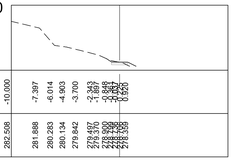
## CHAINAGE 30

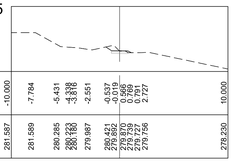
H.SCALE 1:200
V.SCALE 1:200
DATUM = 278



| OFFSET | -10.000 | -7.397 | -6.014 | -4.903 | -3.700 | -2.343 | -0.945 | -0.455 | 0.055 | 10.000 |
|---|---|---|---|---|---|---|---|---|---|---|
| ELEVATION | 282.598 | 281.888 | 280.283 | 280.134 | 279.842 | 279.167 | 278.500 | 278.500 | 278.500 | 278.500 |

## CHAINAGE 25

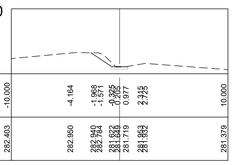
H.SCALE 1:200
V.SCALE 1:200
DATUM = 278



| OFFSET | -10.000 | -7.764 | -5.431 | -4.338 | -3.818 | -2.551 | -0.537 | -0.455 | 0.045 | 0.727 | 2.727 | 10.000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ELEVATION | 281.587 | 281.569 | 280.285 | 280.233 | 280.180 | 279.987 | 280.421 | 279.970 | 279.970 | 279.727 | 279.756 | 278.230 |

## CHAINAGE 20

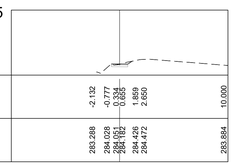
H.SCALE 1:200
V.SCALE 1:200
DATUM = 281



| OFFSET | -10.000 | -4.164 | -1.968 | -1.751 | -0.902 | 0.677 | 2.315 | 10.000 |
|---|---|---|---|---|---|---|---|---|
| ELEVATION | 282.403 | 282.950 | 282.940 | 282.940 | 281.662 | 281.653 | 281.653 | 281.379 |

## CHAINAGE 15

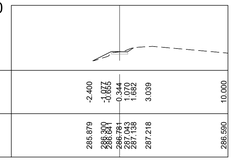
H.SCALE 1:200
V.SCALE 1:200
DATUM = 283



| OFFSET | -2.132 | -0.777 | 0.035 | 1.869 | 2.650 | 10.000 |
|---|---|---|---|---|---|---|
| ELEVATION | 283.288 | 284.028 | 284.161 | 284.426 | 284.472 | 283.884 |

## CHAINAGE 10

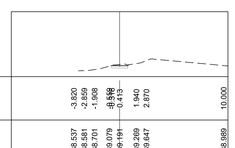
H.SCALE 1:200
V.SCALE 1:200
DATUM = 285



| OFFSET | -2.400 | -1.057 | -0.344 | 1.682 | 3.039 | 10.000 |
|---|---|---|---|---|---|---|
| ELEVATION | 285.879 | 286.221 | 286.781 | 287.138 | 287.218 | 286.590 |

## CHAINAGE 5

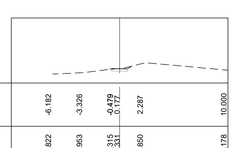
H.SCALE 1:200
V.SCALE 1:200
DATUM = 288



| OFFSET | -3.820 | -2.166 | -1.908 | -0.413 | 1.940 | 2.870 | 10.000 |
|---|---|---|---|---|---|---|---|
| ELEVATION | 288.537 | 288.991 | 289.701 | 289.079 | 289.269 | 289.647 | 288.989 |

## CHAINAGE 0

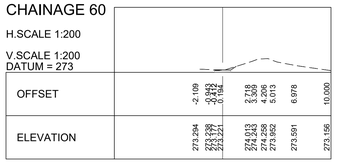
H.SCALE 1:200
V.SCALE 1:200
DATUM = 290



| OFFSET | -6.182 | -3.326 | -0.479 | 0.172 | 2.287 | 10.000 |
|---|---|---|---|---|---|---|
| ELEVATION | 290.822 | 290.953 | 291.315 | 291.331 | 291.850 | 291.178 |

