


Appendix C

RECOMMENDED ROUTE ALIGNMENT

- Key Plan
- 4 x layout & Long section Drawings

LEGEND:

-  PREFERRED ROUTE
-  STATIONS

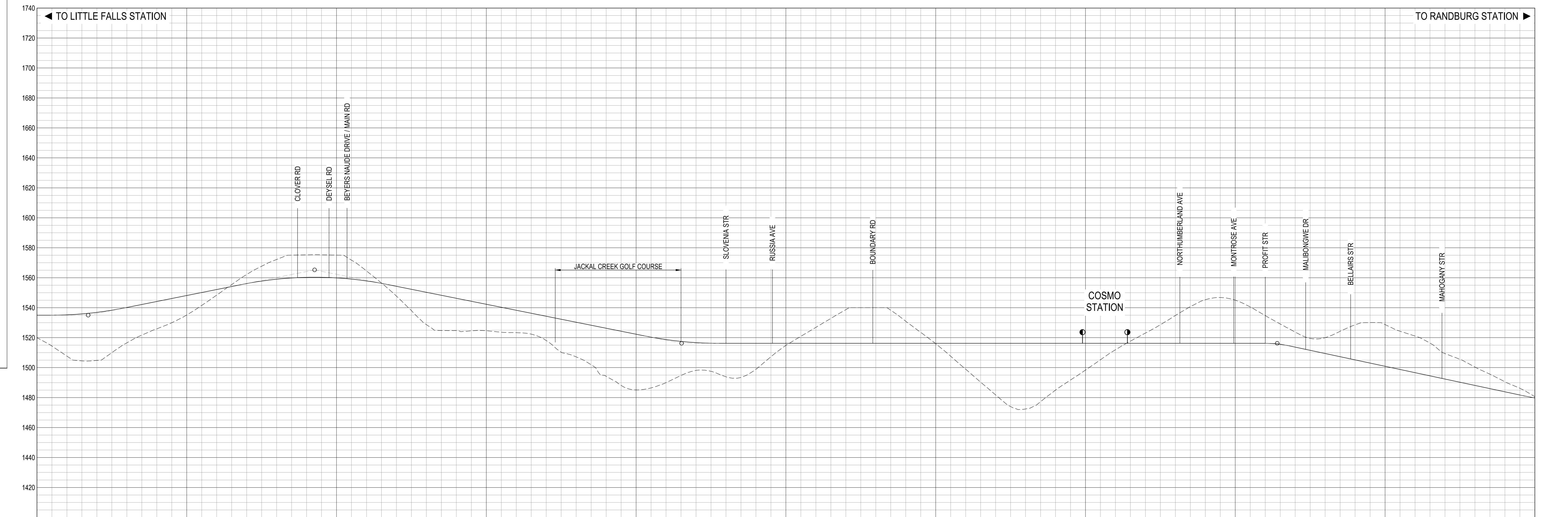
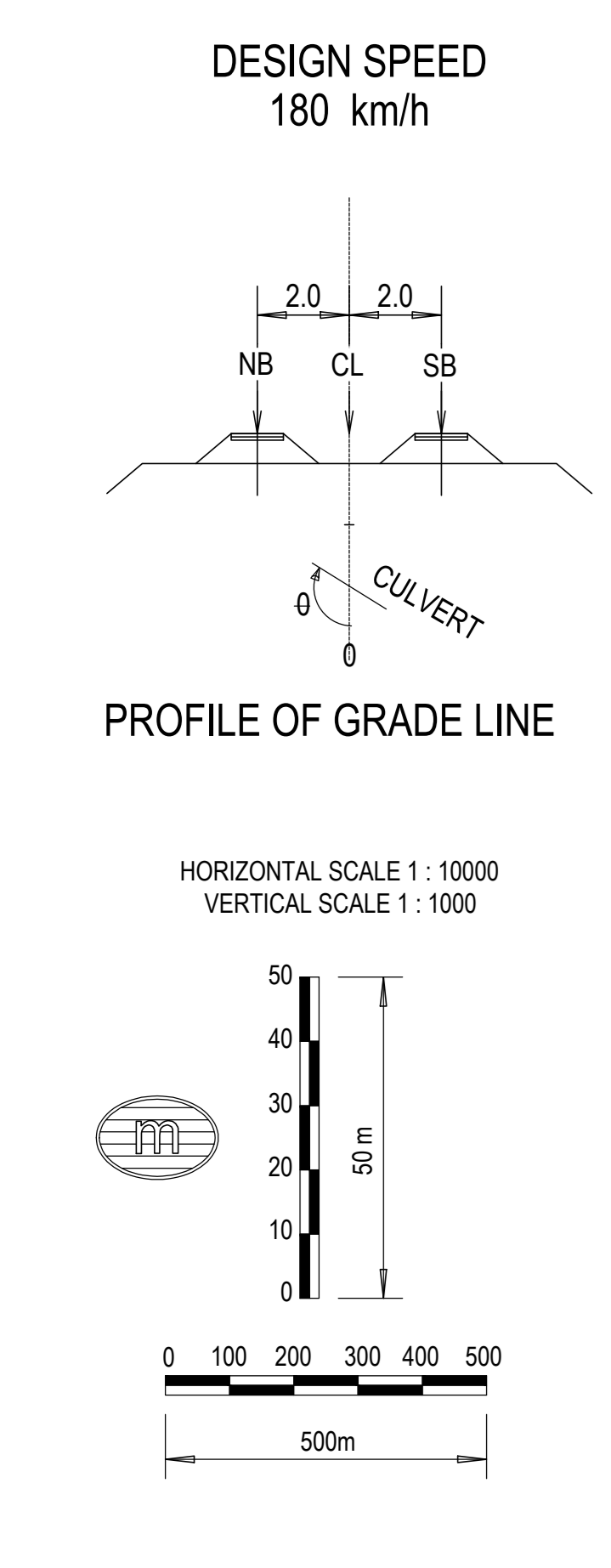
