

## CAPPING BEAM REINFORCING TYPE 4

| Member              | No of Mbrs | No in Each | Y or R | Dia Size | Bar Mark    | Total No | Cut Length | Mass kg | Shape Code | Dimensions to SABS 82 |      |      |      |        |
|---------------------|------------|------------|--------|----------|-------------|----------|------------|---------|------------|-----------------------|------|------|------|--------|
|                     |            |            |        |          |             |          |            |         |            | A                     | B    | C    | D    | E or R |
| <b>TYPE 4</b>       | 1          | 7          | Y      | 25       | <b>AM01</b> | 7        | 2 700,0    | 73      | 85         | 660                   | 1520 | 310  | 450  |        |
| <b>CAPPING BEAM</b> | 1          | 7          | Y      | 16       | <b>AM02</b> | 7        | 1 850,0    | 20      | 38         | 700                   | 160  | 1050 |      |        |
| <b>REINFORCING</b>  | 1          | 7          | Y      | 12       | <b>AM03</b> | 7        | 1 140,0    | 7       | 99         | <b>SEE SKETCH</b>     |      |      |      |        |
|                     | 1          | 7          | Y      | 16       | <b>AM04</b> | 7        | 2 100,0    | 23      | 37         | 715                   | 1390 |      |      |        |
|                     | 1          | 7          | Y      | 16       | <b>AM05</b> | 7        | 1 650,0    | 18      | 37         | 300                   | 1390 |      |      |        |
|                     | 1          | 7          | Y      | 12       | <b>AM06</b> | 7        | 1 250,0    | 8       | 99         | <b>SEE SKETCH</b>     |      |      |      |        |
|                     | 1          | 7          | Y      | 16       | <b>AM07</b> | 7        | 2 000,0    | 22      | 54         | 200                   | 1680 | 200  |      |        |
|                     | 1          | 7          | Y      | 12       | <b>AM08</b> | 7        | 2 500,0    | 16      | 85         | 550                   | 1480 | 305  | 300  |        |
|                     | 1          | 2          | Y      | 16       | <b>AM09</b> | 2        | 1 600,0    | 5       | 20         | 1600                  |      |      |      |        |
|                     | 1          | 18         | Y      | 16       | <b>AM10</b> | 18       | 1 500,0    | 43      | 38         | 650                   | 275  | 650  |      |        |
|                     | 1          | 18         | Y      | 12       | <b>AM11</b> | 18       | 1 500,0    | 24      | 38         | 700                   | 125  | 700  |      |        |
|                     | 1          | 48         | Y      | 25       | <b>B01</b>  | 48       | 3 140,0    | 581     | 99         | <b>SEE SKETCH</b>     |      |      |      |        |
|                     | 1          | 48         | Y      | 25       | <b>B02</b>  | 48       | 2 300,0    | 425     | 38         | 660                   | 1350 | 400  |      |        |
|                     | 1          | 28         | Y      | 25       | <b>B03</b>  | 28       | 4 000,0    | 432     | 20         | 4000                  |      |      |      |        |
|                     | 1          | 56         | Y      | 25       | <b>B04</b>  | 56       | 2 200,0    | 475     | 37         | 660                   | 1580 |      |      |        |
|                     | 1          | 4          | Y      | 40       | <b>B05</b>  | 4        | 7 050,0    | 278     | 38         | 2690                  | 1890 | 2690 |      |        |
|                     | 1          | 4          | Y      | 40       | <b>B06</b>  | 4        | 7 350,0    | 290     | 49         | 2715                  | 2715 | 1878 | 2690 | 2690   |
|                     | 1          | 4          | Y      | 40       | <b>B07</b>  | 4        | 7 500,0    | 296     | 49         | 2798                  | 2798 | 1869 | 2678 | 2678   |
|                     | 1          | 4          | Y      | 40       | <b>B08</b>  | 4        | 7 750,0    | 306     | 49         | 2935                  | 2935 | 1862 | 2674 | 2674   |
|                     | 1          | 4          | Y      | 40       | <b>B09</b>  | 4        | 8 100,0    | 320     | 49         | 3118                  | 3118 | 1855 | 2669 | 2669   |
|                     | 1          | 4          | Y      | 40       | <b>B10</b>  | 4        | 8 550,0    | 337     | 49         | 3340                  | 3340 | 1850 | 2666 | 2666   |
