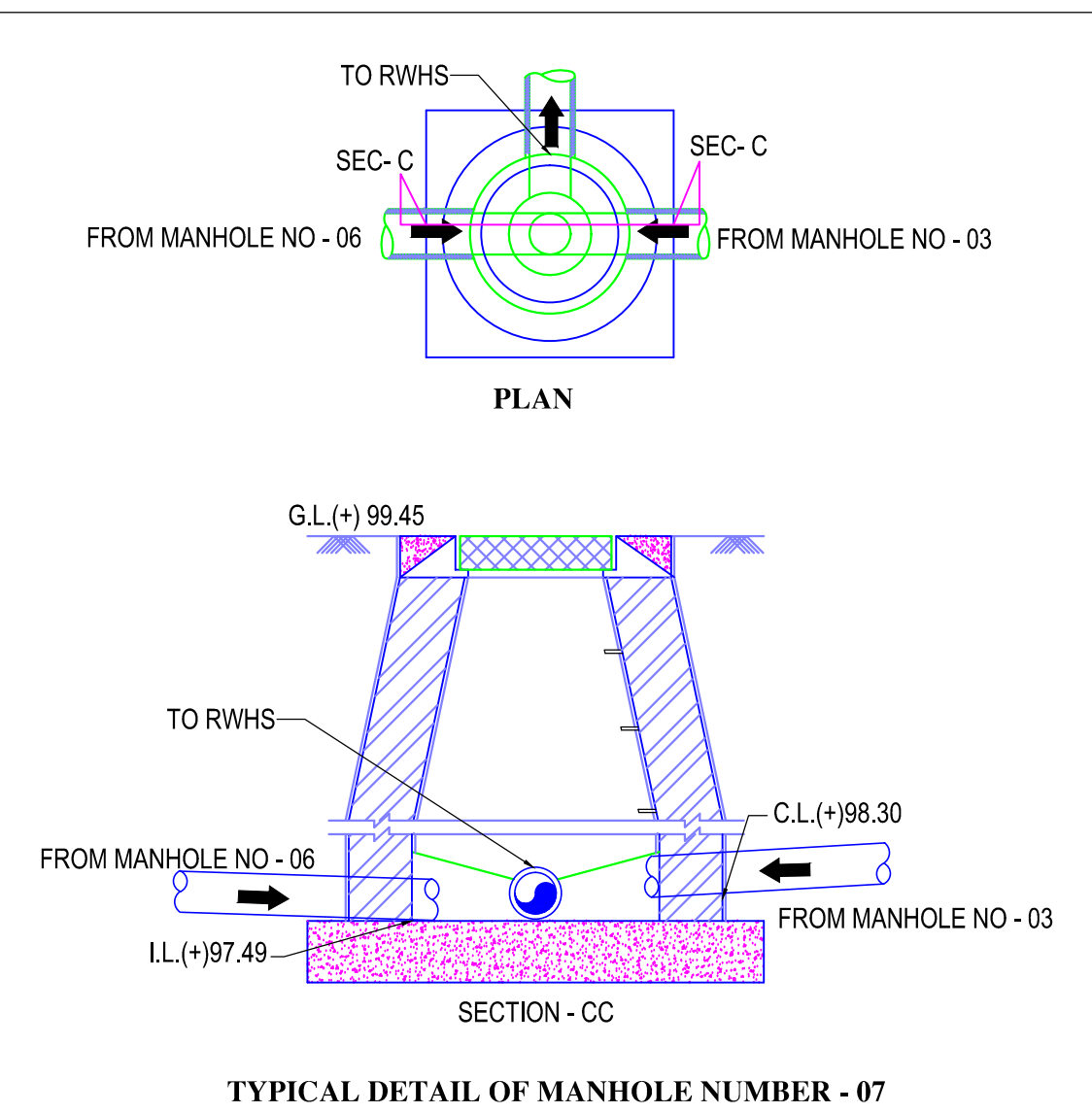