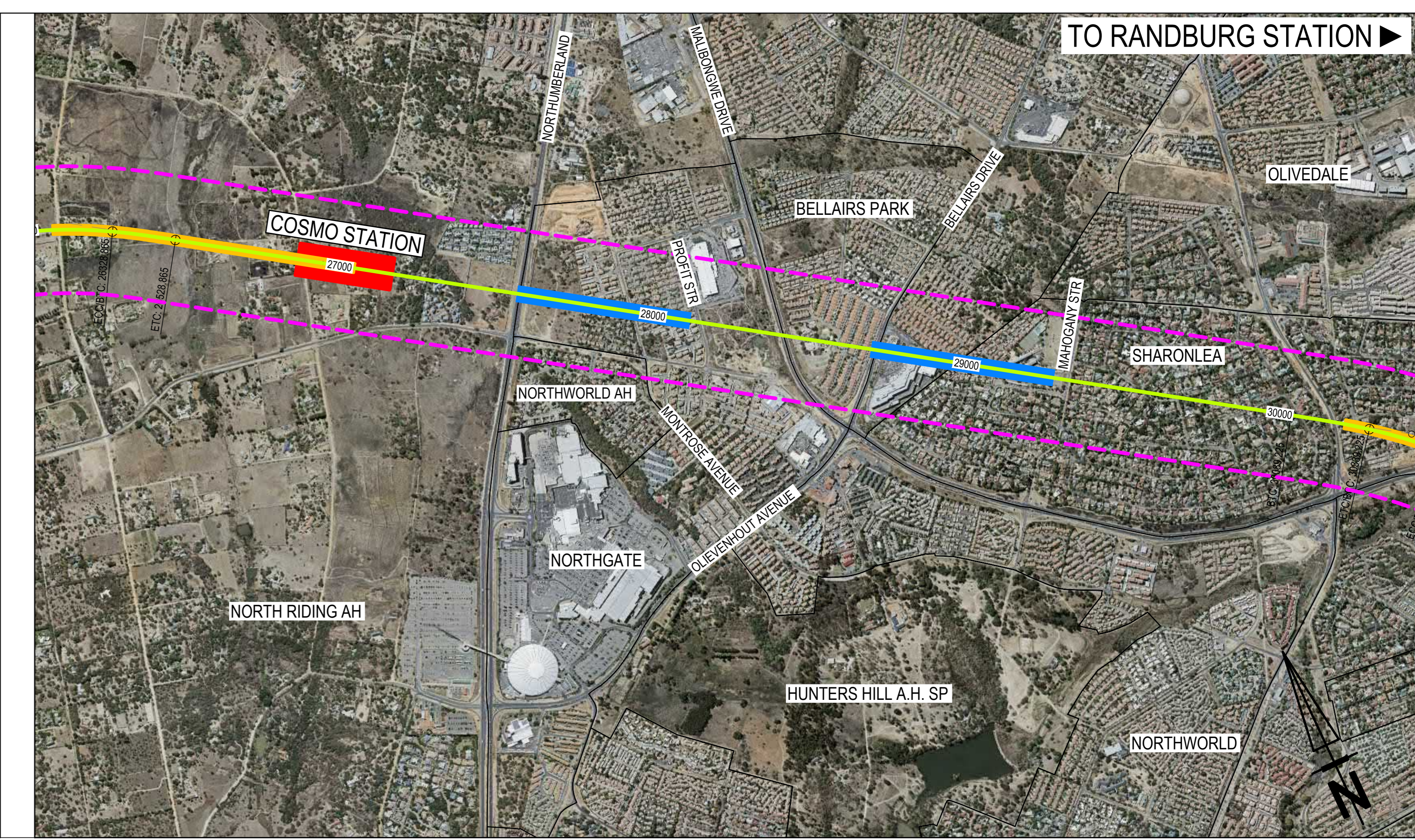
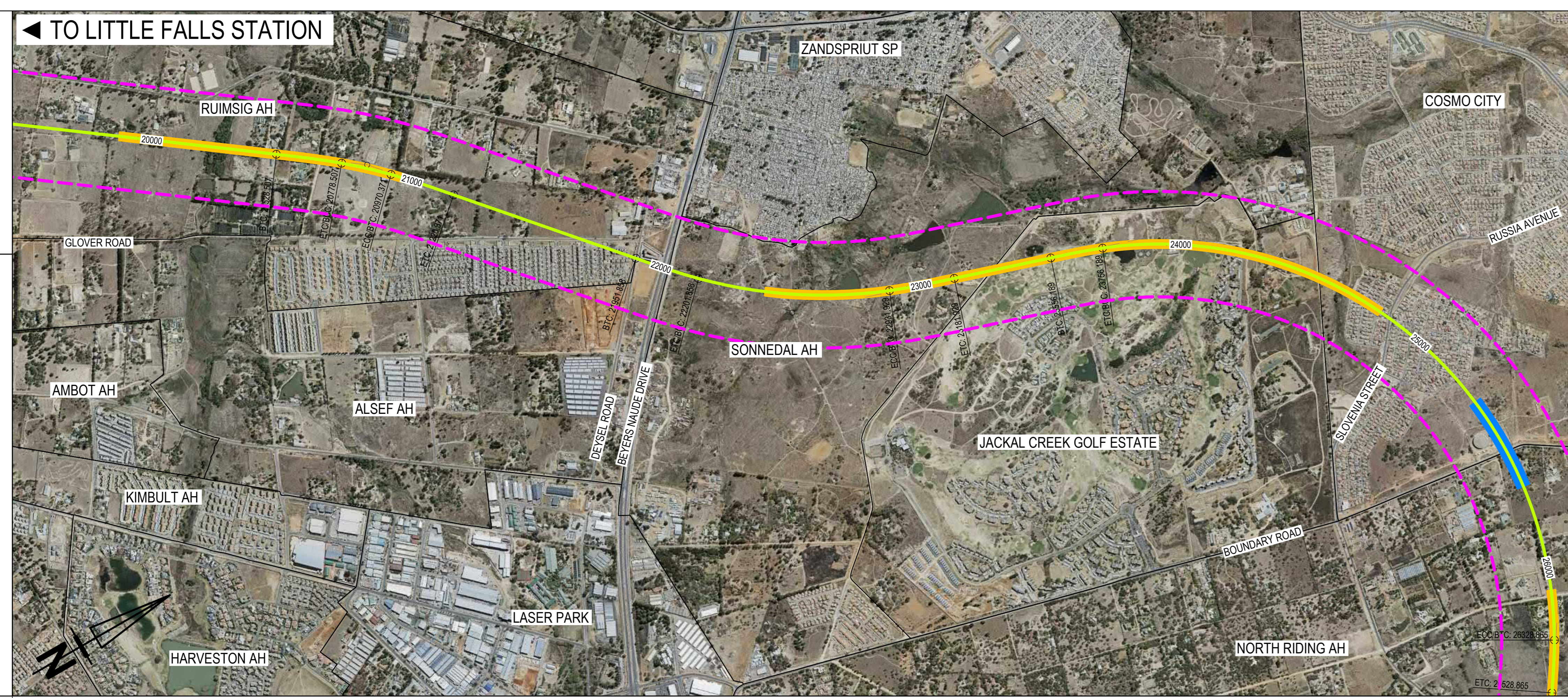


