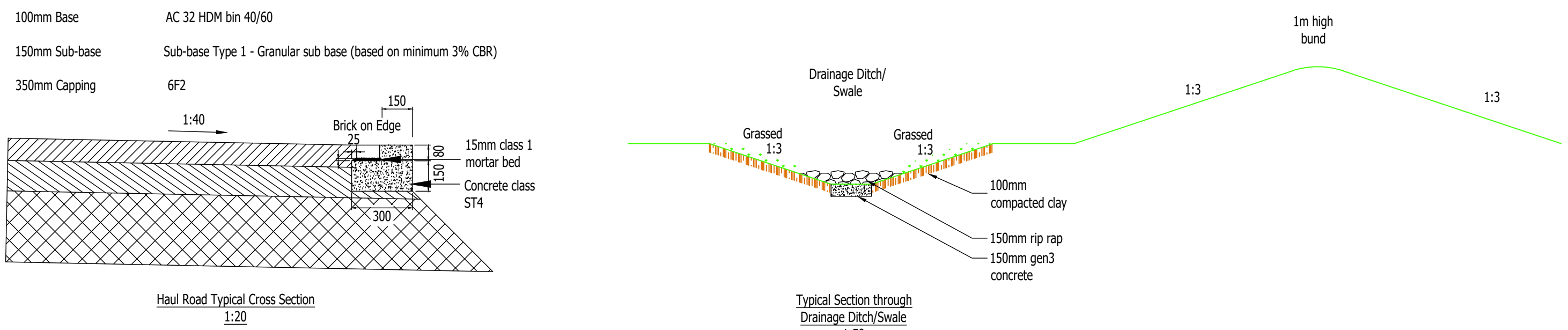
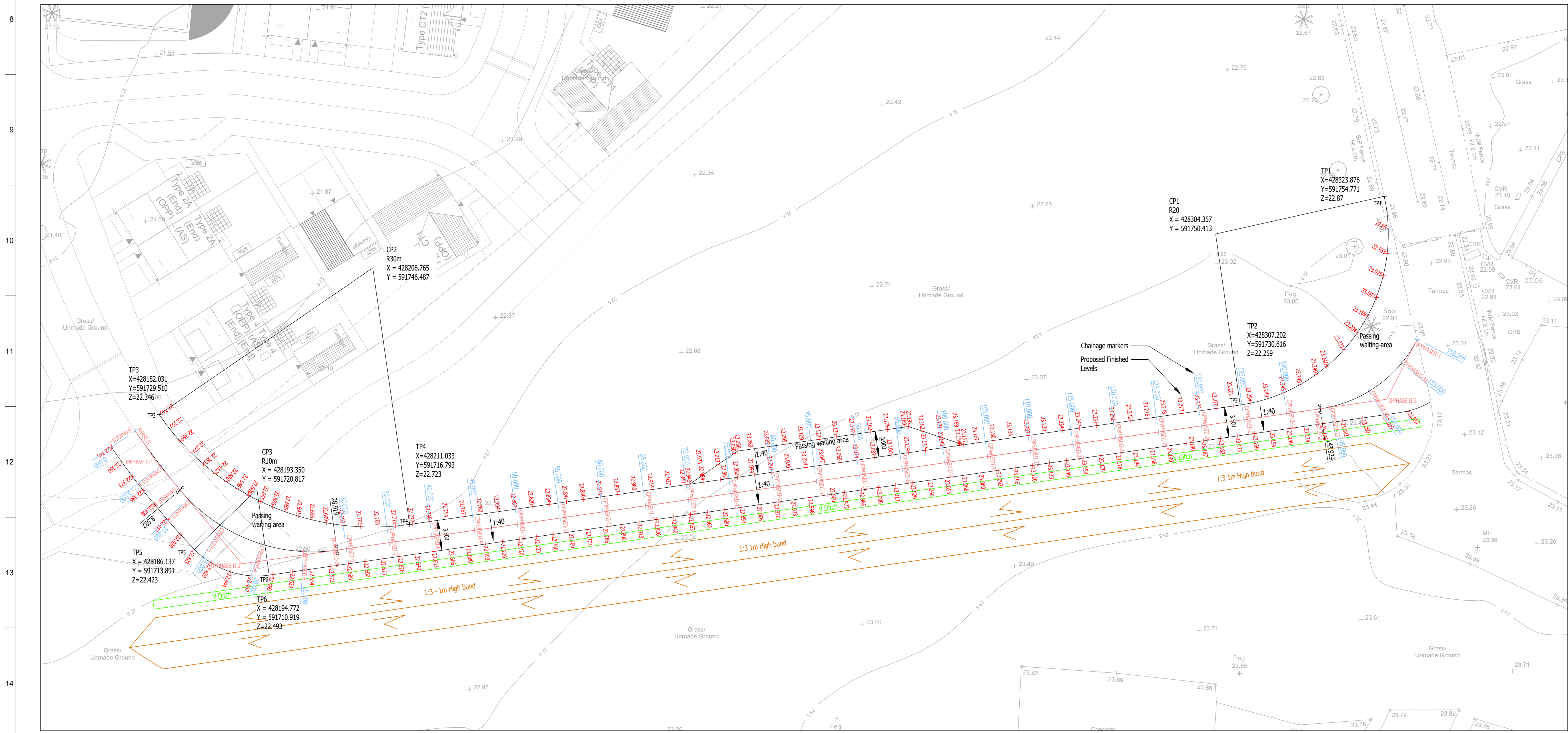
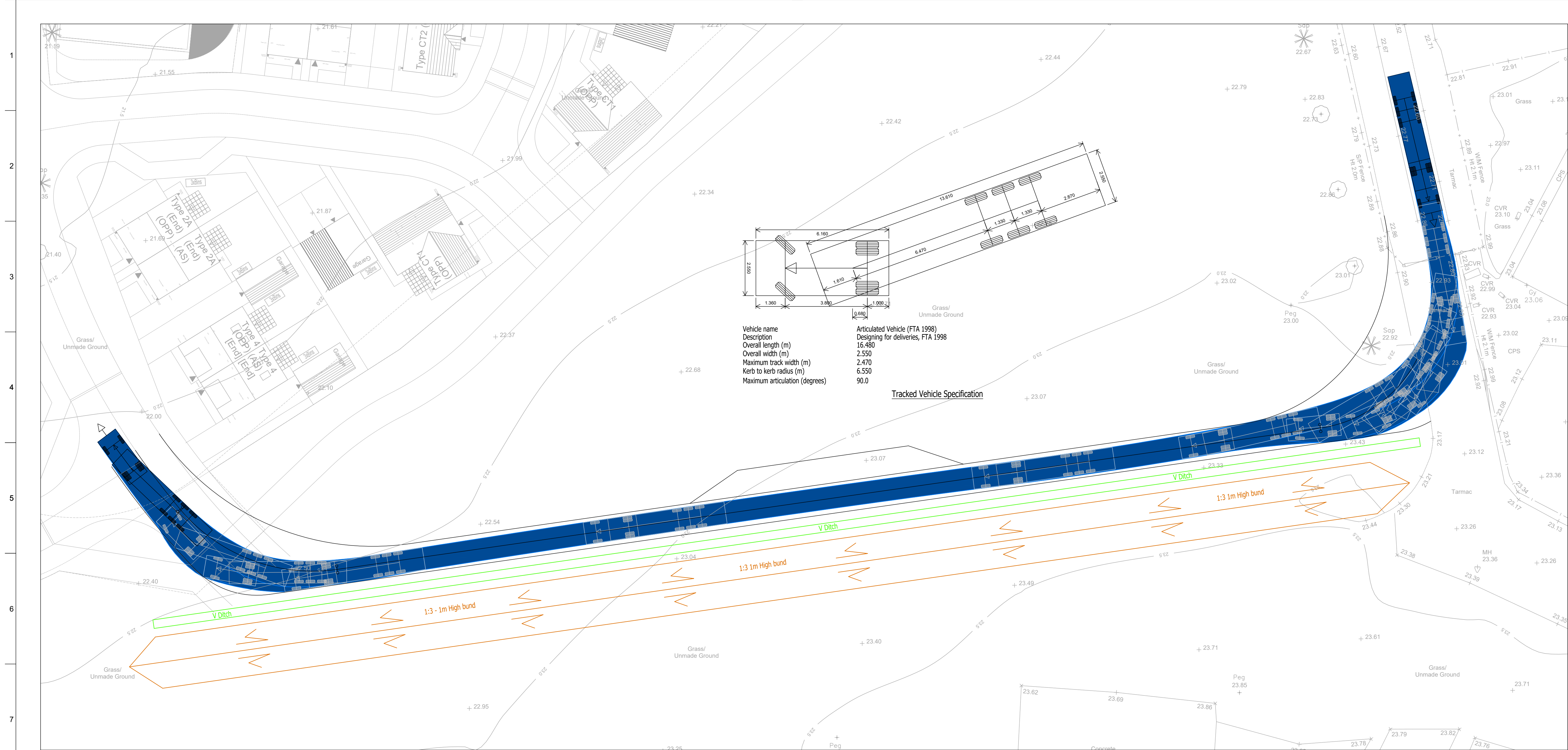
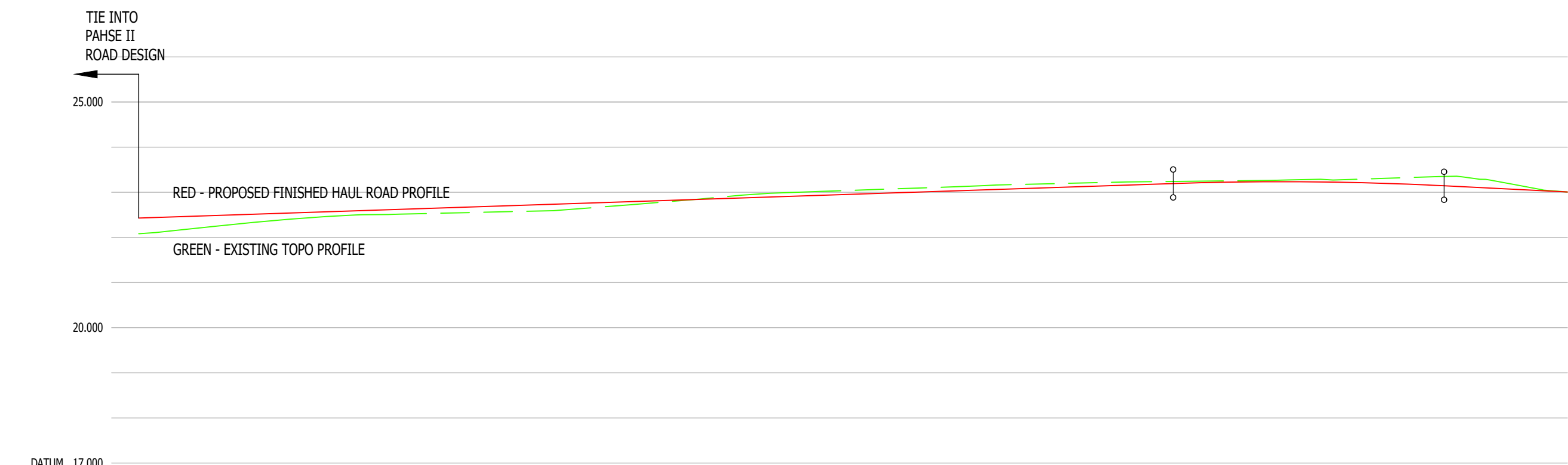




| ALIGNMENT PHASE II |          |            |            |          |          |          |            |        |
|--------------------|----------|------------|------------|----------|----------|----------|------------|--------|
| LOCATION           | CHAINAGE | EASTING    | NORTHING   | RADIUS   | BEARING  | ANGLE    | ARC LENGTH | TAIL   |
| SPPHASEII-1        | 0.000    | 428179.269 | 591727.614 | 90.000   | 145.5335 | 5.46639  | 8.587      | 4.297  |
| IPPHASEII-1        |          | 428181.701 | 591724.071 |          |          |          |            |        |
| OPPHASEII-1        | 5.000    | 428182.212 | 591723.572 |          |          |          |            |        |
| TPPHASEII-1a       | 8.587    | 428184.499 | 591723.777 |          |          |          |            |        |
| IPPHASEII-2        |          | 428191.611 | 591712.233 | 20.000   | 140.6696 | 58.24683 | 20.332     | 11.143 |
| OPPHASEII-2        | 10.000   | 428185.404 | 591719.726 |          |          |          |            |        |
| OPPHASEII-3        | 15.000   | 428189.287 | 591716.597 |          |          |          |            |        |
| OPPHASEII-4        | 20.000   | 428193.824 | 591714.527 |          |          |          |            |        |
| OPPHASEII-5        | 25.000   | 428196.732 | 591713.643 | 81.82013 | 81.82013 |          |            |        |
| TPPHASEII-2a       | 28.919   | 428202.640 | 591713.818 |          |          |          |            |        |
| OPPHASEII-6        | 30.000   | 428203.711 | 591713.972 |          |          |          |            |        |
| OPPHASEII-7        | 35.000   | 428206.667 | 591714.683 |          |          |          |            |        |
| OPPHASEII-8        | 40.000   | 428213.609 | 591715.395 | 15.000   | 81.82013 | 54.75787 | 14.336     | 7.768  |
| OPPHASEII-9        | 45.000   | 428218.558 | 591716.106 |          |          |          |            |        |
| OPPHASEII-10       | 50.000   | 428223.507 | 591716.818 |          |          |          |            |        |
| OPPHASEII-11       | 55.000   | 428228.457 | 591717.529 |          |          |          |            |        |
| OPPHASEII-12       | 60.000   | 428233.406 | 591718.240 | 15.000   | 81.82013 | 54.75787 | 14.336     | 7.768  |
| OPPHASEII-13       | 65.000   | 428238.355 | 591718.952 |          |          |          |            |        |
| OPPHASEII-14       | 70.000   | 428243.304 | 591719.663 |          |          |          |            |        |
| OPPHASEII-15       | 75.000   | 428248.253 | 591720.375 |          |          |          |            |        |
| OPPHASEII-16       | 80.000   | 428253.202 | 591721.086 | 15.000   | 81.82013 | 54.75787 | 14.336     | 7.768  |
| OPPHASEII-17       | 85.000   | 428258.151 | 591721.798 |          |          |          |            |        |
| OPPHASEII-18       | 90.000   | 428263.100 | 591722.509 |          |          |          |            |        |
| OPPHASEII-19       | 95.000   | 428268.050 | 591723.220 |          |          |          |            |        |
| OPPHASEII-20       | 100.000  | 428272.999 | 591723.932 | 15.000   | 81.82013 | 54.75787 | 14.336     | 7.768  |
| OPPHASEII-21       | 105.000  | 428277.948 | 591724.643 |          |          |          |            |        |
| OPPHASEII-22       | 110.000  | 428282.897 | 591725.355 |          |          |          |            |        |
| OPPHASEII-23       | 115.000  | 428287.846 | 591726.066 |          |          |          |            |        |