|                     | 1          | 7          | Y      | 25       | <b>BS01</b> | 7        | 2 050,0    | 55      | 38         | 415                   | 780  | 975  |      |        |
|                     | 1          | 7          | Y      | 25       | <b>BS02</b> | 7        | 3 250,0    | 88      | 20         | 3270                  |      |      |      |        |
|                     | 1          | 7          | Y      | 25       | <b>BS03</b> | 7        | 3 500,0    | 94      | 37         | 980                   | 2580 |      |      |        |
|                     | 1          | 20         | Y      | 25       | <b>BS04</b> | 20       | 2 200,0    | 170     | 37         | 660                   | 1580 |      |      |        |
|                     | 1          | 535        | Y      | 25       | <b>C01</b>  | 535      | 5 450,0    | 11235   | 62         | 1555                  | 1530 | 3850 |      |        |
|                     | 1          | 446        | Y      | 25       | <b>C02</b>  | 446      | 2 250,0    | 3867    | 62         | 1120                  | 1100 | 1120 |      |        |
|                     | 1          | 437        | Y      | 25       | <b>C03</b>  | 437      | 3 050,0    | 5136    | 37         | 2450                  | 650  |      |      |        |
|                     | 1          | 479        | Y      | 25       | <b>C04</b>  | 479      | 2 500,0    | 4614    | 20         | 2500                  |      |      |      |        |
|                     | 1          | 470        | Y      | 25       | <b>C05</b>  | 470      | 3 200,0    | 5796    | 37         | 650                   | 2600 |      |      |        |
|                     | 1          | 535        | Y      | 25       | <b>C06</b>  | 535      | 1 850,0    | 3814    | 37         | 350                   | 1550 |      |      |        |
|                     | 1          | 489        | Y      | 12       | <b>C07</b>  | 489      | 1 140,0    | 495     | 99         | <b>SEE SKETCH</b>     |      |      |      |        |
|                     | 1          | 464        | Y      | 12       | <b>C08</b>  | 464      | 1 815,0    | 748     | 99         | <b>SEE SKETCH</b>     |      |      |      |        |
|                     | 1          | 898        | Y      | 16       | <b>C09</b>  | 898      | 2 200,0    | 3118    | 37         | 350                   | 1850 |      |      |        |
|                     | 1          | 430        | Y      | 16       | <b>C10</b>  | 430      | 4 050,0    | 2749    | 37         | 350                   | 3700 |      |      |        |
|                     | 1          | 474        | Y      | 12       | <b>C11</b>  | 474      | 1 400,0    | 589     | 49         | 155                   | 155  | 1065 | 118  | 118    |
|                     | 1          | 441        | Y      | 12       | <b>C12</b>  | 441      | 2 550,0    | 998     | 37         | 500                   | 2050 |      |      |        |
|                     | 1          | 488        | Y      | 12       | <b>C13</b>  | 488      | 4 450,0    | 1928    | 38         | 2100                  | 280  | 2100 |      |        |
|                     | 1          | 488        | Y      | 16       | <b>C14</b>  | 488      | 2 550,0    | 1964    | 38         | 1160                  | 280  | 1160 |      |        |
|                     | 1          | 489        | Y      | 16       | <b>C15</b>  | 489      | 1 950,0    | 1505    | 38         | 900                   | 230  | 900  |      |        |
|                     | 1          | 488        | Y      | 16       | <b>C16</b>  | 488      | 4 050,0    | 3119    | 38         | 350                   | 3400 | 350  |      |        |
|                     | 1          | 982        | Y      | 16       | <b>C17</b>  | 982      | 2 200,0    | 3410    | 37         | 1850                  | 350  |      |      |        |
|                     | 1          | 525        | Y      | 16       | <b>C18</b>  | 525      | 4 450,0    | 3687    | 62         | 1590                  | 1125 | 2825 |      |        |
|                     | 1          | 525        | Y      | 25       | <b>C19</b>  | 525      | 2 850,0    | 5766    | 37         | 350                   | 2550 |      |      |        |
|                     | 1          | 535        | Y      | 25       | <b>C20</b>  | 535      | 2 450,0    | 5051    | 38         | 950                   | 1280 | 350  |      |        |