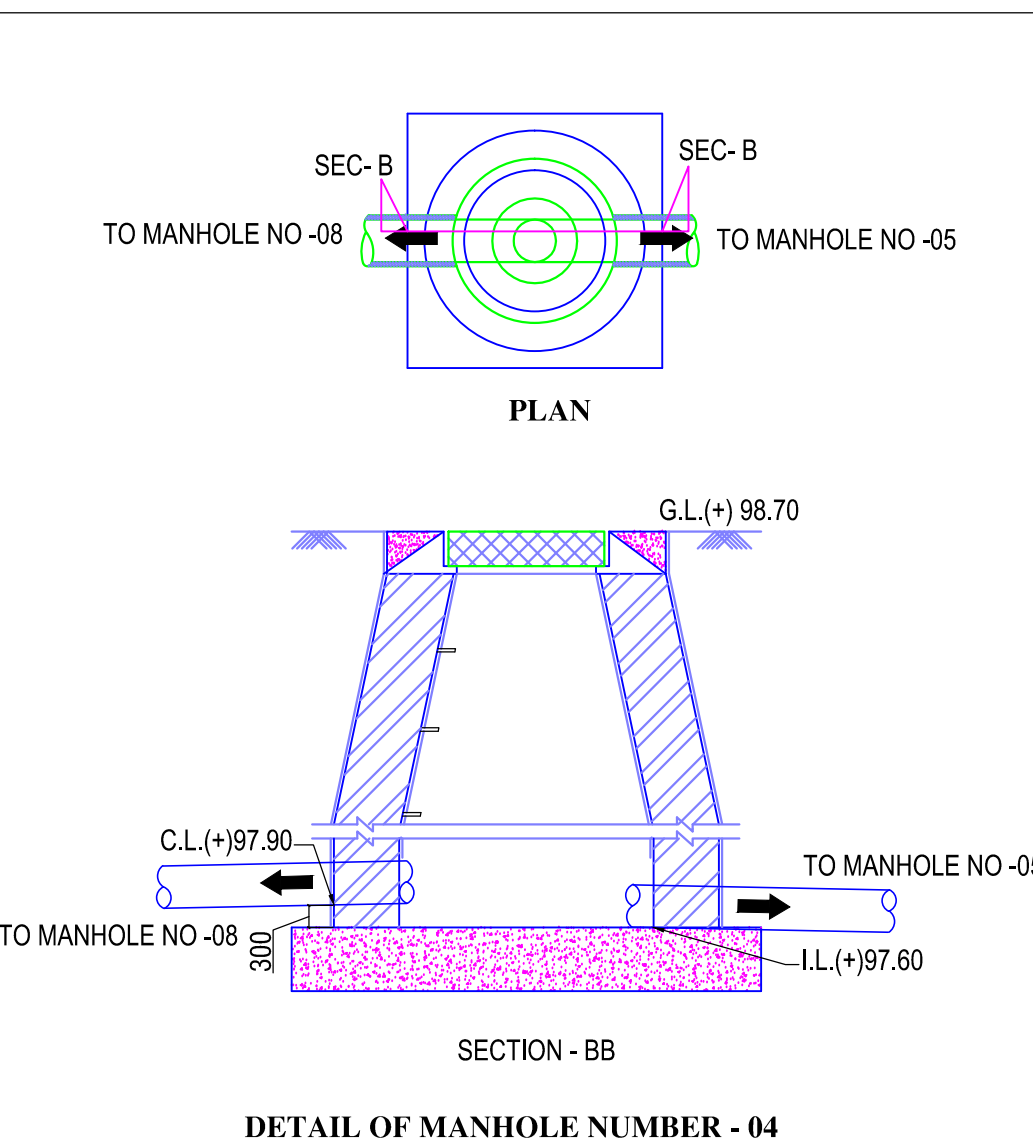
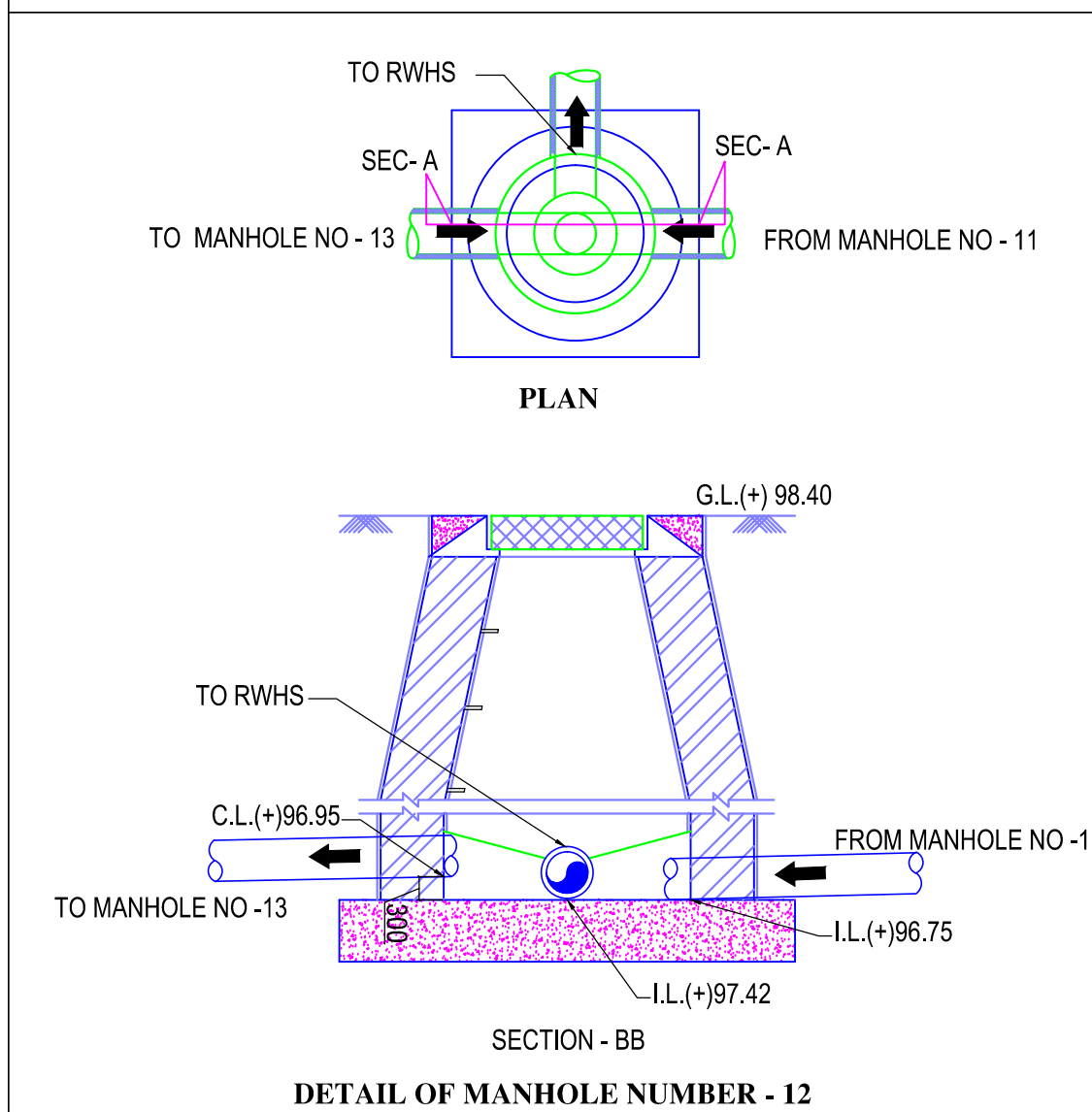
