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<td>Index of Standard Drawings – Water</td>
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<td>RCC W_0001</td>
<td>Water Reticulation Typical Arrangement Details</td>
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<tr>
<td>RCC W_0002</td>
<td>Water Pressure Main General Trench and Bedding Details</td>
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<tr>
<td>RCC W_0003</td>
<td>Water Pressure Main Trench and Bedding Details within Existing Roads</td>
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<td>RCC W_0004</td>
<td>Water Pressure Main Thrust Block Details</td>
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<td>RCC W_0005</td>
<td>Typical Property Service Installation</td>
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<td>RCC W_0006</td>
<td>Standard Sluice Valve Details</td>
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<td>RCC W_0007</td>
<td>Fire Hydrant Details</td>
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<tr>
<td>RCC W_0008</td>
<td>Scour Valve and Outlet Details</td>
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<tr>
<td>RCC W_0009</td>
<td>Standard Provision For Future Water Reticulation Extensions</td>
</tr>
<tr>
<td>RCC W_0010</td>
<td>Standard Fire Hydrant, Valve and Box</td>
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<tr>
<td>RCC W_0011</td>
<td>Valve and Hydrant Box Support and Surround Details</td>
</tr>
<tr>
<td>RCC W_0012</td>
<td>Pavement Markers and delineators for Locating Hydrants and Valves</td>
</tr>
<tr>
<td>RCC W_0013</td>
<td>Typical Arrangement Main Swabbing Chamber</td>
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<td>RCC W_0014</td>
<td>Standard Water Supply Pump Stations</td>
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<td>RCC W_0015</td>
<td>Typical 100 pressure Reducing Valve Arrangement</td>
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<td>RCC W_0016</td>
<td>Standard Water Supply Pump Station</td>
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<td>RCC W_0017</td>
<td>Standard Water Supply Pump Station</td>
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<td>RCC W_0018</td>
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<td>RCC W_0019</td>
<td>Gisaut Joint for Ductile Iron Pipes</td>
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<tr>
<td>RCC W_0020</td>
<td>Standard for Drainage Of Water Main Trenches and Diversion Drains</td>
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</table>
NOTES
1. FOR TYPICAL FOOTPATH VERGE ALLOCATIONS FOR PUBLIC UTILITIES
   REFER TO IFWA STD DWG R 010
2. THE MAXIMUM DISTANCE BETWEEN HYDRANTS SHALL BE 80 m.
3. A HYDRANT SHALL BE PROVIDED AT THE END OF ALL LINES OTHER THAN FUTURE
   TAKE OFF POINTS. FOR HYDRANT DETAILS REFER R.C.C. STD. DWG. NO. S9607
   AND S9608.
4. STOP VALVES SHALL BE LOCATED AT THE TANGENT POINTS OF PROPERTY BOUNDARY
   TRUNCATIONS AND WHERE INDICATED ON THE APPROVED ENGINEERING DRAWINGS
   UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
5. SECTION VALVES SHALL BE PROVIDED IN LOCATIONS DETERMINED BY COUNCIL
   TO SUIT STAGED CONSTRUCTION.
6. PRIOR TO COMMENCING WORK ON SITE THE CONTRACTOR SHALL DETERMINE THE
   LOCATION OF ALL EXISTING PUBLIC UTILITIES.
7. THE CONTRACTOR SHALL ENSURE THAT THE WORKS ARE CARRIED OUT IN ACCORDANCE
   WITH ALL REQUIREMENTS OF ACTS, REGULATIONS AND LOCAL LAWS.
8. FOR TYPICAL PROPERTY SERVICE INSTALLATION DETAILS REFER R.C.C. STD. DWG. NO. S9605.
9. FOR CONSTRUCTION TOLERANCES REFER COUNCIL'S STANDARD SPECIFICATION SS2.
10. DIMENSIONS ARE IN MILLimetres UNLESS SHOWN OTHERWISE.

