

**STRUCTURAL ANALYSIS
AND DESIGNS**

For

**Proposed
Nursing Home Cum Research Facility Centre
consisting stilt plus four upper floors
in part of Sy. No. 31, at Muraharapally Village,
Yadaram Grampanchayat,
Shamirpet Revenue Mandal,
Medchal District**

belonging to

M/s. M.C.MODI EDUCATIONAL TRUST

PREAMBLE

INTRODUCTION:

The Proposed **Nursing Home Cum Research Facility Centre** in part of Sy. No. 31 situated at Muraharapally Village, Yadaram Grampanchayat, Shamirpet Revenue Mandal, Medchal District belonging to **M/s. M.C.MODI EDUCATIONAL TRUST**, consists stilt plus four upper floors

This building is designed for Stilt + Four upper floors and the stilt is planned for parking and upper floors will be used for hospital accommodation purpose.

Design Provision:

The Columns and Foundations are designed with the following Provisions.

- | | |
|---------------------|------------------|
| 1. Stilt Floor | Parking Purpose |
| 2 Upper Five Floors | Hospital Purpose |

FOUNDATION:

The foundations are designed for the safe bearing capacity of 250 KN/ sq-m as per the geo-technical report.

DEAD LOADS:

Dead Loads are considered in accordance with IS: 875 –(part-1) which include self -weight of the designed section by considering density of RCC as 25 KN/sq-m..

Floor finishes are taken as 1.0 KN/sq-m.

Wall loads are calculated by considering density of brick masonry as 19 KN/sq-m.

LIVE LOADS:

The imposed loads are considered on the slab depending on the utility of the building as mentioned in the table 1 of IS –875 (part-2). The utility of the typical floors of Blocks are for Commercial i.e., hotel purpose. Hence the Live loads are taken as follows.

Hospital Floors	5.0 KN/m ²
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K. MURALIDHAR
Licenced Civil Engineer
Licence.No.65/TP10/GHMC/2009
KOVURI CONSULTANTS
12-12-174, Seethalakshmi, Sec'bad.

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*          STAAD.Pro
*          Version  2006      Bld 1002.US
*          Proprietary Program of
*          Research Engineers, Intl.
*          Date=    MAR 11, 2019
*          Time=    15:43:15
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*          USER ID: APMHIDC
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1. STAAD SPACE HOSPITAL BUILDING FOR MODI TRUST
  INPUT FILE: MODIHO.STD
2. START JOB INFORMATION
3. ENGINEER DATE 07-MAR-19
4. END JOB INFORMATION
5. INPUT WIDTH 79
7. UNIT METER KN
8. JOINT COORDINATES
10. 6 7.6382 -2 1; 7 7.6382 -2 4.23; 8 7.6382 -2 13.71; 9 7.6382 -2 20.323
11. 10 7.6382 -2 23.199; 11 7.6382 -2 29.402; 12 7.6382 -2 32.682
12. 13 9.8682 -2 6.91; 14 9.8682 -2 13.71; 15 9.8682 -2 20.323
13. 16 11.6482 -2 29.402; 17 11.6482 -2 32.682; 18 12.0982 -2 4.23
14. 19 12.0982 -2 13.71; 20 12.0982 -2 20.323; 21 14.3282 -2 4.23
15. 22 14.3282 -2 13.71; 23 14.3282 -2 23.199; 24 14.3282 -2 29.402
16. 25 14.3282 -2 32.682; 26 20.0082 -2 4.23; 27 20.0082 -2 13.71
17. 28 20.0082 -2 23.199; 29 20.0082 -2 32.682; 30 22.253 -2 1; 31 29.453 -2 1
18. 32 29.6681 -2 4.23; 33 29.6681 -2 13.71; 34 29.6681 -2 23.199
19. 35 29.6681 -2 32.682; 136 1 0 1; 137 5.915 0 1; 138 7.6382 0 1
20. 139 7.6382 0 1.6; 140 12.0982 0 1.6; 141 14.3282 0 1.6; 142 20.0082 0 1.6
21. 143 22.253 0 1.6; 144 22.253 0 1; 145 24.538 0 1; 146 29.453 0 1
22. 147 29.453 0 4.23; 148 29.6681 0 4.23; 149 29.6681 0 8.97; 150 29.6681 0 13.71
23. 151 26.4481 0 13.71; 152 23.2281 0 13.71; 153 20.0082 0 13.71
24. 154 17.1682 0 13.71; 155 14.3282 0 13.71; 156 14.3282 0 8.97
25. 157 14.3282 0 4.23; 158 1 0 4.23; 159 1 0 8.97; 160 1 0 13.71
26. 161 4.3191 0 13.71; 162 7.6382 0 13.71; 163 9.8682 0 13.71
27. 164 12.0982 0 13.71; 165 12.0982 0 6.91; 166 12.0982 0 4.23; 167 4.3191 0 4.23
28. 168 5.915 0 4.23; 169 7.6382 0 4.23; 170 17.1682 0 4.23; 171 20.0082 0 4.23
29. 172 22.253 0 4.23; 173 23.2281 0 4.23; 174 24.538 0 4.23; 175 26.4481 0 4.23
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31. 179 11.6482 0 32.682; 180 8.9682 0 32.682; 181 7.6382 0 32.682
32. 182 4.3191 0 32.682; 183 1 0 32.682; 184 1 0 27.9405; 185 1 0 23.199
33. 186 1 0 18.4545; 187 4.3191 0 27.9405; 188 4.3191 0 23.199
34. 189 4.3191 0 18.4545; 190 4.3191 0 8.97; 191 7.6382 0 6.91; 192 7.6382 0 8.97
35. 193 7.6382 0 18.4545; 194 7.6382 0 20.323; 195 7.6382 0 23.199
36. 196 7.6382 0 26.017; 197 7.6382 0 27.9405; 198 7.6382 0 29.402
37. 199 9.8682 0 6.91; 200 9.8682 0 20.323; 201 11.6482 0 23.199
38. 202 14.3282 0 23.199; 203 17.1682 0 23.199; 204 20.0082 0 23.199
39. 205 23.2281 0 23.199; 206 26.4481 0 23.199; 207 29.6681 0 23.199
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43. 217 20.0082 0 27.9405; 218 23.2281 0 27.9405; 219 26.4481 0 27.9405
44. 220 11.6482 0 26.017; 221 14.3282 0 26.017; 222 17.1682 0 26.017
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48. 233 20.0082 0 18.4545; 234 23.2281 0 18.4545; 235 26.4481 0 18.4545
49. 236 29.6681 0 18.4545; 237 12.0982 0 8.97; 238 1 2.75 1; 239 5.915 2.75 1

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61. 275 23.2281 2.75 4.23; 276 24.538 2.75 4.23; 277 26.4481 2.75 4.23
62. 278 20.0082 2.75 32.682; 279 18.7831 2.75 32.682; 280 17.1682 2.75 32.682
63. 281 14.3282 2.75 32.682; 282 11.6482 2.75 32.682; 283 8.9682 2.75 32.682
64. 284 7.6382 2.75 32.682; 285 4.3191 2.75 32.682; 286 1 2.75 32.682
65. 287 1 2.75 27.9405; 288 1 2.75 23.199; 289 1 2.75 18.4545
66. 290 4.3191 2.75 27.9405; 291 4.3191 2.75 23.199; 292 4.3191 2.75 18.4545
67. 293 4.3191 2.75 8.97; 294 7.6382 2.75 6.91; 295 7.6382 2.75 8.97
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76. 320 20.0082 2.75 29.402; 321 20.0082 2.75 27.9405; 322 23.2281 2.75 27.9405
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114. 438 26.4481 6.35 27.9405; 439 11.6482 6.35 26.017; 440 14.3282 6.35 26.017
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116. 444 14.3282 6.35 18.4545; 445 12.0982 6.35 20.323; 446 11.6482 6.35 20.323
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123. 467 29.6681 9.95 4.23; 468 29.6681 9.95 5.66; 469 29.6681 9.95 8.97
124. 470 29.6681 9.95 13.71; 471 26.4481 9.95 13.71; 472 22.253 9.95 13.71
125. 473 20.0082 9.95 13.71; 474 17.1682 9.95 13.71; 475 14.3282 9.95 13.71
126. 476 14.3282 9.95 8.97; 477 14.3282 9.95 5.66; 478 14.3282 9.95 4.23
127. 479 1 9.95 4.23; 480 1 9.95 5.662; 481 1 9.95 8.97; 482 1 9.95 13.71
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178. 635 7.6382 13.55 23.199; 636 7.6382 13.55 26.017; 637 7.6382 13.55 27.9405
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192. 677 20.0082 13.55 18.4545; 678 23.2281 13.55 18.4545
193. 679 26.4481 13.55 18.4545; 680 29.6681 13.55 18.4545; 681 1 17.7 1
194. 682 5.915 17.7 1; 683 7.6382 17.7 1; 684 7.6382 17.7 1.6; 685 12.0982 17.7 1.6
195. 686 14.3282 17.7 1.6; 687 20.0082 17.7 1.6; 688 22.253 17.7 1.6
196. 689 22.253 17.7 1; 690 24.538 17.7 1; 691 29.453 17.7 1; 692 29.453 17.7 4.23
197. 693 29.6681 17.7 4.23; 694 29.6681 17.7 8.97; 695 29.6681 17.7 13.71
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465. 2003 746 762; 2004 762 763; 2005 763 764; 2006 764 765; 2007 765 766
466. 2008 766 767; 2009 767 768; 2010 769 770; 2011 770 771; 2012 771 758
467. 2013 733 736; 2014 736 745; 2015 744 772; 2016 772 773; 2017 773 774
468. 2018 774 775; 2019 775 769; 2020 769 768; 2021 768 723; 2022 724 767
469. 2023 726 765; 2024 729 762; 2025 727 764; 2026 764 773; 2027 773 752
470. 2028 752 776; 2029 776 777; 2030 777 700; 2031 711 778; 2032 779 751
471. 2033 751 772; 2034 772 763; 2035 763 728; 2036 742 750; 2037 750 779
472. 2038 779 778; 2039 778 776; 2040 725 766; 2041 766 774; 2042 774 753
473. 2043 753 780; 2044 780 699; 2045 699 781; 2046 781 717; 2047 701 781
474. 2048 781 782; 2049 782 783; 2050 783 784; 2051 784 694; 2052 687 718
475. 2053 718 782; 2054 782 698; 2055 698 785; 2056 785 754; 2057 754 775
476. 2058 777 780; 2059 780 785; 2060 785 786; 2061 786 787; 2062 787 788
477. 2063 757 788; 2064 788 695; 2065 760 771; 2066 771 756; 2067 756 787
478. 2068 787 696; 2069 696 784; 2070 784 722; 2071 720 783; 2072 783 697
479. 2073 697 786; 2074 786 755; 2075 755 770; 2076 770 761
480. DEFINE MATERIAL START
481. ISOTROPIC CONCRETE
482. *M40 5000*SQRT(30)*1000
483. E 2.73861E+007
484. POISSON 0.17
485. DENSITY 25
486. ALPHA 1E-005
487. DAMP 0.05
488. ISOTROPIC CONM25
489. *M30 5000*SQRT(25)*1000
490. E 2.5E+007
491. POISSON 0.17
492. DENSITY 25
493. ALPHA 1E-005
494. DAMP 0.05
495. END DEFINE MATERIAL
496. MEMBER PROPERTY INDIAN
497. 6 13 TO 18 106 113 TO 118 206 213 TO 218 306 313 TO 318 406 413 TO 418 506 -
498. 513 TO 518 PRIS YD 0.6 ZD 0.3
499. 1 3 4 7 TO 12 19 TO 25 30 101 103 104 107 TO 112 119 TO 125 130 201 203 204 -
500. 207 TO 212 219 TO 225 230 301 303 304 307 TO 312 319 TO 325 330 401 403 404 -
501. 407 TO 412 419 TO 425 430 501 503 504 507 TO 512 519 TO 525 -
502. 530 PRIS YD 0.6 ZD 0.6
503. 5 29 31 33 34 105 129 131 133 134 205 229 231 233 234 305 329 331 333 334 -
504. 405 429 431 433 434 505 529 531 533 534 PRIS YD 0.75 ZD 0.75
505. 2 26 TO 28 32 35 102 126 TO 128 132 135 202 226 TO 228 232 235 302 -
506. 326 TO 328 332 335 402 426 TO 428 432 435 502 526 TO 528 532 -
507. 535 PRIS YD 0.9 ZD 0.9
508. 1001 1002 1004 TO 1007 1010 1011 1013 TO 1039 1041 TO 1046 1048 TO 1052 1054 -
509. 1055 TO 1078 1081 TO 1097 1099 TO 1128 1130 TO 1170 PRIS YD 0.4 ZD 0.23
510. 1174 TO 1176 1193 1200 1206 1215 1216 1222 1231 1233 TO 1236 1248 1249 1252 -
511. 1253 TO 1255 1258 1271 1278 1280 1281 1288 1295 TO 1299 1305 1310 TO 1315 -
512. 1322 TO 1326 1329 1334 1335 1340 1344 TO 1346 1362 1365 1373 1387 1388 1401 -
513. 1421 TO 1423 1432 1433 1437 TO 1441 1445 1460 1469 TO 1471 1479 1486 TO 1490 -
514. 1496 1498 1501 1503 TO 1507 1515 TO 1519 1522 1527 1532 TO 1534 1550 1553 -
515. 1559 TO 1561 1567 1575 1576 1589 1606 1609 TO 1611 1620 1621 1625 TO 1629 -
516. 1633 1649 1658 TO 1660 1668 1669 1675 TO 1679 1685 1687 1690 1692 TO 1696 -
517. 1704 TO 1708 1712 1714 1721 1726 TO 1728 1745 1752 TO 1754 1760 1769 1770 -
518. 1777 1786 TO 1788 1796 1800 1804 TO 1806 1809 TO 1812 1815 1828 1836 1838 -
519. 1839 1847 1848 1854 TO 1858 1864 1866 1868 TO 1874 1881 TO 1885 1888 1893 -
520. 1894 1899 1903 TO 1905 1910 1919 1920 1922 1929 TO 1932 1937 1946 1947 1954 -
521. 1963 TO 1967 1973 1977 1981 TO 1983 1986 TO 1989 1992 1993 2005 2013 TO 2018 -