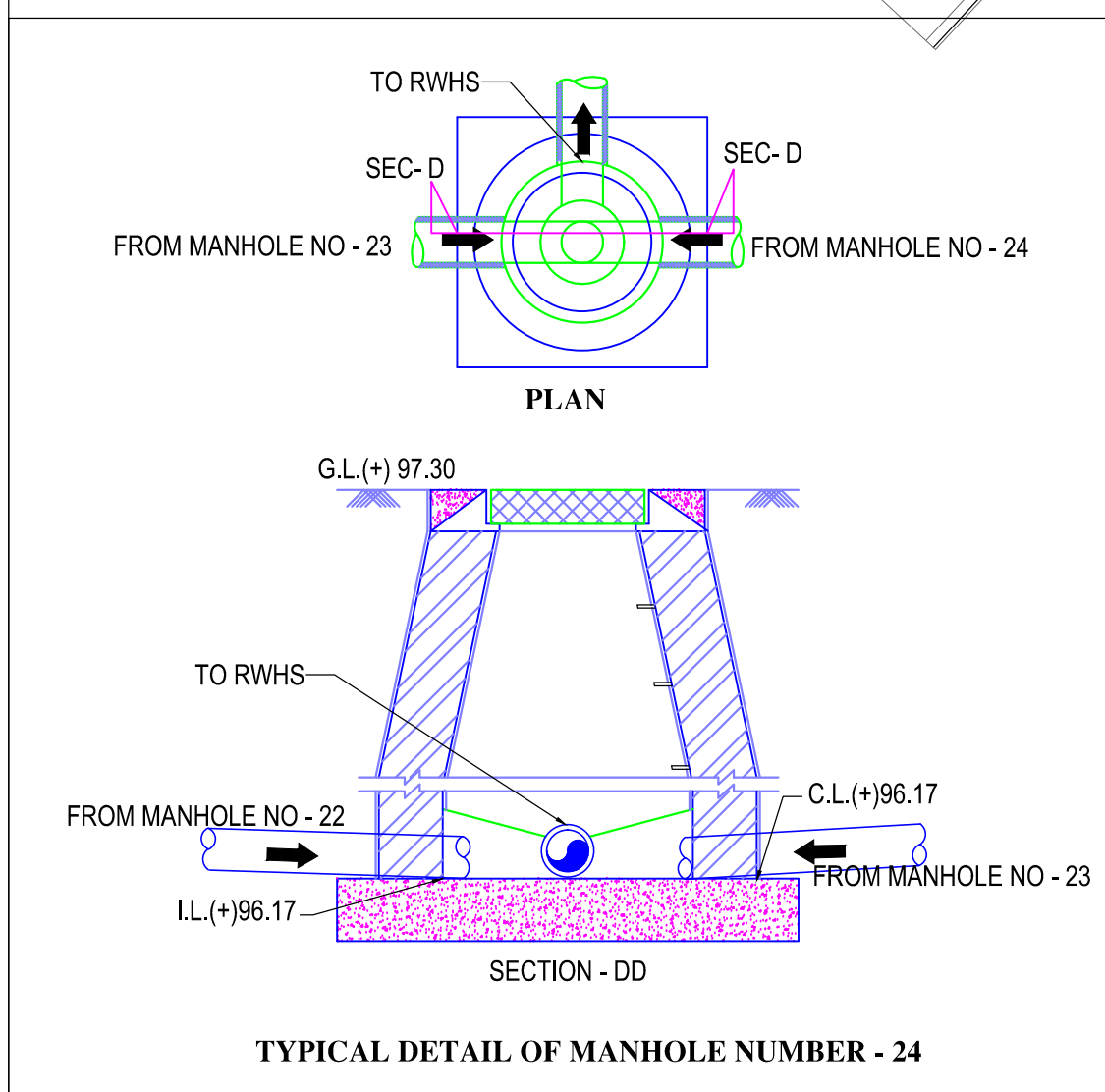