## CHAINAGE 60

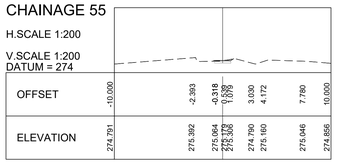
H.SCALE 1:200
V.SCALE 1:200
DATUM = 273



| OFFSET | -2.109 | -0.443 | -0.184 | 2.716 | 3.308 | 4.206 | 5.013 | 6.978 | 10.000 |
|---|---|---|---|---|---|---|---|---|---|
| ELEVATION | 273.294 | 273.139 | 273.221 | 274.013 | 274.243 | 274.258 | 274.062 | 273.591 | 273.156 |

## CHAINAGE 55

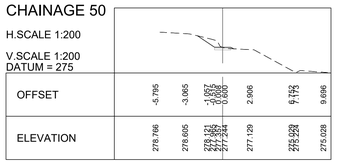
H.SCALE 1:200
V.SCALE 1:200
DATUM = 274



| OFFSET | -10.000 | -2.393 | -0.318 | 0.076 | 3.030 | 4.172 | 7.780 | 10.000 |
|---|---|---|---|---|---|---|---|---|
| ELEVATION | 274.791 | 275.392 | 275.064 | 274.308 | 274.790 | 275.160 | 275.046 | 274.856 |

## CHAINAGE 50

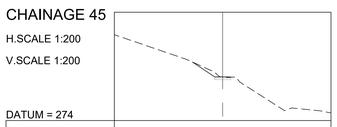
H.SCALE 1:200
V.SCALE 1:200
DATUM = 275



| OFFSET | -5.795 | -3.065 | -1.057 | -0.600 | 2.906 | 6.172 | 9.696 |
|---|---|---|---|---|---|---|---|
| ELEVATION | 278.766 | 278.605 | 278.161 | 277.744 | 277.129 | 278.024 | 275.028 |

## CHAINAGE 45

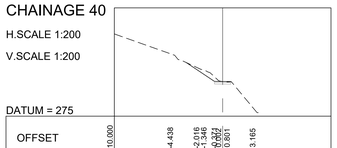
H.SCALE 1:200
V.SCALE 1:200
DATUM = 274



| OFFSET | -10.000 | -3.336 | -1.836 | -0.798 | -0.153 | 1.252 | 1.992 | 6.723 | 8.905 | 10.000 |
|---|---|---|---|---|---|---|---|---|---|---|
| ELEVATION | 281.925 | 279.646 | 278.969 | 278.505 | 278.385 | 277.919 | 277.934 | 274.907 | 274.703 | 274.703 |

## CHAINAGE 40

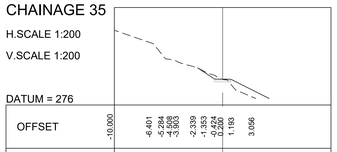
H.SCALE 1:200
V.SCALE 1:200
DATUM = 275



| OFFSET | -10.000 | -4.438 | -2.016 | -0.346 | -0.321 | 0.801 | 3.165 |
|---|---|---|---|---|---|---|---|
| ELEVATION | 282.593 | 280.627 | 279.329 | 277.077 | 276.180 | 276.174 | 276.332 |

## CHAINAGE 35

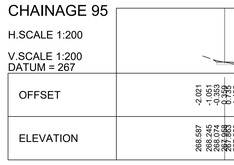
H.SCALE 1:200
V.SCALE 1:200
DATUM = 276



| OFFSET | -10.000 | -6.401 | -5.284 | -4.505 | -3.908 | -2.339 | -1.353 | -0.424 | 1.200 | 1.716 | 3.056 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ELEVATION | 282.897 | 281.655 | 280.267 | 280.154 | 279.872 | 279.447 | 278.461 | 278.410 | 278.337 | 277.908 | 276.603 |

