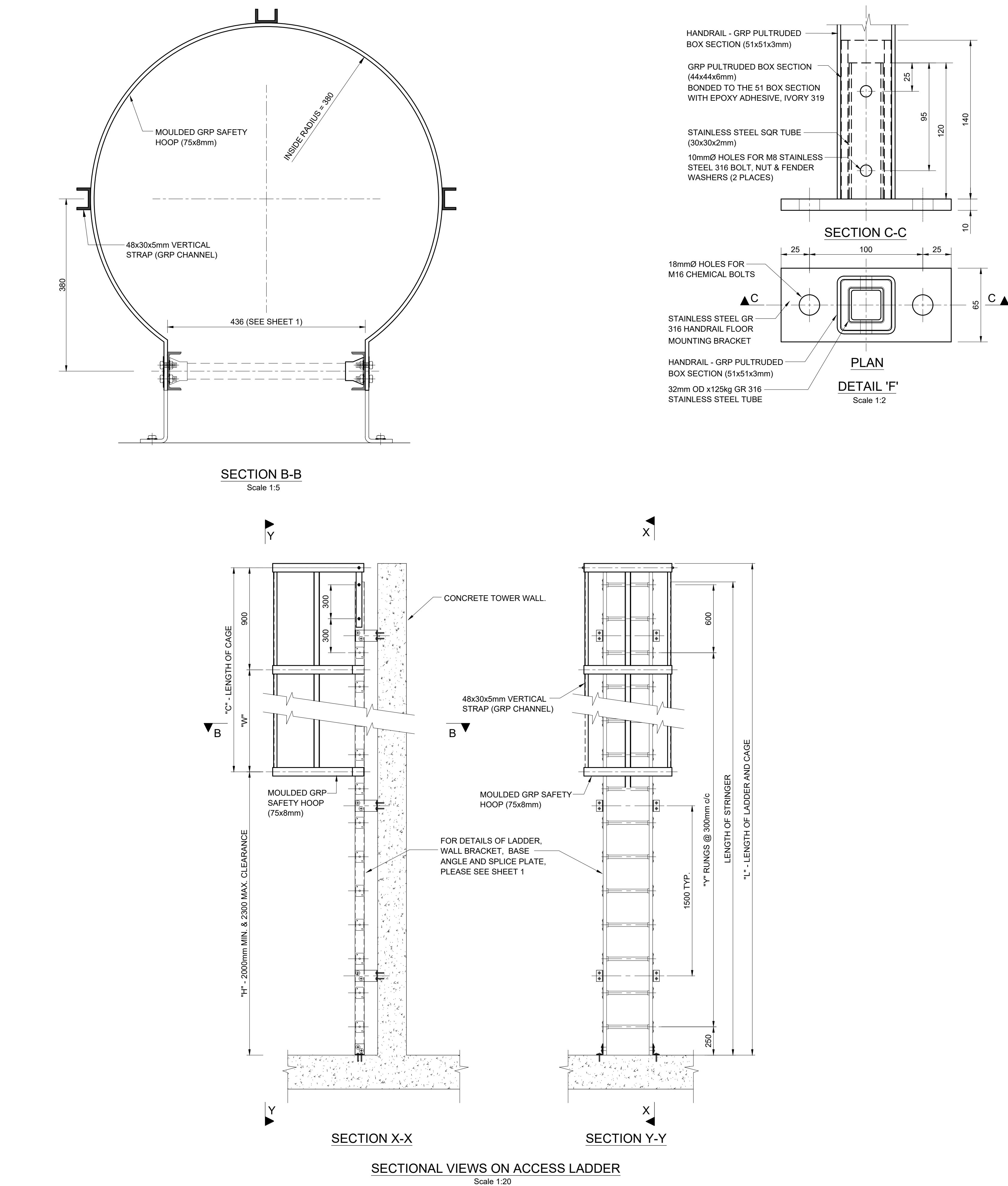


NOTES:

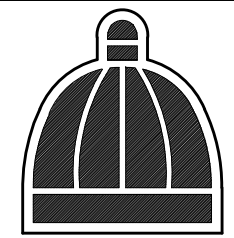
1. THE TOPMOST RUNG MUST BE 300mm OR LESS BELOW TOP OF FLOOR.
2. THE FIRST SUPPORT BRACKET MUST BE 150mm BELOW THE TOPMOST RUNG.
3. SUPPORT BRACKETS MUST BE SPACED AT 1500mm CENTERS.
4. THE MAXIMUM LENGTH OF EACH STRINGER MUST NOT BE MORE THAN 2000mm.
5. **LEGEND:** "X" = HEIGHT FROM TOP OF FLOOR TO SOFFIT OF ROOF
"Y" = TOTAL NUMBER OF RUNGS (RUNGS @ 300mm c/c)
"Z" = HEIGHT FROM BOTTOM RUNG TO LOWEST SUPPORT
NOTE: "Z" MUST NOT EXCEED 1500mm.
6. IF THE HEIGHT OF THE LADDER WAS MORE THAN 2000mm, SPLICE PLATES MUST BE USED TO JOIN THE SECTIONS (SEE SPLICE PLATE DETAIL).
7. BASE PLATE SHOULD BE USED AS AN OPTION ONLY WHEN REQUIRED.
8. WHERE A LADDER USED WAS MORE THAN 2.3m ABOVE GROUND LEVEL OR PLATFORM, A SAFETY CAGE WILL BE REQUIRED.