| OPPHASEII-24       | 120.000  | 428292.795 | 591726.777 | 15.000   | 81.82013 | 54.75787 | 14.336     | 7.768  |
| OPPHASEII-25       | 125.000  | 428297.744 | 591727.489 |          |          |          |            |        |
| OPPHASEII-26       | 130.000  | 428302.694 | 591728.200 |          |          |          |            |        |
| OPPHASEII-27       | 135.000  | 428307.643 | 591728.912 |          |          |          |            |        |
| OPPHASEII-28       | 140.000  | 428312.592 | 591729.623 | 15.000   | 81.82013 | 54.75787 | 14.336     | 7.768  |
| TPPHASEII-3a       | 143.929  | 428316.481 | 591730.182 |          |          |          |            |        |
| IPPHASEII-3        |          | 428324.170 | 591731.287 |          |          |          |            |        |
| OPPHASEII-29       | 145.000  | 428317.535 | 591730.372 |          |          |          |            |        |
| OPPHASEII-30       | 150.000  | 428322.155 | 591732.222 | 15.000   | 81.82013 | 54.75787 | 14.336     | 7.768  |
| OPPHASEII-31       | 155.000  | 428325.916 | 591735.482 |          |          |          |            |        |
| EPHASEII-1         | 158.264  | 428327.704 | 591738.205 |          |          |          |            |        |

Centreline Alignment Phase II - Setting Out



| HAUL RD CENTRLINE |  | CHAINAGE | EXISTING GROUND LEVEL | ALIGNMENT LEVEL | VERTICAL ALIGNMENT      | HORIZONTAL ALIGNMENT | LEFT HAND CHANNEL | RIGHT HAND CHANNEL |
|-------------------|--|----------|-----------------------|-----------------|-------------------------|----------------------|-------------------|--------------------|
|                   |  | 0.00     | 22.01                 | 22.00           | G = 0.667%<br>L = 150.0 | R = 90.000           | 22.96             | 22.96              |
|                   |  | 1.00     | 22.14                 | 22.01           |                         |                      | 22.90             | 22.90              |
|                   |  | 2.00     | 22.19                 | 22.05           | G = 0.667%<br>L = 150.0 | R = 20.000           | 22.92             | 22.92              |
|                   |  | 3.00     | 22.25                 | 22.09           |                         |                      | 22.88             | 22.88              |
|                   |  | 4.00     | 22.30                 | 22.14           | G = 0.667%<br>L = 150.0 | R = 15.000           | 22.85             | 22.85              |
|                   |  | 5.00     | 22.35                 | 22.19           |                         |                      | 22.82             | 22.82              |
|                   |  | 6.00     | 22.40                 | 22.24           | G = 0.667%<br>L = 150.0 | R = 10.000           | 22.78             | 22.78              |
|                   |  | 7.00     | 22.45                 | 22.29           |                         |                      | 22.75             | 22.75              |
|                   |  | 8.00     | 22.50                 | 22.34           | G = 0.667%<br>L = 150.0 | R = 5.000            | 22.70             | 22.70              |
|                   |  | 9.00     | 22.55                 | 22.39           |                         |                      | 22.67             | 22.67              |
|                   |  | 10.00    | 22.60                 | 22.44           | G = 0.667%<br>L = 150.0 | R = 0.000            | 22.63             | 22.63              |
|                   |  | 11.00    | 22.65                 | 22.49           |                         |                      | 22.60             | 22.60              |