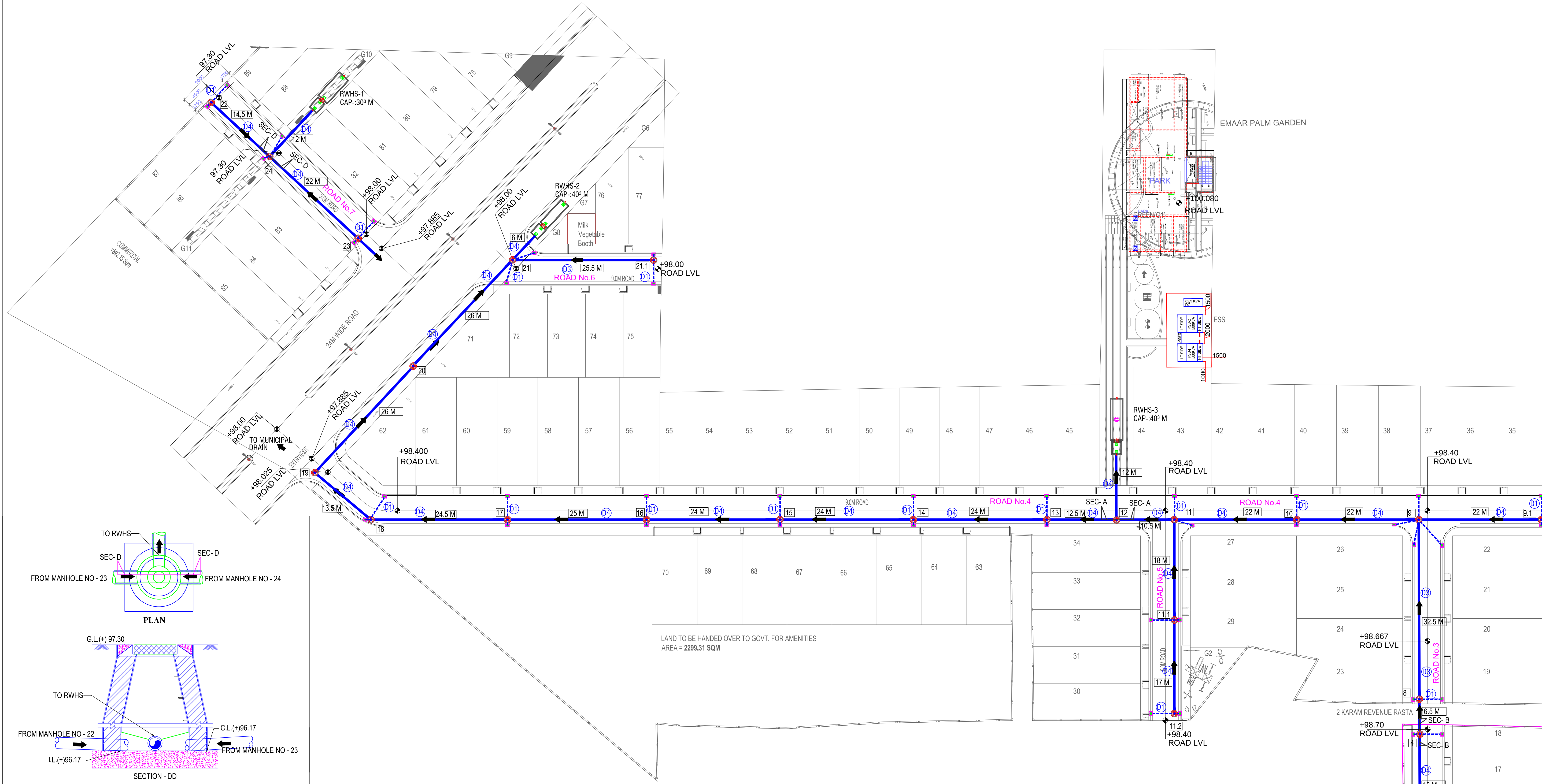