522. 2022 TO 2025 2031 TO 2035 2040 TO 2051 2058 TO 2062 2065 2066 2069 TO 2075 -
523. 2076 PRIS YD 0.425 ZD 0.23
524. 1009 1047 1080 1098 1129 1198 1199 1201 1232 1237 1247 1287 1289 1306 TO 1309 -
525. 1371 1372 1374 1379 1412 1442 1468 1472 1477 1478 1480 1497 1499 1500 1562 -
526. 1600 1657 1661 1666 1667 1686 1688 1689 1713 1720 1733 1755 1789 1790 -
527. 1816 PRIS YD 0.5 ZD 0.23
528. 1837 1845 1846 1867 1889 PRIS YD 0.5 ZD 0.23
529. 1003 1040 1053 1079 1181 1190 1191 1243 1259 1279 1282 1283 1304 1330 1333 -
530. 1336 TO 1339 1351 1361 1418 1424 TO 1428 1434 1446 1473 1495 1502 1508 1523 -
531. 1526 1528 1539 1549 1612 TO 1615 1622 1630 1634 1662 1684 1691 1697 1715 -
532. 1716 1722 1742 1743 1840 1841 1863 1865 1892 1895 TO 1898 1939 -
533. 1940 PRIS YD 0.5 ZD 0.3
534. 1008 1171 1172 1177 1179 1180 1188 1189 1192 1202 1207 1223 1224 1238 TO 1240 -
535. 1260 1261 1269 1270 1290 TO 1294 1300 1303 1316 1341 1342 1347 1349 1350 -
536. 1359 1360 1364 1375 1380 1394 1395 1402 1403 1413 TO 1415 1429 TO 1431 1447 -
537. 1448 1456 TO 1459 1481 TO 1485 1491 1494 1509 1529 1530 1535 1537 1538 1547 -
538. 1548 1552 1563 1568 1582 1583 1590 1591 1601 TO 1603 1617 TO 1619 1635 1636 -
539. 1645 TO 1648 1670 TO 1674 1680 1683 1698 1723 1724 1729 1731 1732 1740 1741 -
540. 1744 1756 1761 1778 1779 1791 TO 1793 1801 TO 1803 1817 1818 1826 1827 1849 -
541. 1850 TO 1853 1859 1862 1875 1900 1901 1906 1908 1909 1917 1918 1921 1933 1938 -
542. 1955 1956 1968 TO 1970 1978 TO 1980 1994 1995 PRIS YD 0.6 ZD 0.3
543. 2003 2004 2026 TO 2030 2036 2039 2052 PRIS YD 0.6 ZD 0.3
544. 1012 1173 1208 1209 1225 1226 1250 1251 1256 1257 1272 TO 1274 1331 1332 1343 -
545. 1363 1381 1382 1392 1393 1404 1405 1435 1436 1443 1444 1461 TO 1464 1524 -
546. 1525 1531 1551 1569 1570 1580 1581 1592 1593 1623 1624 1631 1632 -
547. 1650 TO 1653 1717 TO 1719 1725 1762 1763 1780 1781 1807 1808 1813 1814 1829 -
548. 1830 TO 1832 1890 1891 1902 1957 1958 1984 1985 1990 1991 2006 TO 2009 2067 -
549. 2068 PRIS YD 0.6 ZD 0.45
550. 1178 1194 TO 1197 1203 TO 1205 1217 1219 TO 1221 1227 TO 1230 1275 TO 1277 -
551. 1301 1302 1348 1366 TO 1370 1376 TO 1378 1389 TO 1391 1397 TO 1400 -
552. 1406 TO 1411 1465 TO 1467 1492 1493 1536 1554 TO 1558 1564 TO 1566 -
553. 1577 TO 1579 1585 TO 1588 1594 TO 1599 1616 1654 TO 1656 1681 1682 1730 1746 -
554. 1747 TO 1751 1757 TO 1759 1771 1773 TO 1776 1782 TO 1785 1833 TO 1835 1860 -
555. 1861 1907 1923 TO 1928 1934 TO 1936 1948 1950 TO 1953 1959 TO 1962 -
556. 2010 TO 2012 2037 2038 PRIS YD 0.6 ZD 0.6
557. 1182 TO 1187 1210 TO 1214 1218 1241 1242 1244 TO 1246 1262 TO 1268 -
558. 1284 TO 1286 1317 TO 1321 1327 1328 1352 TO 1358 1383 TO 1386 1396 1416 1417 -
559. 1419 1420 1449 TO 1455 1474 TO 1476 1510 TO 1514 1520 1521 1540 TO 1546 1571 -
560. 1572 TO 1574 1584 1604 1605 1607 1608 1637 TO 1644 1663 TO 1665 1699 TO 1703 -
561. 1709 TO 1711 1734 TO 1739 1764 TO 1768 1772 1794 1795 1797 TO 1799 -
562. 1819 TO 1825 1842 TO 1844 1876 TO 1880 1886 1887 1911 TO 1916 1941 TO 1945 -
563. 1949 1971 1972 1974 TO 1976 1996 TO 2002 2019 TO 2021 2053 TO 2057 2063 -
564. 2064 PRIS YD 0.9 ZD 0.6
565. CONSTANTS
566. BETA 90 MEMB 7 9 11 13 TO 20 24 107 109 111 113 TO 120 124 207 209 211 213 -
567. 214 TO 220 224 307 309 311 313 TO 320 324 407 409 411 413 TO 420 424 507 509 -
568. 511 513 TO 520 524
569. MATERIAL CONCRETE MEMB 1 TO 35 101 TO 135 201 TO 235 301 TO 335 401 TO 435 -
570. 501 TO 535
571. MATERIAL CONM25 MEMB 1001 TO 2076
572. SUPPORTS
573. 1 TO 35 FIXED
574. DEFINE 1893 LOAD
575. ZONE 0.1 RF 3 I 1.5 SS 1 ST 1 DM 0.05 DT 2
576. SELFWEIGHT
577. JOINT WEIGHT
578. *STAIRCASE HEAD ROOM
579. 681 683 689 691 693 703 716 719 WEIGHT 142
580. *LIFT MACHINE ROOM