|                   |  | 12.00    | 22.70                 | 22.54           | G = 0.667%<br>L = 150.0 | R = -5.000           | 22.55             | 22.55              |
|                   |  | 13.00    | 22.75                 | 22.59           |                         |                      | 22.52             | 22.52              |
|                   |  | 14.00    | 22.80                 | 22.64           | G = 0.667%<br>L = 150.0 | R = -10.000          | 22.48             | 22.48              |
|                   |  | 15.00    | 22.85                 | 22.69           |                         |                      | 22.45             | 22.45              |
|                   |  | 16.00    | 22.90                 | 22.74           | G = 0.667%<br>L = 150.0 | R = -15.000          | 22.40             | 22.40              |
|                   |  | 17.00    | 22.95                 | 22.79           |                         |                      | 22.38             | 22.38              |
|                   |  | 18.00    | 23.00                 | 22.84           | G = 0.667%<br>L = 150.0 | R = -20.000          | 22.31             | 22.31              |
|                   |  | 19.00    | 23.05                 | 22.89           |                         |                      | 22.30             | 22.30              |
|                   |  | 20.00    | 23.10                 | 22.94           | G = 0.667%<br>L = 150.0 | R = -25.000          | 22.23             | 22.23              |
|                   |  | 21.00    | 23.15                 | 22.99           |                         |                      | 22.22             | 22.22              |
|                   |  | 22.00    | 23.20                 | 23.04           | G = 0.667%<br>L = 150.0 | R = -30.000          | 22.15             | 22.15              |
|                   |  | 23.00    | 23.25                 | 23.09           |                         |                      | 22.14             | 22.14              |
|                   |  | 24.00    | 23.30                 | 23.14           | G = 0.667%<br>L = 150.0 | R = -35.000          | 22.07             | 22.07              |
|                   |  | 25.00    | 23.35                 | 23.19           |                         |                      | 22.06             | 22.06              |
|                   |  | 26.00    | 23.40                 | 23.24           | G = 0.667%<br>L = 150.0 | R = -40.000          | 21.98             | 21.98              |
|                   |  | 27.00    | 23.45                 | 23.29           |                         |                      | 21.90             | 21.90              |
|                   |  | 28.00    | 23.50                 | 23.34           | G = 0.667%<br>L = 150.0 | R = -45.000          | 21.82             | 21.82              |
|                   |  | 29.00    | 23.55                 | 23.39           |                         |                      | 21.75             | 21.75              |
|                   |  | 30.00    | 23.60                 | 23.44           | G = 0.667%<br>L = 150.0 | R = -50.000          | 21.67             | 21.67              |
|                   |  | 31.00    | 23.65                 | 23.49           |                         |                      | 21.59             | 21.59              |
|                   |  | 32.00    | 23.70                 | 23.54           | G = 0.667%<br>L = 150.0 | R = -55.000          | 21.50             | 21.50              |
|                   |  | 33.00    | 23.75                 | 23.59           |                         |                      | 21.43             | 21.43              |
