

| MANHOLE | FLOW PLAN | COORDINATES REFERENCE POINT | | MANHOLE | | | | DUCT BANK | | | | | | | |
|---------|--------------|--------------------------------|---------|---------|-------|-------|------------|-------------|----------------|---------------|----------|---------------|----------|---------------|----------|
| | | | | | | | | | | | | | | | |
| | | NAME | EAST | NORTH | A (m) | B (m) | TOP EL. | BOT. EL. | HEIGHT H(m) | ① | ② | ③ | ④ | | |
| | | | | | | | | | | DUCT BANK NO. | INV. EL. | DUCT BANK NO. | INV. EL. | DUCT BANK NO. | INV. EL. |
| MH-41 | | | 3286.81 | 1875.25 | 1.80 | 1.80 | 1699.80 | 1696.60 | 3.50 | DB-EE-12 | 1696.66 | DB-EE-12 | 1697.36 | - | - |
| MH-42 | | | 3283.17 | 1886.02 | 1.20 | 1.20 | 1700.00 | 1697.80 | 2.00 | DB-EE-15 | 1699.40 | DB-EE-02 | 1696.30 | - | - |
| MH-43 | | | 3290.51 | 1883.90 | 2.50 | 2.80 | 1700.00 | 1696.80 | 3.00 | DB-EE-12 | 1697.36 | DB-EE-02 | 1696.30 | DB-EE-09 | 1696.90 |
| MH-44 | | | 3290.01 | 1896.97 | 2.50 | 2.80 | 1700.00 | 1697.80 | 2.00 | DB-EE-09 | 1696.90 | DB-EE-11 | 1696.53 | - | - |
| MH-45 | | | 3215.08 | 1886.20 | 1.20 | 1.20 | 1699.90 | 1697.70 | 2.00 | DB-EE-02 | 1696.60 | - | - | - | - |
| MH-46 | | | 3216.41 | 1914.22 | 1.20 | 2.60 | 1700.00 | 1697.80 | 2.00 | DB-EE-05 | 1696.80 | DB-EE-05 | 1696.80 | - | - |
| MH-47 | | | 3211.86 | 1922.95 | 2.50 | 2.50 | 1699.90 | 1696.70 | 3.00 | DB-EE-09 | 1696.27 | DB-EE-12 | 1697.36 | - | - |
| MH-48 | | | 3211.53 | 1931.57 | 1.60 | 1.60 | 1699.90 | 1697.20 | 2.50 | DB-EE-12 | 1697.36 | DB-EE-12 | 1697.36 | - | - |
| MH-49 | | | 3211.66 | 1941.86 | 1.60 | 1.60 | 1700.35 | 1696.65 | 3.50 | DB-EE-12 | 1697.36 | DB-EE-12 | 1696.86 | DB-EE-01 | 1699.05 |
| MH-50 | | | 3193.44 | 1945.56 | 2.50 | 2.50 | 1700.00 | 1696.30 | 3.50 | DB-EE-12 | 1696.86 | - | - | - | - |
| MH-51 | | | 3443.36 | 1980.38 | 1.80 | 1.80 | 1700.00 | 1697.30 | 2.50 | DB-EE-10 | 1697.83 | DB-EE-10 | 1697.83 | - | - |
| MH-52 | | | 3443.41 | 1974.60 | 1.80 | 1.80 | 1700.00 | 1697.30 | 2.50 | DB-EE-10 | 1697.83 | DB-EE-10 | 1697.83 | - | - |
| MH-53 | | | 3452.54 | 1974.60 | 1.80 | 1.80 | 1699.70 | 1697.00 | 2.50 | DB-EE-10 | 1697.83 | DB-EE-10 | 1697.33 | - | - |
| MH-54 | | | 3452.54 | 1999.39 | 1.80 | 1.80 | 1699.70 | 1697.00 | 2.50 | DB-EE-10 | 1697.33 | DB-EE-10 | 1697.83 | - | - |
| MH-55 | | | 3451.28 | 2014.88 | 1.80 | 1.80 | 1699.70 | 1697.00 | 2.50 | DB-EE-10 | 1697.83 | DB-EE-10 | 1697.13 | - | - |
| MH-56 | | | 3451.28 | 2034.87 | 1.80 | 1.80 | 1699.70 | 1697.00 | 2.50 | DB-EE-10 | 1697.13 | DB-EE-10 | 1697.83 | - | - |
| MH-57 | | | 3451.28 | 2050.35 | 1.80 | 1.80 | 1699.70 | 1696.50 | 3.00 | DB-EE-10 | 1697.83 | DB-EE-10 | 1696.98 | DB-EE-01 | 1699.05 |
| MH-58 | | | 3451.28 | 2071.68 | 1.80 | 1.80 | 1699.70 | 1696.50 | 3.00 | DB-EE-10 | 1697.83 | DB-EE-10 | 1697.83 | - | - |
| MH-59 | | | 3420.69 | 2071.68 | 1.80 | 1.80 | 1699.70 | 1697.50 | 2.00 | DB-EE-10 | 1697.83 | DB-EE-10 | 1697.83 | - | - |
| MH-60 | | | 3398.89 | 2071.68 | 1.80 | 1.80 | 1699.65 | 1697.45 | 2.00 | DB-EE-10 | 1697.83 | DB-EE-10 | 1697.83 | - | - |
| MH-61 | | | 3357.09 | 2071.68 | 1.80 | 1.80 | 1699.60 | 1697.40 | 2.00 | DB-EE-10 | 1697.83 | DB-EE-10 | 1697.83 | - | - |
| MH-62 | | | 3325.29 | 2071.68 | 1.80 | 1.80 | 1699.55 | 1697.35 | 2.00 | DB-EE-10 | 1697.83 | DB-EE-10 | 1697.83 | - | - |
| MH-63 | | | 3293.49 | 2071.68 | 1.80 | 1.80 | 1699.50 | 1697.30 | 2.00 | DB-EE-10 | 1697.83 | DB-EE-10 | 1697.83 | - | - |
| MH-64 | | | 3261.69 | 2071.68 | 1.80 | 1.80 | 1699.45 | 1697.25 | 2.00 | DB-EE-10 | 1697.83 | DB-EE-10 | 1697.83 | - | - |
| MH-65 | | | 3229.89 | 2071.68 | 1.80 | 1.80 | 1699.45 | 1697.25 | 2.00 | DB-EE-10 | 1697.83 | DB-EE-10 | 1697.83 | - | - |
| MH-66 | | | 3198.31 | 2071.68 | 1.80 | 1.80 | 1699.40 | 1697.20 | 2.00 | DB-EE-10 | 1697.83 | DB-EE-10 | 1697.83 | - | - |
| MH-67 | | | 3241.81 | 2060.68 | 1.20 | 1.20 | 1700.00 | 1697.80 | 2.00 | DB-EE-03 | 1696.30 | DB-EE-01 | 1696.54 | - | - |
| MH-68 | | | 3250.65 | 2050.68 | 1.20 | 1.20 | 1699.80 | 1697.60 | 2.00 | DB-EE-02 | 1696.30 | DB-EE-02 | 1696.30 | - | - |
| MH-69 | | | 3298.14 | 1976.34 | 1.20 | 1.20 | 1699.70 | 1697.50 | 2.00 | DB-EE-02 | 1696.60 | DB-EE-02 | 1696.30 | - | - |
| MH-70 | | | 3298.14 | 1981.39 | 1.20 | 1.20 | 1699.80 | 1697.60 | 2.00 | DB-EE-02 | 1696.30 | - | - | - | - |
| MH-71 | | | 3213.36 | 1903.45 | 1.00 | 1.20 | 1699.90 | 1697.80 | 2.00 | DB-EE-02 | 1696.80 | - | - | - | - |
| MH-72 | | | 3211.21 | 1914.96 | 1.20 | 1.20 | 1699.90 | 1697.80 | 2.00 | DB-EE-03 | 1696.80 | - | - | - | - |