- IMPORTANT NOTES**
- 1- THIS DRAWING SHALL BE COORDINATED WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS.
  - 2- THE FEASIBILITY OF MAKING CONNECTION OF THE SEWERAGE AND STORM DRAIN LINE AT OUTFALL SHALL BE ASCERTAINED BEFORE STARTING THE WORK .
- NOTES**
- 1- ALL PIPE DIAMETERS ARE IN MM.
  - 2- ALL WORKS ARE TO BE CARRIED OUT AS PER SPECIFICATIONS.
  - 3- GROUND LEVELS AS PER MENTIONED ARE TENTATIVE, THESE SHALL MATCH WITH FORMATION LEVELS AS GIVEN BY ARCHITECTS.
  - 4- FIGURE SHOWN THUS **20M** ARE DISTANCE BETWEEN MANHOLES (CENTRE TO CENTRE), THESE DISTANCES ARE INDICATIVE AND SHALL BE ADJUSTED AS PER ACTUAL SITE CONDITION.
  - 5- MANHOLES SOAK TRENCH, DRAIN SOAKPIT AND ROAD GULLY SHALL BE CONSTRUCTED AS PER STANDARD DETAILS
  - 6- STORM WATER DRAINAGE LAYOUT IS INDICATIVE. DRAINS SHALL BE LAID AND ALIGNED AS PER ACTUAL ROAD SECTION AND LEVEL.
  - 7- WHEREVER DRAIN CROSSES A ROAD OR PAVEMENT, IT SHALL BE COVERED WITH PRECAST SLAB, DESIGNED TO TAKE VEHICULAR LOAD AT THAT POINT.
  - 8- STANDARD DETAIL REFER DWG NUMBER KES-KES-1544-EX-PHE-01E