|                   |  | 34.00    | 23.80                 | 23.64           | G = 0.667%<br>L = 150.0 | R = -60.000          | 21.35             | 21.35              |
|                   |  | 35.00    | 23.85                 | 23.69           |                         |                      | 21.28             | 21.28              |
|                   |  | 36.00    | 23.90                 | 23.74           | G = 0.667%<br>L = 150.0 | R = -65.000          | 21.20             | 21.20              |
|                   |  | 37.00    | 23.95                 | 23.79           |                         |                      | 21.13             | 21.13              |
|                   |  | 38.00    | 24.00                 | 23.84           | G = 0.667%<br>L = 150.0 | R = -70.000          | 21.05             | 21.05              |
|                   |  | 39.00    | 24.05                 | 23.89           |                         |                      | 21.00             | 21.00              |
|                   |  | 40.00    | 24.10                 | 23.94           | G = 0.667%<br>L = 150.0 | R = -75.000          | 20.93             | 20.93              |
|                   |  | 41.00    | 24.15                 | 23.99           |                         |                      | 20.88             | 20.88              |
|                   |  | 42.00    | 24.20                 | 24.04           | G = 0.667%<br>L = 150.0 | R = -80.000          | 20.80             | 20.80              |
|                   |  | 43.00    | 24.25                 | 24.09           |                         |                      | 20.75             | 20.75              |
|                   |  | 44.00    | 24.30                 | 24.14           | G = 0.667%<br>L = 150.0 | R = -85.000          | 20.68             | 20.68              |
|                   |  | 45.00    | 24.35                 | 24.19           |                         |                      | 20.65             | 20.65              |
|                   |  | 46.00    | 24.40                 | 24.24           | G = 0.667%<br>L = 150.0 | R = -90.000          | 20.60             | 20.60              |
|                   |  | 47.00    | 24.45                 | 24.29           |                         |                      | 20.58             | 20.58              |
|                   |  | 48.00    | 24.50                 | 24.34           | G = 0.667%<br>L = 150.0 | R = -95.000          | 20.50             | 20.50              |
|                   |  | 49.00    | 24.55                 | 24.39           |                         |                      | 20.45             | 20.45              |
|                   |  | 50.00    | 24.60                 | 24.44           | G = 0.667%<br>L = 150.0 | R = -100.000         | 20.38             | 20.38              |
|                   |  | 51.00    | 24.65                 | 24.49           |                         |                      | 20.35             | 20.35              |
|                   |  | 52.00    | 24.70                 | 24.54           | G = 0.667%<br>L = 150.0 | R = -105.000         | 20.28             | 20.28              |
|                   |  | 53.00    | 24.75                 | 24.59           |                         |                      | 20.25             | 20.25              |
|                   |  | 54.00    | 24.80                 | 24.64           | G = 0.667%<br>L = 150.0 | R = -110.000         | 20.18             | 20.18              |
|                   |  | 55.00    | 24.85                 | 24.69           |                         |                      | 20.15             | 20.15              |
