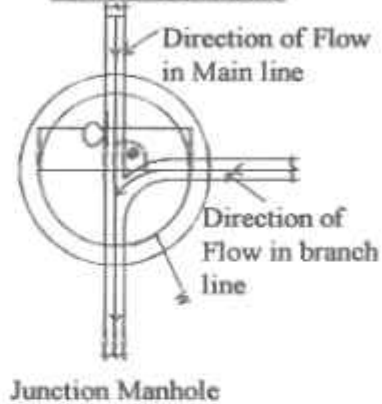


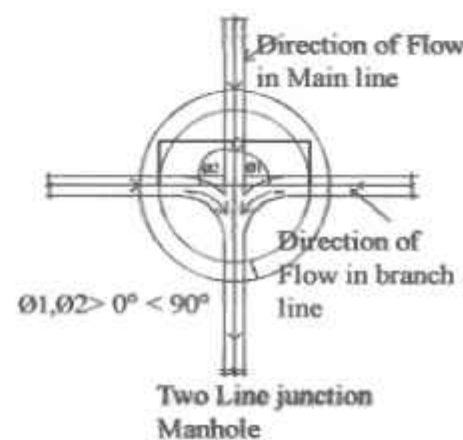
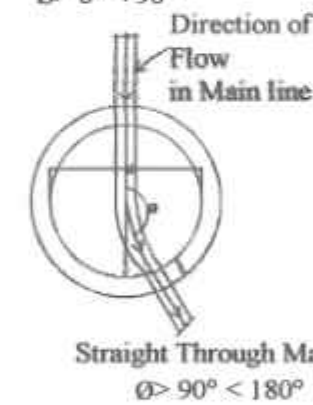
NOTES-

- THE SEWER LINE SHALL BE LAID ON P.C.C. (150THK) OVER COMPACTED EARTH.
- SEWER LINE SHALL BE TESTED FOR ITS LEAKAGE/ INFILTRATION AS RELEVANT IS CODE/MANUAL BEFORE ITS COMMISSIONING.
- ALL MANHOLES SHOULD HAVE UNCLIP PIPE INSIDE AT BASE WHICH SHALL BE CUT DURING COMMISSIONING.
- THE MINIMUM INVERT LEVEL SHALL BE 500 MM BELOW EXISTING GROUND.
- MAXIMUM DISTANCE BETWEEN TWO MANHOLES SHALL BE AS PER THE GIVEN TABLE OR AS PER DESIGN.
- DROP MANHOLE SHALL BE PROVIDED WHERE THE DIFFERENCE OF TWO INVERT LEVEL AT A JOINT IS MORE THAN 600 MM.
- ALL PIPES USED UP TO DIAMETER 160MM SHOULD BE SWR CONFORMING TO IS 13592:92 & FITTINGS SHOULD CONFORM TO IS 14735:99 & DIAMETER MORE THAN 160MM SHOULD BE uPVC PRESSURE PIPES & CONFORM TO IS 4985:2000 CLASS B.
- THE WIDTH/DIAMETER OF THE MANHOLE SHOULD NOT BE LESS THAN INTERNAL DIAMETER OF THE SEWER + 150MM BENCHING ON BOTH SIDES (150MM + 150MM).
- MANHOLES SHOULD BE BUILT AT EVERY CHANGE OF ALIGNMENT, GRADIENT OR DIAMETER, AT THE HEAD OF ALL SEWERS & BRANCHES & AT EVERY JUNCTION OF TWO OR MORE SEWERS.
- ON SEWERS WHICH ARE TO BE CLEANED MANUALLY, WHICH CANNOT BE ENTERED FOR CLEANING OR INSPECTION, THE MAXIMUM DISTANCE BETWEEN MANHOLES CAN BE AT 30M MAXIMUM.
- LOCATION OF HOUSE CONNECTION MANHOLE ARE INDICATIVE ONLY, FINAL LOCATION IS TO BE DETERMINE BY SITE ENGINEER AS PER THE INTERNAL PLUMBING OF SAID HOUSE

Plan of Manhole



$\theta > 90^\circ < 180^\circ$



d = 900 mm for depth < 1000 mm.
d = 1200 mm for depth > 1000 mm.
w = width of outer wall as per structure Engineer.