|                     | 1          | 38         | Y      | 16       | <b>C21</b>  | 38       | 1 850,0    | 111     | 38         | 850                   | 230  | 850  |      |        |
|                     | 1          | 36         | Y      | 16       | <b>C22</b>  | 36       | 1 900,0    | 108     | 38         | 850                   | 280  | 850  |      |        |
|                     | 1          | 36         | Y      | 16       | <b>C23</b>  | 36       | 1 900,0    | 108     | 38         | 850                   | 260  | 850  |      |        |
|                     | 1          | 32         | Y      | 16       | <b>C24</b>  | 32       | 2 500,0    | 126     | 37         | 850                   | 1680 |      |      |        |
|                     | 1          | 96         | Y      | 16       | <b>C25</b>  | 96       | 2 200,0    | 333     | 37         | 850                   | 1350 |      |      |        |
|                     | 1          | 32         | Y      | 16       | <b>C26</b>  | 32       | 3 350,0    | 169     | 37         | 850                   | 2500 |      |      |        |
|                     | 1          | 12         | Y      | 16       | <b>C27</b>  | 12       | 1 800,0    | 34      | 37         | 850                   | 950  |      |      |        |
|                     | 1          | 22         | Y      | 12       | <b>C28</b>  | 22       | 1 050,0    | 21      | 38         | 500                   | 100  | 500  |      |        |
|                     | 1          | 6          | Y      | 16       | <b>C29</b>  | 6        | 1 500,0    | 14      | 37         | 850                   | 680  |      |      |        |
|                     | 1          | 300        | R      | 10       | <b>C30</b>  | 300      | 450,0      | 83      | 85         | 110                   | 260  | 60   | 70   |        |
|                     | 1          | 320        | R      | 10       | <b>C31</b>  | 320      | 300,0      | 59      | 85         | 110                   | 100  | 60   | 70   |        |
|                     | 1          | 2          | Y      | 25       | <b>LA01</b> | 2        | 2 300,0    | 18      | 38         | 900                   | 605  | 900  |      |        |
|                     | 1          | 4          | Y      | 25       | <b>LA03</b> | 4        | 2 000,0    | 31      | 38         | 880                   | 380  | 880  |      |        |
|                     | 1          | 588        | Y      | 25       | <b>L01</b>  | 588      | 13 000,0   | 29455   | 20         | 13000                 |      |      |      |        |
|                     | 1          | 840        | Y      | 16       | <b>L02</b>  | 840      | 13 000,0   | 17235   | 20         | 13000                 |      |      |      |        |
|                     | 1          | 154        | Y      | 12       | <b>L03</b>  | 154      | 13 000,0   | 1777    | 20         | 13000                 |      |      |      |        |
|                     | 1          | 26         | Y      | 25       | <b>P01</b>  | 26       | 2 050,0    | 205     | 38         | 410                   | 1095 | 660  |      |        |
|                     | 1          | 26         | Y      | 12       | <b>P02</b>  | 26       | 1 200,0    | 28      | 38         | 530                   | 160  | 530  |      |        |
|                     | 1          | 26         | Y      | 12       | <b>P03</b>  | 26       | 940,0      | 22      | 99         | <b>SEE SKETCH</b>     |      |      |      |        |
|                     | 1          | 12         | Y      | 12       | <b>P04</b>  | 12       | 1 350,0    | 14      | 99         | <b>SEE SKETCH</b>     |      |      |      |        |
|                     | 1          | 12         | Y      | 12       | <b>P05</b>  | 12       | 1 200,0    | 13      | 38         | 530                   | 160  | 530  |      |        |
|                     | 1          | 52         | Y      | 16       | <b>P06</b>  | 52       | 2 050,0    | 168     | 37         | 1850                  | 200  |      |      |        |
|                     | 1          | 12         | Y      | 12       | <b>P07</b>  | 12       | 2 550,0    | 27      | 75         | 630                   | 220  | 630  | 305  | 480    |
|                     | 1          | 12         | Y      | 12       | <b>P08</b>  | 12       | 2 800,0    | 30      | 75         | 700                   | 220  | 705  | 305  | 555    |