| LEGEND                     |  |
|----------------------------|--|
| STORM WATER PIPE LINE 400Ø |  |
| STORM WATER PIPE LINE 150Ø |  |
| STORM WATER MANHOLE        |  |
| CATCH BASIN 450x450        |  |
| 300 MM WIDE SAUCER DRAIN   |  |

| STORM WATER PIPES SCHEDULE |     |       |             |                   |
|----------------------------|-----|-------|-------------|-------------------|
| TAG NO.                    | DIA | SLOPE | MATERIAL    | REMARK            |
| D1                         | 150 | 1:145 | DWC HDPE    |                   |
| D2                         | 400 | 1:30  | R.C.C. NP-3 | AS PER ROAD SLOPE |
| D3                         | 400 | 1:100 | R.C.C. NP-3 | AS PER ROAD SLOPE |
| D4                         | 400 | 1:570 | R.C.C. NP-3 |                   |

- IMPORTANT NOTE**
- a. THE INVERT LVL OF THE BRANCH MANHOLE WILL BE GOVERNED BY VILLA PLINTH LVL.
  - b. REFER COORDINATED ROAD SECTION AS PROVIDED BY ARCHITECT FOR THE EXACT ALIGNMENT OF THE SEWER LINE
  - c. FOR EXACT LOCATION OF MANHOLE REFER ARCHITECTURE CO-ORDINATION LAYOUT
  - d. REFER DETAILS OF MANHOLES (ANNEXURE TO DRG. NO. KES-1544-EX-PHE-01D)