581. 727 TO 729 762 TO 764 WEIGHT 124
 582. *TERRACE TANK
 583. 681 683 689 691 693 703 716 719 WEIGHT 243
 584. MEMBER WEIGHT
 585. 1001 TO 1003 1008 TO 1012 1023 1030 1031 1033 TO 1036 1041 TO 1044 1047 1051 -
 586. 1052 TO 1053 1066 TO 1071 1076 1098 TO 1100 1115 1116 1122 1126 1128 1129 -
 587. 1169 UNI 10.7
 588. 1171 TO 1173 1178 TO 1184 1190 1191 1193 TO 1195 1200 1201 1203 TO 1214 1217 -
 589. 1218 TO 1230 1237 TO 1247 1260 TO 1271 1282 TO 1286 1288 TO 1290 1292 TO 1295 -
 590. 1299 1303 TO 1305 1321 1327 1328 1341 TO 1343 1348 TO 1355 1359 TO 1363 1365 -
 591. 1366 TO 1369 1373 1374 1376 TO 1386 1389 TO 1417 1420 1421 1424 TO 1431 1443 -
 592. 1447 1448 1452 TO 1455 1458 TO 1460 1469 1472 TO 1476 1479 TO 1481 -
 593. 1483 TO 1486 1490 1494 TO 1496 1510 1511 1520 1521 1529 TO 1531 1536 TO 1545 -
 594. 1547 TO 1551 1553 TO 1557 1561 1562 1564 TO 1574 1577 TO 1605 1608 1609 1612 -
 595. 1613 TO 1619 1631 1635 1636 1638 TO 1644 1647 TO 1649 1658 1661 TO 1665 1668 -
 596. 1669 TO 1670 1672 TO 1675 1679 1683 TO 1685 1699 1700 1709 TO 1710 -
 597. 1711 UNI 14.61
 598. 1273 1287 1432 1437 1440 1461 TO 1463 1468 1477 1478 1502 1508 1528 1620 1625 -
 599. 1628 1650 TO 1652 1657 1666 1667 1691 1697 1712 1713 1716 1719 -
 600. 1722 UNI 7.3
 601. 1723 TO 1725 1730 TO 1736 1742 1743 1745 TO 1750 1754 1755 1757 TO 1768 1771 -
 602. 1772 TO 1785 1790 TO 1795 1797 TO 1803 1813 1814 1817 TO 1828 1840 TO 1844 -
 603. 1847 TO 1849 1851 TO 1854 1858 1862 TO 1864 1880 1886 1887 UNI 17.14
 604. 1804 1829 TO 1831 1845 1846 UNI 8.57
 605. 1174 TO 1177 1344 TO 1347 1532 TO 1535 1726 TO 1729 1900 TO 1913 1919 1920 -
 606. 1922 TO 1925 1931 1932 1938 1949 TO 1962 1999 TO 2002 2029 TO 2031 2039 2063 -
 607. 2064 UNI 4.6
 608. FLOOR WEIGHT
 609. *TYPICAL FLOORS
 610. YRANGE 2 14 FLOAD 6 XRANGE 1 30 ZRANGE 1 14
 611. YRANGE 2 14 FLOAD 6 XRANGE 1 30 ZRANGE 13 33
 612. *TERRACE FLOOR
 613. YRANGE 17 18 FLOAD 5 XRANGE 1 30 ZRANGE 1 14
 614. YRANGE 17 18 FLOAD 5 XRANGE 1 30 ZRANGE 13 33
 615. *PART OF LIVE LOAD
 616. *TYPICAL FLOORS
 617. YRANGE 2 14 FLOAD 2.5 XRANGE 1 30 ZRANGE 1 14
 618. YRANGE 2 14 FLOAD 2.5 XRANGE 1 30 ZRANGE 13 33
 619. *TERRACE FLOOR
 620. YRANGE 17 18 FLOAD 0.375 XRANGE 1 30 ZRANGE 1 14
 621. YRANGE 17 18 FLOAD 0.375 XRANGE 1 30 ZRANGE 13 33
 622. DEFINE WIND LOAD
 END OF LOADING UNDER DEFINE 1893 LOAD DEFINITION.
 623. TYPE 1
 624. INT 0 0.899 HEIG 0 10
 625. INT 0.899 1.026 HEIG 10 15
 626. INT 1.026 1.115 HEIG 15 20
 627. INT 1.115 1.232 HEIG 20 30
 628. EXP 1 YR 0 30
 629. LOAD 1 SEISMIC LOAD IN +VE X-DIR
 630. 1893 LOAD X
 631. LOAD 2 SEISMIC LOAD IN +VE Z-DIR
 632. 1893 LOAD Z
 633. LOAD 3 WIND LOAD IN +VE X-DIR
 634. WIND LOAD X 1 TYPE 1
 635. LOAD 4 WIND LOAD IN -VE X-DIR
 636. WIND LOAD X -1 TYPE 1
 637. LOAD 5 WIND LOAD IN +VE Z-DIR
 638. WIND LOAD Z 1 TYPE 1

639. LOAD 6 WIND LOAD IN -VE Z-DIR
 640. WIND LOAD Z -1 TYPE 1
 641. LOAD 7 DEAD LOAD
 642. SELFWEIGHT Y -1
 643. MEMBER LOAD
 644. 1001 TO 1003 1008 TO 1012 1023 1030 1031 1033 TO 1036 1041 TO 1044 1047 1051 -
 645. 1052 TO 1053 1066 TO 1071 1076 1098 TO 1100 1115 1116 1122 1126 1128 1129 -
 646. 1169 UNI GY -10.7
 647. 1171 TO 1173 1178 TO 1184 1190 1191 1193 TO 1195 1200 1201 1203 TO 1214 1217 -
 648. 1218 TO 1230 1237 TO 1247 1260 TO 1271 1282 TO 1286 1288 TO 1290 1292 TO 1295 -
 649. 1299 1303 TO 1305 1321 1327 1328 1341 TO 1343 1348 TO 1355 1359 TO 1363 1365 -
 650. 1366 TO 1369 1373 1374 1376 TO 1386 1389 TO 1417 1420 1421 1424 TO 1431 1443 -
 651. 1447 1448 1452 TO 1455 1458 TO 1460 1469 1472 TO 1476 1479 TO 1481 -
 652. 1483 TO 1486 1490 1494 TO 1496 1510 1511 1520 1521 1529 TO 1531 1536 TO 1545 -
 653. 1547 TO 1551 1553 TO 1557 1561 1562 1564 TO 1574 1577 TO 1605 1608 1609 1612 -
 654. 1613 TO 1619 1631 1635 1636 1638 TO 1644 1647 TO 1649 1658 1661 TO 1665 1668 -
 655. 1669 TO 1670 1672 TO 1675 1679 1683 TO 1685 1699 1700 1709 TO 1710 -
 656. 1711 UNI GY -14.61
 657. 1273 1287 1432 1437 1440 1461 TO 1463 1468 1477 1478 1502 1508 1528 1620 1625 -
 658. 1628 1650 TO 1652 1657 1666 1667 1691 1697 1712 1713 1716 1719 -
 659. 1722 UNI GY -7.3
 660. 1723 TO 1725 1730 TO 1736 1742 1743 1745 TO 1750 1754 1755 1757 TO 1768 1771 -
 661. 1772 TO 1785 1790 TO 1795 1797 TO 1803 1813 1814 1817 TO 1828 1840 TO 1844 -
 662. 1847 TO 1849 1851 TO 1854 1858 1862 TO 1864 1880 1886 1887 UNI GY -17.14
 663. 1804 1829 TO 1831 1845 1846 UNI GY -8.57
 664. 1174 TO 1177 1344 TO 1347 1532 TO 1535 1726 TO 1729 1900 TO 1913 1919 1920 -
 665. 1922 TO 1925 1931 1932 1938 1949 TO 1962 1999 TO 2002 2029 TO 2031 2039 2063 -
 666. 2064 UNI GY -4.6
 667. FLOOR LOAD
 668. *TYPICAL FLOORS
 669. YRANGE 2 14 FLOAD -6 X RANGE 1 30 ZRANGE 1 14
 670. YRANGE 2 14 FLOAD -6 X RANGE 1 30 ZRANGE 13 33
 671. *TERRACE FLOOR
 672. YRANGE 17 18 FLOAD -5 X RANGE 1 30 ZRANGE 1 14
 673. YRANGE 17 18 FLOAD -5 X RANGE 1 30 ZRANGE 13 33
 674. JOINT LOAD
 675. *STAIRCASE HEAD ROOM
 676. 681 683 689 691 693 703 716 719 FY -130
 677. *LIFT MACHINE ROOM
 678. 727 TO 729 762 TO 764 FY -101
 679. *TERRACE TANK
 680. 681 683 689 691 693 703 716 719 FY -178
 681. LOAD 8 LIVE LOAD
 682. FLOOR LOAD
 683. *TYPICAL FLOORS
 684. YRANGE 2 14 FLOAD -5 X RANGE 1 30 ZRANGE 1 14
 685. YRANGE 2 14 FLOAD -5 X RANGE 1 30 ZRANGE 13 33
 686. *TERRACE FLOOR
 687. YRANGE 17 18 FLOAD -1.5 X RANGE 1 30 ZRANGE 1 14
 688. YRANGE 17 18 FLOAD -1.5 X RANGE 1 30 ZRANGE 13 33
 689. JOINT LOAD
 690. *STAIRCASE HEAD ROOM
 691. 681 683 689 691 693 703 716 719 FY -12
 692. *LIFT MACHINE ROOM
 693. 727 TO 729 762 TO 764 FY -23
 694. *TERRACE TANK
 695. 681 683 689 691 693 703 716 719 FY -65
 696. LOAD 9 TEMPARATURE LOAD
 697. TEMPERATURE LOAD