LEGEND

	Sewer Line (DWC SN-4 Class pipe with integral socket conforming to IS 16098, Size As Per DWG.)
	Mainhole
	Mainhole No.
	Flow Direction

Width of Manhole

S. No.	Depth	Width
1.	Upto 900 mm	900 x 800 mm
2.	0.9 And Upto 2.5 m	900 mm

Line element no.	starting point	end point	pipe size in inches	pipe length in meter	level of pipe line at start point in m	slope ratio 1 in	Calculated FFL	Expected depth of manhole in mm from Head FFL
TRUNK LINE								
SL-1	MH-1	MH-2	6"	14.94	99.40	245	100.00	0.60
SL-2	MH-2	MH-3	6"	15.24	99.34	245	100.00	0.66
SL-3	MH-3	MH-4	6"	15.24	99.28	245	100.00	0.72
SL-4	MH-4	MH-5	6"	15.24	99.23	245	100.00	0.79
SL-5	MH-5	MH-6	6"	15.24	99.15	245	100.00	0.85
SL-6	MH-6	MH-7	6"	16.02	99.09	245	100.00	0.91
SL-7	MH-7	MH-8	6"	9.74	99.05	245	100.00	0.95
SL-8	MH-8	MH-9	6"	14.99	99.01	245	100.00	0.99
SL-9	MH-9	MH-10	6"	31.29	98.95	245	100.00	1.05
SL-10	MH-10	MH-11	6"	7.11	98.82	245	100.00	1.10
SL-11	MH-11	MH-12	6"	31.66	98.79	245	100.00	1.21
SL-12	MH-12	MH-13	6"	12.93	98.66	245	100.00	1.34
SL-13	MH-13	MH-14	6"	13.62	98.61	245	100.00	1.39
SL-14	MH-14	MH-15	6"	4.77	98.55	245	100.00	1.45
SL-15	MH-15	MH-16	6"	16.24	98.53	245	100.00	1.47
SL-16	MH-16	MH-17	6"	13.42	98.47	245	100.00	1.53
SL-17	MH-17	MH-18	6"	13.42	98.41	245	100.00	1.59
SL-18	MH-18	MH-19	6"	13.42	98.36	245	100.00	1.64
SL-19	MH-19	MH-20	6"	13.42	98.30	245	100.00	1.70
SL-20	MH-20	MH-21	6"	13.42	98.25	245	100.00	1.75
SL-21	MH-21	MH-22	6"	13.42	98.19	245	100.00	1.81
SL-22	MH-22	MH-23	6"	8.24	98.14	245	100.00	1.86
SL-23	MH-23	MH-24	6"	9.33	98.11	245	100.00	1.89
SL-24	MH-24	MH-25	6"	19.16	98.07	245	100.00	1.93
SL-25	MH-25	MH-26	6"	3.3	97.99	245	100.00	2.01
SL-26	MH-26	STP	8"	2.92	97.93	360	100.00	2.07
BRANCH LINE FROM MH-8								
SL-8.1	MH-8.1	MH-8.2	6"	13.69	99.40	245	100.00	0.60
SL-8.2	MH-8.2	MH-8.3	6"	13.62	99.34	245	100.00	0.66
SL-8.3	MH-8.3	MH-8.4	6"	13.62	99.29	245	100.00	0.71
SL-8.4	MH-8.4	MH-8.5	6"	13.62	99.23	245	100.00	0.77
SL-8.5	MH-8.5	MH-8.6	6"	13.62	99.18	245	100.00	0.82
SL-8.6	MH-8.6	MH-8.7	6"	13.62	99.12	245	100.00	0.88
SL-8.7	MH-8.7	MH-8	6"	13.62	99.07	245	100.00	0.93
BRANCH LINE FROM MH-10								
SL-10.1	MH-10.1	MH-10.2	6"	13.69	99.40	245	100.00	0.60
SL-10.2	MH-10.2	MH-10.3	6"	13.62	99.34	245	100.00	0.66