KEY PLAN
NTS

| | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|---|--|--------------|---|
| CONSULTANTS:    South Africa  | | | CLIENT:   | | APPROVED for CONSULTING ENG. _____ DATE: _____ | | PROJECT: GAUTRAIN EXTENSION : PHASE 1 | | DRAWING DESCRIPTION: PREFERRED ROUTE ALIGNMENT | | SCALE NTS | TYPE OF PLANNING ROUTE DETERMINATION |
| AMENDMENTS No. DATE | | | LETSEMA  | | for GAUTENG MANAGEMENT AGENCY _____ DATE: _____ | | DRAWING NUMBER PRO-ROUTES 00-00 | | PAPER SIZE A0 | | | |

- LEGEND:**
- PREFERRED ROUTE ALIGNMENT
 - PLATFORM / STATION
 - VIADUCT
 - TUNNEL
 - - - 400m WIDE CORRIDOR

LAYOUT PLAN
SCALE 1 : 10 000



NGL - - - - -
RAIL —

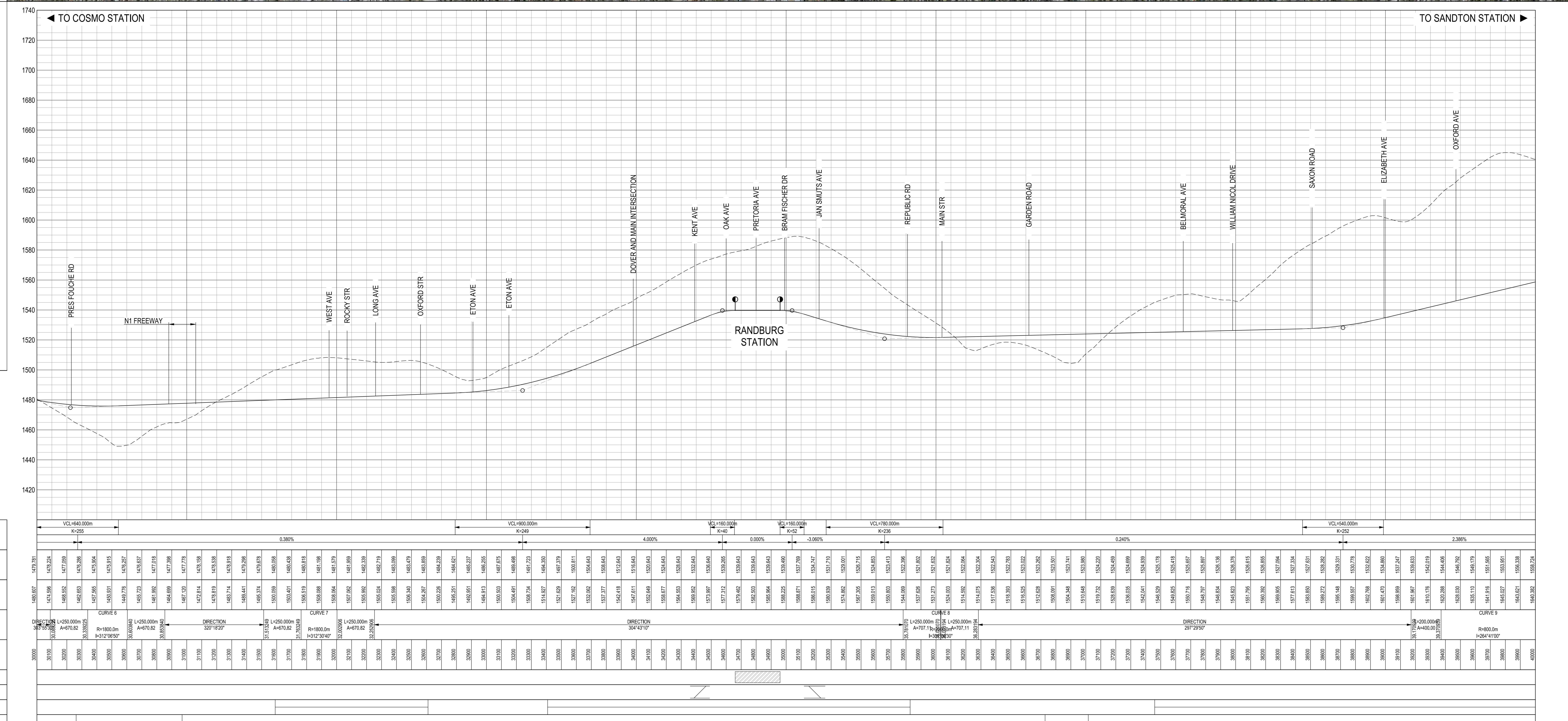
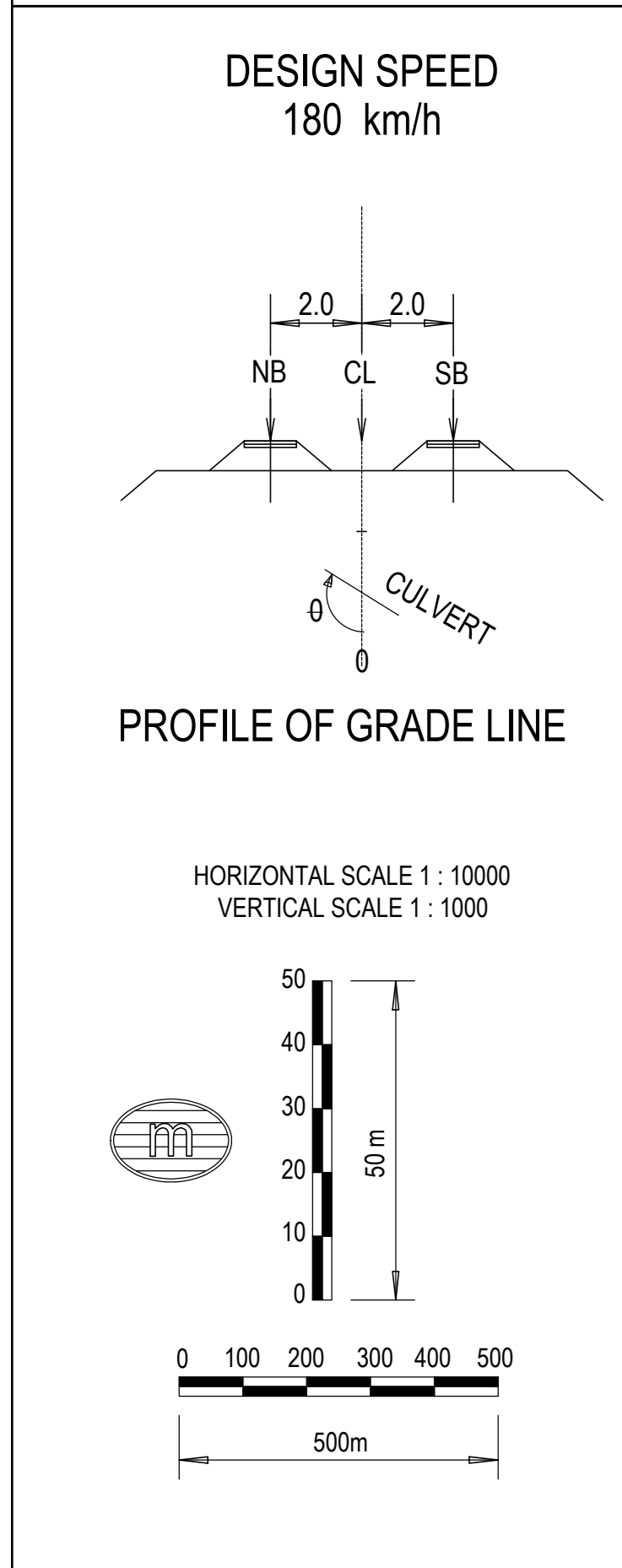
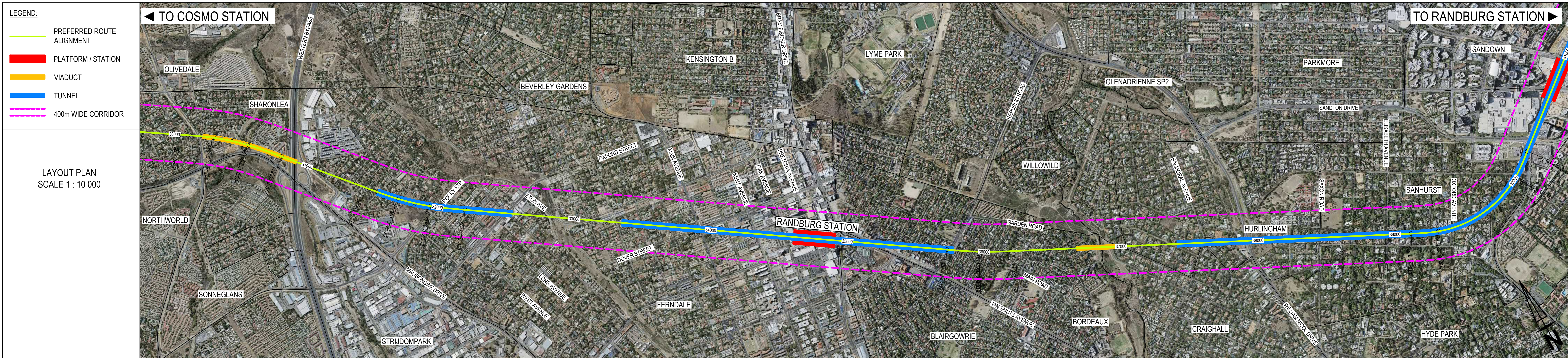
SCALES:
Horizontal 1:10000
Vertical 1:1000
DATUM 1400.000