## CHAINAGE 95

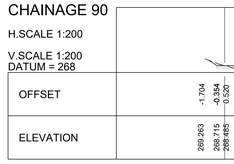
H.SCALE 1:200
V.SCALE 1:200
DATUM = 267



| OFFSET | -2.021 | -0.451 | -0.323 | 0.438 | 1.047 | 1.547 |
|---|---|---|---|---|---|---|
| ELEVATION | 268.587 | 268.587 | 268.674 | 267.883 | 267.883 | 267.870 |

## CHAINAGE 90

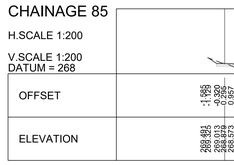
H.SCALE 1:200
V.SCALE 1:200
DATUM = 268



| OFFSET | -1.704 | -0.354 | -0.526 | 1.960 |
|---|---|---|---|---|
| ELEVATION | 269.263 | 268.715 | 268.485 | 268.058 |

## CHAINAGE 85

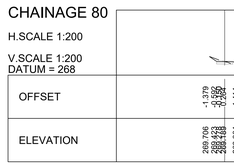
H.SCALE 1:200
V.SCALE 1:200
DATUM = 268



| OFFSET | -1.185 | -0.320 | 0.067 | 1.845 |
|---|---|---|---|---|
| ELEVATION | 269.481 | 269.013 | 268.573 | 268.304 |

## CHAINAGE 80

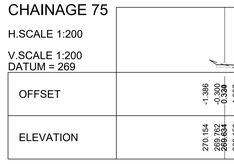
H.SCALE 1:200
V.SCALE 1:200
DATUM = 268



| OFFSET | -1.379 | -0.192 | -0.192 | 1.414 |
|---|---|---|---|---|
| ELEVATION | 269.706 | 269.423 | 269.423 | 268.664 |

## CHAINAGE 75

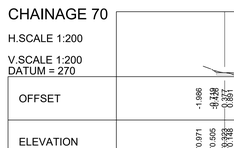
H.SCALE 1:200
V.SCALE 1:200
DATUM = 269



| OFFSET | -1.386 | -0.300 | -0.300 | 1.287 |
|---|---|---|---|---|
| ELEVATION | 270.154 | 269.762 | 269.634 | 269.158 |

## CHAINAGE 70

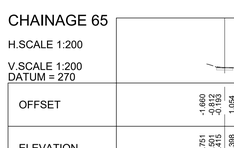
H.SCALE 1:200
V.SCALE 1:200
DATUM = 270



| OFFSET | -1.986 | -0.128 | -0.128 | 0.801 |
|---|---|---|---|---|
| ELEVATION | 270.971 | 270.505 | 270.505 | 270.178 |

## CHAINAGE 65

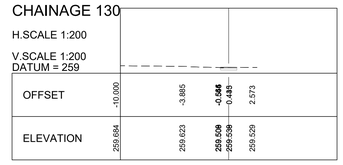
H.SCALE 1:200
V.SCALE 1:200
DATUM = 270



| OFFSET | -1.660 | -0.113 | -0.113 | 1.054 | 2.289 | 3.247 |
|---|---|---|---|---|---|---|
| ELEVATION | 271.751 | 271.291 | 271.291 | 271.398 | 270.921 | 270.857 |

## CHAINAGE 130

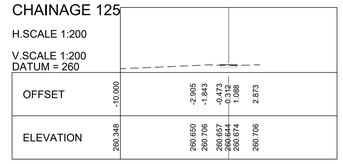
H.SCALE 1:200
V.SCALE 1:200
DATUM = 259



| OFFSET | -10.000 | -3.885 | -0.544 | -0.455 | 2.573 |
|---|---|---|---|---|---|
| ELEVATION | 259.684 | 259.623 | 259.509 | 259.598 | 259.529 |

## CHAINAGE 125

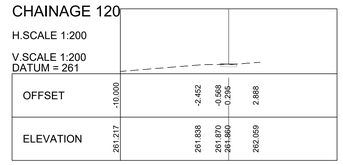
H.SCALE 1:200
V.SCALE 1:200
DATUM = 260



| OFFSET | -10.000 | -2.805 | -1.843 | -0.473 | 1.088 | 2.873 |
|---|---|---|---|---|---|---|
| ELEVATION | 260.348 | 260.650 | 260.706 | 260.657 | 260.674 | 260.706 |