SL-10.3	MH-10.3	MH-10.4	6"	13.62	99.29	245	100.00	0.71
SL-10.4	MH-10.4	MH-10.5	6"	13.62	99.23	245	100.00	0.77
SL-10.5	MH-10.5	MH-10.6	6"	13.62	99.18	245	100.00	0.82
SL-10.6	MH-10.6	MH-10.7	6"	13.62	99.12	245	100.00	0.88
SL-10.7	MH-10.7	MH-10.8	6"	13.62	99.07	245	100.00	0.93
SL-10.8	MH-10.8	MH-10	6"	14.99	99.01	245	100.00	0.99
BRANCH LINE FROM MH-21								
SL-11.1	MH-11.1	MH-11.2	6"	13.32	99.40	245	100.00	0.60
SL-11.2	MH-11.2	MH-11.3	6"	13.62	99.35	245	100.00	0.65
SL-11.3	MH-11.3	MH-11.4	6"	13.62	99.29	245	100.00	0.71
SL-11.4	MH-11.4	MH-11	6"	16.75	99.23	245	100.00	0.77
BRANCH LINE FROM MH-25								
SL-15.1	MH-15.1	MH-15	6"	8.55	99.40	245	100.00	0.60
BRANCH LINE FROM MH-26								
SL-26.1	MH-26.1	MH-26.2	6"	9.81	99.40	245	100.00	0.60
SL-26.2	MH-26.2	MH-26.3	6"	9.15	99.36	245	100.00	0.64
SL-26.3	MH-26.3	MH-26.4	6"	9.15	99.32	245	100.00	0.68
SL-26.4	MH-26.4	MH-26.5	6"	9.15	99.29	245	100.00	0.71
SL-26.5	MH-26.5	MH-26.6	6"	9.15	99.25	245	100.00	0.75
SL-26.6	MH-26.6	MH-26.7	6"	8.74	99.21	245	100.00	0.79
SL-26.7	MH-26.7	MH-26.8	6"	12.71	99.18	245	100.00	0.82
SL-26.8	MH-26.8	MH-26.9	6"	12.45	99.12	245	100.00	0.88
SL-26.9	MH-26.9	MH-26.10	6"	11.13	99.07	245	100.00	0.93
SL-26.10	MH-26.10	MH-26.11	6"	9.15	99.03	245	100.00	0.97
SL-26.11	MH-26.11	MH-26.12	6"	9.16	98.99	245	100.00	1.01
SL-26.12	MH-26.12	MH-26.13	6"	9.15	98.95	245	100.00	1.05
SL-26.13	MH-26.13	MH-26.14	6"	9.15	98.92	245	100.00	1.08
SL-26.14	MH-26.14	MH-26.15	6"	9.15	98.88	245	100.00	1.12
SL-26.15	MH-26.15	MH-26.16	6"	8.73	98.84	245	100.00	1.16
SL-26.16	MH-26.16	MH-26.17	6"	6.47	98.81	245	100.00	1.19
SL-26.17	MH-26.17	MH-26.18	6"	6.95	98.78	245	100.00	1.22
SL-26.18	MH-26.18	MH-26.19	6"	8.74	98.75	245	100.00	1.25
SL-26.19	MH-26.19	MH-26.20	6"	8.09	98.72	245	100.00	1.28
SL-26.20	MH-26.20	MH-26.21	6"	8.23	98.68	245	100.00	1.32
SL-26.21	MH-26.21	MH-26.22	6"	8.23	98.65	245	100.00	1.35
SL-26.22	MH-26.22	MH-26.23	6"	8.23	98.61	245	100.00	1.39
SL-26.23	MH-26.23	MH-26.24	6"	8.23	98.58	245	100.00	1.42
SL-26.24	MH-26.24	MH-26.25	6"	5.28	98.55	245	100.00	1.45
SL-26.25	MH-26.25	MH-26.26	6"	23.36	98.52	245	100.00	1.48
SL-26.26	MH-26.26	MH-26.27	6"	15.41	98.43	245	100.00	1.57
SL-26.27	MH-26.27	MH-26.28	6"	6.65	98.37	245	100.00	1.63