| |
|-------------------------|
| VERTICAL PROFILE GRADES |
| CENTRE LINE (CL) |
| GROUND LEVELS ON CL |
| HORIZONTAL ALIGNMENT |
| DISTANCE (m) |
| PLATFORMS |
| CROSS OVERS |
| TUNNELS |
| VIADUCTS |

| | | | | | | | | | | |
|--|----------|-----------------------|----------|-----------------------|----------|-----------------------|----------|----------------------|----------|-----------------------|
| 1535.000 | 0.00% | VCL=500.000m K=250 | 2.00% | VCL=980.000m K=245 | -2.00% | VCL=500.000m K=250 | 0.00% | VCL=160.000m K=75 | -2.12% | VCL=640.000m K=255 |
| 1535.000 | 1514.402 | 1535.001 | 1535.222 | 1535.893 | 1536.324 | 1536.893 | 1537.462 | 1538.031 | 1538.600 | 1539.169 |
| 1514.402 | 1514.402 | 1535.001 | 1535.222 | 1535.893 | 1536.324 | 1536.893 | 1537.462 | 1538.031 | 1538.600 | 1539.169 |
| 2000 | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 | 2080 | 2090 | 2100 |
| <p>DIRECTION 216°33'20"</p> <p>CURVE 3 L=250.000m R=2000.0m A=707.11</p> <p>DIRECTION 225°12'50"</p> <p>CURVE 4 L=250.000m R=1800.0m A=670.82</p> <p>DIRECTION 196°01'00"</p> <p>CURVE 5 L=200.000m R=1500.0m A=547.72</p> <p>DIRECTION 303°55'30"</p> | | | | | | | | | | |

| | | | | | | | | | | | | | |
|-------------------------|--|--------------------|--|---|--|---|--|---|--|---|--|--|--|
| CONSULTANTS: | | CLIENT: | | APPROVED: for CONSULTING ENG. _____ for GAUTENG MANAGEMENT AGENCY _____ DATE: _____ | | PROJECT: GAUTRAIN EXTENSION : PHASE 1 | | DRAWING DESCRIPTION: PREFERRED ROUTE ALIGNMENT (SHEET 2 OF 4) | | SCALE: AS SHOWN PAPER SIZE: A0 | | TYPE OF PLANNING: ROUTE DETERMINATION DRAWING NUMBER: PRO-ROUTE 03-02 | |
|-------------------------|--|--------------------|--|---|--|---|--|---|--|---|--|--|--|

| No. | DATE | AMENDMENTS |
|-----|------|------------|
|-----|------|------------|



NGL

RAIL

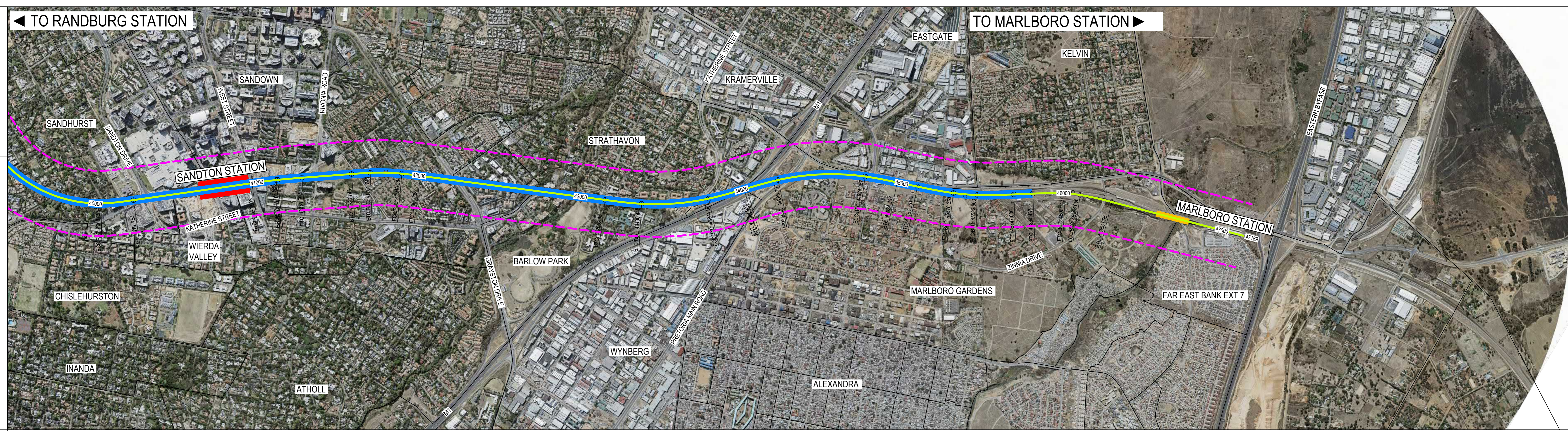
SCALES:
Horizontal 1:10000
Vertical 1:1000
DATUM 1400.000

| VERTICAL PROFILE GRADES | |
|-------------------------|--|
| CENTRE LINE (CL) | |
| GROUND LEVELS ON CL | |
| HORIZONTAL ALIGNMENT | |
| DISTANCE (m) | |
| PLATFORMS | |
| CROSS OVERS | |
| TUNNELS | |
| VIADUCTS | |