698. 1 TO 35 101 TO 135 201 TO 235 301 TO 335 401 TO 435 501 TO 535 1001 TO 2075 -
 699. 2076 TEMP 15
 700. LOAD COMB 10 1.5 (DL+LL+TL)
 701. 7 1.5 8 1.5 9 1.5
 702. LOAD COMB 11 1.5 (DL+LL-TL)
 703. 7 1.5 8 1.5 9 -1.5
 704. LOAD COMB 12 (1.2 DL + 1.2 LL +1.2ISMIC + X + 0.36 SEISMIC +Z+1.2TL)
 705. 7 1.2 8 1.2 1 1.2 2 0.36 9 1.2
 706. LOAD COMB 13 (1.2 DL + 1.2 LL +1.2ISMIC + X + 0.36 SEISMIC +Z-1.2TL)
 707. 7 1.2 8 1.2 1 1.2 2 0.36 9 -1.2
 708. LOAD COMB 14 (1.2 DL + 1.2 LL + 1.2SMIC - X + 0.36 SEISMIC +Z +1.2TL)
 709. 7 1.2 8 1.2 1 -1.2 2 0.36 9 1.2
 710. LOAD COMB 15 (1.2 DL + 1.2 LL + 1.2SMIC - X + 0.36 SEISMIC +Z -1.2TL)
 711. 7 1.2 8 1.2 1 -1.2 2 0.36 9 -1.2
 712. LOAD COMB 16 (1.2 DL + 1.2 LL + 1.2SMIC + X + 0.36 SEISMIC - Z +1.2TL)
 713. 7 1.2 8 1.2 1 1.2 2 -0.36 9 1.2
 714. LOAD COMB 17 (1.2 DL + 1.2 LL + 1.2SMIC + X + 0.36 SEISMIC - Z -1.2TL)
 715. 7 1.2 8 1.2 1 1.2 2 -0.36 9 -1.2
 716. LOAD COMB 18 (1.2 DL + 1.2 LL + 1.2SMIC - X + 0.36 SEISMIC - Z +1.2TL)
 717. 7 1.2 8 1.2 1 -1.2 2 -0.36 9 1.2
 718. LOAD COMB 19 (1.2 DL + 1.2 LL + 1.2SMIC - X + 0.36 SEISMIC - Z -1.2TL)
 719. 7 1.2 8 1.2 1 -1.2 2 -0.36 9 -1.2
 720. LOAD COMB 20 (1.2 DL + 1.2 LL +0.36 SEISMIC + X + 1.2SMIC +Z +1.2TL)
 721. 7 1.2 8 1.2 1 0.36 2 1.2 9 1.2
 722. LOAD COMB 21 (1.2 DL + 1.2 LL +0.36 SEISMIC + X + 1.2SMIC +Z -1.2TL)
 723. 7 1.2 8 1.2 1 0.36 2 1.2 9 -1.2
 724. LOAD COMB 22 (1.2 DL + 1.2 LL +0.36 SEISMIC - X + 1.2SMIC +Z +1.2TL)
 725. 7 1.2 8 1.2 1 -0.36 2 1.2 9 1.2
 726. LOAD COMB 23 (1.2 DL + 1.2 LL +0.36 SEISMIC - X + 1.2SMIC +Z -1.2TL)
 727. 7 1.2 8 1.2 1 -0.36 2 1.2 9 -1.2
 728. LOAD COMB 24 (1.2 DL + 1.2 LL +0.36 SEISMIC + X + 1.2SMIC - Z+1.2TL)
 729. 7 1.2 8 1.2 1 0.36 2 -1.2 9 1.2
 730. LOAD COMB 25 (1.2 DL + 1.2 LL +0.36 SEISMIC + X + 1.2SMIC - Z-1.2TL)
 731. 7 1.2 8 1.2 1 0.36 2 -1.2 9 -1.2
 732. LOAD COMB 26 (1.2 DL + 1.2 LL +0.36 SEISMIC - X + 1.2SMIC - Z +1.2TL)
 733. 7 1.2 8 1.2 1 -0.36 2 -1.2 9 1.2
 734. LOAD COMB 27 (1.2 DL + 1.2 LL +0.36 SEISMIC - X + 1.2SMIC - Z -1.2TL)
 735. 7 1.2 8 1.2 1 -0.36 2 -1.2 9 -1.2
 736. *****
 737. LOAD COMB 28 1.5 DL + 1.5 SEISMIC + X + 0.45 SEISMIC + Z+1.5TL
 738. 7 1.5 1 1.5 2 0.45 9 1.5
 739. LOAD COMB 29 1.5 DL + 1.5 SEISMIC + X + 0.45 SEISMIC + Z-1.5TL
 740. 7 1.5 1 1.5 2 0.45 9 -1.5
 741. LOAD COMB 30 1.5 DL + 1.5 SEISMIC - X + 0.45 SEISMIC + Z+1.5TL
 742. 7 1.5 1 -1.5 2 0.45 9 1.5
 743. LOAD COMB 31 1.5 DL + 1.5 SEISMIC - X + 0.45 SEISMIC + Z-1.5TL
 744. 7 1.5 1 -1.5 2 0.45 9 -1.5
 745. LOAD COMB 32 1.5 DL + 1.5 SEISMIC +X + 0.45 SEISMIC - Z+1.5TL
 746. 7 1.5 1 1.5 2 -0.45 9 1.5
 747. LOAD COMB 33 1.5 DL + 1.5 SEISMIC +X + 0.45 SEISMIC - Z-1.5TL
 748. 7 1.5 1 1.5 2 -0.45 9 -1.5
 749. LOAD COMB 34 1.5 DL + 1.5 SEISMIC - X + 0.45 SEISMIC - Z+1.5TL
 750. 7 1.5 1 -1.5 2 -0.45 9 1.5
 751. LOAD COMB 35 1.5 DL + 1.5 SEISMIC - X + 0.45 SEISMIC - Z-1.5TL
 752. 7 1.5 1 -1.5 2 -0.45 9 -1.5
 753. LOAD COMB 36 1.5 DL + 1.5 SEISMIC + Z + 0.45 SEISMIC + X+1.5TL
 754. 7 1.5 2 1.5 1 0.45 9 1.5
 755. LOAD COMB 37 1.5 DL + 1.5 SEISMIC + Z + 0.45 SEISMIC + X-1.5TL
 756. 7 1.5 2 1.5 1 0.45 9 -1.5

757. LOAD COMB 38 1.5 DL + 1.5 SEISMIC - Z + 0.45 SEISMIC + X+1.5TL
758. 7 1.5 2 -1.5 1 0.45 9 1.5
759. LOAD COMB 39 1.5 DL + 1.5 SEISMIC - Z + 0.45 SEISMIC + X-1.5TL
760. 7 1.5 2 -1.5 1 0.45 9 -1.5
761. LOAD COMB 40 1.5 DL + 1.5 SEISMIC + Z + 0.45 SEISMIC - X+1.5TL
762. 7 1.5 2 1.5 1 -0.45 9 1.5
763. LOAD COMB 41 1.5 DL + 1.5 SEISMIC + Z + 0.45 SEISMIC - X-1.5TL
764. 7 1.5 2 1.5 1 -0.45 9 -1.5
765. LOAD COMB 42 1.5 DL + 1.5 SEISMIC - Z + 0.45 SEISMIC - X+1.5TL
766. 7 1.5 2 -1.5 1 -0.45 9 1.5
767. LOAD COMB 43 1.5 DL + 1.5 SEISMIC - Z + 0.45 SEISMIC - X-1.5TL
768. 7 1.5 2 -1.5 1 -0.45 9 -1.5
769. LOAD COMB 44 0.90 DL + 1.5 SEISMIC + X + 0.45 SEISMIC + Z+0.9TL
770. 7 0.9 1 1.5 2 0.45 9 0.9
771. LOAD COMB 45 0.90 DL + 1.5 SEISMIC + X + 0.45 SEISMIC + Z-0.9TL
772. 7 0.9 1 1.5 2 0.45 9 -0.9
773. LOAD COMB 46 0.90 DL + 1.5 SEISMIC - X + 0.45 SEISMIC + Z+0.9TL
774. 7 0.9 1 -1.5 2 0.45 9 0.9
775. LOAD COMB 47 0.90 DL + 1.5 SEISMIC - X + 0.45 SEISMIC + Z-0.9TL
776. 7 0.9 1 -1.5 2 0.45 9 -0.9
777. LOAD COMB 48 0.90 DL + 1.5 SEISMIC +X + 0.45 SEISMIC - Z+0.9TL
778. 7 0.9 1 1.5 2 -0.45 9 0.9
779. LOAD COMB 49 0.90 DL + 1.5 SEISMIC +X + 0.45 SEISMIC - Z-0.9TL
780. 7 0.9 1 1.5 2 -0.45 9 -0.9
781. LOAD COMB 50 0.90DL + 1.5 SEISMIC - X + 0.45 SEISMIC - Z+0.9TL
782. 7 0.9 1 -1.5 2 -0.45 9 0.9
783. LOAD COMB 51 0.90DL + 1.5 SEISMIC - X + 0.45 SEISMIC - Z-0.9TL
784. 7 0.9 1 -1.5 2 -0.45 9 -0.9
785. LOAD COMB 52 0.90DL + 1.5 SEISMIC + Z + 0.45 SEISMIC + X+0.9TL
786. 7 0.9 2 1.5 1 0.45 9 0.9
787. LOAD COMB 53 0.90DL + 1.5 SEISMIC + Z + 0.45 SEISMIC + X-0.9TL
788. 7 0.9 2 1.5 1 0.45 9 -0.9
789. LOAD COMB 54 0.90DL + 1.5 SEISMIC - Z + 0.45 SEISMIC + X+0.9TL
790. 7 0.9 2 -1.5 1 0.45 9 0.9
791. LOAD COMB 55 0.90DL + 1.5 SEISMIC - Z + 0.45 SEISMIC + X-0.9TL
792. 7 0.9 2 -1.5 1 0.45 9 -0.9
793. LOAD COMB 56 0.90DL + 1.5 SEISMIC + Z + 0.45 SEISMIC - X+0.9TL
794. 7 0.9 2 1.5 1 -0.45 9 0.9
795. LOAD COMB 57 0.90DL + 1.5 SEISMIC + Z + 0.45 SEISMIC - X-0.9TL
796. 7 0.9 2 1.5 1 -0.45 9 -0.9
797. LOAD COMB 58 0.90DL + 1.5 SEISMIC - Z + 0.45 SEISMIC - X+0.9TL
798. 7 0.9 2 -1.5 1 -0.45 9 0.9
799. LOAD COMB 59 0.90DL + 1.5 SEISMIC - Z + 0.45 SEISMIC - X-0.9TL
800. 7 0.9 2 -1.5 1 -0.45 9 -0.9
801. ***** WIND LOAD COMBINATIONS*****
802. LOAD COMB 60 1.5(DL+WL + X+TL)
803. 7 1.5 3 1.5 9 1.5
804. LOAD COMB 61 1.5(DL+WL + X-TL)
805. 7 1.5 3 1.5 9 -1.5
806. LOAD COMB 62 1.5(DL+WL - X+TL)
807. 7 1.5 4 1.5 9 1.5
808. LOAD COMB 63 1.5(DL+WL - X-TL)
809. 7 1.5 4 1.5 9 -1.5
810. LOAD COMB 64 1.5(DL+WL + Z+TL)
811. 7 1.5 5 1.5 9 1.5
812. LOAD COMB 65 1.5(DL+WL + Z-TL)
813. 7 1.5 5 1.5 9 -1.5
814. LOAD COMB 66 1.5(DL+WL - Z+TL)
815. 7 1.5 6 1.5 9 1.5

