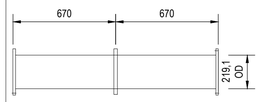
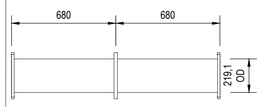
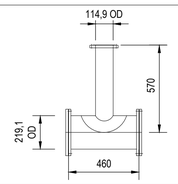
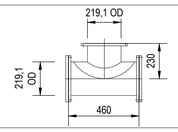
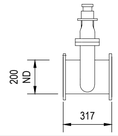
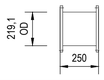
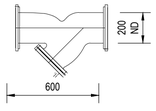
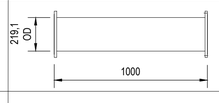
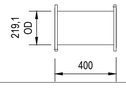
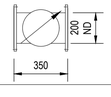
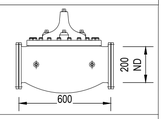
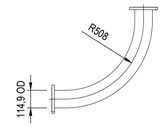
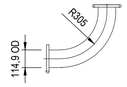
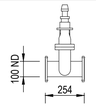
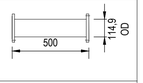
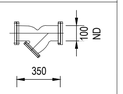
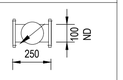
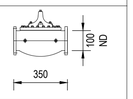
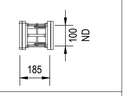
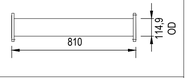
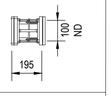
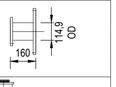
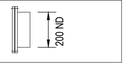
## PIPE FITTING SCHEDULE

| ITEM NO. | DESCRIPTION | QUANTITY | WALL THICKNESS | MATERIAL | PRESSURE RATING (kPa) | FITTING SKETCH |
|---|---|---|---|---|---|---|
| PV1A | 219.1 mm OD 1340 mm LONG PIPE WITH CENTRAL ANCHOR FLANGE TO MATCH OD OF PIPE, BOTH ENDS FLANGED. A 10mm THREADED BOSS FOR A 10 mm ND BALL VALVE TO BE WELDED 200 mm FROM THE ONE END. COMPLETE WITH PRESSURE LOGGING POINT, 10 mm BALL VALVE AND PRESSURE GAUGE. | 1 | 6mm | SANS 719 GRADE B | 2500 |   |
| PV1B | 219.1mm OD 1360mm LONG PIPE WITH CENTRAL ANCHOR FLANGE TO MATCH OD OF PIPE, ONE END FLANGED AND OTHER PLAIN ENDED, COMPLETE WITH LOOSE FLANGE TO BE FITTED ON SITE. THE PLAIN END TO BE BEVELLED FOR SITE WELDING, AND LOOSE FLANGE TO SUIT. A 10mm THREADED BOSS FOR A 10mm ND BALL VALVE TO BE WELDED 200mm FROM THE PLAIN END. COMPLETE WITH PRESSURE LOGGING POINT, 10mm BALL VALVE AND PRESSURE GAUGE. **(FINAL LENGTH TO BE CONFIRMED ON SITE).** | 1 | 6mm | SANS 719 GRADE B | 2500 |   |
| PV2B | UNEQUAL TEE 219.1 mm OD 460 mm LONG FLANGED MAIN BARREL WITH A WALL THICKNESS OF 6 mm AND 114.3 mm OD FLANGED CENTRAL BRANCH WITH A WALL THICKNESS OF 6 mm , 570mm FROM CENTRE TO FLANGE OF BRANCH PIPE. COMPLETE WITH COLLAR PLATE. FL - FL 460 mm, CL - FL - 570 mm. | 2 | 6mm | SANS 719 GRADE B | 2500 |   |
| PV2A | EQUAL TEE 219.1mm OD FLANGED BOTH ENDS COMPLETE WITH COLLAR PLATE. FL - FL 460 mm, CL - FL - 230 mm. | 1 | 6mm | SANS 719 GRADE B | 2500 |   |
| PV3 | 200 mm Ø ND DOUBLE FLANGED (FLAT FACED FULLY MACHINED) WEDGE-TYPE GATE VALVE FOR VERTICAL OPERATION, NON-RISING SPINDLE, ANTI-CLOCKWISE CLOSING WITH VALVE CAP TOP OR SIMILAR APPROVED, FLANGE TO FLANGE - 317 mm | 2 | 6mm | SPHEROIDAL GRAPHITE GRADE 42 | 2500 |   |
| PV4 | 219.1 mm OD 250 mm LONG PIPE FLANGED BOTH ENDS. | 3 | 6mm | SANS 719 GRADE B | 2500 |   |
| PV5 | 200 mm ND FLANGED Y-STRAINER WITH FLUSHING PORT - FL- FL 600 mm | 1 | 6mm | SANS 719 GRADE B | 2500 |   |
| PV6A | 219.1 mm OD 1000 mm LONG PIPE FLANGED BOTH ENDS. | 1 | 6mm | SANS 719 GRADE B | 2500 |   |
| PV6B | 219.1 mm OD 400 mm LONG PIPE FLANGED BOTH ENDS. | 1 | 6mm | SANS 719 GRADE B | 2500 |   |
| PV7 | 200 mm ND BATTERY POWERED MAGFLOW METER COMPLETE WITH AUTOMATIC METER READER | 1 | 6mm | STEEL | 2500 |   |