|                   |  | 56.00    | 24.90                 | 24.74           | G = 0.667%<br>L = 150.0 | R = -115.000         | 20.10             | 20.10              |
|                   |  | 57.00    | 24.95                 | 24.79           |                         |                      | 20.08             | 20.08              |
|                   |  | 58.00    | 25.00                 | 24.84           | G = 0.667%<br>L = 150.0 | R = -120.000         | 20.00             | 20.00              |
|                   |  | 59.00    | 25.05                 | 24.89           |                         |                      | 20.00             | 20.00              |
|                   |  | 60.00    | 25.10                 | 24.94           | G = 0.667%<br>L = 150.0 | R = -125.000         | 19.90             | 19.90              |
|                   |  | 61.00    | 25.15                 | 24.99           |                         |                      | 19.90             | 19.90              |
|                   |  | 62.00    | 25.20                 | 25.04           | G = 0.667%<br>L = 150.0 | R = -130.000         | 19.80             | 19.80              |
|                   |  | 63.00    | 25.25                 | 25.09           |                         |                      | 19.80             | 19.80              |
|                   |  | 64.00    | 25.30                 | 25.14           | G = 0.667%<br>L = 150.0 | R = -135.000         | 19.70             | 19.70              |
|                   |  | 65.00    | 25.35                 | 25.19           |                         |                      | 19.70             | 19.70              |
|                   |  | 66.00    | 25.40                 | 25.24           | G = 0.667%<br>L = 150.0 | R = -140.000         | 19.60             | 19.60              |
|                   |  | 67.00    | 25.45                 | 25.29           |                         |                      | 19.60             | 19.60              |
|                   |  | 68.00    | 25.50                 | 25.34           | G = 0.667%<br>L = 150.0 | R = -145.000         | 19.50             | 19.50              |
|                   |  | 69.00    | 25.55                 | 25.39           |                         |                      | 19.50             | 19.50              |
|                   |  | 70.00    | 25.60                 | 25.44           | G = 0.667%<br>L = 150.0 | R = -150.000         | 19.40             | 19.40              |
|                   |  | 71.00    | 25.65                 | 25.49           |                         |                      | 19.40             | 19.40              |
|                   |  | 72.00    | 25.70                 | 25.54           | G = 0.667%<br>L = 150.0 | R = -155.000         | 19.30             | 19.30              |
|                   |  | 73.00    | 25.75                 | 25.59           |                         |                      | 19.30             | 19.30              |
|                   |  | 74.00    | 25.80                 | 25.64           | G = 0.667%<br>L = 150.0 | R = -160.000         | 19.20             | 19.20              |
|                   |  | 75.00    | 25.85                 | 25.69           |                         |                      | 19.20             | 19.20              |
|                   |  | 76.00    | 25.90                 | 25.74           | G = 0.667%<br>L = 150.0 | R = -165.000         | 19.10             | 19.10              |
|                   |  | 77.00    | 25.95                 | 25.79           |                         |                      | 19.10             | 19.10              |
|                   |  | 78.00    | 26.00                 | 25.84           | G = 0.667%<br>L = 150.0 | R = -170.000         | 19.00             | 19.00              |