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|----------|----------|-------------------------|------------------|---------|------------------------|
| 3 | JUN 2016 | ISSUED FOR CONSTRUCTION | | IFC | BARSHI ASHMEENI ARMANZ |
| 2 | APR 2016 | ISSUED FOR APPROVAL | | IFC | BARSHI ASHMEENI ARMANZ |
| 1 | JUN 2016 | ISSUED FOR APPROVAL | | IFC | BARSHI ASHMEENI ARMANZ |
| REV. | DATE | DESCRIPTION | PURPOSE OF ISSUE | PREPARE | CHECK |
| Project: | | | | | APPROVE |

KOWSAR GISD MEGA MODULE PROJECT

Client

Contractor

| | | | | | | | | |
|--------|---------|------|------|-------|-----------|----------|--------------|------------|
| Client | Project | Unit | Area | Group | Equipment | Document | Eng. Drawing | Serial No. |
| GISD | 7-2 | 106 | 1002 | 7 | AA | 04 | G | 024 |



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|----------|------------------------|----------|----------------------------|-------------------|--------------|
| DESIGNED | BARSHI ASHMEENI ARMANZ | JUN 2016 | CIVIL DRAWING | SCALE: 1:500 | REVISION: 03 |
| PREPARED | BARSHI ASHMEENI ARMANZ | JUN 2016 | ELECTRICAL CABLE ROUTE | SIZE: A1 | SHEET: 1/1 |
| CHECKED | BARSHI ASHMEENI ARMANZ | JUN 2016 | MANHOLES SCHEDULE (PART-2) | CONT. & PROJ. NO. | |
| APPROVED | BARSHI ASHMEENI ARMANZ | OCT 2015 | KGMM CG 03 CO 010 | | |