Supplementary Information

The following information is associated with Network Rail Standard:
**NR CIV/SD/2166-2** Rev B

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### CAD Drawing

- CIV/SD/2166-2

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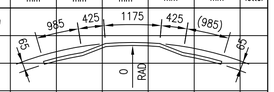
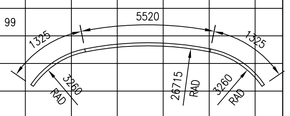
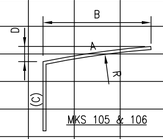
Drg No. 2166

| Bar mark | Type and size | No. of mbrs | No. of bars in each | Total no. | Length of each bar † mm | Shape code | A* mm | B* mm | C* mm | D* mm | E/R* mm | Rev letter |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | B20 | 1 | 8 | 8 | 4000 | 99 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 103 | B32 | 1 | 8 | 8 | 8175 | 99 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 105 | B32 | 1 | 8 | 8 | 6600 | 99 | 4860 | 4810 | (1730) | 625 | 26740 | |
| 106 | B25 | 1 | 8 | 8 | 6600 | 99 | 4865 | 4810 | (1730) | 625 | 26745 | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 107 | B32 | 1 | 12 | 12 | 4010 | 15 | 1265 | 690 | (2745) | | | |
| 108 | B25 | 1 | 4 | 4 | 3675 | 15 | 930 | 505 | (2745) | | | |
| 109 | B25 | 1 | 4 | 4 | 1475 | 23 | 365 | 1000 | (240) | | | |
| 110 | B20 | 1 | 12 | 12 | 1400 | 23 | 290 | 1000 | (200) | | | |
| | | | | | | | | | | | | |
| 115 | B16 | 1 | 16 | 16 | 1425 | 21 | 600 | 285 | (600) | | | |
| | | | | | | | | | | | | |
| 131a | B12 | 1 | 38 | 38 | 2750 | 51 | 940 | 335 | 160 | | | |
| 131b | B12 | 1 | 2 | 2 | 2775 | 51 | 940 | 345 | 160 | | | |
| 131c | B12 | 1 | 2 | 2 | 2800 | 51 | 940 | 355 | 160 | | | |
| 131d | B12 | 1 | 2 | 2 | 2825 | 51 | 940 | 365 | 160 | | | |
| 131e | B12 | 1 | 2 | 2 | 2850 | 51 | 940 | 385 | 160 | | | |
| 131f | B12 | 1 | 2 | 2 | 2900 | 51 | 940 | 405 | 160 | | | |
| 131g | B12 | 1 | 2 | 2 | 2950 | 51 | 940 | 435 | 160 | | | |
| 131h | B12 | 1 | 2 | 2 | 3025 | 51 | 940 | 465 | 160 | | | |
| 131j | B12 | 1 | 2 | 2 | 3100 | 51 | 940 | 505 | 160 | | | |
| | | | | | | | | | | | | |
| 132a | B16 | 1 | 38 | 38 | 1750 | 51 | 520 | 225 | 210 | | | |
| 132b | B16 | 1 | 2 | 2 | 1775 | 51 | 520 | 230 | 210 | | | |
| 132c | B16 | 1 | 2 | 2 | 1800 | 51 | 520 | 240 | 210 | | | |
| 132d | B16 | 1 | 2 | 2 | 1800 | 51 | 520 | 250 | 210 | | | |
| 132e | B16 | 1 | 2 | 2 | 1850 | 51 | 520 | 270 | 210 | | | |
| 132f | B16 | 1 | 2 | 2 | 1900 | 51 | 520 | 290 | 210 | | | |
| 132g | B16 | 1 | 2 | 2 | 1950 | 51 | 520 | 320 | 210 | | | |
| 132h | B16 | 1 | 2 | 2 | 2000 | 51 | 520 | 350 | 210 | | | |
| 132j | B16 | 1 | 2 | 2 | 2100 | 51 | 520 | 390 | 210 | | | |
| | | | | | | | | | | | | |
| 133a | B16 | 1 | 2 | 2 | 3600 | 99 | 915 | 610 | 500 | 585 | 225 | |
| 133b | B16 | 1 | 2 | 2 | 3725 | 99 | 915 | 665 | 500 | 635 | 245 | |
| 133c | B16 | 1 | 2 | 2 | 3825 | 99 | 915 | 720 | 500 | 690 | 270 | |
| 133d | B16 | 1 | 2 | 2 | 3975 | 99 | 915 | 790 | 500 | 750 | 295 | |
| 133e | B16 | 1 | 2 | 2 | 4125 | 99 | 915 | 865 | 500 | 820 | 325 | |
| 133f | B16 | 1 | 2 | 2 | 4300 | 99 | 915 | 955 | 500 | 900 | 360 | |
| 133g | B16 | 1 | 2 | 2 | 4475 | 99 | 915 | 1040 | 500 | 980 | 395 | |
| 133h | B16 | 1 | 2 | 2 | 4650 | 99 | 915 | 1130 | 500 | 1060 | 430 | |
| 133j | B16 | 1 | 2 | 2 | 4825 | 99 | 915 | 1215 | 500 | 1140 | 460 | |
| 133k | B16 | 1 | 2 | 2 | 5000 | 99 | 915 | 1300 | 500 | 1215 | 495 | |
| 133l | B16 | 1 | 2 | 2 | 5150 | 99 | 915 | 1380 | 500 | 1295 | 525 | |
| 133m | B16 | 1 | 2 | 2 | 5300 | 99 | 915 | 1460 | 500 | 1370 | 560 | |
| 133n | B16 | 1 | 2 | 2 | 5150 | 99 | 915 | 1385 | 500 | 1300 | 530 | |
| 133p | B16 | 1 | 2 | 2 | 4925 | 99 | 915 | 1270 | 500 | 1190 | 485 | |
| 133q | B16 | 1 | 2 | 2 | 4700 | 99 | 915 | 1155 | 500 | 1085 | 440 | |