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|--------|------------|------------|--------|----------|----------|----------|------------|---------|------------|-----------------------|------|------|-----|--------|
|        |            |            |        |          |          |          |            |         |            | A                     | B    | C    | D   | E or R |
|        | 1          | 12         | Y      | 12       | P09      | 12       | 1 190,0    | 13      | 99         | SEE SKETCH            |      |      |     |        |
|        | 1          | 14         | Y      | 16       | P10      | 14       | 2 900,0    | 64      | 85         | 170                   | 1955 | 160  | 720 |        |
|        | 1          | 14         | Y      | 12       | P11      | 14       | 2 600,0    | 32      | 85         | 550                   | 1755 | 305  | 150 |        |
|        | 1          | 14         | Y      | 12       | P12      | 14       | 1 250,0    | 16      | 99         | SEE SKETCH            |      |      |     |        |
|        | 1          | 14         | Y      | 32       | P13      | 14       | 3 450,0    | 305     | 37         | 1130                  | 2380 |      |     |        |
|        | 1          | 14         | Y      | 25       | P14      | 14       | 4 250,0    | 229     | 37         | 660                   | 3640 |      |     |        |
|        | 1          | 128        | Y      | 12       | P15      | 128      | 550,0      | 63      | 85         | 150                   | 290  | 95   | 95  |        |
|        | 1          | 14         | Y      | 20       | P16      | 14       | 3 900,0    | 135     | 37         | 880                   | 3040 |      |     |        |
|        | 1          | 14         | Y      | 20       | P17      | 14       | 4 400,0    | 152     | 38         | 2100                  | 280  | 2100 |     |        |
|        | 1          | 18         | Y      | 16       | P18      | 18       | 1 400,0    | 40      | 38         | 650                   | 135  | 650  |     |        |
|        | 1          | 18         | Y      | 16       | P19      | 18       | 3 550,0    | 101     | 38         | 1675                  | 280  | 1675 |     |        |
|        | 1          | 18         | Y      | 16       | P20      | 18       | 1 450,0    | 41      | 38         | 650                   | 195  | 650  |     |        |
|        | 1          | 18         | Y      | 16       | P21      | 18       | 3 550,0    | 101     | 38         | 1675                  | 280  | 1675 |     |        |
|        | 1          | 2          | Y      | 16       | P22      | 2        | 1 600,0    | 5       | 20         | 1600                  |      |      |     |        |
|        | 1          | 2          | Y      | 16       | P23      | 2        | 2 350,0    | 7       | 20         | 2350                  |      |      |     |        |
|        | 1          | 32         | Y      | 25       | SM01     | 32       | 1 770,0    | 218     | 99         | SEE SKETCH            |      |      |     |        |
|        | 1          | 32         | Y      | 25       | SM02     | 32       | 1 950,0    | 240     | 99         | SEE SKETCH            |      |      |     |        |
|        | 1          | 32         | Y      | 25       | SM03     | 32       | 2 400,0    | 296     | 99         | SEE SKETCH            |      |      |     |        |
|        | 1          | 32         | Y      | 25       | SM04     | 32       | 3 400,0    | 419     | 37         | 1220                  | 2225 |      |     |        |
|        | 1          | 32         | Y      | 25       | SM05     | 32       | 1 900,0    | 234     | 38         | 660                   | 695  | 660  |     |        |
|        | 1          | 36         | Y      | 25       | SM06     | 36       | 1 800,0    | 250     | 37         | 660                   | 1180 |      |     |        |
|        | 1          | 36         | Y      | 25       | SM07     | 36       | 3 400,0    | 472     | 37         | 1220                  | 2225 |      |     |        |
|        | 1          | 10         | Y      | 12       | SU01     | 10       | 1 950,0    | 17      | 62         | 1660                  | 1175 | 260  |     |        |
|        | 1          | 10         | Y      | 12       | SU02     | 10       | 4 350,0    | 39      | 38         | 1340                  | 130  | 2940 |     |        |
|        | 1          | 20         | Y      | 12       | SU03     | 20       | 2 400,0    | 43      | 38         | 1100                  | 230  | 1100 |     |        |
|        | 1          | 10         | Y      | 12       | SU04     | 10       | 5 200,0    | 46      | 38         | 2560                  | 130  | 2560 |     |        |
|        | 1          | 10         | Y      | 12       | SU05     | 10       | 2 950,0    | 26      | 38         | 1340                  | 290  | 1340 |     |        |
|        | 1          | 10         | Y      | 12       | SU06     | 10       | 1 900,0    | 17      | 38         | 840                   | 235  | 840  |     |        |
|        | 1          | 10         | Y      | 12       | SU07     | 10       | 1 950,0    | 17      | 38         | 930                   | 130  | 930  |     |        |
|        | 1          | 10         | Y      | 12       | SU08     | 10       | 1 950,0    | 17      | 38         | 890                   | 205  | 890  |     |        |
|        | 1          | 10         | Y      | 12       | SU09     | 10       | 2 200,0    | 20      | 38         | 1070                  | 100  | 1070 |     |        |
|        | 1          | 10         | Y      | 12       | SU10     | 10       | 1 800,0    | 16      | 38         | 880                   | 100  | 880  |     |        |
|        | 1          | 13         | Y      | 25       | TD01     | 13       | 2 000,0    | 100     | 38         | 660                   | 1020 | 450  |     |        |
|        | 1          | 13         | Y      | 16       | TD02     | 13       | 1 150,0    | 24      | 20         | 1160                  |      |      |     |        |