|                   |  | 79.00    | 26.05                 | 25.89           |                         |                      | 19.00             | 19.00              |
|                   |  | 80.00    | 26.10                 | 25.94           | G = 0.667%<br>L = 150.0 | R = -175.000         | 18.90             | 18.90              |
|                   |  | 81.00    | 26.15                 | 25.99           |                         |                      | 18.90             | 18.90              |
|                   |  | 82.00    | 26.20                 | 26.04           | G = 0.667%<br>L = 150.0 | R = -180.000         | 18.80             | 18.80              |
|                   |  | 83.00    | 26.25                 | 26.09           |                         |                      | 18.80             | 18.80              |
|                   |  | 84.00    | 26.30                 | 26.14           | G = 0.667%<br>L = 150.0 | R = -185.000         | 18.70             | 18.70              |
|                   |  | 85.00    | 26.35                 | 26.19           |                         |                      | 18.70             | 18.70              |
|                   |  | 86.00    | 26.40                 | 26.24           | G = 0.667%<br>L = 150.0 | R = -190.000         | 18.60             | 18.60              |
|                   |  | 87.00    | 26.45                 | 26.29           |                         |                      | 18.60             | 18.60              |
|                   |  | 88.00    | 26.50                 | 26.34           | G = 0.667%<br>L = 150.0 | R = -195.000         | 18.50             | 18.50              |
|                   |  | 89.00    | 26.55                 | 26.39           |                         |                      | 18.50             | 18.50              |
|                   |  | 90.00    | 26.60                 | 26.44           | G = 0.667%<br>L = 150.0 | R = -200.000         | 18.40             | 18.40              |
|                   |  | 91.00    | 26.65                 | 26.49           |                         |                      | 18.40             | 18.40              |
|                   |  | 92.00    | 26.70                 | 26.54           | G = 0.667%<br>L = 150.0 | R = -205.000         | 18.30             | 18.30              |
|                   |  | 93.00    | 26.75                 | 26.59           |                         |                      | 18.30             | 18.30              |
|                   |  | 94.00    | 26.80                 | 26.64           | G = 0.667%<br>L = 150.0 | R = -210.000         | 18.20             | 18.20              |
|                   |  | 95.00    | 26.85                 | 26.69           |                         |                      | 18.20             | 18.20              |
|                   |  | 96.00    | 26.90                 | 26.74           | G = 0.667%<br>L = 150.0 | R = -215.000         | 18.10             | 18.10              |
|                   |  | 97.00    | 26.95                 | 26.79           |                         |                      | 18.10             | 18.10              |
|                   |  | 98.00    | 27.00                 | 26.84           | G = 0.667%<br>L = 150.0 | R = -220.000         | 18.00             | 18.00              |
|                   |  | 99.00    | 27.05                 | 26.89           |                         |                      | 18.00             | 18.00              |
|                   |  | 100.00   | 27.10                 | 26.94           | G = 0.667%<br>L = 150.0 | R = -225.000         | 17.90             | 17.90              |