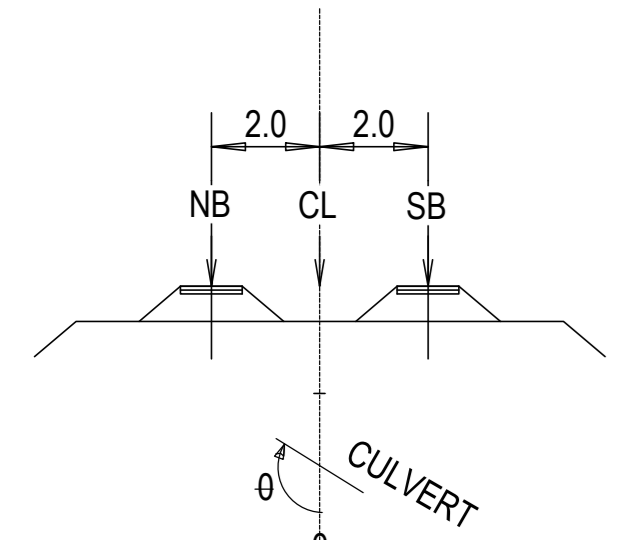
| | | | | | | | | | | | | | |
|--|--|--------------------------|--|---|--|---|--|---|--|---------------------------|--|---|--|
| CONSULTANTS: | | CLIENT: | | APPROVED: for CONSULTING ENG. _____ for GAUTENG MANAGEMENT AGENCY _____ DATE: _____ | | PROJECT: GAUTRAIN EXTENSION : PHASE 1 | | DRAWING DESCRIPTION: PREFERRED ROUTE ALIGNMENT (SHEET 3 OF 4) | | SCALE: AS SHOWN | | TYPE OF PLANNING: ROUTE DETERMINATION | |
| No. DATE AMENDMENTS | | PAPER SIZE: A0 | | DRAWING NUMBER: PRO-ROUTE 03-03 | | | | | | | | | |