TYPICAL LAYOUT PLAN

LEGEND

1.0000 U.P.V.C. CL.16

WATER MAIN
FIRE HYDRANT
SERVICE CONDUIT
STOP VALVE
REDUCER TO REDUCER
REDUCER TO NKL
REDUCER TO DEAD END CAP
NKL

ROAD CROSSING MARKING

BRASS CONDUIT MARKERS
BACK OF KERB
INVERT
LIP OF CHANNEL
WATER
CONCRETE BULKHEADS
MAINS AND TAPERS
REFER NOTE 2

HAND HOLES

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<th>NOM. DIAM. (mm)</th>
<th>TRENCH WIDTH (mm)</th>
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<tr>
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</tr>
<tr>
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NOTES:
1. FOR EXCAVATION, BEDDING AND BACKFILL REQUIREMENTS REFER COUNCIL'S STANDARD SPECIFICATION SS2.
2. CONCRETE BULKHEADS SHALL BE SPACED AT:
   (A) 8m INTERVALS FOR #100 TO #300 PIPES WITH GRADES BETWEEN 15% AND 29%,
   (B) WHERE GRADES EXCEED 29%, THE SPACING IN METRES SHALL BE CALculated BY DIVIDING 100 BY THE GRADE (X).
3. CONCRETE IN BULKHEADS IS TO BE GRADE N20.
4. WHERE BACKFILL IS CLASSIFIED AS SAND (BY THE SUPERINTENDENT) A GEOFABRIL BARRIER SHALL BE PROVIDED AT THE INTERFACE OF BEDDING ZONE 3 AND BACKFILL.
5. THE PIPE SHALL BE PROVIDED WITH A 12 THICK COMPRESSIBLE MEMBRANE FOR THE EXTENT OF THE CONCRETE SURROUND.
6. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
NOTES:

1. FOR EXCAVATION, BEDDING AND BACKFILL REQUIREMENTS REFER COUNCIL STANDARDS SPECIFICATION SS2.

2. WHERE BACKFILL MATERIAL IS CLASSIFIED AS SAND (BY THE SUPERINTENDENT) A GEOTEXTILE BARRIER SHALL BE PROVIDED AT THE INTERFACE OF BEDDING ZONE 3 AND BACKFILL.

3. THE SLAB SHALL BE GRADE NS CONCRETE (ZERO SLUMP) PLACED IN 100 LAYERS AND COMPACTED.

4. FOR PAVEMENT DETAILS REFER COUNCIL STANDARD SPECIFICATION SS7.

5. THE ASPHALT SURFACING SHALL COMPLY WITH COUNCIL'S STANDARD SPECIFICATION SS8.

6. THE DEVIATION IN A STRAIGHT EDGE PARALLEL TO THE CENTRE LINE OF THE EXISTING ROAD SHALL NOT EXCEED 5 MILLIMETRES.

7. FOR STATE CONTROLLED ROADS THE BEDDING ZONES 1, 2 AND 3 SHALL COMPLY WITH THE DETAILS ON THIS DRAWING BACKFILL AND PAVEMENT SHALL COMPLY WITH REQUIREMENTS OF MAIN ROADS.

8. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
<table>
<thead>
<tr>
<th>PIPE Dia.</th>
<th>FITTING</th>
<th>MAX. THRUST (kN)</th>
<th>THRUST BLOCK</th>
<th>CLAY</th>
<th>SAND</th>
<th>Silt</th>
<th>GRAVEL</th>
<th>BUCK</th>
<th>ROCK</th>
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○ INDICATES BLOCK LENGTH OF 600

| THRUST BLOCK DIMENSIONS |

**NOTES:**
1. ALL CONCRETE TO BE GRADE NO. 2
2. THRUST BLOCKS SHALL BE CAST AGAINST THE UNDISTURBED SIDE OF THE TRENCH. KEEP CONCRETE CLEAR OF SOCKETS, FLANGES & BOLTS.
3. THE TABLE OF DIMENSIONS ASSUME A TEST PRESSURE OF 1350 kPa (135 m Head). VARIATION FROM THE DIMENSIONS SHOWN WILL BE SUBJECT TO JUSTIFICATION BY CALCULATIONS.
4. WHERE THRUST BLOCKS FOR TAPERS ARE REQUIRED REFER R.C.C. STD. DWG NO. 59507, CONCRETE BULKHEADS.
5. POLYETHYLENE SLEEVING SHALL COMPLY WITH THE REQUIREMENTS OF COUNCIL’S STANDARD SPECIFICATION 552.
6. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
1. FOR PROPERTY SERVICE CONDUIT MARKER, CLASS AND INSTALLATION DETAILS REFER R.C.C. STD. DWG NO. 59122.
2. THE PROPERTY SERVICE PRESSURE PIPE SHALL BE POLYETHYLENE TO AS/NZS 4130 SERIES 1 DN25 PN16 SDR11 PE80B.
3. BLUE MARKER TAPE SHALL BE ATTACHED TO THE WATER METER BALL VALVE THE MARKER TAPE SHALL BE Brought VERTICALLY TO THE SURFACE AND LEFT CLEARLY VISIBLE.
4. PROPERTY SERVICE STAMPED IDENTIFICATION TAG (35 MIN DIA) TAG MAY BE EITHER BRASS OR STAINLESS STEEL AND MAY BE RETAIRED BY A STAINLESS STEEL PIN.
5. PROPERTY SERVICE PIPE, BALL VALVES, DUCTILE IRON PRE-TAPPED PROPERTY SERVICE FITTING AND ASSOCIATED FITTINGS SHALL BE JOINED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
6. THE MAIN TAP BALL VALVE SHALL BE LEFT IN THE FULLY OPEN POSITION.
7. THE WATER METER BALL VALVE SHALL BE LEFT IN THE FULLY CLOSED POSITION.
8. THE PROPERTY SERVICE PIPE INCLUDING THE BALL VALVE SHALL BE PERPENDICULAR TO THE FRONT RP BOUNDARY FOR THE LAST 300 OF THE PIPE.
9. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

