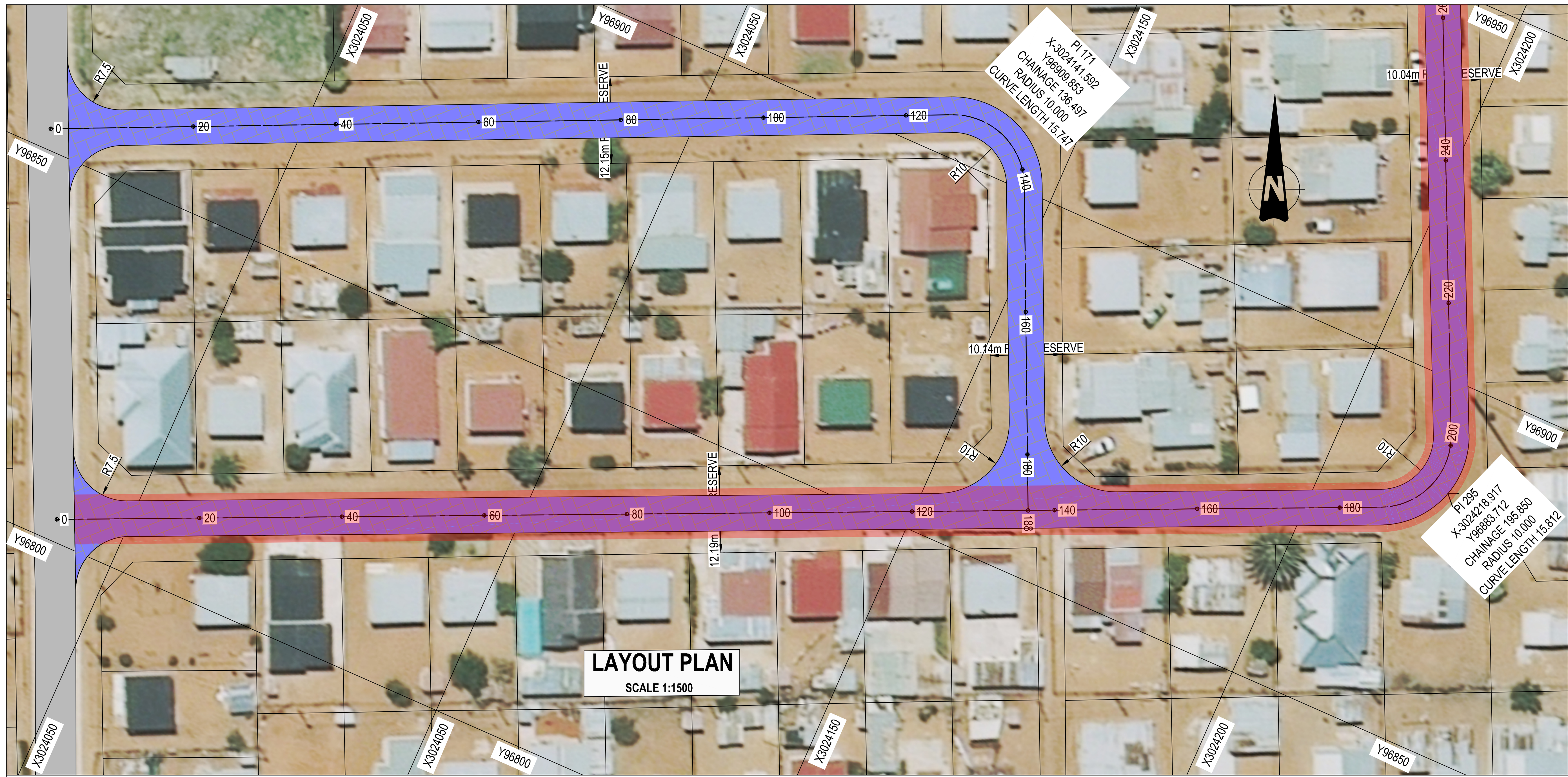
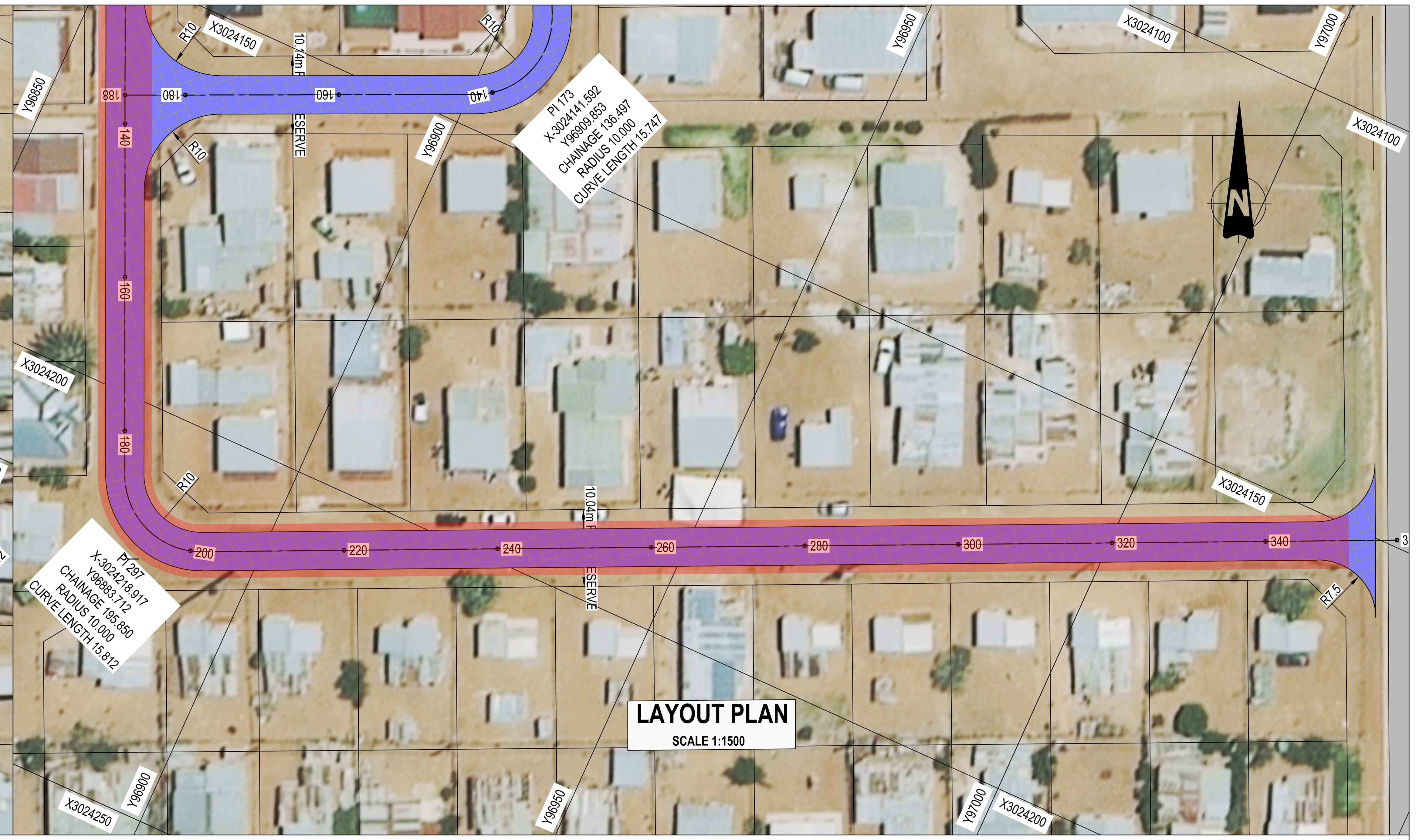