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816. LOAD COMB 67 1.5(DL+WL - Z-TL)
817. 7 1.5 6 1.5 9 -1.5
818. LOAD COMB 68 1.2(DL+LL+WL + X+TL)
819. 7 1.2 8 1.2 3 1.2 9 1.2
820. LOAD COMB 69 1.2(DL+LL+WL + X-TL)
821. 7 1.2 8 1.2 3 1.2 9 -1.2
822. LOAD COMB 70 1.2(DL+LL+WL - X+TL)
823. 7 1.2 8 1.2 4 1.2 9 1.2
824. LOAD COMB 71 1.2(DL+LL+WL - X-TL)
825. 7 1.2 8 1.2 4 1.2 9 -1.2
826. LOAD COMB 72 1.2(DL+LL+WL + Z+TL)
827. 7 1.2 8 1.2 5 1.2 9 1.2
828. LOAD COMB 73 1.2(DL+LL+WL + Z-TL)
829. 7 1.2 8 1.2 5 1.2 9 -1.2
830. LOAD COMB 74 1.2(DL+LL+WL - Z+TL)
831. 7 1.2 8 1.2 6 1.2 9 1.2
832. LOAD COMB 75 1.2(DL+LL+WL - Z-TL)
833. 7 1.2 8 1.2 6 1.2 9 -1.2
834. LOAD COMB 76 (.9 DL+ 1.5 WL + X+0.9TL)
835. 7 0.9 3 1.5 9 0.9
836. LOAD COMB 77 (.9 DL+ 1.5 WL + X-0.9TL)
837. 7 0.9 3 1.5 9 -0.9
838. LOAD COMB 78 (.9 DL+ 1.5 WL - X+0.9TL)
839. 7 0.9 4 1.5 9 0.9
840. LOAD COMB 79 (.9 DL+ 1.5 WL - X-0.9TL)
841. 7 0.9 4 1.5 9 -0.9
842. LOAD COMB 80 (.9 DL+ 1.5 WL + Z+0.9TL)
843. 7 0.9 5 1.5 9 0.9
844. LOAD COMB 81 (.9 DL+ 1.5 WL + Z-0.9TL)
845. 7 0.9 5 1.5 9 -0.9
846. LOAD COMB 82 (.9 DL+ 1.5 WL - Z+0.9TL)
847. 7 0.9 6 1.5 9 0.9
848. LOAD COMB 83 (.9 DL+ 1.5 WL - Z-0.9TL)
849. 7 0.9 6 1.5 9 -0.9
850. *****
851. ** TEMPARATURE LOAD COMBNATIONS - SERVICEABILITY
852. *****
853. * GRAVITY LOAD COMBINATIONS
854. LOAD COMB 84 (DL+LL+TL)
855. 7 1.0 8 1.0 9 1.0
856. LOAD COMB 85 (DL+LL-TL)
857. 7 1.0 8 1.0 9 -1.0
858. * SEISMIC LOAD COMBINATIONS
859. LOAD COMB 86 (DL+SEISMIC + X+TL)
860. 7 1.0 1 1.0 9 1.0
861. LOAD COMB 87 (DL+SEISMIC + X-TL)
862. 7 1.0 1 1.0 9 -1.0
863. LOAD COMB 88 (DL+SEISMIC - X+TL)
864. 7 1.0 1 -1.0 9 1.0
865. LOAD COMB 89 (DL+SEISMIC - X-TL)
866. 7 1.0 1 -1.0 9 -1.0
867. LOAD COMB 90 (DL+SEISMIC + Z+TL)
868. 7 1.0 2 1.0 9 1.0
869. LOAD COMB 91 (DL+SEISMIC + Z-TL)
870. 7 1.0 2 1.0 9 -1.0
871. LOAD COMB 92 (DL+SEISMIC - Z+TL)
872. 7 1.0 2 -1.0 9 1.0
873. LOAD COMB 93 (DL+SEISMIC - Z-TL)
874. 7 1.0 2 -1.0 9 -1.0

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875. LOAD COMB 94 (DL+ LL+SEISMIC + X +TL)
876. 7 1.0 8 1.0 1 1.0 9 1.0
877. LOAD COMB 95 (DL+ LL+SEISMIC + X -TL)
878. 7 1.0 8 1.0 1 1.0 9 -1.0
879. LOAD COMB 96 (DL+ LL+SEISMIC - X+TL)
880. 7 1.0 8 1.0 1 -1.0 9 1.0
881. LOAD COMB 97 (DL+ LL+SEISMIC - X-TL)
882. 7 1.0 8 1.0 1 -1.0 9 -1.0
883. LOAD COMB 98 (DL+ LL+SEISMIC + Z+TL)
884. 7 1.0 8 1.0 2 1.0 9 1.0
885. LOAD COMB 99 (DL+ LL+SEISMIC + Z-TL)
886. 7 1.0 8 1.0 2 1.0 9 -1.0
887. LOAD COMB 100 (DL+ LL+SEISMIC - Z+TL)
888. 7 1.0 8 1.0 2 -1.0 9 1.0
889. LOAD COMB 101 (DL+ LL+SEISMIC - Z-TL)
890. 7 1.0 8 1.0 2 -1.0 9 -1.0
891. LOAD COMB 102 (DL+ .8 LL+ .8 SEISMIC + X+TL)
892. 7 1.0 8 0.8 1 0.8 9 1.0
893. LOAD COMB 103 (DL+ .8 LL+ .8 SEISMIC + X-TL)
894. 7 1.0 8 0.8 1 0.8 9 -1.0
895. LOAD COMB 104 (DL+ .8 LL+ .8 SEISMIC - X+TL)
896. 7 1.0 8 0.8 1 -0.8 9 1.0
897. LOAD COMB 105 (DL+ .8 LL+ .8 SEISMIC - X-TL)
898. 7 1.0 8 0.8 1 -0.8 9 -1.0
899. LOAD COMB 106 (DL+ .8 LL+ .8 SEISMIC + Z+TL)
900. 7 1.0 8 0.8 2 0.8 9 1.0
901. LOAD COMB 107 (DL+ .8 LL+ .8 SEISMIC + Z-TL)
902. 7 1.0 8 0.8 2 0.8 9 -1.0
903. LOAD COMB 108 (DL+ .8 LL+ .8 SEISMIC - Z+TL)
904. 7 1.0 8 0.8 2 -0.8 9 1.0
905. LOAD COMB 109 (DL+ .8 LL+ .8 SEISMIC - Z-TL)
906. 7 1.0 8 0.8 2 -0.8 9 -1.0
907. ** WIND LOAD COMBINATIONS
908. LOAD COMB 110 (DL+WL + X+TL)
909. 7 1.0 3 1.0 9 1.0
910. LOAD COMB 111 (DL+WL + X-TL)
911. 7 1.0 3 1.0 9 -1.0
912. LOAD COMB 112 (DL+WL - X+TL)
913. 7 1.0 4 1.0 9 1.0
914. LOAD COMB 113 (DL+WL - X-TL)
915. 7 1.0 4 1.0 9 -1.0
916. LOAD COMB 114 (DL+WL + Z+TL)
917. 7 1.0 5 1.0 9 1.0
918. LOAD COMB 115 (DL+WL + Z-TL)
919. 7 1.0 5 1.0 9 -1.0
920. LOAD COMB 116 (DL+WL - Z+TL)
921. 7 1.0 6 1.0 9 1.0
922. LOAD COMB 117 (DL+WL - Z-TL)
923. 7 1.0 6 1.0 9 -1.0
924. LOAD COMB 118 (DL+ LL + WL + X+TL)
925. 7 1.0 8 1.0 3 1.0 9 1.0
926. LOAD COMB 119 (DL+ LL + WL + X-TL)
927. 7 1.0 8 1.0 3 1.0 9 -1.0
928. LOAD COMB 120 (DL+ LL + WL - X+TL)
929. 7 1.0 8 1.0 4 1.0 9 1.0
930. LOAD COMB 121 (DL+ LL + WL - X-TL)
931. 7 1.0 8 1.0 4 1.0 9 -1.0
932. LOAD COMB 122 (DL+ LL + WL + Z+TL)
933. 7 1.0 8 1.0 5 1.0 9 1.0

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934. LOAD COMB 123 (DL+ LL + WL + Z-TL)
935. 7 1.0 8 1.0 5 1.0 9 -1.0
936. LOAD COMB 124 (DL+ LL + WL - Z+TL)
937. 7 1.0 8 1.0 6 1.0 9 1.0
938. LOAD COMB 125 (DL+ LL + WL - Z-TL)
939. 7 1.0 8 1.0 6 1.0 9 -1.0
940. LOAD COMB 126 (DL+ .8 LL + .8 WL + X+TL)
941. 7 1.0 8 0.8 3 0.8 9 1.0
942. LOAD COMB 127 (DL+ .8 LL + .8 WL + X-TL)
943. 7 1.0 8 0.8 3 0.8 9 -1.0
944. LOAD COMB 128 (DL+ .8 LL + .8 WL - X+TL)
945. 7 1.0 8 0.8 4 0.8 9 1.0
946. LOAD COMB 129 (DL+ .8 LL + .8 WL - X-TL)
947. 7 1.0 8 0.8 4 0.8 9 -1.0
948. LOAD COMB 130 (DL+ .8 LL + .8 WL + Z+TL)
949. 7 1.0 8 0.8 5 0.8 9 1.0
950. LOAD COMB 131 (DL+ .8 LL + .8 WL + Z-TL)
951. 7 1.0 8 0.8 5 0.8 9 -1.0
952. LOAD COMB 132 (DL+ .8 LL + .8 WL - Z+TL)
953. 7 1.0 8 0.8 6 0.8 9 1.0
954. LOAD COMB 133 (DL+ .8 LL + .8 WL - Z-TL)
955. 7 1.0 8 0.8 6 0.8 9 -1.0
956. PERFORM ANALYSIS

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P R O B L E M S T A T I S T I C S

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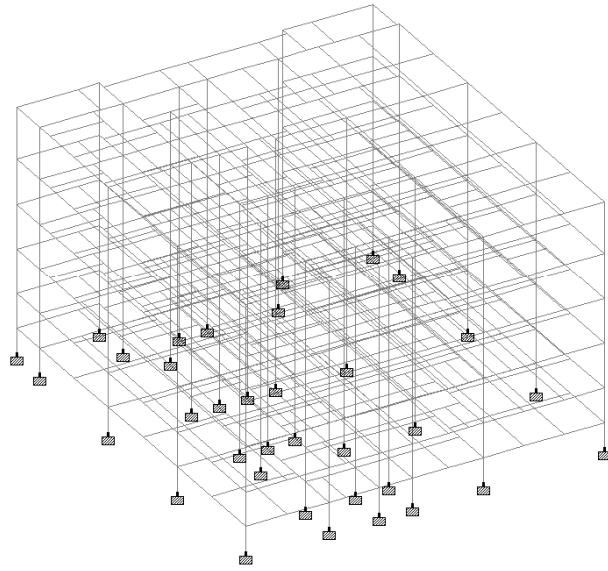
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NUMBER OF JOINTS/MEMBER+ELEMENTS/SUPPORTS =   688/   1286/   35
ORIGINAL/FINAL BAND-WIDTH=   118/   64/   372 DOF
TOTAL PRIMARY LOAD CASES =   9, TOTAL DEGREES OF FREEDOM =   3918
SIZE OF STIFFNESS MATRIX =   1458 DOUBLE   KILO-WORDS
REQRD/AVAIL. DISK SPACE =   30.3/   18588.9 MB
OR REPEAT LOAD OR RE-ANALYSIS OR SELECT OPTIMIZE, THEN EACH
UBC/IBC CASE SHOULD BE FOLLOWED BY PERFORM ANALYSIS & CHANGE.