**TYPICAL 20mm WATER METER**

(INSTALLATION OF BOX AND METER BY COUNCIL)

* GRADE DOWN TO MAIN
FOR PATH BOX DETAIL
REFER R.C.C. STD.
Dwg. No. 59611

EXISTING CONCRETE FOOTPATH

FOR PRECAST CONCRETE
SURROUND DETAIL REFER R.C.C.
STD. DWG. NO. 59610

EXISTING MAIN
TAPPING BAND CONNECTION
BY COUNCIL

TAPPING BAND

SLUICE VALVE ON LINE

NOTES:

1. ALL CONCRETE SURROUNDS AND SUPPORTS SHALL BE
INSTALLED FLUSH WITH THE FINISHED FOOTPATH PROFILE.

2. COUNCIL APPROVED ALTERNATIVES MAY BE UTILIZED FOR THE
CONCRETE SURROUND/SUPPORT AND FOR THE VALVE BOX.

3. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

APPROVED BEDDING MATERIAL

APPROVED BEDDING MATERIAL

VALVE BOX TO SUIT
REFER R.C.C. STD.
Dwg. No. 59611
VALVE BOX ALIGNMENT
REFER R.C.C. STD.
Dwg. No. 59607

PROVIDE BRICK OR PRECAST
CONCRETE SURROUND SUPPORT.
BOND THE SURROUND AND VALVE BOX
TOGETHER WITH APPROVED BUILDING
SEALANT OR SIMILAR

SLUICE VALVE

FINISHED FOOTPATH PROFILE

APPROVED EXTENSION SPINDLE
WHERE DIRECTED BY THE SUPERINTENDENT

10 MAX
7 MIN

0.3

1

2

3

2

1

STANDARD SLUICE VALVE

#100 UPVC STORMWATER
RISE R PIPE
STANDARD HYDRANT ON LINE

NOTES:
1. BOTH PRECAST CONCRETE SURROUNDS/SUPPORTS AND BRICK SUPPORT DETAILS SHOWN ARE ACCEPTABLE.
2. ALL CONCRETE SURROUNDS SHALL BE LAYED TO THE FINISHED PROFILE OF THE FOOTPATH VERGE.
3. FOR PRECAST CONCRETE SURROUND/SUPPORT AND BRICK SUPPORT DETAILS REFER R.C.C. STD. DWG. NO. 5960.
4. FOR TYPICAL HYDRANT ARRANGEMENT REFER R.C.C. STD. DWG. NO. 5960.
5. BOX COVERS FOR SWABBY HYDRANTS SHALL HAVE "SW" MARKED ON TOP.
6. COUNCIL APPROVED ALTERNATIVES MAY BE UTILISED FOR THE CONCRETE SURROUND/SUPPORT AND FOR THE HYDRANT BOX.
7. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
NOTES:

1. BOTH PRECAST CONCRETE SURROUND AND BRICK SUPPORT DETAILS SHOWN ARE ACCEPTABLE.

2. BRICK SUPPORTS SHALL BE A MINIMUM TWO COURSES AND LAD DRY OVER THE BEDDING MATERIAL. APPLY BUILDING SEALANT OR SIMILAR TO BIND BRICKS TO THE VALVE/HYDRANT BOX.

3. FOR HYDRANTS, THE CONCRETE SURROUND AND LID SHALL BE PAINTED WITH APPROVED YELLOW REFLECTIVE PAINT.

4. FOR VALVES AND OTHER FITTINGS, THE CONCRETE SURROUND AND LID SHALL BE PAINTED WITH APPROVED REFLECTIVE PAINT IN ACCORDANCE WITH THE COLOUR CODE SHOWN ON COUNCIL'S STANDARD DRAWING NO. 59612.

5. CONCRETE TO BE GRADE N25.

6. COUNCIL APPROVED ALTERNATIVES MAY BE UTILISED FOR THE SURROUND AND SUPPORT.

7. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
VALVE/HYDRANT BOX NOTES:

1. ALL CAST IRON COMPONENTS SHALL COMPLY WITH AS 1830 AND SHALL BE GRADE T220.
2. ALL DUCTILE IRON COMPONENTS SHALL COMPLY WITH AS 1831 GRADE 500/12.
3. BOXES SHALL BE MANUFACTURED WITH A TOTAL MAXIMUM WEIGHT OF 50kg.
4. TYPE 'A' BOXES SHALL BE PROVIDED AT FIRE HYDRANTS AND VALVE INSTALLATIONS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
5. COUNCIL APPROVED ALTERNATIVES MAY BE UTILISED FOR THE TYPE 'A' BOX.
6. A BITUMINOUS BASE MATERIAL SHALL BE APPLIED TO ALL BOXES AND COVERS WHEN THEY ARE IN CLEAN, DRY AND RUST FREE CONDITION. WHEN INSTALLED THE LID AND SURROUND OF THE BOX SHALL BE PAINTED TO THE DETAILS SHOWN IN COUNCIL'S STANDARD DRAWING NO. 5901.
7. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

PATH BOX NOTES:

A. SHALL BE MANUFACTURED FROM DUCTILE IRON, CAST IRON OR QUINMETAL
B. THE SURFACE OF BOX TO BE CHEQUERED.
C. THE SURFACE TO HAVE THE LETTER 'W' IN A RAISED PATTERN.
D. LID SHALL BE HINGED WITH PINS NOT LESS THAN 16 STAINLESS STEEL.
PIPEWORK SCHEDULE

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<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>P1</td>
<td>SOCKET/FLANGE PIPE x 1000 LONG</td>
</tr>
<tr>
<td>P2</td>
<td>FLANGE/FLANGE TEE WITH FLANGED BRANCH</td>
</tr>
<tr>
<td>P3</td>
<td>BLANK FLANGE TAPPED CENTRALLY Ø50 B.S.P.</td>
</tr>
<tr>
<td>P4</td>
<td>FLANGE/SPIGOT PIPE x 500 LONG</td>
</tr>
<tr>
<td>P5</td>
<td>SPIGOT/SOCKET PIPE</td>
</tr>
<tr>
<td>V1</td>
<td>SCREWED BALL VALVE WITH HEXAGONAL NIPPLES</td>
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<tr>
<td>QT</td>
<td>CRASSAULT JOINT ELUBERATED</td>
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</tbody>
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**NOTE:**
1. **CONCRETE TO BE GRADE N25.**
2. THE FIT LENGTH SHALL SUIT THE REQUIRED COMPONENTS AND PROVIDE ADEQUATE AREA FOR MAINTENANCE AS DIRECTED BY THE SUPERINTENDENT.
3. WHERE SWABBING CHAMBERS AND SCOURS ADJOIN EACH OTHER (at low points) A COMMON PIPE OUTLET MAY BE PROVIDED AS DETAILED IN THE APPROVED ENGINEERING DRAWINGS OR AS DIRECTED BY THE SUPERINTENDENT.
4. WHERE THE MAIN IS Laid DEEPER THAN THE STANDARD DEPTH, THE SWABBING CHAMBER STRUCTURAL CONSTRUCTION SHALL BE AS DETAILED IN THE APPROVED ENGINEERING DRAWINGS.
5. SLUICE VALVES SHALL GENERALLY BE LOCATED OPPOSITE COMMON PROPERTY BOUNDARIES BETWEEN 5m TO 25m EITHER SIDE OF THE SWABBING CHAMBER.
6. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