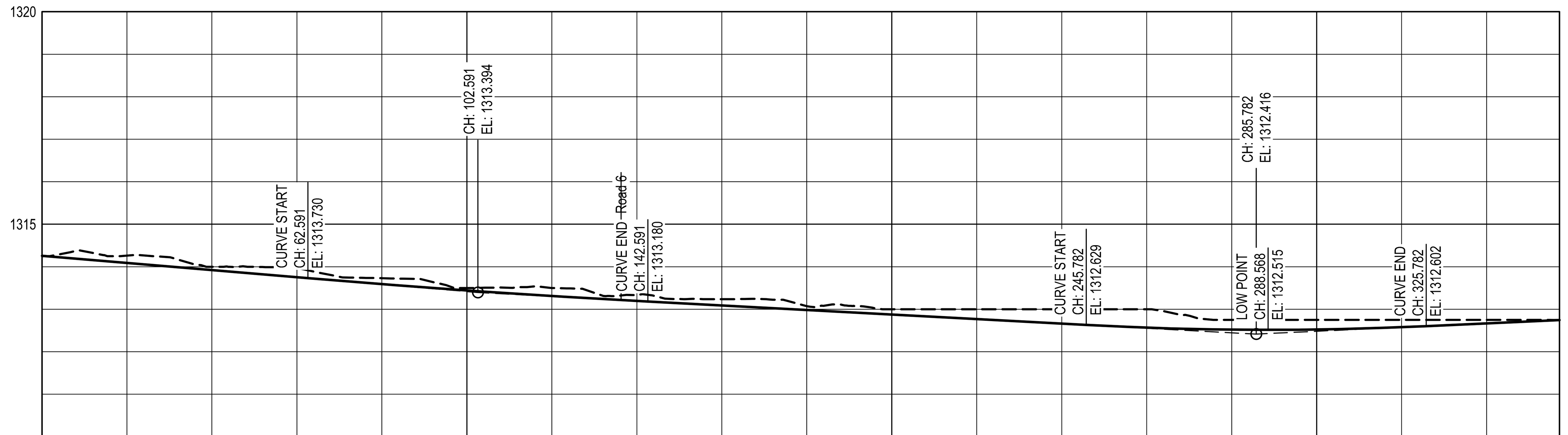