- LEGEND:**
- PREFERRED ROUTE ALIGNMENT
 - PLATFORM / STATION
 - VIADUCT
 - TUNNEL
 - - - 400m WIDE CORRIDOR

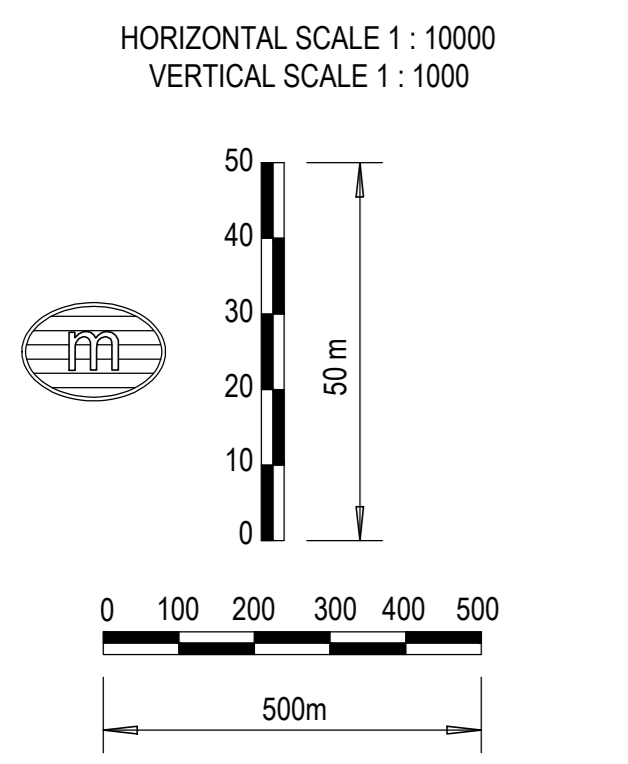
LAYOUT PLAN
SCALE 1 : 10 000



DESIGN SPEED
180 km/h

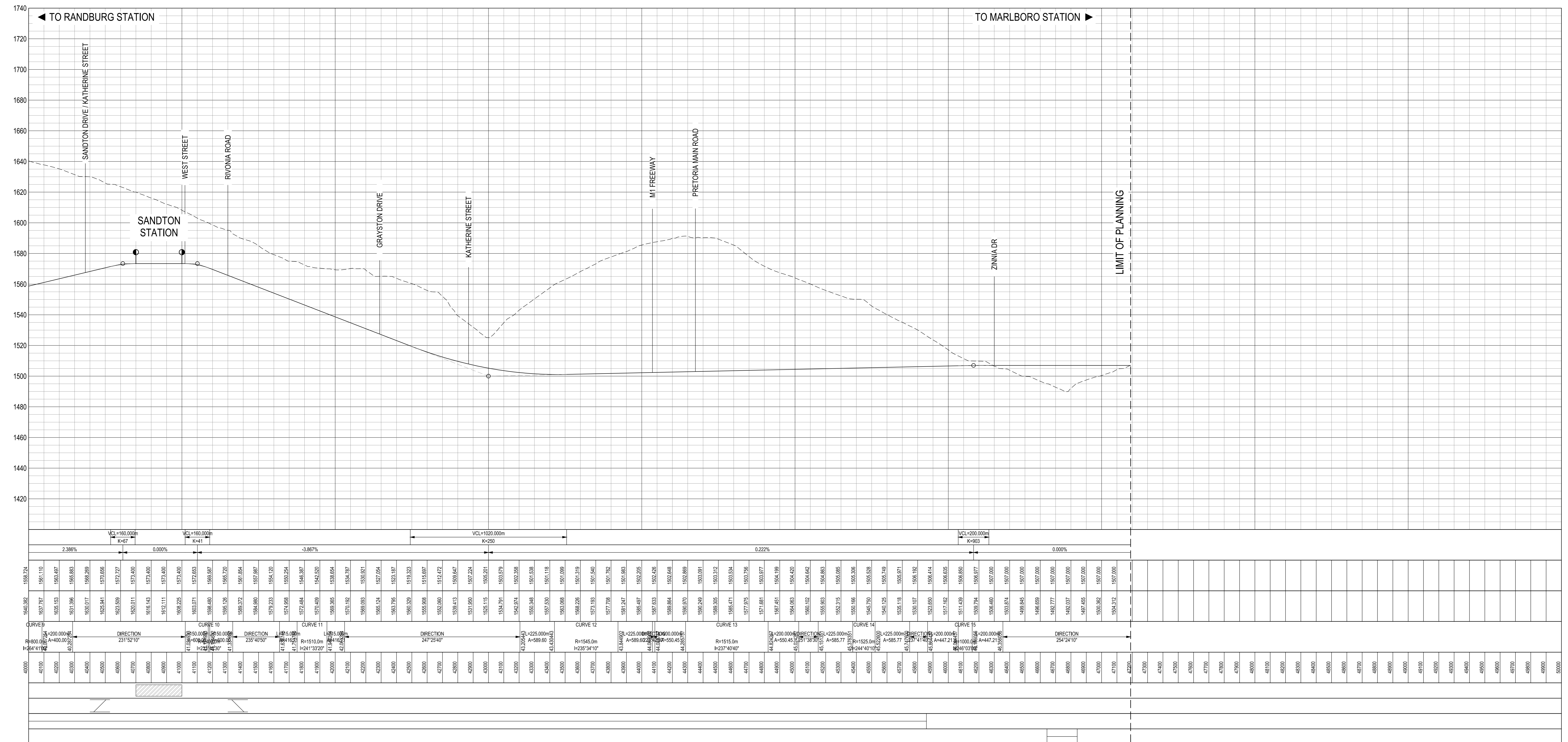


PROFILE OF GRADE LINE



NGL - - - - -
RAIL —

SCALES:
Horizontal 1:10000
Vertical 1:1000
DATUM 1400.000



| | CONSULTANTS: | CLIENT: | APPROVED: for CONSULTING ENG. _____ for GAUTENG MANAGEMENT AGENCY _____ DATE: _____ | PROJECT: GAUTRAIN EXTENSION : PHASE 1 | DRAWING DESCRIPTION: PREFERRED ROUTE ALIGNMENT (SHEET 4 OF 4) | SCALE: AS SHOWN PAPER SIZE: A0 | TYPE OF PLANNING: ROUTE DETERMINATION DRAWING NUMBER: PRO-ROUTE 03-04 | | | | | | | | | | | | |
|---|-------------------------|--------------------|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>DATE</th> <th>AMENDMENTS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | No. | DATE | AMENDMENTS | | | | | | | | | | | | | | | | |
| No. | DATE | AMENDMENTS | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |