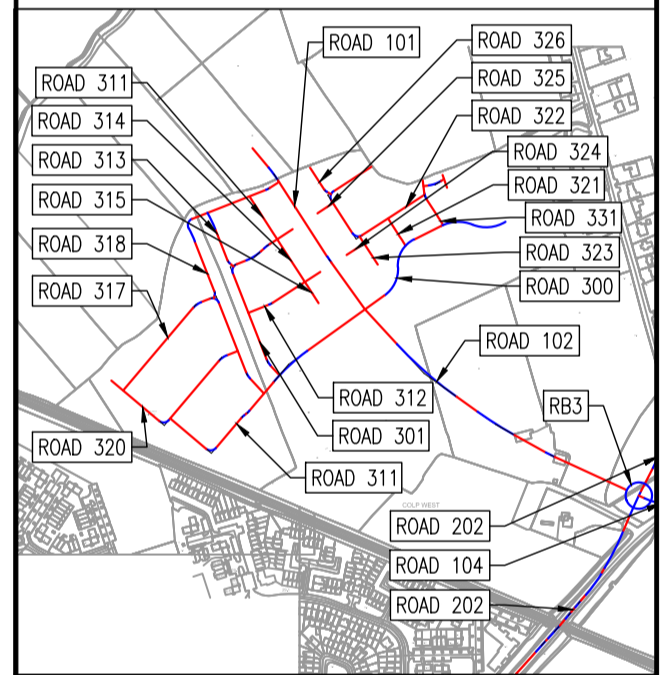


- GENERAL NOTES:
1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NRA SPECIFICATION FOR ROAD WORKS.
 2. ALL DIMENSIONS IN METRES UNLESS SPECIFIED OTHERWISE.
 3. ALL CO-ORDINATES ARE TO IRISH TRANSVERSE MERCATOR (TM).
 4. ALL LEVELS ARE TO ORDNANCE DATUM AND ARE IN METRES.
 5. ALL TEMPORARY TRAFFIC & OPERATIONS MANAGEMENT SHALL COMPLY FULLY WITH THE NRA SPECIFICATION FOR ROAD WORKS.
 6. THE CONTRACTOR MUST LIAISE DIRECTLY WITH MEATH COUNTY COUNCIL AS REQUIRED.
 7. ALL VEHICULAR & OPERATIONAL ROUTES WITHIN AND SURROUNDING THE WORKS EXTENTS MUST BE MAINTAINED THROUGHOUT THE WORKS IN ACCORDANCE WITH THE CONTRACTORS APPROVED TEMPORARY TRAFFIC & OPERATIONS MANAGEMENT PLAN AND SHALL COMPLY FULLY WITH THE PROVISIONS OF CH.8 OF THE TRAFFIC SIGNS MANUAL.
 8. CONTRACTOR SHALL EMPLOY THE SERVICES OF AN APPROVED SURVEY COMPANY TO ESTABLISH THE GRID IDENTIFIED.
 9. ALL AGGREGATES PROPOSED FOR USE ON THIS SCHEME SHALL MEET FULLY THE REQUIREMENTS OF THE NRA SPECIFICATION FOR ROAD WORKS AND IN ADDITION THE REQUIREMENTS STATED IN STANDARD RECOMMENDATION S.R. 21:2014 GUIDANCE ON THE USE OF U.S. EN 13242-2002 +A1:2007 - AGGREGATES FOR UNBOUND AND HYDRAULICALLY BOUND MATERIALS FOR USE IN CIVIL ENGINEERING WORK AND ROAD CONSTRUCTION.
- DRAWING SPECIFIC NOTES:
1. REFER TO DRG 170092-2000 TO 2004 FOR HORIZONTAL ALIGNMENT INFORMATION.
 2. REFER TO DRG 170092-2011 FOR TYPICAL CROSS SECTIONAL CONSTRUCTION DETAILS.