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*
* TIME PERIOD FOR X 1893 LOADING =   0.70131 SEC   *
* SA/G PER 1893=   1.426, LOAD FACTOR= 1.000   *
*   FACTOR V   PER 1893=   0.0345 X   85150.52   *
*
*****
*****
*
* TIME PERIOD FOR Z 1893 LOADING =   0.70131 SEC   *
* SA/G PER 1893=   1.426, LOAD FACTOR= 1.000   *
*   FACTOR V   PER 1893=   0.0345 X   85150.52   *
*
*****
957. LOAD LIST 84 TO 133

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Load 1

WHOLE STRUCTURE

1	6				30		31
2	7		18	21		26	32
		13					
3	8	14	19	22		27	33
		9	15	20			
4	10			23		28	34
	11		16	24			
5	12		17	25		29	35



Load 1

FOOTING NUMBERS

958. PRINT SUPPORT REACTION ALL
 L SUPPORT REACTION ALL J

SUPPORT REACTIONS -UNIT KN METE STRUCTURE TYPE = SPACE

1	84	151.31	1356.04	136.01	218.71	-3.69	-238.67
	85	-108.70	1284.20	-100.63	-168.67	4.13	199.21
	86	104.61	1033.76	134.53	220.16	-2.70	-86.02
	87	-155.40	961.91	-102.11	-167.21	5.13	351.86
	88	194.69	1291.68	130.15	205.42	-4.78	-383.31
	89	-65.32	1219.83	-106.50	-181.96	3.05	54.57
	90	151.84	974.67	89.24	74.77	-3.25	-242.68
	91	-108.17	902.82	-147.41	-312.61	4.58	195.20
	92	147.46	1350.76	175.45	350.81	-4.22	-226.65
	93	-112.54	1278.92	-61.20	-36.57	3.60	211.23
	94	106.26	1227.08	138.20	226.08	-2.65	-90.02
	95	-153.74	1155.24	-98.44	-161.29	5.17	347.86
	96	196.35	1485.00	133.82	211.33	-4.73	-387.32
	97	-63.66	1413.15	-102.83	-176.04	3.09	50.57
	98	153.49	1168.00	92.91	80.69	-3.20	-246.69
	99	-106.52	1096.15	-143.74	-306.69	4.62	191.20
	100	149.12	1544.09	179.12	356.73	-4.18	-230.65
	101	-110.89	1472.24	-57.53	-30.65	3.65	207.23
	102	114.94	1214.21	137.03	223.42	-2.87	-118.95
	103	-145.07	1142.36	-99.61	-163.95	4.96	318.93
	104	187.01	1420.55	133.52	211.62	-4.53	-356.79
	105	-73.00	1348.70	-103.12	-175.75	3.29	81.10
	106	152.72	1166.94	100.79	107.11	-3.31	-244.28
	107	-107.29	1095.09	-135.85	-280.27	4.52	193.60
	108	149.23	1467.82	169.76	327.94	-4.09	-231.46
	109	-110.78	1395.97	-66.88	-59.43	3.73	206.43
	110	141.42	1148.55	132.42	213.10	-3.65	-210.35
	111	-118.59	1076.70	-104.23	-174.27	4.17	227.53
	112	154.40	1173.69	132.55	213.37	-3.53	-249.80
	113	-105.61	1101.84	-104.10	-174.00	4.30	188.08
	114	149.98	1142.56	124.95	191.51	-3.36	-235.66
	115	-110.02	1070.71	-111.70	-195.86	4.47	202.23
	116	149.33	1182.87	138.92	232.74	-3.98	-233.58
	117	-110.68	1111.02	-97.73	-154.64	3.85	204.30
	118	143.07	1341.87	136.09	219.02	-3.61	-214.35
	119	-116.94	1270.03	-100.56	-168.35	4.22	223.53
	120	156.06	1367.01	136.22	219.29	-3.48	-253.80
	121	-103.95	1295.16	-100.43	-168.08	4.34	184.08
	122	151.64	1335.88	128.62	197.43	-3.32	-239.66
	123	-108.37	1264.04	-108.03	-189.94	4.51	198.22
	124	150.99	1376.19	142.59	238.65	-3.94	-237.59
	125	-109.02	1304.35	-94.06	-148.72	3.89	200.30
	126	144.39	1306.04	135.34	217.77	-3.64	-218.41
	127	-115.62	1234.20	-101.31	-169.60	4.19	219.47
	128	154.77	1326.15	135.44	217.99	-3.54	-249.98
	129	-105.23	1254.31	-101.20	-169.38	4.29	187.91
	130	151.24	1301.25	129.36	200.50	-3.40	-238.66
	131	-108.77	1229.40	-107.28	-186.87	4.43	199.22
	132	150.72	1333.50	140.54	233.48	-3.90	-237.00
	133	-109.29	1261.65	-96.11	-153.89	3.93	200.88
2	84	386.60	3312.09	282.44	602.21	-12.83	-765.90
	85	-286.74	3309.97	-169.96	-378.26	14.58	630.93
	86	211.03	2446.91	277.23	608.77	-14.95	-72.39
	87	-462.32	2444.79	-175.17	-371.70	12.47	1324.43

	88	540.45	3038.88	261.13	539.05	-10.85	-1414.35
	89	-132.90	3036.76	-191.27	-441.42	16.57	-17.52
	90	383.48	2802.92	105.84	-81.46	-9.84	-772.20
	91	-289.86	2800.80	-346.56	-1061.92	17.58	624.62
	92	367.99	2682.86	432.52	1229.27	-15.95	-714.54
	93	-305.36	2680.74	-19.88	248.81	11.46	682.29
	94	221.89	3016.10	290.49	637.07	-14.88	-94.92
	95	-451.45	3013.98	-161.91	-343.39	12.54	1301.90
	96	551.31	3608.07	274.39	567.35	-10.78	-1436.87
	97	-122.03	3605.95	-178.01	-413.12	16.63	-40.05
	98	394.35	3372.12	119.10	-53.16	-9.77	-794.73
	99	-279.00	3370.00	-333.30	-1033.62	17.64	602.09
	100	378.86	3252.06	445.78	1257.57	-15.89	-737.06
	101	-294.49	3249.94	-6.62	277.11	11.53	659.76
	102	252.66	2961.46	286.23	624.44	-14.48	-224.61
	103	-420.68	2959.34	-166.17	-356.03	12.93	1172.21
	104	516.20	3435.04	273.35	568.66	-11.20	-1298.17
	105	-157.15	3432.92	-179.05	-411.81	16.21	98.65
	106	390.63	3246.27	149.12	72.26	-10.40	-784.46
	107	-282.72	3244.15	-303.28	-908.21	17.02	612.37
	108	378.23	3150.23	410.46	1120.84	-15.29	-738.33
	109	-295.11	3148.10	-41.94	140.38	12.12	658.50
	110	343.06	2709.72	269.42	575.36	-19.74	-629.02
	111	-330.29	2707.60	-182.98	-405.11	7.67	767.80
	112	395.29	2766.51	269.99	576.69	-12.60	-818.33
	113	-278.05	2764.39	-182.41	-403.78	14.82	578.49
	114	376.70	2750.11	242.41	477.30	-11.78	-746.99
	115	-296.65	2747.99	-209.99	-503.17	15.64	649.83
	116	374.75	2735.68	294.44	668.53	-14.45	-739.68
	117	-298.59	2733.56	-157.96	-311.94	12.96	657.15
	118	353.93	3278.91	282.68	603.66	-19.67	-651.55
	119	-319.42	3276.79	-169.72	-376.81	7.74	745.28
	120	406.16	3335.70	283.25	604.99	-12.53	-840.86
	121	-267.18	3333.58	-169.15	-375.48	14.88	555.97
	122	387.57	3319.30	255.67	505.60	-11.71	-769.52
	123	-285.78	3317.18	-196.73	-474.87	15.71	627.31
	124	385.62	3304.87	307.70	696.83	-14.39	-762.20
	125	-287.73	3302.75	-144.70	-283.64	13.03	634.62
	126	358.29	3171.71	279.98	597.71	-18.32	-669.91
	127	-315.06	3169.59	-172.42	-382.76	9.09	726.91
	128	400.08	3217.14	280.44	598.77	-12.60	-821.36
	129	-273.27	3215.02	-171.96	-381.69	14.81	575.46
	130	385.20	3204.02	258.37	519.26	-11.95	-764.29
	131	-288.14	3201.90	-194.03	-461.21	15.47	632.54
	132	383.64	3192.48	300.00	672.25	-14.09	-758.44
	133	-289.70	3190.36	-152.40	-308.22	13.33	638.39
3	84	164.71	3404.54	6.81	18.27	-2.29	-256.91
	85	-137.64	3388.28	1.35	0.60	2.59	215.08
	86	109.76	2483.78	8.09	24.57	-1.87	-83.74
	87	-192.58	2467.51	2.63	6.90	3.00	388.24
	88	215.89	2982.23	3.05	7.50	-2.92	-412.41
	89	-86.46	2965.97	-2.41	-10.17	1.95	59.57
	90	163.22	2751.60	-42.30	-140.36	-1.38	-250.02
	91	-139.13	2735.34	-47.76	-158.03	3.50	221.96
	92	162.43	2714.41	53.44	172.43	-3.42	-246.13
	93	-139.91	2698.15	47.98	154.76	1.46	225.86
	94	111.65	3155.32	9.33	26.81	-1.76	-92.57
	95	-190.70	3139.05	3.87	9.14	3.11	379.41
	96	217.77	3653.77	4.28	9.74	-2.81	-421.24