|                   |  | 101.00   | 27.15                 | 26.99           |                         |                      | 17.90             | 17.90              |
|                   |  | 102.00   | 27.20                 | 27.04           | G = 0.667%<br>L = 150.0 | R = -230.000         | 17.80             | 17.80              |
|                   |  | 103.00   | 27.25                 | 27.09           |                         |                      | 17.80             | 17.80              |
|                   |  | 104.00   | 27.30                 | 27.14           | G = 0.667%<br>L = 150.0 | R = -235.000         | 17.70             | 17.70              |
|                   |  | 105.00   | 27.35                 | 27.19           |                         |                      | 17.70             | 17.70              |
|                   |  | 106.00   | 27.40                 | 27.24           | G = 0.667%<br>L = 150.0 | R = -240.000         | 17.60             | 17.60              |
|                   |  | 107.00   | 27.45                 | 27.29           |                         |                      | 17.60             | 17.60              |
|                   |  | 108.00   | 27.50                 | 27.34           | G = 0.667%<br>L = 150.0 | R = -245.000         | 17.50             | 17.50              |
|                   |  | 109.00   | 27.55                 | 27.39           |                         |                      | 17.50             | 17.50              |
|                   |  | 110.00   | 27.60                 | 27.44           | G = 0.667%<br>L = 150.0 | R = -250.000         | 17.40             | 17.40              |
|                   |  | 111.00   | 27.65                 | 27.49           |                         |                      | 17.40             | 17.40              |
|                   |  | 112.00   | 27.70                 | 27.54           | G = 0.667%<br>L = 150.0 | R = -255.000         | 17.30             | 17.30              |
|                   |  | 113.00   | 27.75                 | 27.59           |                         |                      | 17.30             | 17.30              |
|                   |  | 114.00   | 27.80                 | 27.64           | G = 0.667%<br>L = 150.0 | R = -260.000         | 17.20             | 17.20              |
|                   |  | 115.00   | 27.85                 | 27.69           |                         |                      | 17.20             | 17.20              |
|                   |  | 116.00   | 27.90                 | 27.74           | G = 0.667%<br>L = 150.0 | R = -265.000         | 17.10             | 17.10              |
|                   |  | 117.00   | 27.95                 | 27.79           |                         |                      | 17.10             | 17.10              |
|                   |  | 118.00   | 28.00                 | 27.84           | G = 0.667%<br>L = 150.0 | R = -270.000         | 17.00             | 17.00              |
|                   |  | 119.00   | 28.05                 | 27.89           |                         |                      | 17.00             | 17.00              |
|                   |  | 120.00   | 28.10                 | 27.94           | G = 0.667%<br>L = 150.0 | R = -275.000         | 16.90             | 16.90              |
|                   |  | 121.00   | 28.15                 | 27.99           |                         |                      | 16.90             | 16.90              |
|                   |  | 122.00   | 28.20                 | 28.04           | G = 0.667%<br>L = 150.0 | R = -280.000         | 16.80             | 16.80              |