KEY

- EXISTING GROUND PROFILE
- PROPOSED GROUND PROFILE STRAIGHT
- PROPOSED GROUND PROFILE CURVE



KEYPLAN

| REV. | DATE | DESCRIPTION | BY | CHKD. |
|-----------------------------|----------|-------------|-----|-------|
| PLANNING SHD STAGE 3 | | | | |
| DESIGNED | DMW | PREPARED | DJG | |
| DATE | OCT 2019 | CHECKED | DJR | |

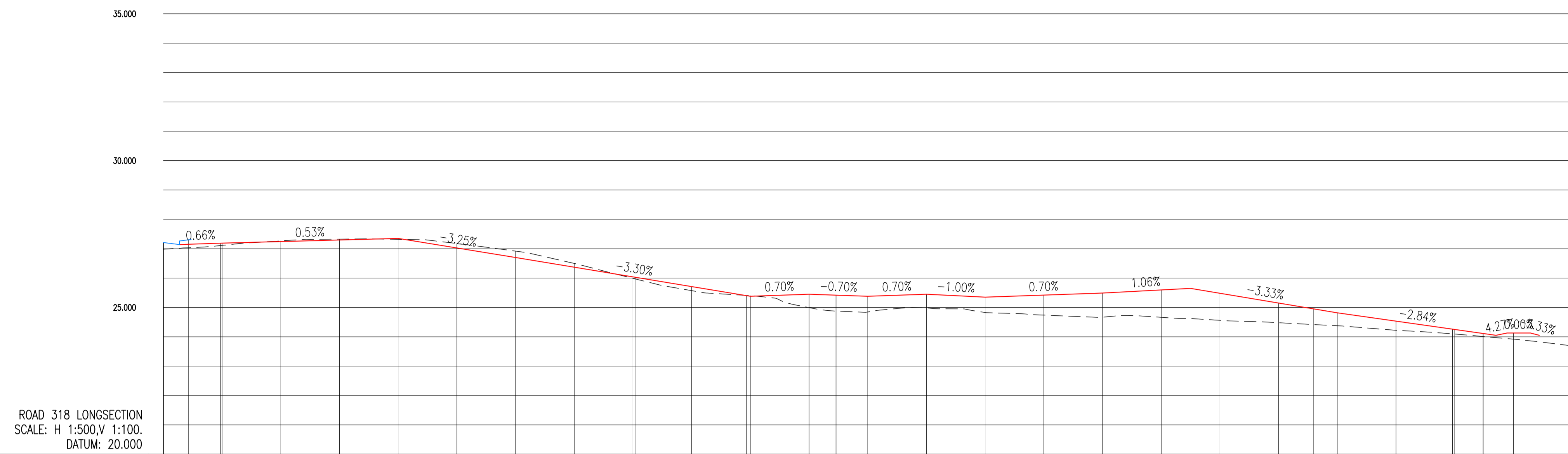
DBFL Consulting Engineers
 Dublin Office: Ormrod House, Upper O'Connell Quay, Dublin 7, Ireland. PHONE +353 1 400 4000 FAX +353 1 400 4050
 Waterford Office: Unit 2, The Chandlery, 1-2 O'Connell Street, Waterford, Ireland. PHONE +353 51 338 550 FAX +353 51 844 813
 Email: info@dbfl.ie Site: www.dbfl.ie