## PIPE FITTING SCHEDULE

| ITEM NO. | DESCRIPTION | QUANTITY | WALL THICKNESS | MATERIAL | PRESSURE RATING (kPa) | FITTING SKETCH |
|---|---|---|---|---|---|---|
| PV8 | 200 mm ND PRESSURE REDUCING VALVE, FLANGE TO FLANGE - 600 mm | 2 | 6mm | STEEL | 2500 |   |
| PV9A | 114.9 mm OD 90° PULLED BEND, 5D RADIUS = 508 mm CL TO FL - 600mm | 2 | 6mm | SANS 62 ERW MEDIUM | 2500 |   |
| PV9B | 114.9 mm OD 90° PULLED BEND, 3D RADIUS = 305 mm CL TO FL - 390mm | 2 | 6mm | SANS 62 ERW MEDIUM | 2500 |   |
| PV10 | 100 mm Ø ND RESILIENT GATE VALVE FOR VERTICAL OPERATION, NON-RISING SPINDLE, ANTI-CLOCKWISE CLOSING WITH VALVE CAP TOP OR SIMILAR APPROVED, FLANGE TO FLANGE - 254 mm | 3 | 6mm | SPHEROIDAL GRAPHITE GRADE 42 | 2500 |   |
| PV11 | 114.9 mm OD 500 mm LONG PIPE FLANGED BOTH ENDS. | 4 | 6mm | SANS 62 ERW MEDIUM | 2500 |   |
| PV12 | 100 mm ND FLANGED Y-STRAINER WITH FLUSHING PORT - FL- FL 350 mm | 1 | 6mm | STEEL | 2500 |   |
| PV13 | 100 mm ND BATTERY POWERED MAGFLOW METER COMPLETE WITH AUTOMATIC METER READER, FLANGE TO FLANGE - 250 mm | 1 | 6mm | STEEL | 2500 |   |
| PV14 | 100 mm ND PRESSURE REDUCING VALVE, FLANGE TO FLANGE - 350 mm | 2 | 6mm | STEEL | 2500 |   |
| PV15 | 100 mm ND DISMANTLING JOINT ,FLANGE TO FLANGE - 185 mm | 1 | 6mm | STEEL | 2500 |   |
| PV16 | 114.9 mm OD 410 mm LONG PIPE ONE END FLANGED AND OTHER PLAIN ENDED, COMPLETE WITH LOOSE FLANGE TO BE FITTED ON SITE. THE PLAIN END TO BE BEVELLED FOR SITE WELDING, AND LOOSE FLANGE TO SUIT. (FINAL MEASUREMENTS TO BE TAKEN ON SITE) | 1 | 6mm | SANS 62 ERW MEDIUM | 2500 |   |
| PV17 | 200 mm ND DISMANTLING JOINT ,FLANGE TO FLANGE - 195 mm | 1 | 6mm | SANS 719 GRADE B | 2500 |   |
| PV18 | 114.9 mm OD 100mm STRAIGHT PIECE WITH ONE END FLANGED AND THE OTHER END WELDED ON A 219.1 mm OD BLANK FLANGE DRILLED WITH A 114.9 mm OD HOLE | 1 | 6mm | SANS 62 ERW MEDIUM | 2500 |   |
| PV19 | 100 mm ND DOUBLE ORIFICE AIR RELEASE VALVE WITH ANTI-SHOCK | 1 | 6mm | STEEL | 2500 | |
| PV20 | 200 mm ND uPVC/STEEL FLANGE ADAPTOR | 3 | 6mm | STEEL | 2500 |   |

## NOTES:

1. 1. ALL VALVES AND FITTINGS TO BE LINED WITH 600 MICRONS OF FUSION BONDED EPOXY INTERNALLY & EXTERNALLY.
2. ALL FLANGES SHALL BE DRILLED TO SANS 1123 TABLE 2500/3 UNLESS OTHERWISE STATED.
3. CHAMBER DIMENSION AND DEPTH ARE SUBJECT TO CHANGE UPON CONFIRMATION OF THE EXISTING PIPE LOCATION AND DEPTH.
4. FITTINGS ARE SUBJECT TO CHANGE UPON CONFIRMATION OF EXISTING PIPE MATERIALS.
5. CONTRACTOR TO CONFIRM LOCATION OF ALL SERVICES AND DIMENSIONS OF FITTINGS BEFORE COMMENCEMENT OF MANUFACTURE. FINALS LEVELS TO BE CONFIRMED ON SITE BEFORE CONSTRUCTION.
6. A QUALITY CONTROL PLAN FOR THE COMPLETE MANUFACTURING PROCESS OF THE PIPE FITTINGS SHALL BE SUBMITTED TO THE EMPLOYER'S AGENT FOR APPROVAL BEFORE MANUFACTURING COMMENCES.
7. ALL DIMENSIONS SHOWN ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
8. ALL BURIED FLANGED CONNECTIONS SHALL BE WRAPPED WITH PETROLATUM MASTIC AND PVC WRAPPING.

| REFERENCE DRAWINGS | |
|---|---|
| REV: | DRAWING No. |
| 01 | JW14090R-AL-DET12-W |


CONSULTING ENGINEERS
LIDWALA CONSULTING ENGINEERS (SA) (PTY)LTD rf
Tel: 0861 LIDWALA / 0861 543 9252
Intl: +27 11 793 5486
Postnet Suite # 328
Private Bag X21
BRYANSTON, 2021
Corner Main Office Park,
Block B, 1st Floor, Unit 8
2 Payne Road Bryanston, 2191
Email: info@lidwala.com
Web: www.lidwala.com
Offices:Botswana, Mozambique, Namibia, South Africa,Tanzania, Zambia, Zimbabwe


| | | | |
|---|---|---|---|
| DESIGNED | M. MURIGO | NOVEMBER 2021 | |
| DRAWN | G.M | NOVEMBER 2021 | |
| CHECKED | M. MURIGO | NOVEMBER 2021 | |
| APPROVED BY: | T.KLEYNHANS | SIGNATURE | DATE: NOVEMBER 2021 |
| ECSA REG. No. | 20110139 | | |
| CHECKED BY: | | | |
| | | SIGNATURE | DATE |

CLIENT
JOHANNESBURG WATER
1 MAIN STREET
SWISS HOUSE

Johannesburg Water

17 HARRISON STREET
MARSHALLTOWN
2107

TEL: (011) 688-1400

FAX: (011) 688-1529

Joburg

REPLACEMENT OF JOHANNESBURG WATER 600mm Ø STEEL PIPELINE FROM LINBRO PARK RESERVOIR TO BHEKILANGA PRV STATION IN ALEXANDRA

200mmØ PRV CHAMBER (17th AVENUE & VINCENT TSHABALALA ROAD)
PIPE FITTING SCHEDULE

| SURVEY INFORMATION | | APPROVAL BY JW DEPOT | | | SCALE |
|---|---|---|---|---|---|
| PROJECT SURVEYOR: | | CHECKED | | | 1:50 |
| | | APPROVED BY: | | | |
| DATE: | | | SIGNATURE | DATE | |
| CCTV INFORMATION | | APPROVAL BY JW PLANNING | | | |
| CCTV COMPANY: | | CHECKED | | | |
| | | APPROVED BY: | | | |
| DATE: | | | SIGNATURE | DATE | |

| | AMENDMENTS | |
|---|---|---|
| REV: | DESCRIPTION | DATE: |
| 01 | ISSUED FOR TENDER | MARCH 2023 |

DRAWING No.JW14090R-AL-DET12-W

JW14090R-AL — PROJECT No.
DET13 – 01 — DRAWING No. / REV.
A1 — ORIGINAL PAGE SIZE
SHEET 2 OF 2
FILE No.

PRINT DATE 12.11.2021