PROJECT : ORRIS INFRASTRUCTURE

| (ANNEXURE TO DRG.) REFERENCE DRAWING NO - KES-1544-EX-PHE-01D |        |             |                |                     |          |                  |              |     |              |       |    |               |                   |        |
|---------------------------------------------------------------|--------|-------------|----------------|---------------------|----------|------------------|--------------|-----|--------------|-------|----|---------------|-------------------|--------|
| STORM WATER                                                   |        |             |                |                     |          |                  |              |     |              |       |    | MANHOLE DEPTH |                   | REMARK |
| LINE                                                          |        | LENGT H (M) | PIPE SIZE (mm) | MANHOLE SIZE IN DIA | GRADIENT | FALL IN LINE (M) | GROUND LEVEL |     | INVERT LEVEL |       |    |               |                   |        |
| FROM                                                          | TO     |             |                |                     |          |                  | START        | END | START        | END   |    |               |                   |        |
| 1                                                             | 2      | 17.00       | 400            | 900                 | 1/30     | 0.57             | 100.30       | -   | 99.20        | 98.63 | IL | 1.67          | As per road slope |        |
| 2                                                             | 3      | 11.50       | 400            | 900                 | 1/570    | 0.02             | 99.75        | -   | 98.63        | 98.61 | IL | 1.14          |                   |        |
| 3                                                             | 7      | 31.00       | 400            | 900                 | 1/100    | 0.31             | 99.75        | -   | 98.61        | 98.30 | CL | 1.45          | As per road slope |        |
| 4                                                             | 5      | 18.00       | 400            | 900                 | 1/570    | 0.03             | 98.70        | -   | 97.60        | 97.57 | IL | 1.13          |                   |        |
| 5                                                             | 6      | 19.00       | 400            | 900                 | 1/570    | 0.03             | 99.00        | -   | 97.57        | 97.54 | IL | 1.46          |                   |        |
| 6                                                             | 7      | 27.50       | 400            | 900                 | 1/570    | 0.05             | 99.15        | -   | 97.54        | 97.49 | IL | 1.66          |                   |        |
| 7                                                             | RWHS-4 | 15.00       | 250            | 1200                | 1/570    | 0.03             | 99.45        | -   | 97.49        | 97.46 | CL | 1.99          |                   |        |
| 4                                                             | 8      | 6.50        | 400            | 900                 | 1/100    | 0.07             | 98.70        | -   | 97.90        | 97.84 | IL | 0.86          | As per road slope |        |
| 8                                                             | 9      | 32.50       | 400            | 900                 | 1/100    | 0.33             | 98.65        | -   | 97.84        | 97.51 | CL | 1.14          | As per road slope |        |
| 9                                                             | 9      | 22.00       | 400            | 900                 | 1/570    | 0.04             | 98.40        | -   | 96.88        | 96.84 | IL | 1.56          |                   |        |
| 9                                                             | 10     | 22.00       | 400            | 900                 | 1/570    | 0.04             | 98.40        | -   | 96.84        | 96.80 | IL | 1.60          |                   |        |
| 10                                                            | 11     | 22.00       | 400            | 900                 | 1/570    | 0.04             | 98.40        | -   | 96.80        | 96.76 | IL | 1.64          |                   |        |
| 11                                                            | 11     | 17.00       | 400            | 900                 | 1/570    | 0.03             | 98.40        | -   | 97.30        | 97.27 | IL | 1.13          |                   |        |
| 11                                                            | 11     | 18.00       | 400            | 900                 | 1/570    | 0.03             | 98.40        | -   | 97.27        | 97.24 | CL | 1.16          |                   |        |
| 11                                                            | 12     | 10.50       | 400            | 900                 | 1/570    | 0.02             | 98.40        | -   | 96.76        | 96.75 | IL | 1.65          |                   |        |
| 12                                                            | RWHS-3 | 12.00       | 400            | 1200                | 1/570    | 0.02             | 98.40        | -   | 96.65        | 96.63 | IL | 1.77          |                   |        |
| 12                                                            | 13     | 12.50       | 400            | 900                 | 1/570    | 0.02             | 98.40        | -   | 96.95        | 96.93 | IL | 1.47          |                   |        |
| 13                                                            | 14     | 24.00       | 400            | 900                 | 1/570    | 0.04             | 98.40        | -   | 96.93        | 96.89 | IL | 1.51          |                   |        |
| 14                                                            | 15     | 24.00       | 400            | 900                 | 1/570    | 0.04             | 98.40        | -   | 96.89        | 96.84 | IL | 1.56          |                   |        |
| 15                                                            | 16     | 24.00       | 400            | 900                 | 1/570    | 0.04             | 98.40        | -   | 96.84        | 96.80 | IL | 1.60          |                   |        |
| 16                                                            | 17     | 25.00       | 400            | 900                 | 1/570    | 0.04             | 98.40        | -   | 96.80        | 96.76 | IL | 1.64          |                   |        |
| 17                                                            | 18     | 24.50       | 400            | 1200                | 1/570    | 0.04             | 98.40        | -   | 96.76        | 96.71 | IL | 1.69          |                   |        |
| 18                                                            | 19     | 13.50       | 400            | 900                 | 1/570    | 0.02             | 98.03        | -   | 96.71        | 96.69 | IL | 1.33          |                   |        |
| 19                                                            | 20     | 26.00       | 400            | 900                 | 1/570    | 0.05             | 98.03        | -   | 96.69        | 96.65 | IL | 1.38          |                   |        |
| 20                                                            | 21     | 26.00       | 400            | 900                 | 1/570    | 0.05             | 98.03        | -   | 96.65        | 96.60 | IL | 1.43          |                   |        |
| 21                                                            | 21     | 25.50       | 400            | 900                 | 1/570    | 0.04             | 98.00        | -   | 96.90        | 96.86 | CL | 1.14          |                   |        |
| 21                                                            | RWHS-2 | 13.00       | 400            | 900                 | 1/570    | 0.02             | 98.00        | -   | 96.60        | 96.58 | CL | 1.42          |                   |        |
| 22                                                            | 24     | 14.50       | 400            | 900                 | 1/570    | 0.03             | 97.30        | -   | 96.20        | 96.17 | CL | 1.13          |                   |        |
| 23                                                            | 24     | 22.00       | 400            | 1200                | 1/30     | 0.73             | 98.00        | -   | 96.90        | 96.17 | CL | 1.83          | As per road slope |        |
| 24                                                            | RWHS-1 | 12.00       | 400            | 900                 | 1/570    | 0.02             | 97.30        | -   | 95.77        | 95.75 | CL | 1.55          |                   |        |

ISSUED FOR CONSTRUCTION  
KRIM ENGINEERING SERVICES PVT. LTD.  
10 / 11 / 22  
TO BE CO-ORDINATED WITH OTHER SERVICES ALSO

**NOTES:**

1. ALL THE DIMENSIONS MENTIONED ARE IN MM.
2. ALL LEVELS INDICATED ARE IN MM.
3. DRAWINGS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
4. DIMENSIONS - LEVELS AS SHOWN TO BE VERIFIED AT SITE BEFORE COMMENCEMENT OF WORK.
5. ANY DISCREPANCIES FOUND IN THE DRAWING SHALL BE BROUGHT TO THE NOTICE OF THE ARCHITECT BEFORE EXECUTION.
6. RELEVANT SERVICES DRG. TO BE READ SIMULTANEOUSLY.
7. ALL CENTRE LINE DIMENSIONS WITH REFERENCE TO (0,0).
8. ALL LEVELS INDICATED ARE FINISHED LEVELS.
9. FINISHED FLOOR TO BE 50MM FROM UNFINISHED FLOOR LEVELS.
10. ALL MATERIALS, FINISHES ETC TO BE AS SPECIFIED AND APPROVED.

**KEY PLAN**

**STAMP**

LANDSCAPE CONSULTANT:

**STAMP**

MEP CONSULTANT:

**KRIM ENGINEERING SERVICES PRIVATE LIMITED**

B-140, FREEDOM FIGHTERS' ENCLAVE  
NEB SARAI, IGNOU ROAD, NEW DELHI 110068 INDIA  
PHONE : +91-11-29534163/64/65., FAX : 91-11-22953 4166  
E-MAIL :mail@krimens.com

**STAMP**

STRUCTURAL CONSULTANT:

**Arvind Gupta Consultants .**

E-296, LOWER GROUND FLOOR  
EAST OF KAILASH, NEW DELHI-65  
Ph: 26294746/46547965/26428516  
email: agc\_1k@yahoo.com,ak\_gupta@msn.com

**STAMP**

ARCHITECTS:

**SAHA AND ASSOCIATES**

ARCHITECTS, PLANNERS & INT. DESIGNERS  
D-22 (LOWER GROUND FLOOR)  
PAMPOSH ENCLAVE NEW DELHI - 110048  
TEL. 26285932, 26461121 FAX. 011 91 26428755  
email - bhupsaha@gmail.com, sahaandassociates@yahoo.in  
website - sahaandassociates.com

**PROJECT:**

DDJAY 83, AFFORDABLE PLOTTED TOWNSHIP,  
SECTOR - 83 GURGRAM ( HARAYANA )

**PROJECT NO.** 1544

**CLIENT:**

ORRIS FLOREAL TOWER  
GURGRAM ( HARAYANA )

**LOCATION**

GURGRAM ( HARAYANA )

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