|        | 1          | 13         | Y      | 16       | TD03     | 13       | 3 900,0    | 80      | 99         | SEE SKETCH            |      |      |     |        |
|        | 1          | 14         | Y      | 25       | U01      | 14       | 3 050,0    | 165     | 37         | 1220                  | 1870 |      |     |        |
|        | 1          | 17         | Y      | 25       | U02      | 17       | 2 750,0    | 180     | 37         | 1370                  | 1430 |      |     |        |
|        | 1          | 17         | Y      | 25       | U03      | 17       | 1 350,0    | 88      | 38         | 530                   | 295  | 660  |     |        |
|        | 1          | 17         | Y      | 25       | U04      | 17       | 3 050,0    | 200     | 37         | 1220                  | 1870 |      |     |        |
|        | 1          | 20         | Y      | 25       | U05      | 20       | 2 200,0    | 170     | 37         | 660                   | 1580 |      |     |        |
|        | 1          | 10         | Y      | 25       | U06      | 10       | 4 000,0    | 154     | 20         | 4000                  |      |      |     |        |
|        | 1          | 42         | Y      | 16       | A01A     | 42       | 4 250,0    | 282     | 38         | 3300                  | 270  | 750  |     |        |
|        | 1          | 2          | Y      | 16       | A01B     | 2        | 4 450,0    | 14      | 38         | 3500                  | 270  | 750  |     |        |
|        | 1          | 2          | Y      | 16       | A01C     | 2        | 4 750,0    | 15      | 38         | 3800                  | 270  | 750  |     |        |
|        | 1          | 2          | Y      | 16       | A01D     | 2        | 5 050,0    | 16      | 38         | 4100                  | 270  | 750  |     |        |
|        | 1          | 2          | Y      | 16       | A01E     | 2        | 5 350,0    | 17      | 38         | 4400                  | 270  | 750  |     |        |
|        | 1          | 2          | Y      | 16       | A01F     | 2        | 5 650,0    | 18      | 38         | 4700                  | 270  | 750  |     |        |
|        | 1          | 2          | Y      | 16       | A01G     | 2        | 5 950,0    | 19      | 38         | 5000                  | 270  | 750  |     |        |
|        | 1          | 2          | Y      | 16       | A01H     | 2        | 6 250,0    | 20      | 38         | 5300                  | 270  | 750  |     |        |
|        | 1          | 2          | Y      | 16       | A01J     | 2        | 6 550,0    | 21      | 38         | 5600                  | 270  | 750  |     |        |
|        | 1          | 2          | Y      | 16       | A01K     | 2        | 6 850,0    | 22      | 38         | 5900                  | 270  | 750  |     |        |
|        | 1          | 2          | Y      | 16       | A01L     | 2        | 7 150,0    | 23      | 38         | 6200                  | 270  | 750  |     |        |
|        | 1          | 2          | Y      | 16       | A01M     | 2        | 7 450,0    | 24      | 38         | 6500                  | 270  | 750  |     |        |
|        | 1          | 84         | Y      | 16       | A02A     | 84       | 3 400,0    | 451     | 38         | 1600                  | 280  | 1600 |     |        |
|        | 1          | 24         | Y      | 16       | A02B     | 24       | 3 550,0    | 135     | 38         | 1600                  | 395  | 1600 |     |        |
|        | 1          | 42         | Y      | 16       | A03      | 42       | 1 650,0    | 109     | 49         | 285                   | 285  | 1035 | 200 | 200    |
|        | 1          | 84         | Y      | 16       | A04      | 84       | 1 750,0    | 232     | 37         | 1600                  | 175  |      |     |        |
|        | 1          | 21         | Y      | 16       | A05      | 21       | 2 000,0    | 66      | 99         | SEE SKETCH            |      |      |     |        |
|        | 1          | 46         | Y      | 16       | A06A     | 46       | 7 200,0    | 523     | 37         | 6950                  | 250  |      |     |        |
|        | 1          | 4          | Y      | 16       | A06B     | 4        | 4 050,0    | 26      | 37         | 3825                  | 250  |      |     |        |
|        | 1          | 4          | Y      | 16       | A06C     | 4        | 3 900,0    | 25      | 37         | 3675                  | 250  |      |     |        |
|        | 1          | 4          | Y      | 16       | A06D     | 4        | 3 750,0    | 24      | 37         | 3525                  | 250  |      |     |        |
|        | 1          | 4          | Y      | 16       | A06E     | 4        | 3 600,0    | 23      | 37         | 3375                  | 250  |      |     |        |
|        | 1          | 4          | Y      | 16       | A06F     | 4        | 3 450,0    | 22      | 37         | 3225                  | 250  |      |     |        |
|        | 1          | 4          | Y      | 16       | A06G     | 4        | 3 300,0    | 21      | 37         | 3075                  | 250  |      |     |        |
|        | 1          | 4          | Y      | 16       | A06H     | 4        | 3 150,0    | 20      | 37         | 2925                  | 250  |      |     |        |
|        | 1          | 4          | Y      | 16       | A06J     | 4        | 3 000,0    | 19      | 37         | 2775                  | 250  |      |     |        |
|        | 1          | 4          | Y      | 16       | A06K     | 4        | 2 850,0    | 18      | 37         | 2625                  | 250  |      |     |        |
|        | 1          | 4          | Y      | 16       | A06L     | 4        | 2 700,0    | 17      | 37         | 2475                  | 250  |      |     |        |
|        | 1          | 4          | Y      | 16       | A06M     | 4        | 2 550,0    | 16      | 37         | 2325                  | 250  |      |     |        |