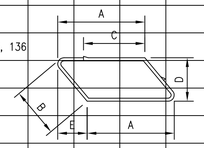




MKS 105 & 106

**This schedule conforms to BS 8666: 2005**

* Specified in multiples of 5 mm. † Specified in multiples of 25 mm.

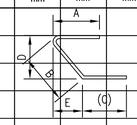
| Bar mark | Type and size | No. of mbrs | No. of bars in each | Total no. | Length of each bar † mm | Shape code | A* mm | B* mm | C* mm | D* mm | E/R* mm | Rev letter |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| 133r | B16 | 1 | 2 | 2 | 4475 | 99 | 915 | 1040 | 500 | 980 | 395 | |
| 133s | B16 | 1 | 2 | 2 | 4250 | 99 | 915 | 925 | 500 | 875 | 350 | |
| 133t | B16 | 1 | 2 | 2 | 4000 | 99 | 915 | 810 | 500 | 765 | 305 | |
| | | | | | | | | | | | | |
| | | | | | Mks. 133, 134, 135, 136 | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 134a | B16 | 1 | 2 | 2 | 2275 | 99 | 495 | 505 | 210 | 490 | 185 | |
| 134b | B16 | 1 | 2 | 2 | 2375 | 99 | 495 | 560 | 210 | 535 | 205 | |
| 134c | B16 | 1 | 2 | 2 | 2500 | 99 | 495 | 615 | 210 | 590 | 230 | |
| 134d | B16 | 1 | 2 | 2 | 2625 | 99 | 495 | 685 | 210 | 650 | 255 | |
| 134e | B16 | 1 | 2 | 2 | 2775 | 99 | 495 | 760 | 210 | 725 | 285 | |
| 134f | B16 | 1 | 2 | 2 | 2950 | 99 | 495 | 850 | 210 | 805 | 320 | |
| 134g | B16 | 1 | 2 | 2 | 3150 | 99 | 495 | 940 | 210 | 885 | 355 | |
| 134h | B16 | 1 | 2 | 2 | 3300 | 99 | 495 | 1025 | 210 | 965 | 390 | |
| 134j | B16 | 1 | 2 | 2 | 3475 | 99 | 495 | 1110 | 210 | 1045 | 420 | |
| 134k | B16 | 1 | 2 | 2 | 3650 | 99 | 495 | 1195 | 210 | 1125 | 455 | |
| 134l | B16 | 1 | 2 | 2 | 3825 | 99 | 495 | 1280 | 210 | 1200 | 485 | |
| 134m | B16 | 1 | 2 | 2 | 3775 | 99 | 495 | 1260 | 210 | 1180 | 480 | |
| 134n | B16 | 1 | 2 | 2 | 3550 | 99 | 495 | 1145 | 210 | 1075 | 435 | |
| 134p | B16 | 1 | 2 | 2 | 3325 | 99 | 495 | 1030 | 210 | 970 | 390 | |
| 134q | B16 | 1 | 2 | 2 | 3075 | 99 | 495 | 910 | 210 | 865 | 345 | |
| 134r | B16 | 1 | 2 | 2 | 2850 | 99 | 495 | 795 | 210 | 755 | 300 | |
| 134s | B16 | 1 | 2 | 2 | 2625 | 99 | 495 | 680 | 210 | 650 | 255 | |
| 134t | B16 | 1 | 2 | 2 | 2400 | 99 | 495 | 565 | 210 | 545 | 205 | |
| 135a | B16 | 1 | 2 | 2 | 3575 | 99 | 905 | 600 | 500 | 550 | 280 | |