SL-26.28	MH-26.28	MH-26	6"	4.98	98.34	245	100.00	1.66
BRANCH LINE FROM MH-27								
SL-26.27.1	MH-26.27.1	MH-26.27.2	6"	13.31	99.40	245	100.00	0.60
SL-26.27.2	MH-26.27.2	MH-26.27.3	6"	13.61	99.35	245	100.00	0.65
SL-26.27.3	MH-26.27.3	MH-26.27.4	6"	13.61	99.29	245	100.00	0.71
SL-26.27.4	MH-26.27.4	MH-26.27.5	6"	16.83	99.23	245	100.00	0.77
SL-26.27.5	MH-26.27.5	MH-26.27.6	6"	12.39	99.17	245	100.00	0.83
SL-26.27.6	MH-26.27.6	MH-26.27.7	6"	15.03	99.12	245	100.00	0.88
SL-26.27.7	MH-26.27.7	MH-26.27.8	6"	13.61	99.06	245	100.00	0.94
SL-26.27.8	MH-26.27.8	MH-26.27.9	6"	13.61	99.00	245	100.00	1.00
SL-26.27.9	MH-26.27.9	MH-26.27.10	6"	13.61	98.94	245	100.00	1.06
SL-26.27.10	MH-26.27.10	MH-26.27.11	6"	13.61	98.89	245	100.00	1.11
SL-26.27.11	MH-26.27.11	MH-26.27.12	6"	6.79	98.83	245	100.00	1.17
SL-26.27.12	MH-26.27.12	MH-26.27.13	6"	13.53	98.81	245	100.00	1.19
SL-26.27.13	MH-26.27.13	MH-26.27.14	6"	13.61	98.75	245	100.00	1.25
SL-26.27.14	MH-26.27.14	MH-26.27.15	6"	13.61	98.70	245	100.00	1.30
SL-26.27.15	MH-26.27.15	MH-26.27.16	6"	13.61	98.64	245	100.00	1.36
SL-26.27.16	MH-26.27.16	MH-26.27	6"	6.91	98.58	245	100.00	1.42

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SHEET DETAILS:
Sheet No.: 2
Sheet Size: A2
Version: V1

Engineers' Details:
Drawn By:- Ankit Sachdeva
Design Engineer - PHE
Checked By:- DINKAR SAXENA

Current Version Notes:-
Previous Version No. & Date:-
Ver-1
Version Notes:

Technical Notes:-
Previous Version No. & Date:-
Version Notes:

NORTH:
Drawing Title:
Sewer Line

Project Name:
M/s Chanda Green Residency, Mathura
Signature (Issued By):
DINKAR SAXENA
M.Sc., M.T.E., C.Eng., F.I.P.H.E.
CHARTERED ENGINEER

For engineering details please refer to see attached calculations. All structural detail are suggestive in nature and are need to have revision by structural engineers.

PURPOSE OF DRAWING:
Tender Approval G.F.C.
Signature (Drawn By):

Drawing Number:
DRS-D-403-SL/24
Date: 16-02-2024
Client's Name:

Version Details:- Version No:-
Date Of Version:-
Description:- Sewer Line

Previous Version No. & Date:-
Ver-1
Version Notes:

Previous Version No. & Date:-
Version Notes:

Previous Version No. & Date:-
Version Notes:

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