PROJECT
STRATEGIC HOUSING DEVELOPMENT AT COLPE WEST, DROGHEDA, CO. MEATH

DRG. TITLE
LONGITUDINAL SECTIONS THROUGH ROAD SHEET 7

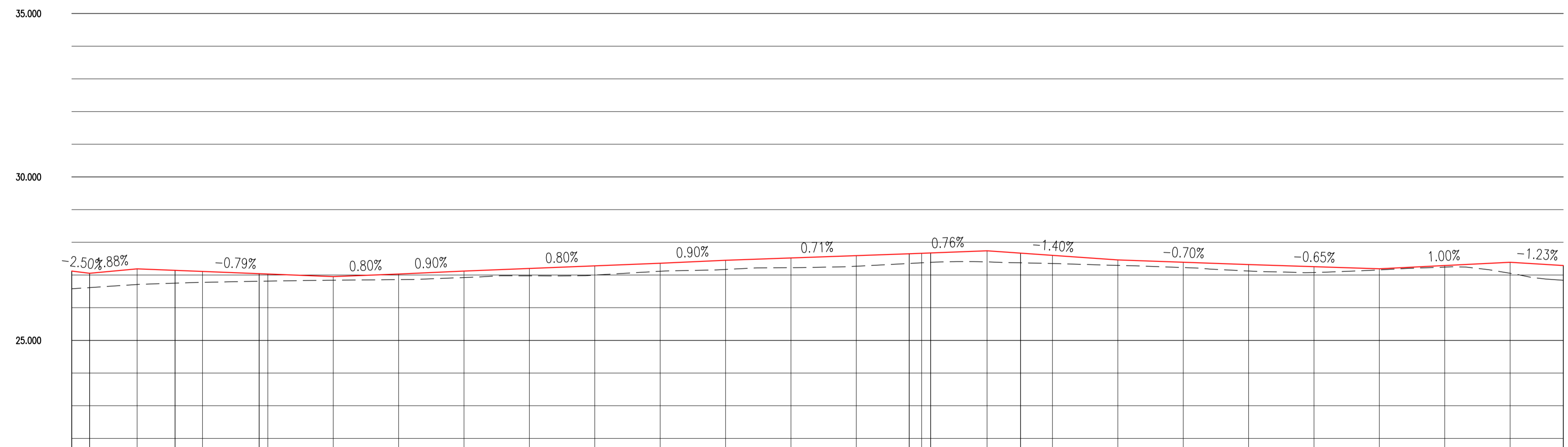
CLIENT
SHANNON HOMES DROGHEDA LTD.

SCALE AS SHOWN @A1 FILE REF. 170092-2071
 DRG. NO. **170092-2077**



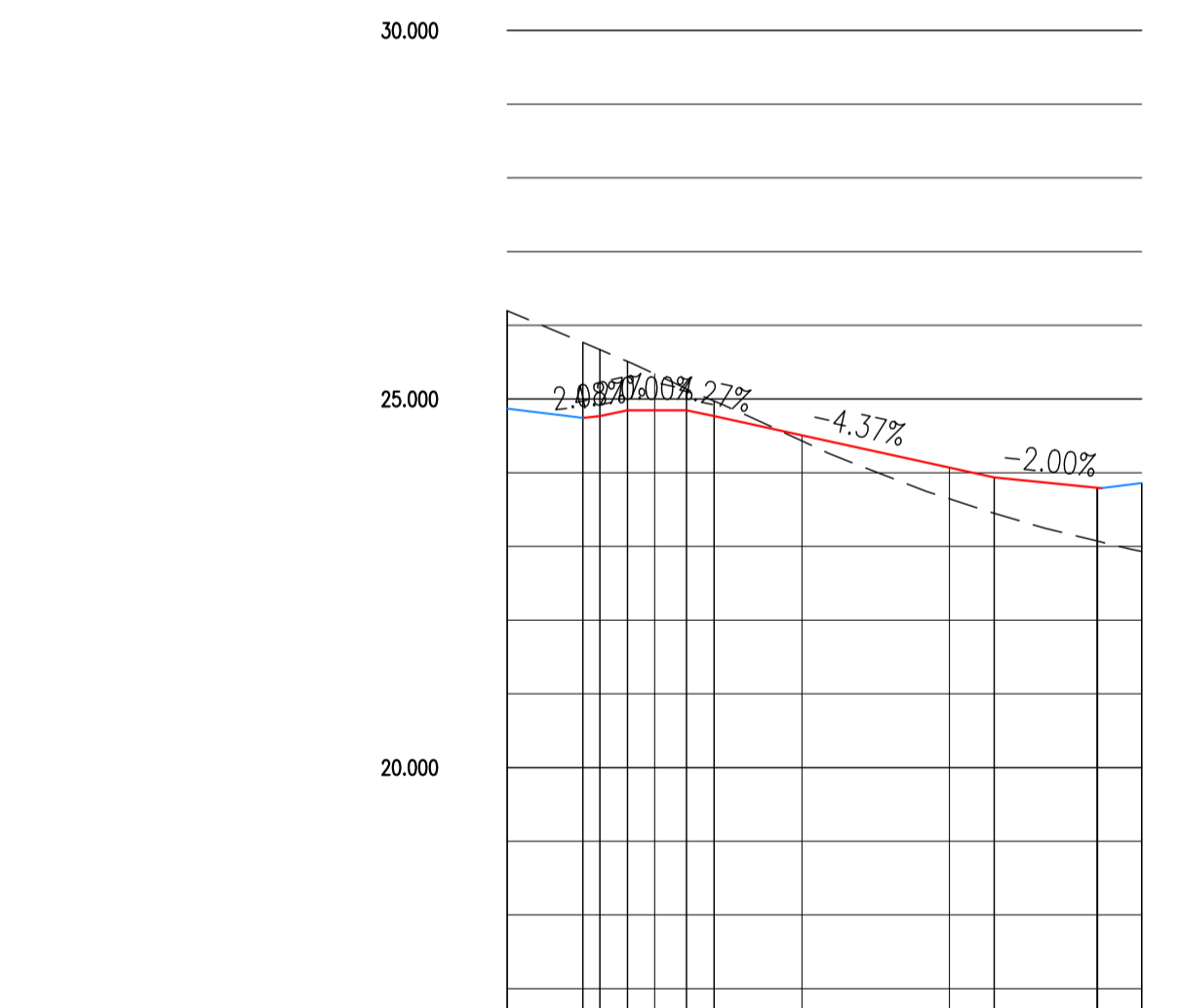
ROAD 318 LONGSECTION
 SCALE: H 1:500, V 1:100.
 DATUM: 20.000