| 135b | B16 | 1 | 4 | 4 | 3100 | 99 | 905 | 370 | 500 | 350 | 280 | |
| 136 | B16 | 1 | 6 | 6 | 1975 | 99 | 485 | 370 | 210 | 350 | 165 | |
| 137 | B16 | 1 | 19 | 19 | 1850 | 21 | 865 | 160 | (865) | | | |
| 138a | B20 | 1 | 1 | 1 | 2100 | 13 | 1010 | 180 | (1010) | | | |
| 138b | B20 | 1 | 1 | 1 | 2100 | 13 | 1010 | 180 | (1010) | | | |
| 138c | B20 | 1 | 1 | 1 | 2100 | 13 | 1010 | 180 | (1010) | | | |
| 138d | B20 | 1 | 1 | 1 | 2125 | 13 | 1010 | 195 | (1010) | | | |
| 138e | B20 | 1 | 1 | 1 | 2150 | 13 | 1010 | 220 | (1010) | | | |
| 138f | B20 | 1 | 1 | 1 | 2175 | 13 | 1010 | 245 | (1010) | | | |
| 138g | B20 | 1 | 1 | 1 | 2200 | 21 | 1010 | 275 | (1010) | | | |
| 138h | B20 | 1 | 1 | 1 | 2225 | 21 | 1010 | 310 | (1010) | | | |
| 139a | B20 | 1 | 1 | 1 | 2275 | 29 | 965 | 405 | (1010) | 415 | 130 | |
| 139b | B20 | 1 | 1 | 1 | 2325 | 29 | 965 | 460 | (1010) | 465 | 150 | |
| 139c | B20 | 1 | 1 | 1 | 2400 | 29 | 965 | 520 | (1010) | 520 | 175 | |
| 139d | B20 | 1 | 1 | 1 | 2475 | 29 | 965 | 590 | (1010) | 585 | 200 | |
| 139e | B20 | 1 | 1 | 1 | 2550 | 29 | 965 | 670 | (1010) | 655 | 230 | |
| 139f | B20 | 1 | 1 | 1 | 2625 | 29 | 965 | 755 | (1010) | 735 | 265 | |
| 139g | B20 | 1 | 1 | 1 | 2725 | 29 | 965 | 845 | (1010) | 820 | 300 | |
| 139h | B20 | 1 | 1 | 1 | 2800 | 29 | 965 | 935 | (1010) | 900 | 335 | |
| 139j | B20 | 1 | 1 | 1 | 2900 | 29 | 965 | 1020 | (1010) | 980 | 370 | |
| 139k | B20 | 1 | 1 | 1 | 2975 | 29 | 965 | 1105 | (1010) | 1055 | 405 | |
| 139l | B20 | 1 | 1 | 1 | 3050 | 29 | 965 | 1185 | (1010) | 1130 | 435 | |
| 139m | B20 | 1 | 1 | 1 | 3050 | 29 | 965 | 1165 | (1010) | 1115 | 430 | |
| 139n | B20 | 1 | 1 | 1 | 2925 | 29 | 965 | 1050 | (1010) | 1010 | 380 | |
| 139p | B20 | 1 | 1 | 1 | 2800 | 29 | 965 | 935 | (1010) | 900 | 335 | |
| 139q | B20 | 1 | 1 | 1 | 2700 | 29 | 965 | 820 | (1010) | 795 | 290 | |
| 139r | B20 | 1 | 1 | 1 | 2575 | 29 | 965 | 705 | (1010) | 690 | 245 | |
| 139s | B20 | 1 | 1 | 1 | 2475 | 29 | 965 | 590 | (1010) | 580 | 200 | |
| 139t | B20 | 1 | 1 | 1 | 2350 | 29 | 965 | 475 | (1010) | 475 | 155 | |