**SECTION ALONG CHAMBER DETAIL**

**LAYOUT PLAN**

**TYPICAL SECTION THROUGH CHAMBER**

- MEDIUM DUTY TWO-PART COVER 914 x 1290 M284 GATIC, OR EQUIVALENT
- PROVIDE #300 R.C. PIPE OUTLET TO STORMWATER SYSTEM AT THE LOWEST CORNER OF THE CHAMBER

**SEE NOTE 2**

- THE CHAMBER COVER AND VALVE SURROUNDS TO BE SET TO SUIT THE FINISHED PROFILE OF THE FOOTPATH/VERGE

**SLUICE VALVE**
(MAY BE SOCKET TO SOCKET IF AUTHORIZED BY SUPERINTENDENT)

**300 x 250 CONCRETE SUPPORT BLOCK**
150 150

**DUCTILE IRON PIPEWORK**

**REFERENCES**

- **CIVIC COORDINATES**:
  - **Scale**: 1:100
  - **Drawing**: W-0013
  - **Date**: [Insert Date]
  - **Engineer**: [Insert Name]
  - **Prepared By**: [Insert Name]
  - **Checked By**: [Insert Name]
  - **Controlled By**: [Insert Name]
  - **Approved By**: [Insert Name]
**PUMP CRADLE SUPPORT DETAIL**

1. Fabricated support cradle from 10 m continuous fillet weld. All components to be hot dip galvanized after fabrication.
2. Reinforced rubber bearing pad to cradle surface.

**PUMP DESCRIPTION**

**LOCALITY PLAN**

**MARK** | **DESCRIPTION** | **NO OF**
--- | --- | ---
1 | FLANGE - FLANGE - FLANGE TEE PIECE | 2
2 | FLANGE - FLANGE 90° BEND | 2
3 | FLANGED ASSEMBLY JOINT | 2
4 | FLANGE PLAIN PIPE OF LENGTH TO SUIT | 2
5 | FLANGE & FLANGE PIPE 1200 LONG | 1
6 | FLANGE - FLANGE CONCENTRIC TEE 0° - 0° | 1
7 | FLANGE & FLANGE PIPE 200 LONG | 2
8 | THRUST FLANGE | 2
9 | FLANGE - FLANGE REFLUX VALVE * | 2
10 | FLANGE - FLANGE SUIT VALVE | 6
11 | PUMP AS DETAILED | 2
12 | PRESSURE GAUGE (SEE NOTE 10) | 2
13 | 250 AIR VALVE STOP 250 BALL/GATE VALVE | 2

* REFLUX VALVE TO INCORPORATE COUNTERWEIGHT AND EXTENDED SPINDLE

**SECTIONAL ELEVATION**

- The minimum fall in floor towards drain from all directions shall be 1 in 20.

- For pump cradles, support refer to detail in support.

**PLAN**

- Provide 1000 mm drain to gully inlet at lowest corner.

**NOTES:**

1. The consultant shall complete and submit for approval to the council all tables and dimensions.
2. All cast in situ concrete to be grade N25.
3. For location of pump station control cubicle refer R.C.C. Std. DWG. No. 59657.
4. For pump station cover details refer R.C.C. Std. DWG. No. 59658.
5. All flanges to be drilled in accordance with R.C.C. Standard Specification SS 2.
6. Maximum dimension of 1200 for 'D'.
7. Air valve to be at high point.
9. Provide 250 ball valve, pressure gauge and pressure switch.
10. This drawing is to be read in conjunction with R.C.C. Standard Specification SS 12 and SS 14.
11. Dimensions are in millimetres unless shown otherwise.
PLAN

PADLOCK RECESS DETAIL

SECTION A-A

NOTES:
1. ALL ALLOY FACES IN CONTACT WITH CONCRETE SURFACES SHALL BE PAINTED WITH BITUMINOUS PAINT.
2. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
NOTES
1. DISTENSION PIPES AND FITTINGS TO BE #50 SLOTTED POLYETHYLENE CLASS 400 TO AS.2439.
2. PROPPING MATERIAL REQUIREMENTS (GRADE 5/7)
   REFER COUNCIL'S STANDARD SPECIFICATION 552.
3. DISTENSION DRAINS ARE TO BE FITTED WITH A FILTER SLEEVE/SOCK AS DIRECTED BY THE SUPERINTENDENT.
4. LOCATE THE DISTENSION PIPE CENTRALLY IN TRENCH 50 ABOVE TRENCH FLOOR. PROVIDE END CAPS AT ALL PIPE ENDS.
5. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.