|                   |  | 123.00   | 28.25                 | 28.09           |                         |                      | 16.80             | 16.80              |
|                   |  | 124.00   | 28.30                 | 28.14           | G = 0.667%<br>L = 150.0 | R = -285.000         | 16.70             | 16.70              |
|                   |  | 125.00   | 28.35                 | 28.19           |                         |                      | 16.70             | 16.70              |
|                   |  | 126.00   | 28.40                 | 28.24           | G = 0.667%<br>L = 150.0 | R = -290.000         | 16.60             | 16.60              |
|                   |  | 127.00   | 28.45                 | 28.29           |                         |                      | 16.60             | 16.60              |
|                   |  | 128.00   | 28.50                 | 28.34           | G = 0.667%<br>L = 150.0 | R = -295.000         | 16.50             | 16.50              |
|                   |  | 129.00   | 28.55                 | 28.39           |                         |                      | 16.50             | 16.50              |
|                   |  | 130.00   | 28.60                 | 28.44           | G = 0.667%<br>L = 150.0 | R = -300.000         | 16.40             | 16.40              |
|                   |  | 131.00   | 28.65                 | 28.49           |                         |                      | 16.40             | 16.40              |
|                   |  | 132.00   | 28.70                 | 28.54           | G = 0.667%<br>L = 150.0 | R = -305.000         | 16.30             | 16.30              |
|                   |  | 133.00   | 28.75                 | 28.59           |                         |                      | 16.30             | 16.30              |
|                   |  | 134.00   | 28.80                 | 28.64           | G = 0.667%<br>L = 150.0 | R = -310.000         | 16.20             | 16.20              |
|                   |  | 135.00   | 28.85                 | 28.69           |                         |                      | 16.20             | 16.20              |
|                   |  | 136.00   | 28.90                 | 28.74           | G = 0.667%<br>L = 150.0 | R = -315.000         | 16.10             | 16.10              |
|                   |  | 137.00   | 28.95                 | 28.79           |                         |                      | 16.10             | 16.10              |
|                   |  | 138.00   | 29.00                 | 28.84           | G = 0.667%<br>L = 150.0 | R = -320.000         | 16.00             | 16.00              |
|                   |  | 139.00   | 29.05                 | 28.89           |                         |                      | 16.00             | 16.00              |
|                   |  | 140.00   | 29.10                 | 28.94           | G = 0.667%<br>L = 150.0 | R = -325.000         | 15.90             | 15.90              |
|                   |  | 141.00   | 29.15                 | 28.99           |                         |                      | 15.90             | 15.90              |
|                   |  | 142.00   | 29.20                 | 29.04           | G = 0.667%<br>L = 150.0 | R = -330.000         | 15.80             | 15.80              |
|                   |  | 143.00   | 29.25                 | 29.09           |                         |                      | 15.80             | 15.80              |
|                   |  | 144.00   | 29.30                 | 29.14           | G = 0.667%<br>L =       |                      |                   |                    |