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|--------|------------|------------|--------|----------|----------|----------|------------|---------|------------|-----------------------|-----|------|-----|--------|
|        |            |            |        |          |          |          |            |         |            | A                     | B   | C    | D   | E or R |
|        | 1          | 4          | Y      | 16       | A06N     | 4        | 2 400,0    | 15      | 37         | 2175                  | 250 |      |     |        |
|        | 1          | 42         | Y      | 16       | A07      | 42       | 4 200,0    | 278     | 38         | 3300                  | 230 | 750  |     |        |
|        | 1          | 22         | Y      | 16       | A08B     | 22       | 6 300,0    | 219     | 20         | 6340                  |     |      |     |        |
|        | 1          | 22         | Y      | 16       | A08C     | 22       | 6 000,0    | 208     | 20         | 6040                  |     |      |     |        |
|        | 1          | 22         | Y      | 16       | A08D     | 22       | 5 700,0    | 198     | 20         | 5740                  |     |      |     |        |
|        | 1          | 22         | Y      | 16       | A08E     | 22       | 5 400,0    | 188     | 20         | 5440                  |     |      |     |        |
|        | 1          | 22         | Y      | 16       | A08F     | 22       | 5 100,0    | 177     | 20         | 5140                  |     |      |     |        |
|        | 1          | 22         | Y      | 16       | A08G     | 22       | 4 800,0    | 167     | 20         | 4840                  |     |      |     |        |
|        | 1          | 22         | Y      | 16       | A08H     | 22       | 4 500,0    | 156     | 20         | 4540                  |     |      |     |        |
|        | 1          | 22         | Y      | 16       | A08J     | 22       | 4 200,0    | 146     | 20         | 4240                  |     |      |     |        |
|        | 1          | 22         | Y      | 16       | A08K     | 22       | 3 900,0    | 135     | 20         | 3940                  |     |      |     |        |
|        | 1          | 22         | Y      | 16       | A08L     | 22       | 3 600,0    | 125     | 20         | 3640                  |     |      |     |        |
|        | 1          | 22         | Y      | 16       | A08M     | 22       | 3 300,0    | 115     | 20         | 3340                  |     |      |     |        |
|        | 1          | 22         | Y      | 16       | A09B     | 22       | 6 800,0    | 236     | 55         | 750                   | 195 | 5060 | 195 | 750    |
|        | 1          | 22         | Y      | 16       | A09C     | 22       | 6 650,0    | 231     | 55         | 750                   | 195 | 4910 | 195 | 750    |
|        | 1          | 22         | Y      | 16       | A09D     | 22       | 6 500,0    | 226     | 55         | 750                   | 195 | 4760 | 195 | 750    |
|        | 1          | 22         | Y      | 16       | A09E     | 22       | 6 350,0    | 221     | 55         | 750                   | 195 | 4610 | 195 | 750    |
|        | 1          | 22         | Y      | 16       | A09F     | 22       | 6 200,0    | 215     | 55         | 750                   | 195 | 4460 | 195 | 750    |
|        | 1          | 22         | Y      | 16       | A09G     | 22       | 6 050,0    | 210     | 55         | 750                   | 195 | 4310 | 195 | 750    |
|        | 1          | 22         | Y      | 16       | A09H     | 22       | 5 900,0    | 205     | 55         | 750                   | 195 | 4160 | 195 | 750    |
|        | 1          | 22         | Y      | 16       | A09J     | 22       | 5 750,0    | 200     | 55         | 750                   | 195 | 4010 | 195 | 750    |
|        | 1          | 22         | Y      | 16       | A09K     | 22       | 5 600,0    | 195     | 55         | 750                   | 195 | 3860 | 195 | 750    |
|        | 1          | 22         | Y      | 16       | A09L     | 22       | 5 450,0    | 189     | 55         | 750                   | 195 | 3710 | 195 | 750    |
|        | 1          | 22         | Y      | 16       | A09M     | 22       | 5 300,0    | 184     | 55         | 750                   | 195 | 3560 | 195 | 750    |
|        | 1          | 22         | Y      | 16       | A10B     | 22       | 3 750,0    | 130     | 55         | 750                   | 290 | 1820 | 290 | 750    |
|        | 1          | 22         | Y      | 16       | A10C     | 22       | 3 600,0    | 125     | 55         | 750                   | 290 | 1670 | 290 | 750    |
|        | 1          | 22         | Y      | 16       | A10D     | 22       | 3 450,0    | 120     | 55         | 750                   | 290 | 1520 | 290 | 750    |
|        | 1          | 22         | Y      | 16       | A10E     | 22       | 3 300,0    | 115     | 55         | 750                   | 290 | 1370 | 290 | 750    |
|        | 1          | 22         | Y      | 16       | A10F     | 22       | 3 150,0    | 109     | 55         | 750                   | 290 | 1220 | 290 | 750    |
|        | 1          | 22         | Y      | 16       | A10G     | 22       | 3 000,0    | 104     | 55         | 750                   | 290 | 1070 | 290 | 750    |
|        | 1          | 22         | Y      | 16       | A10H     | 22       | 2 850,0    | 99      | 55         | 750                   | 290 | 920  | 290 | 750    |
|        | 1          | 22         | Y      | 16       | A10J     | 22       | 2 700,0    | 94      | 55         | 750                   | 290 | 770  | 290 | 750    |
|        | 1          | 22         | Y      | 16       | A10K     | 22       | 2 550,0    | 89      | 55         | 750                   | 290 | 620  | 290 | 750    |
|        | 1          | 22         | Y      | 16       | A10L     | 22       | 2 400,0    | 83      | 55         | 750                   | 290 | 470  | 290 | 750    |