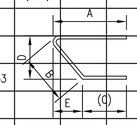


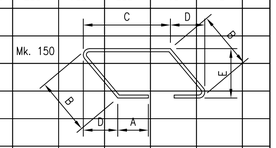

**This schedule conforms to BS 8666: 2005**

* Specified in multiples of 5 mm. † Specified in multiples of 25 mm.

| Bar mark | Type and size | No. of mbrs | No. of bars in each | Total no. | Length of each bar † mm | Shape code | A* mm | B* mm | C* mm | D* mm | E/R* mm | Rev letter |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | Mks. 139, 140 | | | | | | |
| | | | | | | | | | | | | |
| 140 | B20 | 1 | 3 | 3 | 2125 | 29 | 945 | 260 | (1010) | 280 | 95 | |
| 141 | B16 | 1 | 38 | 38 | 1850 | 21 | 865 | 160 | (865) | | | |
| 142 | B16 | 1 | 8 | 8 | 1125 | 29 | 300 | 575 | (300) | | | |
| 143 | B12 | 1 | 8 | 8 | 1350 | 21 | 400 | 575 | (400) | | | |
| 144 | B12 | 1 | 4 | 4 | 2075 | 11 | 780 | (1300) | | | | |
| | | | | | | | | | | | | |
| 146a | B12 | 1 | 4 | 4 | 2925 | 21 | 230 | 2495 | (230) | | | |
| 146b | B12 | 1 | 4 | 4 | 2550 | 21 | 230 | 2135 | (230) | | | |
| 146c | B12 | 1 | 4 | 4 | 2200 | 21 | 230 | 1775 | (230) | | | |
| 146d | B12 | 1 | 4 | 4 | 1825 | 21 | 230 | 1405 | (230) | | | |
| 146e | B12 | 1 | 4 | 4 | 1450 | 21 | 230 | 1030 | (230) | | | |
| 146f | B12 | 1 | 4 | 4 | 1075 | 21 | 230 | 650 | (230) | | | |
| | | | | | | | | | | | | |
| 147 | B16 | 1 | 12 | 12 | 3125 | 29 | 1490 | 810 | (885) | 800 | 170 | |
| | | | | | | | | | | | | |
| | | | | | | Mk. 147,151,153 | | | | | | |
| | | | | | | | | | | | | |
| 148 | B16 | 1 | 12 | 12 | 1925 | 21 | 210 | 800 | (970) | | | |
| 149 | B16 | 1 | 12 | 12 | 3225 | 21 | 1500 | 365 | (1400) | | | |
| 150 | B12 | 1 | 14 | 14 | 2800 | 99 | 250 | 795 | 805 | 410 | 715 | |
| | | | | | | | | | | | | |
| | | | | | | Mk. 150 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 151 | B12 | 1 | 16 | 16 | 3475 | 29 | 1560 | 365 | (1560) | 340 | 170 | |
| 153 | B12 | 1 | 4 | 4 | 3475 | 29 | 1560 | 365 | (1560) | 340 | 170 | |
| 154 | B16 | 1 | 12 | 12 | 3050 | 11 | 1580 | (1500) | | | | |
| 155 | B16 | 1 | 12 | 12 | 2700 | 21 | 975 | 795 | (975) | | | |




**This schedule conforms to BS 8666: 2005**

* Specified in multiples of 5 mm. † Specified in multiples of 25 mm.

DRAWING No. NR/CIV/SD/2166-2

NOTES

1. FOR GENERAL NOTES REFER TO DRAWING No. NR/CIV/SD/2001.

| Rev | Date | Description of revision | Designed | C'kd |
|---|---|---|---|---|
| B | 27.04.12 | SECOND ISSUE | SzT | SWF |
| A | 12.10.10 | FIRST ISSUE | SzT | SWF |

Network Rail

Network Rail Infrastructure Ltd. Registered Office:
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| | Name | Position | Signature | Date |
|---|---|---|---|---|
| Approved | P. Clark | Head of Engineering IP Central | PC | Apr 2013 |

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# STANDARD CONARCH OVERBRIDGE

## REINFORCEMENT DETAILS 9.4m EXTERNAL UNIT RIGHT SKEW 30°

SHEET 2

| | |
|---|---|
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| Drawing Number | NR/CIV/SD/2166-2 B |

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