| CHAINAGE | EXISTING GROUND LEVELS | PROPOSED LEVELS | VERTICAL GEOMETRY | HORIZONTAL GEOMETRY |
|----------|------------------------|-----------------|-----------------------|-------------------------|
| 00.000 | 26.583 | 27.190 | G = 0.660% 1:151 | R: 9.000 L: 4.318 |
| 10.000 | 27.113 | 27.243 | G = 0.533% 1:188 | |
| 20.000 | 27.267 | 27.297 | G = -3.250% -1:31 | L = 70.663 |
| 30.000 | 27.327 | 27.350 | G = -3.300% -1:30 | |
| 40.000 | 27.318 | 26.700 | G = 0.700% 1:143 | R: 146.749 L: 18.951 |
| 50.000 | 27.177 | 26.370 | G = -0.700% -1:143 | R: 9.000 L: 15.302 |
| 60.000 | 26.918 | 26.040 | G = 0.700% 1:143 | |
| 70.000 | 26.499 | 25.710 | G = -1.000% -1:100 | |
| 80.000 | 25.991 | 25.380 | G = 0.700% 1:143 | |
| 90.000 | 25.572 | 25.450 | G = -1.000% -1:100 | |
| 100.000 | 25.400 | 25.350 | G = 0.700% 1:143 | L = 81.398 |
| 110.000 | 24.995 | 25.420 | G = 1.060% 1:94 | |
| 120.000 | 24.647 | 25.480 | G = -3.330% -1:30 | |
| 130.000 | 24.987 | 25.596 | G = -2.835% -1:35 | |
| 140.000 | 24.627 | 25.483 | G = 4.270% 1:23 | |
| 150.000 | 24.741 | 25.150 | G = 4.270% 1:23 | |
| 160.000 | 24.688 | 24.817 | G = 4.270% 1:23 | |
| 170.000 | 24.664 | 24.533 | G = 4.270% 1:23 | |
| 180.000 | 24.561 | 24.250 | G = 4.270% 1:23 | |
| 190.000 | 24.480 | 24.130 | G = 4.270% 1:23 | |
| 200.000 | 24.376 | 24.130 | G = 4.270% 1:23 | |
| 210.000 | 24.222 | 24.130 | G = 4.270% 1:23 | |
| 220.000 | 24.094 | 24.130 | G = 4.270% 1:23 | |
| 230.000 | 23.921 | 24.130 | G = 4.270% 1:23 | |
| 239.677 | 23.699 | 24.130 | G = 4.270% 1:23 | |