LONGSECTION ALIGNMENT KALANGA
FROM 0.000 TO 357.134




NGL - - - - -
ROAD ———

SCALES:
Horizontal 1:1000
Vertical 1:100

DATUM 1310.000

VERTICAL PROFILE GRADES

- BVC 62.591 — VCL=80.000m, K=262 — EVC 142.591
- BVC 245.782 — VCL=80.000m, K=80 — EVC 325.782
- -0.840% — 102.591 | 1313.394 — -0.534% — 285.782 | 1312.416 — 0.464%

FINAL DESIGN ROAD LEVELS

| DISTANCE (m) | LEFT EDGE (HL) | CENTRE LINE (CL) | RIGHT EDGE (HR) | GROUND LEVELS ON CL |
|---|---|---|---|---|
| 0 | | 1314.256 | | 1314.256 |
| 20 | 1314.013 | 1314.088 | 1314.163 | 1314.262 |
| 40 | 1313.845 | 1313.920 | 1313.995 | 1313.999 |
| 60 | 1313.677 | 1313.752 | 1313.827 | 1313.971 |
| 63 | 1313.655 | 1313.730 | 1313.805 | 1313.914 |
| 80 | 1313.514 | 1313.589 | 1313.664 | 1313.730 |
| 100 | 1313.367 | 1313.442 | 1313.517 | 1313.500 |
| 103 | 1313.350 | 1313.425 | 1313.500 | 1313.500 |
| 120 | 1313.236 | 1313.311 | 1313.386 | 1313.500 |
| 140 | 1313.119 | 1313.194 | 1313.269 | 1313.330 |
| 143 | 1313.105 | 1313.180 | 1313.255 | 1313.339 |
| 160 | 1313.012 | 1313.087 | 1313.162 | 1313.237 |
| 180 | 1312.906 | 1312.981 | 1313.056 | 1313.072 |
| 200 | 1312.799 | 1312.874 | 1312.949 | 1313.000 |
| 220 | 1312.692 | 1312.767 | 1312.842 | 1313.000 |
| 240 | 1312.585 | 1312.660 | 1312.735 | 1313.000 |
| 246 | 1312.554 | 1312.629 | 1312.704 | 1312.999 |
| 260 | 1312.491 | 1312.566 | 1312.641 | 1313.000 |
| 280 | 1312.445 | 1312.520 | 1312.595 | 1312.750 |
| 286 | 1312.441 | 1312.516 | 1312.591 | 1312.750 |
| 300 | 1312.448 | 1312.523 | 1312.598 | 1312.750 |
| 320 | 1312.502 | 1312.577 | 1312.652 | 1312.750 |
| 326 | 1312.527 | 1312.602 | 1312.677 | 1312.750 |
| 340 | 1312.593 | 1312.668 | 1312.743 | 1312.750 |
| 357 | | 1312.747 | | 1312.747 |

SUPERELEVATION LEFT · · · · · · · RIGHT — —

HORIZONTAL ALIGNMENT

- DIRECTION 335°40'30"
- BCC 185.745 CURVE 201.557 ECC, R=10.0m, I=290°22'40"
- DIRECTION 245°04'50"

## HORIZONTAL ALIGNMENT
## SETTING OUT DATA-Alignment Kalanga

| NAME | CH | Y | X | DETAILS |
|---|---|---|---|---|
| START | 0.000 | -96 803.042 | 3 024 040.452 | L 185.745m |
| BCC6<br>PI6<br>ECC6 | 185.745<br><br>201.557 | -96 879.550<br>-96 883.712<br>-96 892.876 | 3 024 209.709<br>3 024 218.917<br>3 024 214.659 | R 10.000m<br>DA 90°35'50"<br>TL 10.105m<br>AL 15.812m |
| PI | 357.134 | -97 033.967 | 3 024 149.105 | L 155.577m |
| END | 357.134 | -97 033.967 | 3 024 149.105 | L 155.577m |

Vertical Alignment: Alignment 05 VA
Description:
Station Range: Start: 0.000, End: 357.134

Vertical Curve Information:(sag curve)

| | | | |
|---|---|---|---|
| PVC Station: | 62.591 | Elevation: | 1,313.730m |
| PVI Station: | 102.591 | Elevation: | 1,313.394m |
| PVT Station: | 142.591 | Elevation: | 1,313.180m |
| Low Point: | 142.591 | Elevation: | 1,313.180m |
| Grade in: | -0.84% | Grade out: | -0.53% |
| Change: | 0.31% | K: | 261.567m |
| Curve Length: | 80.000m | Curve Radius | 26,156.685m |
| Headlight Distance: | | | |

Vertical Curve Information:(sag curve)

| | | | |
|---|---|---|---|
| PVC Station: | 245.782 | Elevation: | 1,312.629m |
| PVI Station: | 285.782 | Elevation: | 1,312.416m |
| PVT Station: | 325.782 | Elevation: | 1,312.602m |
| Low Point: | 288.568 | Elevation: | 1,312.515m |
| Grade in: | -0.53% | Grade out: | 0.46% |
| Change: | 1.00% | K: | 80.134m |
| Curve Length: | 80.000m | Curve Radius | 8,013.411m |
| Headlight Distance: | | | |


Maquassi Hills Local Municipality

MAQUASSI HILLS LOCAL MUNICIPALITY

PRIVATE BAG X3 TEL: 018 596 1068
WOLMARANSSTAD FAX: 018 596 1555
2630


## AMENDMENTS

| REV | DATE | APPROVED | DESCRIPTION |
|---|---|---|---|
| A | SEP 2026 | G. A. M | ISSUE FOR TENDER |


CONSULTANT DETAIL

DITLOU CONSULTING CC
OFFICE 19 EAST 202
SANLYNN OFFICE PARK
CNR ALKANTRAND & LYNNWOOD ROAD
PO BOX 15684
LYNN EAST
0039
TEL: (012)548-0196
FAX: (012)548-0298
EMAIL: info@ditloucon.co.za

DITLOU CONSULTING — SOLUTIONS THAT IMPROVE LIVES


I, G. MANYIKA Prof Reg Nr 2024301981
HEREBY CERTIFY THAT THE SERVICES WILL BE INSTALLED ACCORDING TO THE DRAWING

DATE ____ SIGNATURE ____ A REVISION

DESIGNED
NAME: L. MODISHA Prof Reg No:....
SIGNATURE:.... DATE:....

DRAWN
NAME: O. BALOYI
SIGNATURE:.... DATE:....

CHECKED
NAME: G. MANYIKA Prof Reg No: 2024301981
SIGNATURE:.... DATE:....

INFORMATION OFFICE CHECKED
NAME:....
SIGNATURE:.... DATE:....

DESIGN OFFICE APPROVAL
NAME:.... Prof Reg No:....
SIGNATURE:.... DATE:....

CONTRACT No.: 8/1/2 N.J. MBONANI
PROJECT No.: 1145K-2
SHEET No.: 1
PAPER SIZE: A1
SCALE: AS SHOWN
DATE:

LOCATION OF PROJECT
DESIGN AND SUPERVISION OF UPGRADING OF GRAVEL ROAD TO BLOCK PAVING AT KALANGA, MOLALE, WILLIAM OLIFANT STREETS IN LEBALENG

DRAWING NAME:
LONGSECTION LAYOUT

CONTRACT NUMBER:
8/1/2 N.J. MBONANI

DRAWING NUMBER
1145K-2-03L05 A REVISION

# PROJECT STATUS

CONCEPT DRAWING ○ TENDER DRAWING ● CONSTRUCTION DRAWING ○ AS BUILT DRAWING ○

PROJECT ENGINEER of MHLM:
NAME SIGNATURE
Prof Reg No. DATE

INSPECTOR OF WORKS of MHLM:
SIGNATURE
NAME DATE