|        | 1          | 22         | Y      | 16       | A10M     | 22       | 2 250,0    | 78      | 55         | 750                   | 290 | 320  | 290 | 750    |
|        | 1          | 46         | Y      | 16       | A11A     | 46       | 7 100,0    | 516     | 37         | 6950                  | 180 |      | 290 |        |
|        | 1          | 2          | Y      | 16       | A11B     | 2        | 4 000,0    | 13      | 37         | 3825                  | 180 |      |     |        |
|        | 1          | 2          | Y      | 16       | A11C     | 2        | 3 850,0    | 12      | 37         | 3675                  | 180 |      |     |        |
|        | 1          | 2          | Y      | 16       | A11D     | 2        | 3 700,0    | 12      | 37         | 3525                  | 180 |      |     |        |
|        | 1          | 2          | Y      | 16       | A11E     | 2        | 3 550,0    | 11      | 37         | 3375                  | 180 |      |     |        |
|        | 1          | 2          | Y      | 16       | A11F     | 2        | 3 400,0    | 11      | 37         | 3225                  | 180 |      |     |        |
|        | 1          | 2          | Y      | 16       | A11G     | 2        | 3 250,0    | 10      | 37         | 3075                  | 180 |      |     |        |
|        | 1          | 2          | Y      | 16       | A11H     | 2        | 3 100,0    | 10      | 37         | 2925                  | 180 |      |     |        |
|        | 1          | 2          | Y      | 16       | A11J     | 2        | 2 950,0    | 9       | 37         | 2775                  | 180 |      |     |        |
|        | 1          | 2          | Y      | 16       | A11K     | 2        | 2 800,0    | 9       | 37         | 2625                  | 180 |      |     |        |
|        | 1          | 2          | Y      | 16       | A11L     | 2        | 2 650,0    | 8       | 37         | 2475                  | 180 |      |     |        |
|        | 1          | 2          | Y      | 16       | A11M     | 2        | 2 500,0    | 8       | 37         | 2325                  | 180 |      |     |        |
|        | 1          | 2          | Y      | 16       | A11N     | 2        | 2 350,0    | 7       | 37         | 2175                  | 180 |      |     |        |
|        | 1          | 2          | Y      | 16       | A12A     | 2        | 4 100,0    | 13      | 37         | 3825                  | 270 |      |     |        |
|        | 1          | 2          | Y      | 16       | A12B     | 2        | 3 950,0    | 13      | 37         | 3675                  | 270 |      |     |        |
|        | 1          | 2          | Y      | 16       | A12C     | 2        | 3 800,0    | 12      | 37         | 3525                  | 270 |      |     |        |
|        | 1          | 2          | Y      | 16       | A12D     | 2        | 3 650,0    | 12      | 37         | 3375                  | 270 |      |     |        |
|        | 1          | 2          | Y      | 16       | A12E     | 2        | 3 500,0    | 11      | 37         | 3225                  | 270 |      |     |        |
|        | 1          | 2          | Y      | 16       | A12F     | 2        | 3 350,0    | 11      | 37         | 3075                  | 270 |      |     |        |
|        | 1          | 2          | Y      | 16       | A12G     | 2        | 3 200,0    | 10      | 37         | 2925                  | 270 |      |     |        |
|        | 1          | 2          | Y      | 16       | A12H     | 2        | 3 050,0    | 10      | 37         | 2775                  | 270 |      |     |        |
|        | 1          | 2          | Y      | 16       | A12J     | 2        | 2 900,0    | 9       | 37         | 2625                  | 270 |      |     |        |
|        | 1          | 2          | Y      | 16       | A12K     | 2        | 2 750,0    | 9       | 37         | 2475                  | 270 |      |     |        |
|        | 1          | 2          | Y      | 16       | A12L     | 2        | 2 600,0    | 8       | 37         | 2325                  | 270 |      |     |        |
|        | 1          | 2          | Y      | 16       | A12M     | 2        | 2 450,0    | 8       | 37         | 2175                  | 270 |      |     |        |
|        | 1          | 24         | Y      | 12       | A13      | 24       | 1 500,0    | 32      | 38         | 650                   | 250 | 650  |     |        |
|        | 1          | 24         | Y      | 12       | A14      | 24       | 4 700,0    | 100     | 49         | 980                   | 980 | 2715 | 695 | 695    |
|        | 1          | 24         | Y      | 12       | A15      | 24       | 4 300,0    | 92      | 49         | 885                   | 885 | 2525 | 625 | 625    |
|        | 1          | 12         | Y      | 12       | A16      | 12       | 550,0      | 6       | 38         | 250                   | 105 | 250  |     |        |
|        | 1          | 24         | Y      | 12       | A17      | 24       | 850,0      | 18      | 20         | 880                   |     |      |     |        |
|        | 1          | 1          | Y      | 12       | A18      | 1        | 1 350,0    | 1       | 38         | 250                   | 880 | 250  |     |        |
|        | 1          | 16         | R      | 8        | A19      | 16       | 300,0      | 2       | 85         | 75                    | 130 | 48   | 50  |        |
|        | 1          | 36         | R      | 10       | A20      | 36       | 450,0      | 10      | 85         | 100                   | 280 | 60   | 60  |        |
|        | 1          | 18         | R      | 10       | A21      | 18       | 600,0      | 7       | 85         | 100                   | 395 | 60   | 60  |        |
|        | 1          | 96         | Y      | 12       | A22      | 96       | 1 500,0    | 128     | 62         | 750                   | 530 | 750  |     |        |