	97	-84.58	3637.51	-1.17	-7.93	2.06	50.74
	98	165.10	3423.14	-41.06	-138.12	-1.27	-258.85
	99	-137.24	3406.88	-46.52	-155.79	3.61	213.13
	100	164.31	3385.95	54.68	174.67	-3.31	-254.96
	101	-138.03	3369.69	49.22	157.00	1.57	217.03
	102	121.88	3070.85	8.58	24.65	-1.89	-123.67
	103	-180.46	3054.59	3.12	6.99	2.99	348.31
	104	206.78	3469.62	4.54	11.00	-2.73	-386.61
	105	-95.56	3453.35	-0.92	-6.67	2.14	85.38
	106	164.65	3285.11	-31.74	-107.29	-1.49	-256.70
	107	-137.70	3268.85	-37.19	-124.96	3.38	215.28
	108	164.02	3255.36	44.85	142.94	-3.12	-253.58
	109	-138.33	3239.10	39.40	125.27	1.75	218.40
	110	146.11	2689.82	5.71	16.53	-2.11	-200.91
	111	-156.23	2673.56	0.25	-1.14	2.77	271.08
	112	170.68	2754.66	5.80	16.70	-2.09	-268.56
	113	-131.67	2738.39	0.34	-0.97	2.79	203.42
	114	162.91	2735.01	-1.69	-6.41	-2.10	-248.41
	115	-139.44	2718.74	-7.15	-24.08	2.77	223.57
	116	162.75	2731.03	12.99	38.86	-2.79	-247.74
	117	-139.59	2714.76	7.53	21.20	2.09	224.24
	118	147.99	3361.36	6.95	18.77	-2.00	-209.74
	119	-154.35	3345.10	1.49	1.10	2.88	262.25
	120	172.56	3426.20	7.03	18.94	-1.98	-277.39
	121	-129.79	3409.93	1.58	1.27	2.90	194.59
	122	164.79	3406.55	-0.46	-4.17	-1.99	-257.24
	123	-137.56	3390.28	-5.91	-21.84	2.88	214.74
	124	164.63	3402.57	14.22	41.10	-2.68	-256.57
	125	-137.71	3386.30	8.77	23.43	2.20	215.41
	126	150.96	3235.69	6.67	18.22	-2.08	-217.40
	127	-151.38	3219.43	1.22	0.55	2.80	254.58
	128	170.61	3287.56	6.74	18.36	-2.06	-271.53
	129	-131.73	3271.29	1.28	0.69	2.81	200.46
	130	164.40	3271.84	0.75	-0.13	-2.07	-255.41
	131	-137.95	3255.57	-4.71	-17.80	2.80	216.58
	132	164.27	3268.65	12.49	36.09	-2.62	-254.87
	133	-138.07	3252.39	7.04	18.42	2.25	217.11
4	84	177.40	3201.38	-53.12	-94.42	2.09	-283.84
	85	-141.94	3189.46	41.41	87.90	-2.26	227.95
	86	121.76	2364.37	-48.26	-83.96	3.16	-114.74
	87	-197.58	2352.46	46.27	98.37	-1.18	397.05
	88	225.52	2764.25	-54.20	-102.32	1.09	-431.01
	89	-93.83	2752.33	40.33	80.00	-3.25	80.78
	90	172.57	2538.85	-101.05	-252.13	2.09	-270.77
	91	-146.78	2526.94	-6.52	-69.81	-2.26	241.02
	92	174.72	2589.77	-1.40	65.85	2.17	-274.98
	93	-144.63	2577.85	93.13	248.18	-2.18	236.81
	94	125.53	3001.44	-50.15	-85.24	3.12	-125.71
	95	-193.82	2989.53	44.38	97.09	-1.22	386.08
	96	229.28	3401.32	-56.09	-103.60	1.05	-441.98
	97	-90.07	3389.40	38.44	78.72	-3.29	69.81
	98	176.33	3175.92	-102.94	-253.41	2.05	-281.74
	99	-143.02	3164.01	-8.41	-71.09	-2.30	230.05
	100	178.48	3226.84	-3.29	64.57	2.13	-285.94
	101	-140.87	3214.92	91.24	246.90	-2.22	225.84
	102	135.15	2914.01	-50.37	-86.82	2.92	-155.14
	103	-184.20	2902.10	44.16	95.51	-1.42	356.65
	104	218.15	3233.92	-55.12	-101.51	1.27	-408.16
	105	-101.19	3222.00	39.41	80.81	-3.08	103.63

106	175.79	3053.60	-92.60	-221.36	2.06	-279.97
107	-143.55	3041.68	1.93	-39.03	-2.28	231.82
108	177.51	3094.33	-12.88	33.03	2.13	-283.33
109	-141.84	3082.42	81.65	215.35	-2.22	228.46
110	159.61	2537.08	-50.97	-92.45	2.85	-237.56
111	-159.74	2525.17	43.56	89.87	-1.50	274.23
112	183.40	2589.90	-51.04	-92.53	2.38	-301.08
113	-135.95	2577.99	43.49	89.79	-1.96	210.71
114	173.56	2561.69	-58.63	-115.70	2.22	-272.77
115	-145.78	2549.78	35.90	66.62	-2.13	239.02
116	173.73	2566.98	-43.27	-69.50	1.95	-273.00
117	-145.62	2555.06	51.26	112.83	-2.39	238.79
118	163.37	3174.15	-52.86	-93.73	2.80	-248.52
119	-155.98	3162.23	41.67	88.59	-1.54	263.27
120	187.16	3226.97	-52.93	-93.81	2.34	-312.04
121	-132.18	3215.05	41.60	88.51	-2.01	199.75
122	177.33	3198.76	-60.52	-116.98	2.18	-283.74
123	-142.02	3186.85	34.01	65.34	-2.17	228.05
124	177.49	3204.05	-45.17	-70.78	1.91	-283.96
125	-141.86	3192.13	49.36	111.55	-2.43	227.82
126	165.42	3052.18	-52.53	-93.62	2.67	-253.39
127	-153.92	3040.27	41.99	88.71	-1.68	258.40
128	184.46	3094.44	-52.59	-93.68	2.30	-304.21
129	-134.89	3082.52	41.94	88.65	-2.05	207.58
130	176.59	3071.87	-58.66	-112.22	2.17	-281.57
131	-142.76	3059.96	35.87	70.11	-2.18	230.22
132	176.72	3076.10	-46.38	-75.25	1.95	-281.75
133	-142.63	3064.19	48.15	107.08	-2.39	230.04
5 84	266.95	1968.29	-311.07	-560.61	2.03	-485.23
85	-228.24	1927.91	228.52	449.52	-1.20	425.35
86	173.07	1461.71	-296.31	-525.58	7.04	-166.37
87	-322.12	1421.33	243.28	484.55	3.81	744.21
88	350.61	1844.17	-308.42	-567.58	-3.49	-781.85
89	-144.59	1803.79	231.17	442.55	-6.72	128.73
90	254.63	1783.77	-394.07	-888.38	1.42	-448.66
91	-240.56	1743.39	145.52	121.75	-1.80	461.92
92	269.04	1522.12	-210.66	-204.78	2.12	-499.56
93	-226.15	1481.74	328.93	805.35	-1.10	411.02
94	178.18	1777.06	-305.01	-539.61	7.29	-177.49
95	-317.01	1736.68	234.57	470.51	4.06	733.09
96	355.72	2159.51	-317.12	-581.61	-3.24	-792.97
97	-139.48	2119.13	222.47	428.52	-6.47	117.61
98	259.74	2099.11	-402.77	-902.41	1.68	-459.78
99	-235.45	2058.73	136.82	107.72	-1.55	450.80
100	274.16	1837.46	-219.36	-218.81	2.38	-510.68
101	-221.04	1797.08	320.23	791.32	-0.85	399.90
102	194.91	1752.23	-304.48	-541.01	6.19	-236.82
103	-300.28	1711.85	235.10	469.12	2.96	673.76
104	336.94	2058.20	-314.17	-574.60	-2.23	-729.20
105	-158.25	2017.82	225.42	435.53	-5.46	181.38
106	260.16	2009.88	-382.69	-831.24	1.70	-462.65
107	-235.03	1969.50	156.90	178.88	-1.53	447.93
108	271.69	1800.56	-235.96	-284.36	2.26	-503.37
109	-223.50	1760.18	303.62	725.76	-0.97	407.22
110	243.84	1629.20	-301.78	-544.89	2.92	-418.77
111	-251.35	1588.82	237.80	465.24	-0.31	491.82
112	277.08	1676.21	-302.14	-545.54	0.82	-525.00
113	-218.11	1635.83	237.45	464.59	-2.40	385.59
114	260.74	1666.17	-316.07	-594.97	1.94	-470.31

115	-234.45	1625.79	223.52	415.16	-1.29	440.27
116	262.93	1639.53	-286.15	-493.63	1.31	-477.93
117	-232.26	1599.15	253.44	516.49	-1.92	432.66
118	248.95	1944.55	-310.49	-558.92	3.17	-429.89
119	-246.24	1904.17	229.10	451.21	-0.06	480.70
120	282.19	1991.56	-310.85	-559.57	1.08	-536.12
121	-213.00	1951.18	228.74	450.56	-2.15	374.47
122	265.85	1981.51	-324.77	-609.00	2.20	-481.43
123	-229.34	1941.13	214.82	401.13	-1.03	429.15
124	268.04	1954.88	-294.85	-507.67	1.56	-489.05
125	-227.15	1914.50	244.74	502.46	-1.67	421.54
126	251.53	1886.23	-308.86	-556.45	2.89	-438.73
127	-243.66	1845.85	230.73	453.67	-0.34	471.85
128	278.12	1923.83	-309.15	-556.97	1.22	-523.72
129	-217.07	1883.45	230.44	453.16	-2.01	386.87
130	265.05	1915.80	-320.29	-596.52	2.11	-479.97
131	-230.15	1875.42	219.30	413.61	-1.12	430.62
132	266.80	1894.49	-296.35	-515.45	1.60	-486.06
133	-228.39	1854.11	243.23	494.68	-1.62	424.52
6 84	1.14	1416.53	57.03	65.12	19.02	-25.51
85	-20.53	1365.57	-40.78	-50.44	-20.11	34.34
86	-27.58	1301.47	55.39	63.69	19.45	54.67
87	-49.25	1250.51	-42.41	-51.87	-19.68	114.52
88	26.93	1060.63	55.67	63.12	18.87	-102.25
89	5.25	1009.67	-42.14	-52.45	-20.26	-42.40
90	0.27	937.90	30.56	28.33	19.19	-27.77
91	-21.41	886.94	-67.25	-87.23	-19.94	32.08
92	-0.92	1424.20	80.50	98.48	19.13	-19.82
93	-22.59	1373.23	-17.31	-17.09	-20.00	40.03
94	-26.11	1536.95	56.89	65.41	19.31	52.96
95	-47.79	1485.99	-40.92	-50.16	-19.82	112.80
96	28.39	1296.11	57.16	64.83	18.73	-103.97
97	6.72	1245.15	-40.64	-50.73	-20.40	-44.12
98	1.73	1173.38	32.06	30.05	19.05	-29.48
99	-19.94	1122.42	-65.75	-85.51	-20.08	30.37
100	0.55	1659.68	82.00	100.19	18.99	-21.53
101	-21.13	1608.71	-15.81	-15.37	-20.14	38.32
102	-20.95	1465.77	56.62	65.01	19.28	37.61
103	-42.63	1414.81	-41.19	-50.56	-19.85	97.45
104	22.65	1273.10	56.84	64.55	18.82	-87.93
105	0.97	1222.13	-40.97	-51.02	-20.32	-28.08
106	1.32	1174.92	36.75	36.72	19.07	-28.34
107	-20.35	1123.95	-61.06	-78.84	-20.06	31.51
108	0.38	1563.95	76.70	92.83	19.02	-21.98
109	-21.30	1512.99	-21.11	-22.73	-20.11	37.86
110	-5.02	1193.56	55.46	63.37	19.36	-11.27
111	-26.70	1142.59	-42.35	-52.19	-19.77	48.58
112	2.54	1172.40	55.58	63.43	19.21	-31.79
113	-19.14	1121.44	-42.23	-52.14	-19.92	28.06
114	-0.22	1152.57	51.32	57.64	19.03	-24.32
115	-21.89	1101.61	-46.48	-57.93	-20.10	35.53
116	-0.41	1209.38	59.42	68.79	19.20	-23.25
117	-22.08	1158.41	-38.39	-46.77	-19.93	36.60
118	-3.56	1429.04	56.95	65.09	19.22	-12.99
119	-25.23	1378.07	-40.86	-50.48	-19.91	46.86
120	4.00	1407.88	57.07	65.14	19.07	-33.50
121	-17.67	1356.92	-40.73	-50.42	-20.06	26.34
122	1.25	1388.05	52.82	59.35	18.89	-26.03
123	-20.43	1337.09	-44.99	-56.21	-20.24	33.82