## CHAINAGE 120

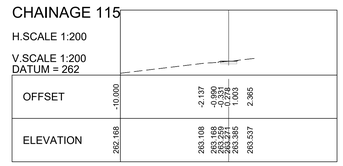
H.SCALE 1:200
V.SCALE 1:200
DATUM = 261



| OFFSET | -10.000 | -2.452 | -0.568 | -0.455 | 2.888 |
|---|---|---|---|---|---|
| ELEVATION | 261.217 | 261.838 | 261.870 | 261.860 | 262.059 |

## CHAINAGE 115

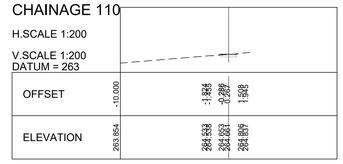
H.SCALE 1:200
V.SCALE 1:200
DATUM = 262



| OFFSET | -10.000 | -2.137 | -0.090 | -0.031 | 1.003 | 2.365 |
|---|---|---|---|---|---|---|
| ELEVATION | 262.168 | 263.168 | 263.259 | 263.329 | 263.365 | 263.537 |

## CHAINAGE 110

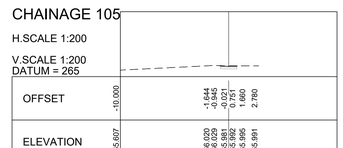
H.SCALE 1:200
V.SCALE 1:200
DATUM = 263



| OFFSET | -10.000 | -1.824 | -0.289 | 1.648 |
|---|---|---|---|---|
| ELEVATION | 263.854 | 264.533 | 264.053 | 264.857 |

## CHAINAGE 105

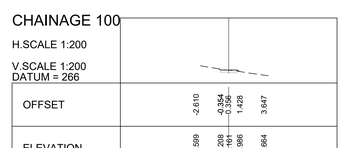
H.SCALE 1:200
V.SCALE 1:200
DATUM = 265



| OFFSET | -10.000 | -1.644 | -0.045 | -0.021 | 0.751 | 2.760 |
|---|---|---|---|---|---|---|
| ELEVATION | 265.607 | 266.020 | 266.020 | 265.981 | 265.992 | 265.991 |

## CHAINAGE 100

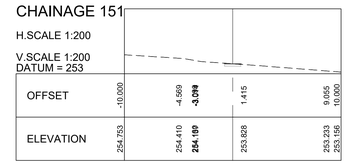
H.SCALE 1:200
V.SCALE 1:200
DATUM = 266



| OFFSET | -2.610 | -0.354 | -0.354 | 1.428 | 3.647 |
|---|---|---|---|---|---|
| ELEVATION | 267.599 | 267.208 | 267.208 | 266.986 | 266.664 |

## CHAINAGE 151

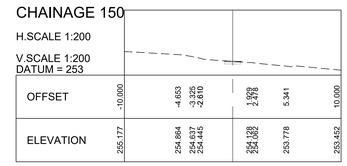
H.SCALE 1:200
V.SCALE 1:200
DATUM = 253



| OFFSET | -10.000 | -4.569 | -3.094 | 1.415 | 9.055 | 10.000 |
|---|---|---|---|---|---|---|
| ELEVATION | 254.753 | 254.410 | 254.189 | 253.828 | 253.233 | 253.156 |

## CHAINAGE 150

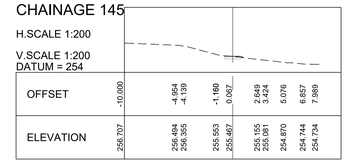
H.SCALE 1:200
V.SCALE 1:200
DATUM = 253



| OFFSET | -10.000 | -4.653 | -3.325 | -2.610 | 1.978 | 5.341 | 10.000 |
|---|---|---|---|---|---|---|---|
| ELEVATION | 255.177 | 254.864 | 254.637 | 254.445 | 254.128 | 253.778 | 253.452 |

## CHAINAGE 145

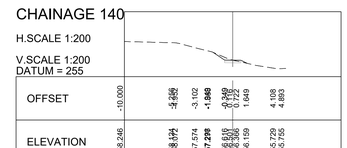
H.SCALE 1:200
V.SCALE 1:200
DATUM = 254



| OFFSET | -10.000 | -4.954 | -4.139 | -1.160 | 0.067 | 2.649 | 3.424 | 5.076 | 6.857 | 7.989 |
|---|---|---|---|---|---|---|---|---|---|---|
| ELEVATION | 256.707 | 256.494 | 256.355 | 255.553 | 255.467 | 255.155 | 255.081 | 254.870 | 254.744 | 254.734 |

## CHAINAGE 140

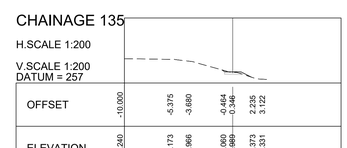
H.SCALE 1:200
V.SCALE 1:200
DATUM = 255



| OFFSET | -10.000 | -4.295 | -3.102 | -1.966 | 0.122 | 1.648 | 4.108 | 4.803 |
|---|---|---|---|---|---|---|---|---|
| ELEVATION | 259.246 | 258.974 | 257.274 | 257.296 | 255.610 | 255.168 | 255.729 | 255.755 |

## CHAINAGE 135

H.SCALE 1:200
V.SCALE 1:200
DATUM = 257



| OFFSET | -10.000 | -5.375 | -3.680 | -0.484 | -0.346 | 2.228 | 3.122 |
|---|---|---|---|---|---|---|---|
| ELEVATION | 259.240 | 259.173 | 258.966 | 258.960 | 258.960 | 257.373 | 257.031 |

FOOTPATH 2 - Ch. 0 to 151

FOR TENDER

## NOTES

GENERAL :

1. PROVE ALL SERVICES PRIOR TO CONSTRUCTION.
2. ALL LEVELS AND DIMENSIONS TO BE VERIFIED ON SITE.
3. ALL SETTING OUT TO BE UNDERTAKEN BY A REGISTERED PROFESSIONAL LAND SURVEYOR.
4. ALL SURVEY AND SETTING OUT DATA PROVIDED IS BASED ON (WGS 84).
5. ALL WORK AREAS TO BE REINSTATED (PREMIX, CONCRETE, ETC.)
6. MUNICIPALITY TO EXECUTE ALL CONNECTIONS INTO MUNICIPAL LINES.
7. UNLESS OTHERWISE AGREED WITH ENGINEER, CONTRACTOR TO SUPPLY ENGINEER WITH RESULTS OF COMPACTION TESTS, AND WHEN APPLICABLE, PERCENTAGE STABILIZATION TESTS ON BACKFILL.
8. ALL WORKS IN ACCORDANCE WITH CITY OF DURBAN SPECIFICATIONS AND SANS 1200
9. THE ENGINEER REQUIRES 24 HOURS NOTICE FOR ALL INSPECTIONS.

MATERIAL COMPLIANCE TESTING :

1. RESULTS OF COMPACTION AND CBR TESTS ON INSITU SUB-BASE MATERIAL AND FILLED SUB-BASE MATERIAL MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE THE UPPER LAYER WORKS ARE IMPORTED TO THE SITE AND PLACED.

FREQUENCY OF TESTS :

1. CBR TESTS 1 PER 300m².
2. COMPACTION TESTS 1 PER 200m² NOTE : COMPACTION TESTS WILL BE REQUIRED FOR EACH OF THE VARYING LAYER THAT IS IMPORTED AND COMPACTED IN PLACE.

RETAINING WALL :

1. ALL LEVELS AND DIMENSIONS TO BE CHECKED ON SITE.
2. ALL CONCRETE WORK IS TO COMPLY WITH SANS 1200G.
3. CONCRETE GRADE : - FOUNDATION 25 / 19
4. ALL FOUNDATION EXCAVATIONS ARE TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF CONCRETE.
5. ALL REINFORCING FIXING IS TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF CONCRETE.
6. SIX CONCRETE CUBES TO BE TAKEN PER BATCH. THREE CUBES TO BE TESTED AT SEVEN DAYS, THE REMAINDER AT TWENTY EIGHT DAYS. THE RESULTS ARE TO BE FORWARDED TO THE ENGINEER FOR REVIEW AND APPROVAL.
7. SET BOTTOM ROW OF BLOCKS IN WET CONCRETE
8. ALL BACKFILL TO BE COMPACTED TO 93% MOD AASHTO DENSITY
9. STORM WATER BEHIND THE TOP OF THE WALL TO BE MANAGED IN SUCH A MANNER AS TO OBVIATE SCOUR BEHIND OR OVER :- TOPPING OF THE WALL.

ROADS AND FOOTPATHS :

1. ALL LEVELS, DIMENSIONS AND SETTING OUT DETAILS TO BE VERIFIED BY CONSULTANT AND CONTRACTORS ON SITE PRIOR TO CONSTRUCTION.
2. THE POSITIONS OF ACCESSES ARE TO BE DETERMINED IN CONSULTATION WITH THE LOCAL COMMUNITY. DAYLIGHT REQUIREMENTS ARE TO BE DECIDED BY THE ENGINEER ON SITE. CONCRETE WEDGES ACCORDING TO CIVIL ENGINEERS DETAILS AND SPECIFICATIONS MAY BE USED IN PLACE OF SURFACED BELL-MOUTHS FOR ACCESSES SERVING SINGLE RESIDENTIAL PROPERTIES.
7. EXISTING ROAD SIGNS, SERVICES AND FENCING AFFECTED BY CONSTRUCTION ARE TO BE REMOVED/RELOCATED ON INSTRUCTION BY THE CIVIL ENGINEER.
8. UNDERGROUND SERVICE CROSSINGS AND MARKERS ARE TO BE ACCORDING TO CIVIL ENGINEERS DETAILS AND SPECIFICATIONS.
9. ALL NEW ROAD SIGNS AND ROAD MARKING REQUIREMENTS ARE TO CONFORM TO THE SOUTHERN AFRICAN DEVELOPMENT COMMUNITY ROAD TRAFFIC SIGNS MANUAL (SADC - RTSM).
10. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH "COLTO SPECIFICATIONS FOR ROAD AND BRIDGE WORKS FOR STATE ROAD AUTHORITIES".
11. NEW FILLS AND EXPOSED CUTS ARE TO BE TOP-SOILED AND VEGETATED IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.

STORMWATER :

1. ALL STORMWATER PIPES ARE CLASS 100D CONCRETE AND HD CL 34 uPVC PIPES.
2. ALL STORMWATER CONCRETE PIPES TO COMPLY WITH SANS 677 STANDARDS.
3. ALL uPVC PIPES TO COMPLY WITH SANS 966 STANDARDS.
4. ALL JOINTS TO BE 'SPIGOT AND SOCKET' TYPE.
5. ALL STORMWATER PIPES TO BE LAID ON CLASS B BEDDING.
6. ALL EXISTING DRAINAGE CULVERTS ARE TO BE INSPECTED, AND ANY FOUND IN UNSERVICEABLE CONDITION ARE TO BE REPLACED ON INSTRUCTION BY THE CIVIL ENGINEER.
7. CULVERT INVERTS ARE TO BE DECIDED BY CIVIL ENGINEER ON SITE UNLESS SHOWN OTHERWISE. MIN. COVER = 600mm, MIN. SLOPE = 2%.

SCALE (mm)

| No. | REFERENCE DRAWINGS |
|---|---|

| REV | DESCRIPTION | BY | DATE |
|---|---|---|---|
| P1 | FOR TENDER | A.D. | 2024.03.22 |

Professional person | Registration

CLIENT

ETHEKWINI MUNICIPALITY

PROJECT

eTHEKWINI: PROVISION OF INCREMENTAL SERVICES TO INFORMAL SETTLEMENTS: ISITHUNDU HILL WARD 13

DETAILS

FOOTPATHS CROSS SECTIONS (SHEET 2 OF 3)

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| DRAWN | A.D | | |
| APPROVED | L.S | PL | DATE 2024.03.22 |

CONTRACT No. 4V-28990

DRAWING No. 557/ISIT/902-2 REV P1