| Member | No of Mbrs | No in Each | Y or R | Dia Size | Bar Mark | Total No | Cut Length | Mass kg | Shape Code | Dimensions to SABS 82 |   |   |   |        |
|--------|------------|------------|--------|----------|----------|----------|------------|---------|------------|-----------------------|---|---|---|--------|
|        |            |            |        |          |          |          |            |         |            | A                     | B | C | D | E or R |

**AM03-Y12**  
CUT LENGTH = 1140mm

**AM06-Y12**  
CUT LENGTH = 1250mm

**B01-Y16**  
CUT LENGTH = 3140mm

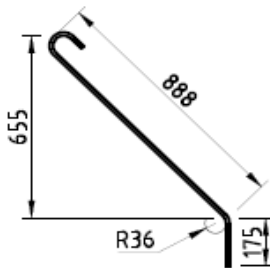
**C07-Y12**  
CUT LENGTH = 1140mm

**C08-Y12**  
CUT LENGTH = 1815mm

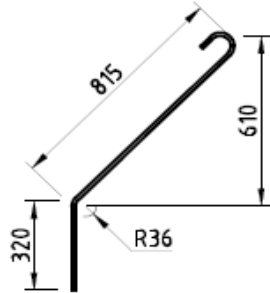
**P03-Y12**  
CUT LENGTH = 940mm

**P04-Y12**  
CUT LENGTH = 1350mm

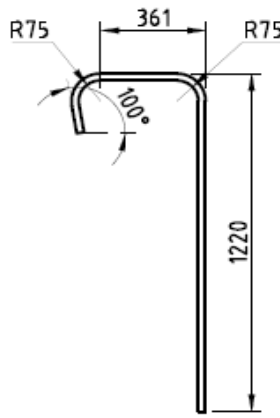
| Member | No of Mbrs | No in Each | Y or R | Dia Size | Bar Mark | Total No | Cut Length | Mass kg | Shape Code | Dimensions to SABS 82 |   |   |   |        |
|--------|------------|------------|--------|----------|----------|----------|------------|---------|------------|-----------------------|---|---|---|--------|
|        |            |            |        |          |          |          |            |         |            | A                     | B | C | D | E or R |



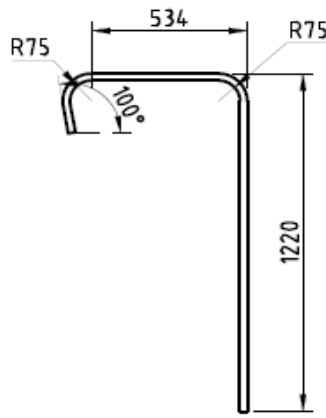
**P09-Y12**  
CUT LENGTH = 1190mm



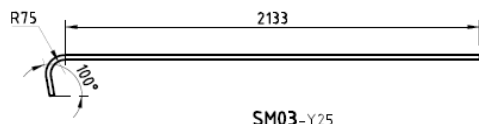
**P12-Y12**  
CUT LENGTH = 1250mm



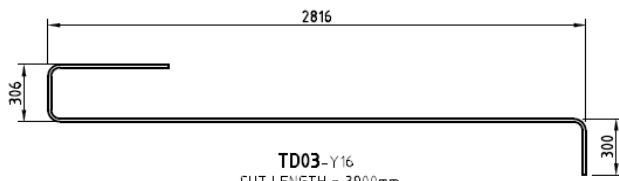
**SM01-Y25**  
CUT LENGTH = 1770mm



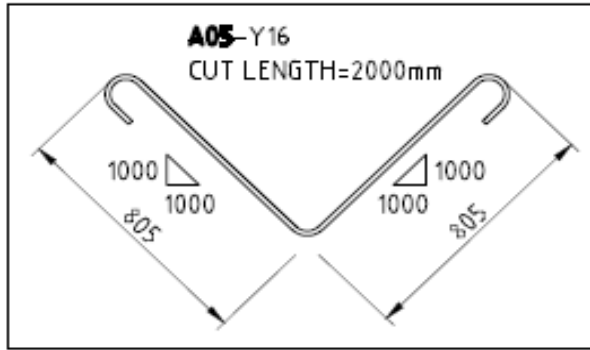
**SM02-Y25**  
CUT LENGTH = 1950mm





**SM03-Y25**  
CUT LENGTH = 2400mm



**TD03-Y16**  
CUT LENGTH = 3900mm



**A05-Y16**  
CUT LENGTH=2000mm

|   |   |  |               |                           |       |   |     |        |   |  |
|---|---|--|---------------|---------------------------|-------|---|-----|--------|---|--|
| Engineers   |  | ORIGINATOR: ZAA<br>Date: 2019.07.26<br>Compiled: AS<br>Checked: MC<br>Approved: J ZIETSMAN pr Eng<br>Signed: | MILD<br>STEEL | R8                        | 1,9   | HIGH<br>YIELD<br>STEEL                              | Y10 | 0      |  | Transnet National Ports Authority<br>Date:<br>Name:<br>Signed: |
|   |   |  |               | R10                       | 159,1 |   | Y12 | 7 502  |   |  |
|   |   |  |               | R12                       | 0     |   | Y16 | 47 132 |   |  |
|   |   |  |               | R16                       | 0     |   | Y20 | 287    |   |  |
|   |   |  |               | R20                       | 0     |   | Y25 | 80 795 |   |  |
|   |   |  |               | R32                       | 0     |   | Y32 | 305    |   |  |
|   |   |  |               |                           |       |   | Y40 | 1 827  |   |  |
| TOTAL R BARS = 161 kg                             |   |  |               | TOTAL Y BARS = 137 847 kg |       |   |     |        |   |  |
| ZAA SCHEDULE No.<br>1785-CO-090-C-SCH-0008-01 T0A |   | DCT BERTHS 203 to 205 RECONSTRUCTION<br>DEEPENING AND LENGTHENING  |               |                           |       | TNPA SCHEDULE No.<br>2122830-1-090-C-SC-1007-01 T0A |     |        |   |  |
| ZAA REFERENCE DRAWING<br>1785-CO-090-C-DWG-0008   |   | TITLE<br>REINFORCEMENT SCHEDULE<br>CAPPING BEAM TYPE 4   |               |                           |       | TNPA REFERENCE DRAWING<br>2122830-1-090-C-GA-1007   |     |        |   |  |