NOTES:

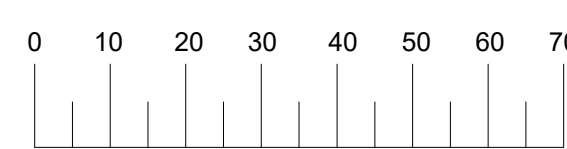
1. FOR DETAILS OF LADDER, WALL BRACKETS, BASE ANGLE AND SPLICE PLATE, SEE SAME DRAWING ON THE FAR LEFT SIDE.
2. THE WALK-THROUGH TOP SECTION MUST BE FITTED AS DIRECTED BY THE ENGINEER/TECHNICIAN.
3. PULTRUDED PROFILES MUST BE MANUFACTURED WITH AN ISO POLYESTER RESIN AND E-GLASS FIBER.
4. THE COLOUR OF THE STYLES AND CAGE HOOPS MUST BE GOLDEN YELLOW.
5. THE COLOUR OF THE RUNGS AND THE CAGE STRAPS MUST BE CLOUD GREY.
6. ALL BOLTS, NUTS AND FENDER WASHERS USED TO MANUFACTURE THE PRODUCT MUST BE STAINLESS STEEL GRADE 316.
7. **LEGEND:** "L" = HEIGHT TO TOP OF FLOOR PLUS 1228mm.
"C" = ("L" - "H") WHERE "H" = 2000mm MIN. AND 2300mm MAX.
"W" = 900mm OR 600mm (WHERE 800mm IS TYPICAL HEIGHT) AND 600mm WAS USED IN ORDER TO AVOID COINCIDENCE BETWEEN SAFETY HOOPS AND WALL BRACKETS) EXCEPT FOR THE TWO TOPMOST SPACES (715mm & 900mm) WHICH HAVE FIXED HEIGHTS.
8. THE TOTAL NUMBER OF SPACES ("W") BETWEEN SAFETY HOOPS WERE DEPENDENT ON THE LENGTH OF "C".

ETHEKWINI WATER AND SANITATION



WATER DESIGN BRANCH

REDUCED PLAN USE SCALE BELOW



70mm ON ORIGINAL PLAN

LEGEND EXISTING UNDERGROUND SERVICES ARE AS SHOWN BELOW.

| | |
|-----------------------------------|--|
| NEW WATER MAIN & VALVES | |
| ABANDONED WATERMAIN | |
| WATER MAINS AND VALVES | |
| GRAVITY SEWERS AND M/H'S | |
| SEWER RISING MAIN | |
| STORM WATER DRAINS AND M/H'S | |
| SUBSOIL DRAINS | |
| ELECTRICITY CABLES | |
| RMU (2R) (4R) & 315kVa MINI SUB | |
| 3 x 160mm Ø PVC SLEEVES FOR ELEC | |
| TELKOM CABLES (160mm Ø DUCT) | |
| FIBRE (OTHER TELKOM 160mm Ø DUCT) | |
| CCTV CABLES (110mm Ø DUCT) | |
| CCTV MAST, KIOSK & MANHOLE | |
| 160mm Ø GENERAL DUCT | |
| ROAD EDGE | |

CONSTRUCTION INFORMATION

| | |
|------------------|--|
| MAINLAYER | |
| START DATE | |
| FINISH DATE | |
| W/O NUMBER | |
| LEVEL OF SERVICE | |
| SUPERVISOR NAME | |
| CONTACT NUMBER | |
| DATE SENT TO GIS | |
| GIS INFORMATION | |
| DATE RECEIVED | |
| NAME | |

NOTES:

1. CONTRACTOR TO CONTACT RELEVANT AUTHORITIES AT LEAST 14 DAYS IN ADVANCE PRIOR TO WORKING IN THE VICINITY OF KNOWN SERVICES.

| | | |
|---|----------|----------------------|
| B | MAR 2023 | ISSUED FOR TENDER |
| A | MAR 2017 | ISSUED FOR SIGNATURE |

| Revision | Date | Description |
|---|------|-------------|
| NOTE: No construction work to commence until land and servitude acquisitions have been completed. | | |

| Date | Engineer | NORTH | POINT |
|-----------------|----------|-----------|-------|
| SERVICE | DATE | SIGNATURE | |
| S.W. DRAWS | | | |
| SEWERS | | | |
| WATERMANS | | | |
| TELKOM CABLES | | | |
| ELECTRIC CABLES | | | |
| S.A.R. CABLES | | | |
| E.S.C. CABLES | | | |
| OIL PIPE LINE | | | |

NOTE: Only underground services affected by new construction are shown. Care must be taken during excavations for road foundations, trenches etc. to avoid damage to underground services such as sewers, drains, cables, water mains and connections. Wherever possible these must be located before work begins.

| | |
|--------------|---------|
| Contract No. | WS 7589 |
|--------------|---------|

| | |
|-------------|-------|
| Project No. | X6714 |
|-------------|-------|

Planning Unit
WEST HAMMARSDALE - STERKSPRUIT

Ward No.
103 and 4

Project Title
HAMMARSDALE RESERVOIR INLET (PHASE 2)

Drawing Title
STANDARD DRAWING OF GRP ACCESS LADDER AND SAFETY CAGE

PLAN, SECTION AND DETAILS

| | |
|---------------------|-----------------|
| Scale: AS SHOWN | |
| Designed: A. GOORUN | Date: MAR 2017 |
| Checked: J. BURATH | Drawn: N. ADAMS |

Area Engineer

Manager (Water Design)

Deputy Head (Engineering)

E. MSWELI - Head (W & S)

| | | | |
|-------------|-------|-------|--------|
| Drawing No. | 56724 | 24/24 | Rev. B |
|-------------|-------|-------|--------|

FOR TENDER PURPOSES