ROAD 320 LONGSECTION
 SCALE: H 1:500, V 1:100.
 DATUM: 20.000

| CHAINAGE | EXISTING GROUND LEVELS | PROPOSED LEVELS | VERTICAL GEOMETRY | HORIZONTAL GEOMETRY |
|----------|------------------------|-----------------|-----------------------|------------------------|
| 00.000 | 26.579 | 27.120 | G = -2.580% -1:40 | L = 2.746 |
| 10.000 | 26.709 | 27.188 | G = -1.882% -1:53 | L = 13.059 |
| 20.000 | 26.775 | 27.109 | G = -0.793% -1:126 | R: 26.000 L: 12.862 |
| 30.000 | 26.813 | 27.029 | G = 0.800% 1:125 | |
| 40.000 | 26.840 | 26.950 | G = 0.900% 1:111 | |
| 50.000 | 26.859 | 27.030 | G = 0.800% 1:125 | |
| 60.000 | 26.923 | 27.120 | G = 0.900% 1:111 | |
| 70.000 | 26.974 | 27.200 | G = 0.800% 1:125 | L = 99.423 |
| 80.000 | 26.987 | 27.280 | G = 0.900% 1:111 | |
| 90.000 | 27.114 | 27.360 | G = 0.712% 1:140 | |
| 100.000 | 27.170 | 27.450 | G = 0.766% 1:132 | |
| 110.000 | 27.224 | 27.521 | G = -1.400% -1:71 | R: 8.750 L: 13.744 |
| 120.000 | 27.288 | 27.592 | G = -0.700% -1:143 | |
| 130.000 | 27.372 | 27.664 | G = -0.650% -1:154 | |
| 140.000 | 27.401 | 27.740 | G = 1.000% 1:100 | L = 83.012 |
| 150.000 | 27.352 | 27.600 | G = -1.229% -1:81 | |
| 160.000 | 27.294 | 27.460 | G = -2.000% -1:50 | |
| 170.000 | 27.228 | 27.390 | G = -2.000% -1:50 | |
| 180.000 | 27.122 | 27.320 | G = -2.000% -1:50 | |
| 190.000 | 27.076 | 27.255 | G = -2.000% -1:50 | |
| 200.000 | 27.156 | 27.190 | G = -2.000% -1:50 | |
| 210.000 | 27.241 | 27.290 | G = -2.000% -1:50 | |
| 220.000 | 27.063 | 27.390 | G = -2.000% -1:50 | |
| 228.135 | 26.840 | 27.290 | G = -2.000% -1:50 | |



ROAD 321 LONGSECTION
 SCALE: H 1:500, V 1:100.
 DATUM: 15.000

| CHAINAGE | EXISTING GROUND LEVELS | PROPOSED LEVELS | VERTICAL GEOMETRY | HORIZONTAL GEOMETRY |
|----------|------------------------|-----------------|----------------------|---------------------|
| 00.000 | 26.198 | 24.847 | G = 2.480% 1:41 | L = 5.130 |
| 10.000 | 25.341 | 24.507 | G = 2.267% 1:44 | L = 75.000 |
| 20.000 | 24.431 | 24.507 | G = -4.374% -1:23 | L = 19.000 |
| 30.000 | 23.645 | 24.069 | G = -2.000% -1:50 | L = 7.008 |
| 40.000 | 23.074 | 23.797 | G = -2.000% -1:50 | L = 3.000 |
| 43.038 | 22.834 | 23.797 | G = -2.000% -1:50 | |