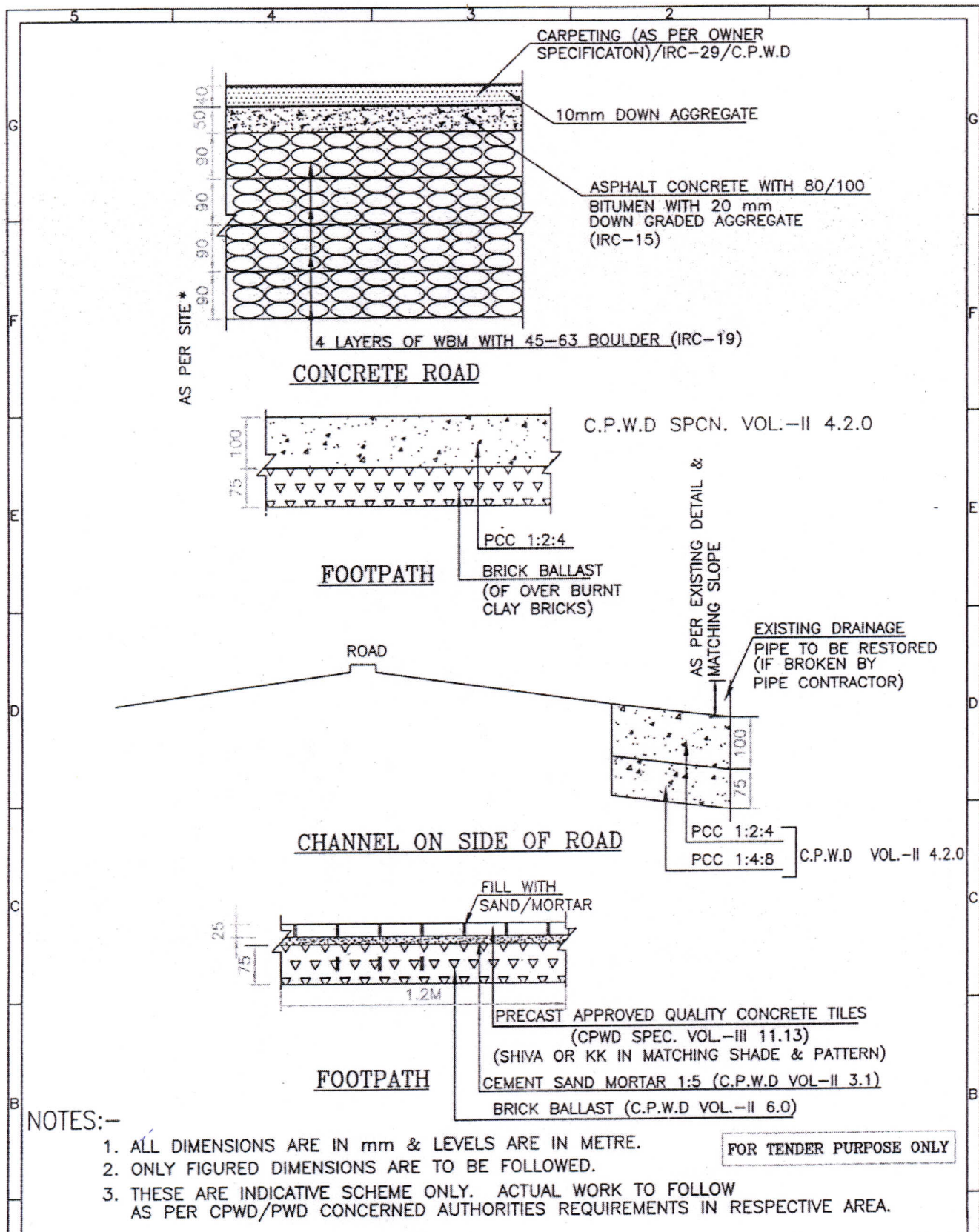
FOR TENDER PURPOSE ONLY

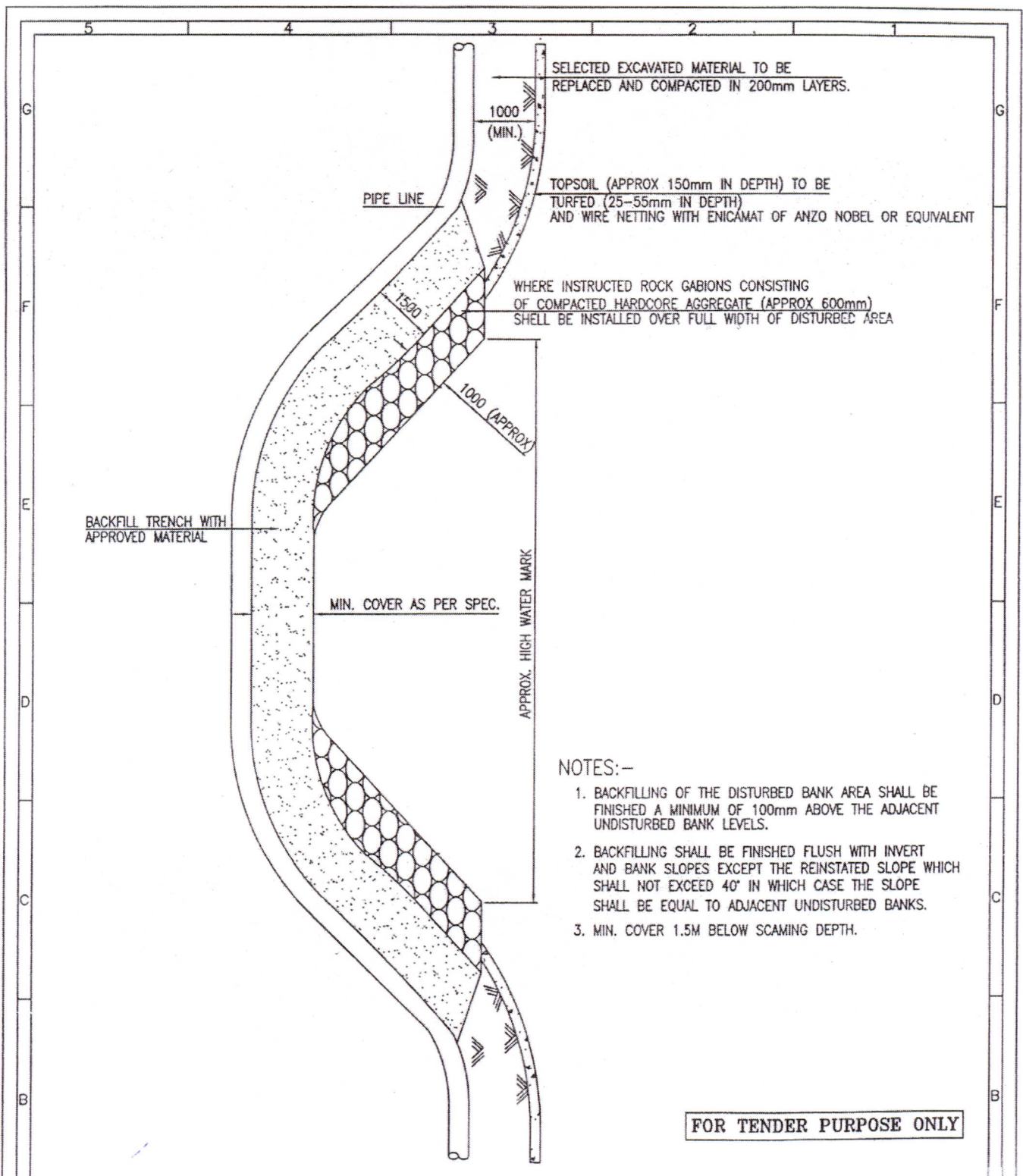
Drawing No.. 8

Commercial connection Scheme
Type I



Maharashtra Natural Gas Limited



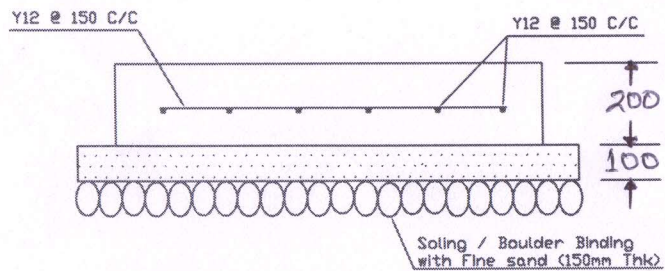


Drawing No.. 12

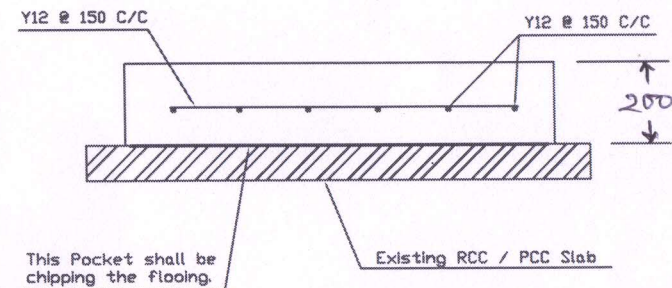
Std.Detail of Backfill For drain Crossing



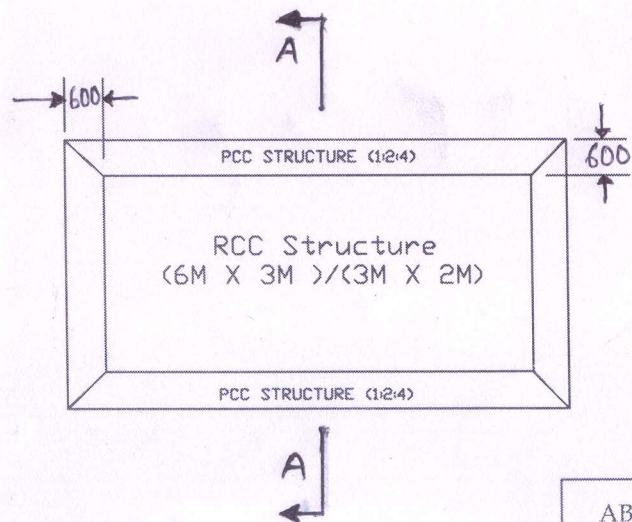
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SECTION A-A
(FOR UNPAVED AREA)



SECTION A-A
(FOR PAVED AREA)

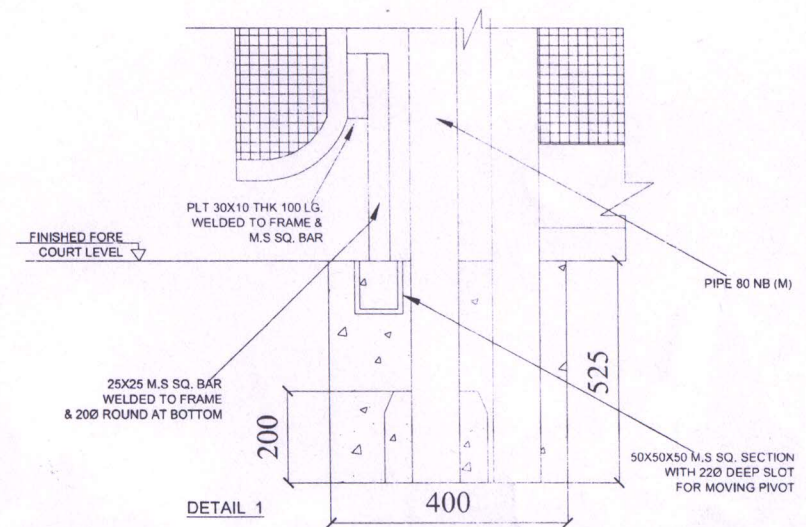
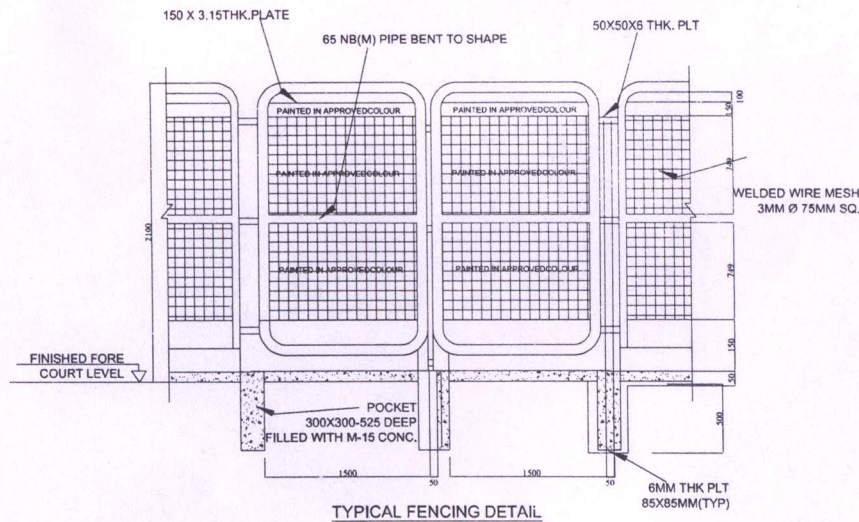
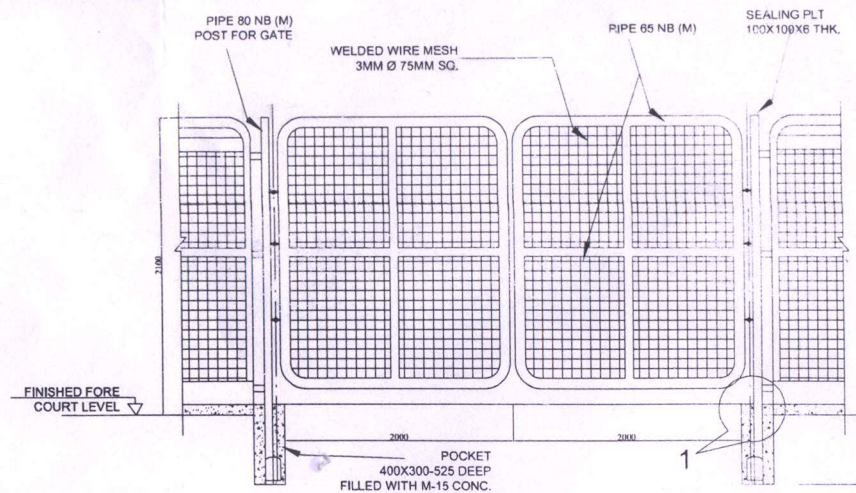
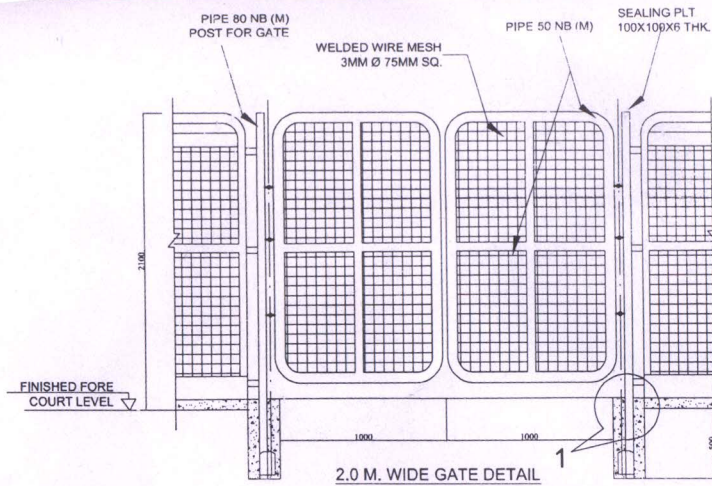


ABOVE GROUND RCC FOUNDATION DRAWING OF MRS / DRS

NOTE :

- 1) ALL DIMENSIONS ARE IN MM.
- 2) DO NOT SCALE THE DRAWING.
- 3) GRADE OF CONCRETE SHALL BE M - 15
- 4) REINFORCED CEMENT CONCRETE SHALL BE M20 WITH 12 MM.

DR.NO: MNG/ENG/DN-14



TITLE:-

TYPICAL DETAIL OF GATE & FENCING
(2100 MM HIGH)

DRA.NO: MNG/L/PNG/DN-16

DSGN:

DRWN:

CHKD. & VERIFIED:

APPROVED:



MAHARASTRA NATURAL
GAS LIMITED

CNG & CITY GAS DISTRUBUTION NETWORK PUNE

NORTH

DATE

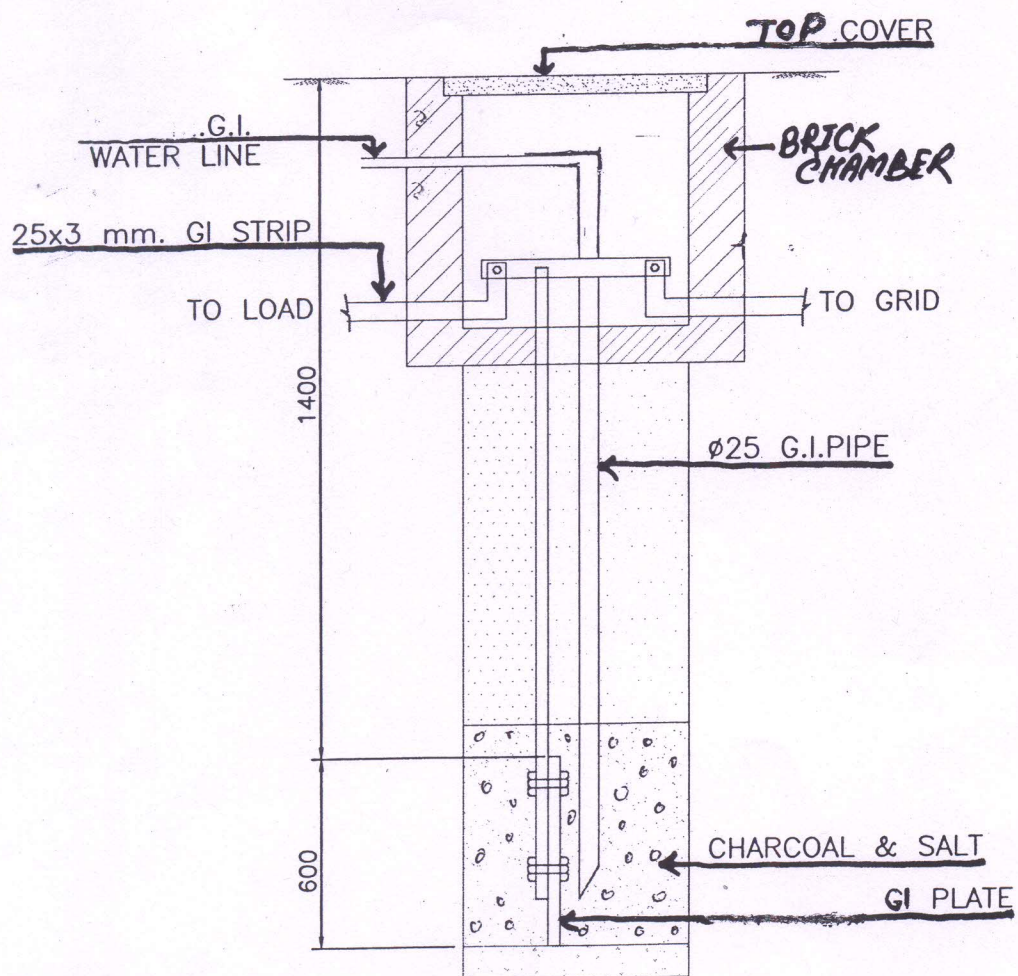
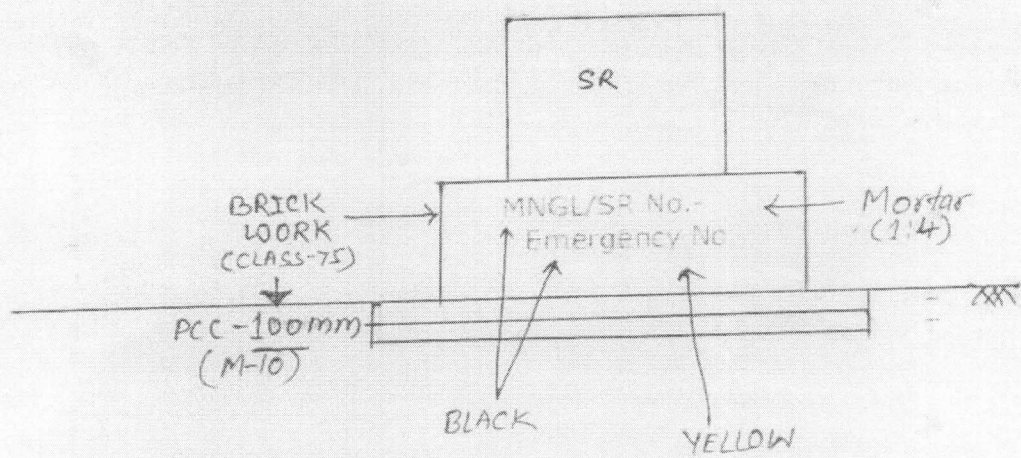


PLATE EARTHING PIT

DRAWING NO: MNG/ING/DN-15

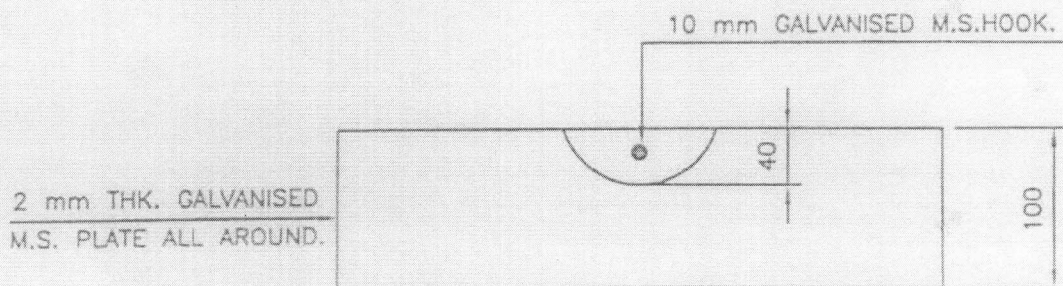
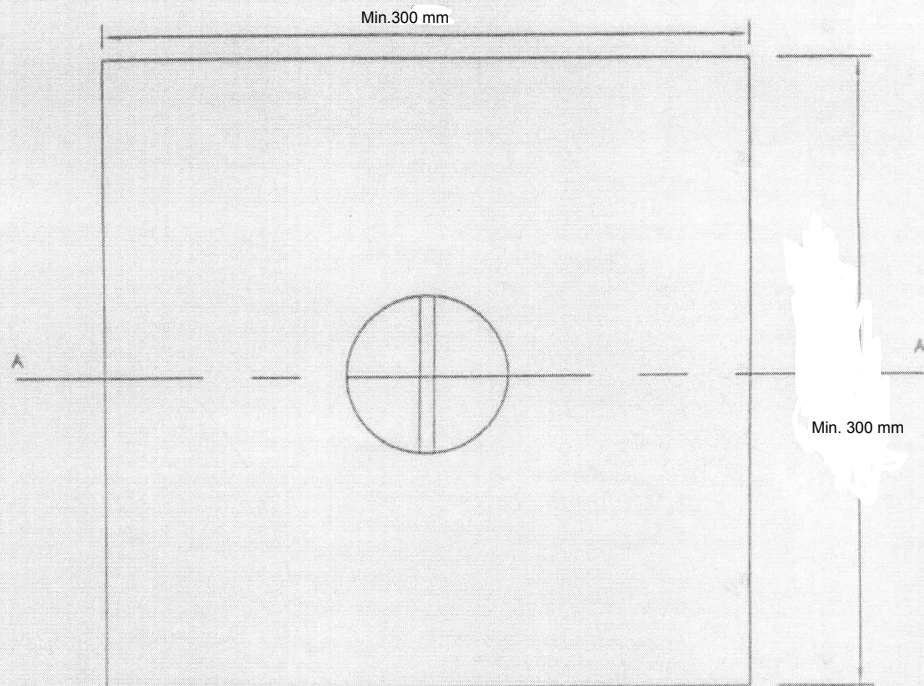
MAHARASHTRA NATURAL GAS LIMITED			
ORDER BY PLNG	DATE: 06/05/04	TITLE - RCC PIT FOR PE STOP-OFF VALVE(#63 TO 125 mm)	
CHECKED BY	DATE:		
APPROV. BY --	DATE:	DRAWING NO: MNG/L/ENG/CIVIL/10A	REV. 0



SR INSTALLATION

THIS PRINT IS THE PROPERTY OF MAHARASHTRA GAS LTD. IT IS TO BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS SENT AND MUST NOT BE USED IN ANY WAY PERTINENT TO THE INTEREST OF THIS COMPANY AND IS SUBJECT TO RETURN ON DEMAND.

PLANNING.	REV NO.	DATE.	DESCRIPTION	BY.	CHK.	APPR.
	0	06.05.04		PLNG		



SECTION A-A

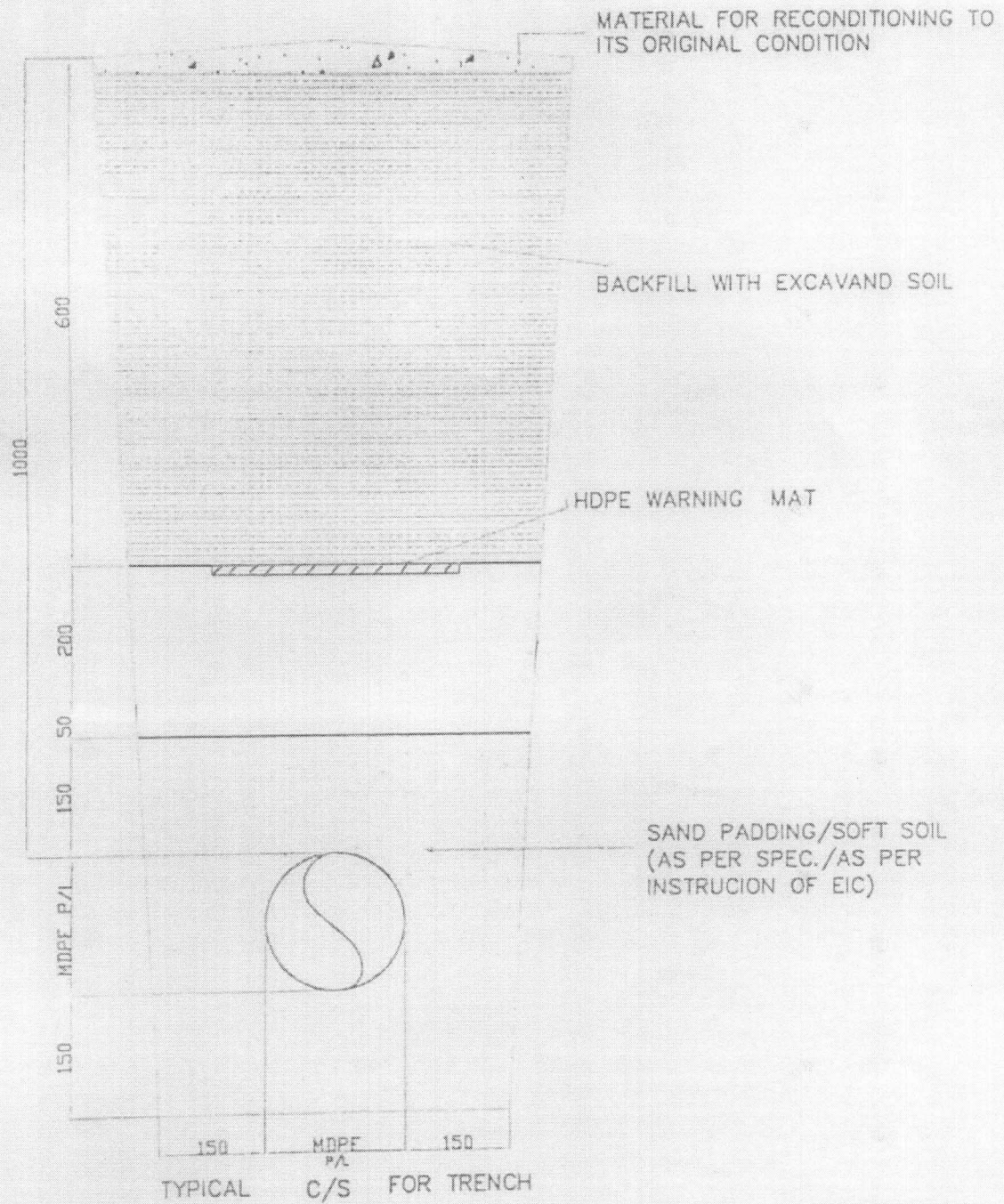
NOTE:-

1. ALL DIMENSIONS ARE IN MM.
2. THE SFRC COVER SHALL HAVE REINFORCED CONCRET OF GRADE M-35 CONFORMING TO IS:456-1978.
3. HEAVY LOAD TEST : SUITABLE FOR 'A' CLASS LOADING
4. PERFORMANCE REQUIREMENTS-
 - a) SAMPLING AND CRITERIA FOR CONFORMITY: AS PER IS:12592 (Part-1) - 1998
 - b) LOAD TEST: AS PER IS:12592 (Part-1) - 1998
 - c) INSPECTION AND MANUFACTURES GUARANTEE : AS PER IS:12592 (Part-1) - 1998

NOT TO SCALE

MAHARASHTRA NATURAL GAS LIMITED	TITLE : COVER FOR PE STOP OFF VALVE PIT.	DRAWING NO: MNGL/ENG/CIVIL/100	REV.
			0

REINSTATEMENT SPECIFICATION
TRENCH CROSS SECTION (TYPICAL)
SINGLE MDPE PIPELINE LAYING



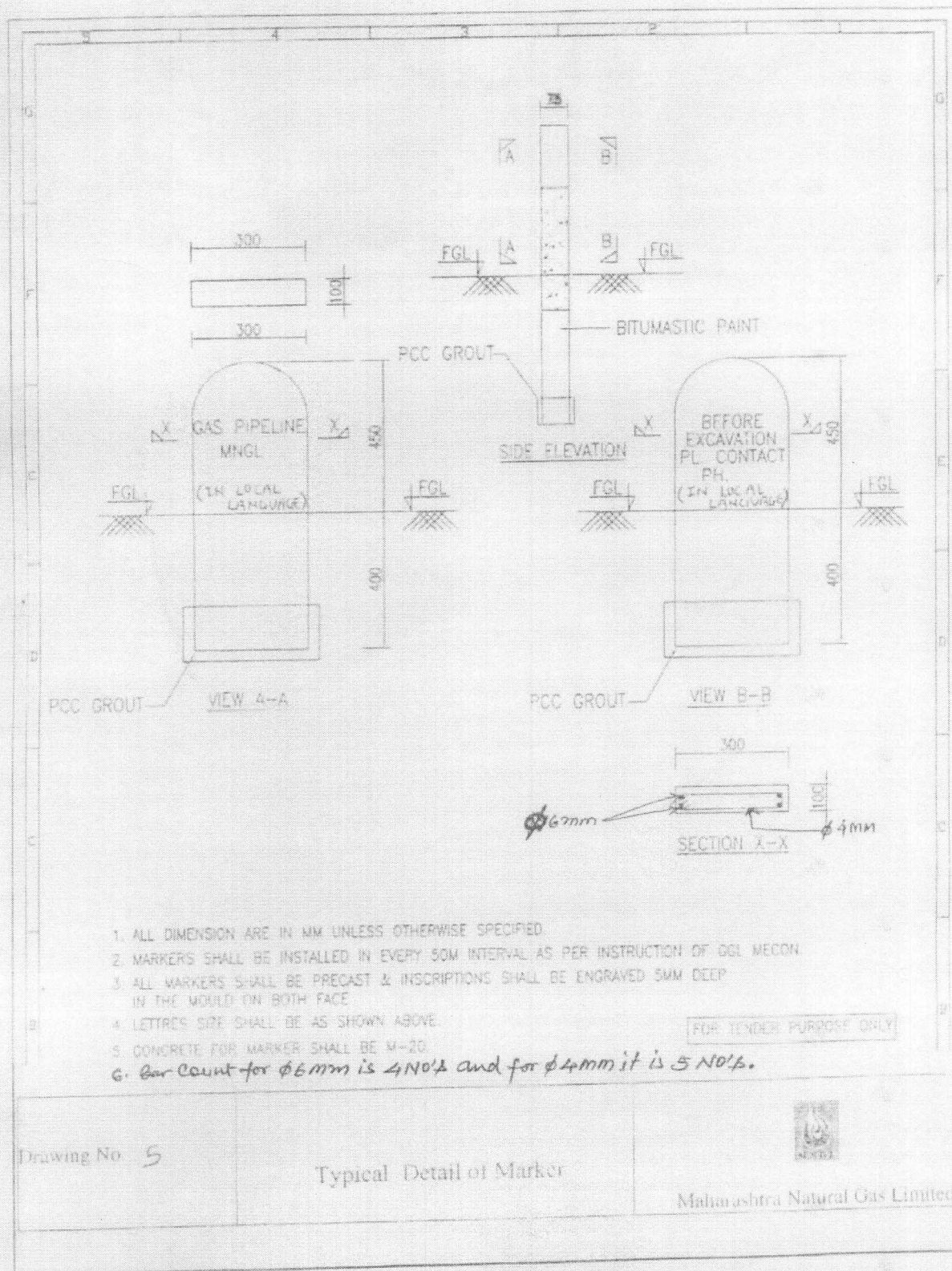
NOTES: -
1. ALL DIMENSIONS ARE IN MM

FOR TENDER PURPOSE ONLY

Drawing No. 9

Reinstatement specification
Trench Cross-section (Typical)
single MDPE pipeline laying

Marashtara natural Gas Limited



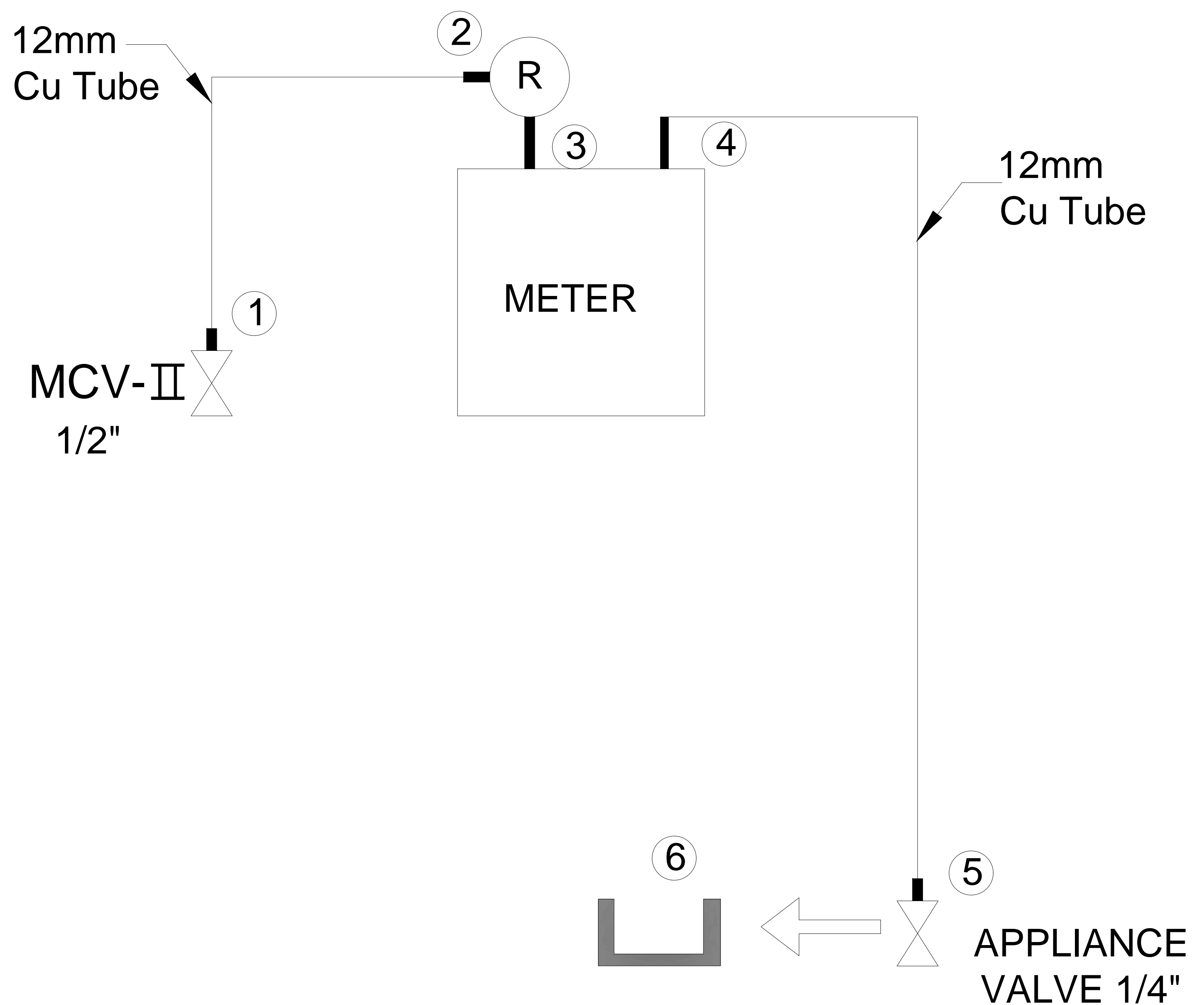
Drawing No. 5

Typical Detail of Marker



Maharashtra Natural Gas Limited

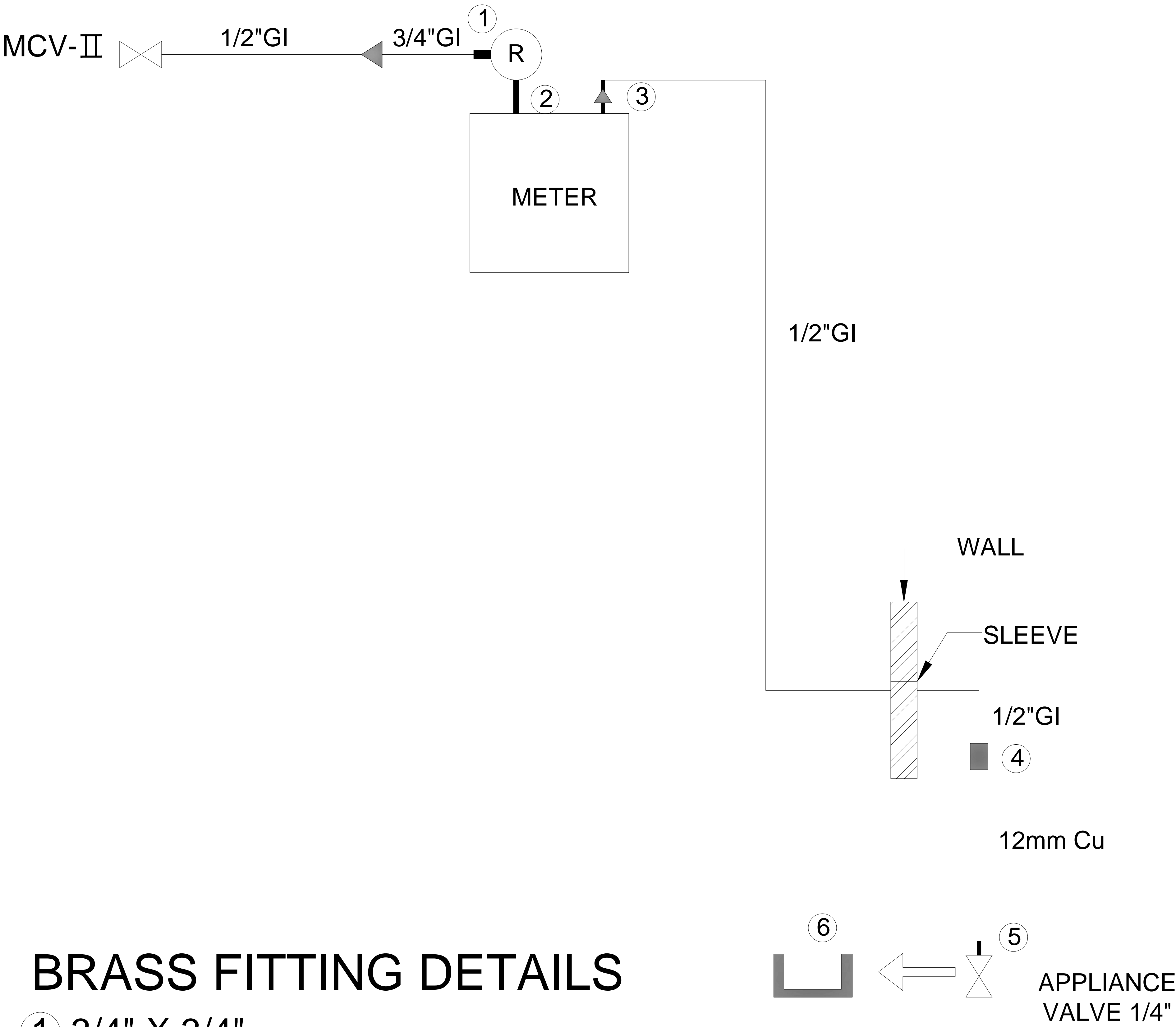
D - PNG METER WITH Cu



BRASS FITTING DETAILS

- ① 1/2" X 12mm
- ② 12mm X 3/4"
- ③ 3/4" X 3/4"
- ④ 3/4" X 12mm
- ⑤ 12mm X 1/4"
- ⑥ 12mm end plug

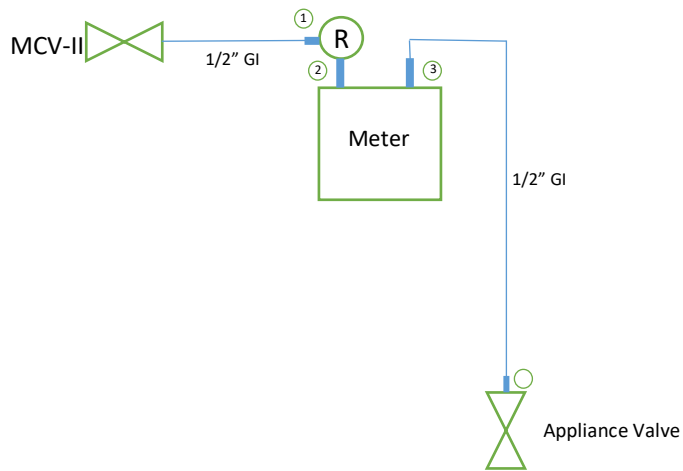
D - PNG METER WITH GI AND Cu



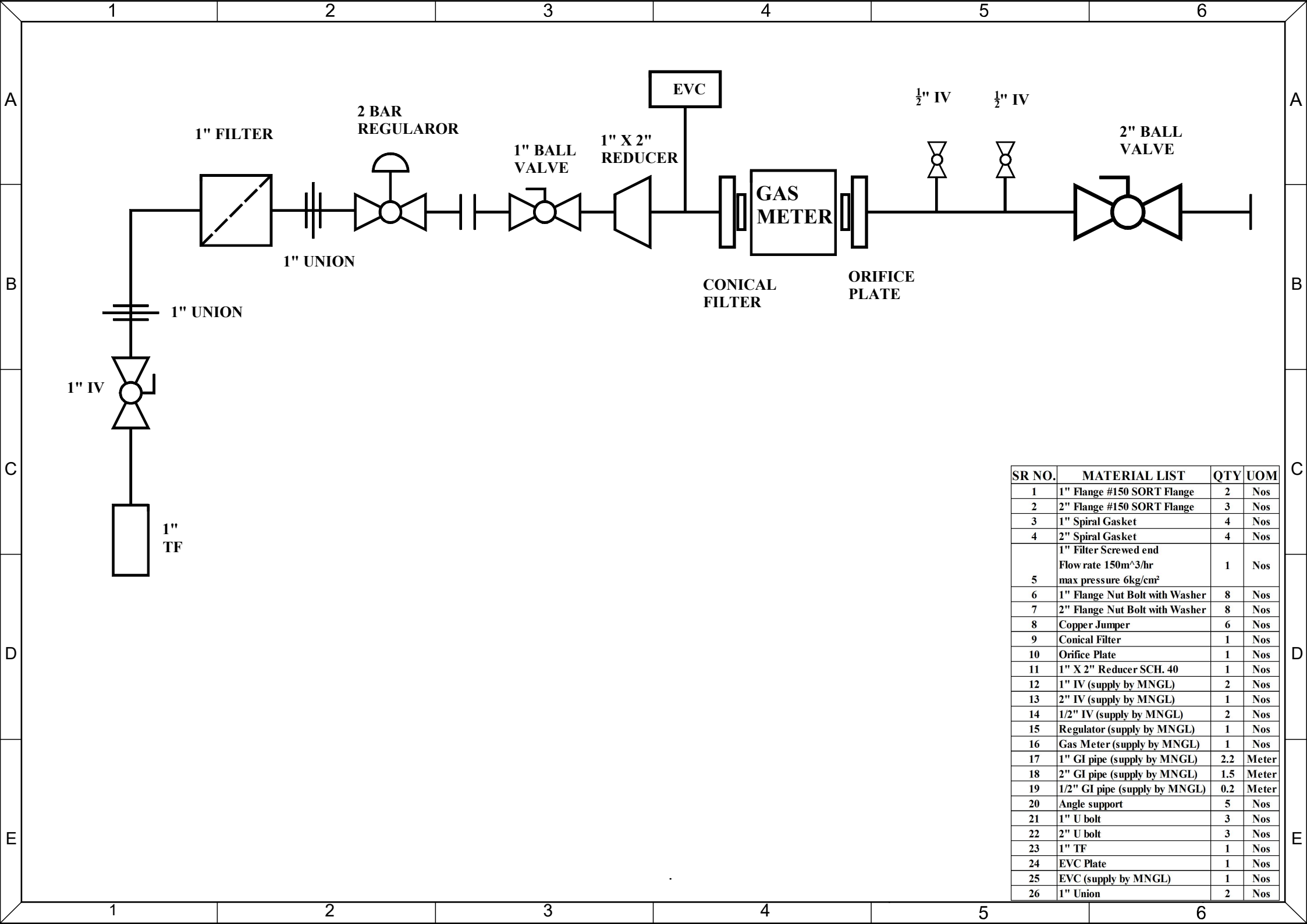
BRASS FITTING DETAILS

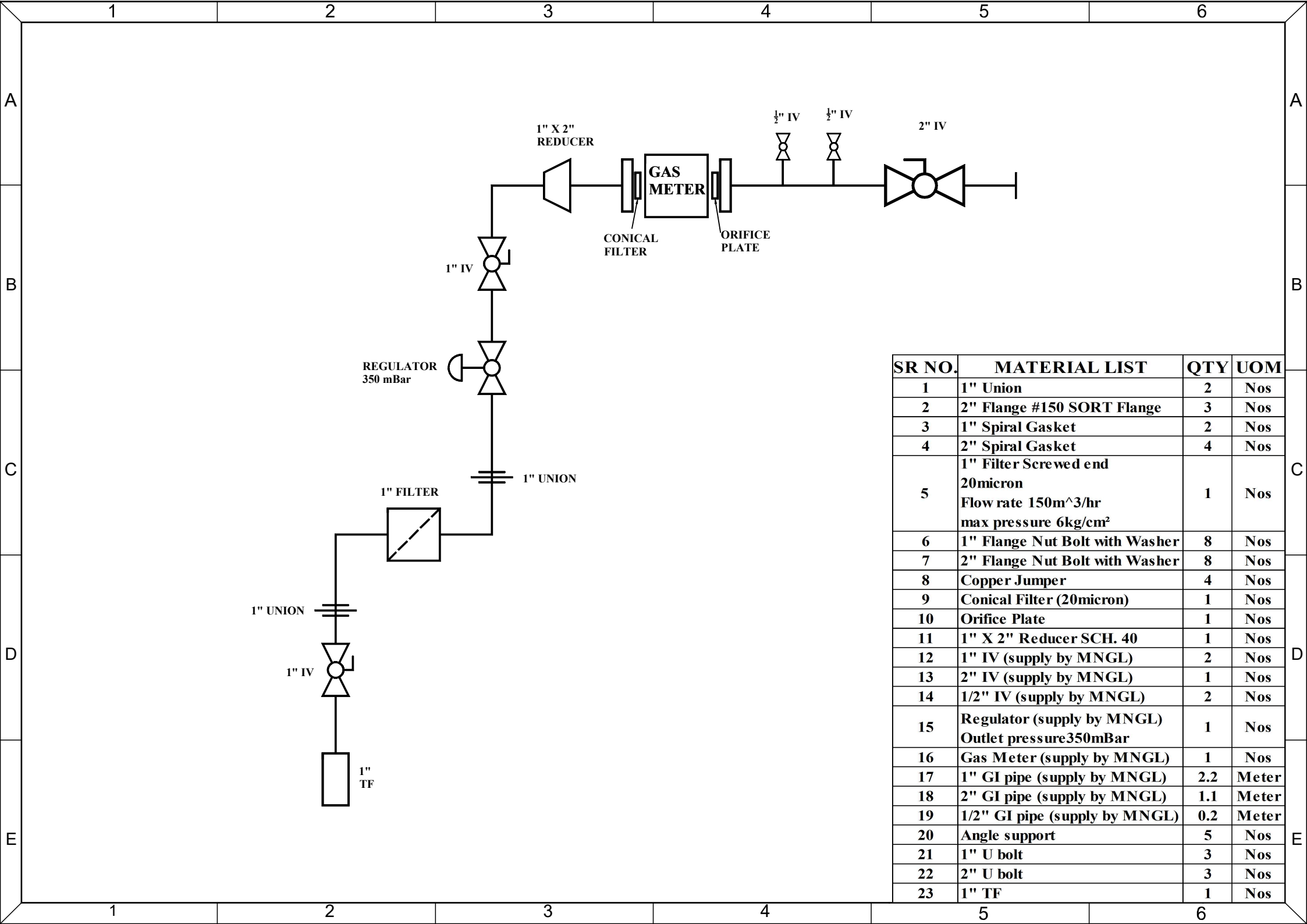
- (1) 3/4" X 3/4"
- (2) 3/4" X 3/4"
- (3) 3/4" X 3/4"
- (4) 1/2" X 12mm CONNECTOR
- (5) 12mm X 1/4"
- (6) 12mm end plug

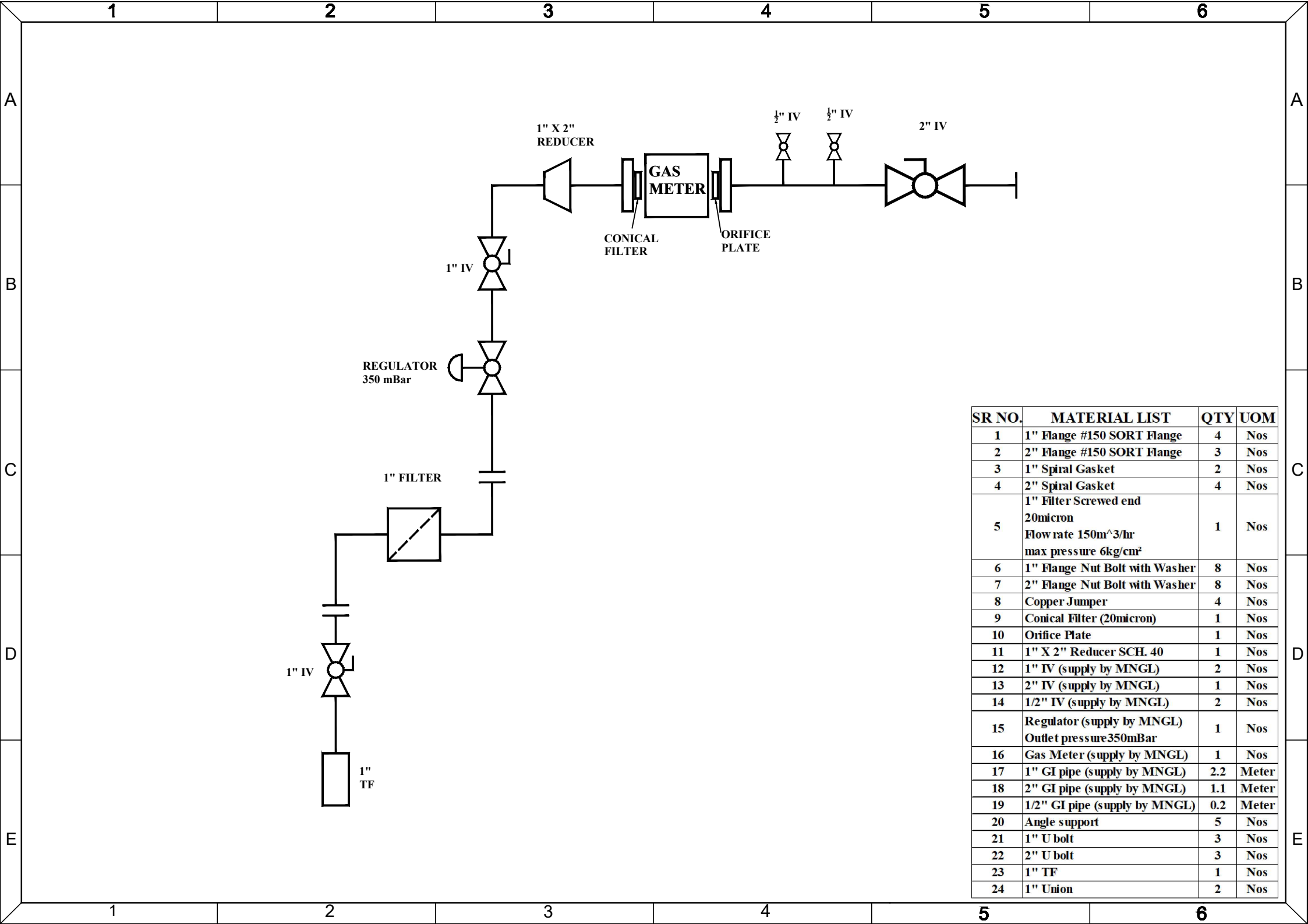
D-PNG Meter Installation with GI

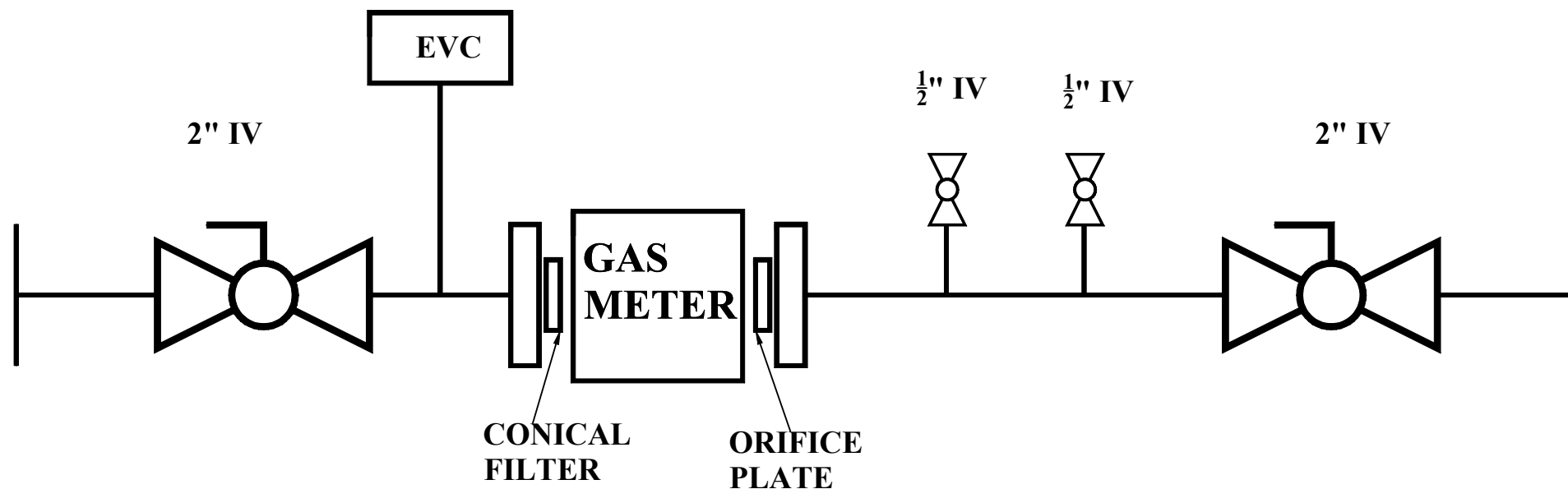


1. 1/2" X 3/4" Brass Adaptor
2. 3/4" X 3/4" Brass Adaptor
3. 1/2" X 3/4" Brass Adaptor









SR NO.	MATERIAL LIST	QTY	UOM
1	2" Flange #150 SORT Flange	4	Nos
2	2" Spiral Gasket	4	Nos
3	Copper Jumper	4	Nos
4	2" Flange Nut Bolt with Washer	16	Nos
5	Conical Filter	1	Nos
6	Orifice Plate	1	Nos
7	EVC Plate	1	Nos
8	EVC (supply by MNGL)	1	Nos
9	2" IV (supply by MNGL)	2	Nos
10	1/2" IV (supply by MNGL)	2	Nos
11	Gas Meter (supply by MNGL)	1	Nos
12	2" GI pipe (supply by MNGL)	1.5	Meter
13	1/2" GI pipe (supply by MNGL)	0.2	Meter
14	Angle support	3	Nos
15	2" U bolt	4	Nos

NOTE : - THIS TYPICAL SCHEMATIC ASSEMBLY MAY BE USE TO INSTALL ON DOWNSTREAM NETWORK OF MRS (2 BAR OUTLET PRESSURE)