	124	1.06	1444.86	60.91	70.51	19.06	-24.96
	125	-20.61	1393.89	-36.89	-45.06	-20.07	34.88
	126	-2.91	1379.44	56.67	64.75	19.21	-15.15
	127	-24.59	1328.48	-41.14	-50.81	-19.92	44.70
	128	3.14	1362.52	56.77	64.79	19.09	-31.56
	129	-18.54	1311.55	-41.04	-50.77	-20.04	28.29
	130	0.94	1346.65	53.36	60.16	18.94	-25.58
	131	-20.74	1295.69	-44.45	-55.40	-20.19	34.27
	132	0.78	1392.10	59.84	69.09	19.08	-24.73
	133	-20.89	1341.13	-37.97	-46.48	-20.05	35.12
7	84	42.42	3131.94	177.46	266.30	-3.40	-82.66
	85	-55.28	3187.20	-139.94	-211.11	2.66	92.10
	86	-16.13	2600.45	171.21	259.55	-3.35	79.12
	87	-113.82	2655.72	-146.20	-217.85	2.71	253.88
	88	95.32	2369.84	176.96	257.04	-2.69	-241.60
	89	-2.37	2425.10	-140.44	-220.37	3.37	-66.84
	90	41.44	2531.61	84.65	54.96	-2.71	-87.64
	91	-56.26	2586.88	-232.76	-422.45	3.35	87.12
	92	37.76	2438.67	263.52	461.63	-3.33	-74.84
	93	-59.94	2493.94	-53.88	-15.78	2.73	99.92
	94	-13.31	3247.24	174.59	267.55	-3.73	77.70
	95	-111.00	3302.51	-142.82	-209.85	2.33	252.46
	96	98.14	3016.63	180.34	265.04	-3.07	-243.02
	97	0.44	3071.90	-137.07	-212.37	2.99	-68.26
	98	44.26	3178.41	88.02	62.96	-3.09	-89.06
	99	-53.44	3233.67	-229.38	-414.45	2.97	85.70
	100	40.57	3085.47	266.90	469.63	-3.71	-76.26
	101	-57.12	3140.73	-50.50	-7.78	2.35	98.50
	102	-2.73	3094.82	174.49	265.70	-3.59	45.91
	103	-100.42	3150.09	-142.92	-211.70	2.47	220.67
	104	86.43	2910.33	179.09	263.69	-3.06	-210.67
	105	-11.27	2965.60	-138.32	-213.72	3.00	-35.91
	106	43.33	3039.75	105.24	102.03	-3.08	-87.50
	107	-54.37	3095.02	-212.17	-375.38	2.98	87.26
	108	40.38	2965.40	248.34	427.36	-3.57	-77.26
	109	-57.32	3020.67	-69.07	-50.04	2.49	97.50
	110	30.42	2496.16	173.20	257.88	-3.27	-55.62
	111	-67.27	2551.43	-144.20	-219.53	2.79	119.14
	112	46.18	2476.05	174.56	258.51	-2.77	-99.33
	113	-51.52	2531.31	-142.85	-218.89	3.29	75.43
	114	39.78	2491.20	159.00	225.67	-3.31	-82.00
	115	-57.92	2546.47	-158.41	-251.74	2.75	92.75
	116	39.39	2479.24	188.11	289.41	-3.09	-80.44
	117	-58.30	2534.51	-129.29	-188.00	2.98	94.32
	118	33.24	3142.95	176.58	265.88	-3.65	-57.04
	119	-64.46	3198.22	-140.82	-211.52	2.41	117.72
	120	48.99	3122.84	177.93	266.52	-3.15	-100.75
	121	-48.70	3178.11	-139.47	-210.89	2.91	74.01
	122	42.59	3138.00	162.38	233.67	-3.69	-83.43
	123	-55.10	3193.26	-155.03	-243.73	2.37	91.33
	124	42.21	3126.03	191.49	297.41	-3.47	-81.86
	125	-55.48	3181.30	-125.91	-179.99	2.60	92.90
	126	34.51	3011.39	176.08	264.37	-3.53	-61.88
	127	-63.19	3066.66	-141.32	-213.04	2.54	112.88
	128	47.12	2995.30	177.16	264.87	-3.12	-96.85
	129	-50.58	3050.57	-140.24	-212.54	2.94	77.91
	130	41.99	3007.43	164.72	238.60	-3.56	-82.99
	131	-55.70	3062.69	-152.69	-238.81	2.50	91.77
	132	41.69	2997.85	188.01	289.59	-3.38	-81.74

	133	-56.01	3053.12	-129.40	-187.82	2.68	93.02
8	84	69.47	3417.67	35.81	68.18	0.21	-101.14
	85	-68.48	3412.47	-41.64	-65.33	0.10	111.31
	86	-0.13	2606.96	36.67	72.30	0.54	70.91
	87	-138.08	2601.76	-40.79	-61.20	0.43	283.36
	88	126.90	2673.12	31.30	61.16	-0.16	-267.34
	90	64.79	2335.40	-46.86	-145.43	-0.46	-100.96
	91	-73.16	2330.21	-124.32	-278.93	-0.57	111.49
	92	61.98	2944.68	114.83	278.90	0.84	-95.46
	93	-75.97	2939.48	37.37	145.39	0.73	116.99
	94	5.96	3384.59	38.50	73.75	0.56	67.99
	95	-131.99	3379.39	-38.96	-59.76	0.45	280.44
	96	132.99	3450.75	33.13	62.61	-0.14	-270.26
	98	70.88	3113.03	-45.03	-143.99	-0.44	-103.89
	99	-67.07	3107.84	-122.49	-277.49	-0.55	108.57
	100	68.07	3722.31	116.66	280.34	0.86	-98.39
	101	-69.88	3717.11	39.20	146.84	0.75	114.06
	102	17.44	3235.68	37.60	72.35	0.49	34.75
	103	-120.51	3230.48	-39.86	-61.16	0.38	247.20
	104	119.07	3288.61	33.30	63.43	-0.07	-235.85
	106	69.38	3018.44	-29.23	-101.84	-0.31	-102.75
	107	-68.57	3013.24	-106.69	-235.35	-0.43	109.70
	108	67.13	3505.85	100.12	237.62	0.73	-98.35
	109	-70.82	3500.66	22.66	104.12	0.62	114.10
	110	49.24	2630.95	34.24	67.21	0.64	-56.20
	111	-88.70	2625.75	-43.22	-66.30	0.53	156.25
	112	74.31	2644.81	33.86	66.58	0.61	-121.29
	113	-63.64	2639.61	-43.60	-66.93	0.50	91.16
	114	63.59	2606.00	21.23	34.67	0.10	-98.65
	115	-74.35	2600.80	-56.23	-98.84	-0.01	113.81
	116	63.18	2674.29	46.76	99.26	0.32	-97.79
	117	-74.77	2669.09	-30.70	-34.24	0.21	114.66
	118	55.34	3408.58	36.07	68.65	0.66	-59.12
	119	-82.61	3403.38	-41.39	-64.85	0.54	153.33
	120	80.40	3422.44	35.69	68.02	0.63	-124.21
	121	-57.55	3417.24	-41.77	-65.48	0.51	88.24
	122	69.68	3383.63	23.06	36.11	0.12	-101.57
	123	-68.26	3378.44	-54.40	-97.39	0.01	110.88
	124	69.27	3451.92	48.58	100.71	0.34	-100.71
	125	-68.68	3446.72	-28.88	-32.80	0.23	111.74
	126	56.94	3254.87	35.65	68.27	0.56	-66.94
	127	-81.00	3249.68	-41.81	-65.24	0.45	145.51
	128	77.00	3265.96	35.35	67.76	0.54	-119.01
	129	-60.95	3260.76	-42.11	-65.74	0.43	93.44
	130	68.42	3234.92	25.25	42.23	0.13	-100.90
	131	-69.52	3229.72	-52.21	-91.27	0.02	111.55
	132	68.09	3289.54	45.66	93.91	0.31	-100.21
	133	-69.85	3284.34	-31.80	-39.59	0.20	112.24
9	84	76.78	1807.97	-20.57	-27.24	4.50	-111.83
	85	-68.48	1777.36	0.23	15.13	-4.94	112.19
	86	5.83	1085.55	-19.88	-21.89	5.74	63.30
	87	-139.43	1054.93	0.91	20.48	-3.71	287.32
	88	146.14	1708.23	-24.62	-33.18	3.52	-288.19
	89	0.88	1677.62	-3.83	9.19	-5.92	-64.17
	90	74.03	1567.72	-120.31	-252.42	1.61	-109.82
	91	-71.23	1537.10	-99.51	-210.05	-7.84	114.20
	92	77.94	1226.06	75.80	197.35	7.66	-115.07
	93	-67.32	1195.45	96.60	239.72	-1.79	108.95
	94	6.62	1496.63	-18.20	-21.60	5.61	63.92

	95	-138.64	1466.02	2.60	20.77	-3.84	287.93
	96	146.93	2119.32	-22.94	-32.89	3.40	-287.57
	97	1.67	2088.70	-2.14	9.48	-6.05	-63.55
	98	74.82	1978.80	-118.62	-252.13	1.48	-109.20
	99	-70.44	1948.19	-97.83	-209.76	-7.97	114.81
	100	78.73	1637.15	77.49	197.64	7.53	-114.45
	101	-66.53	1606.53	98.29	240.01	-1.92	109.57
	102	20.49	1476.68	-19.01	-22.79	5.42	28.64
	103	-124.77	1446.07	1.79	19.58	-4.03	252.66
	104	132.74	1974.83	-22.80	-31.82	3.64	-252.54
	105	-12.52	1944.22	-2.00	10.55	-5.80	-28.53
	106	75.05	1862.42	-99.35	-207.21	2.11	-109.85
	107	-70.21	1831.81	-78.55	-164.84	-7.34	114.17
	108	78.18	1589.10	57.54	152.60	6.95	-114.05
	109	-67.08	1558.48	78.34	194.97	-2.50	109.97
	110	61.78	1351.42	-22.07	-27.01	8.07	-78.35
	111	-83.48	1320.80	-1.28	15.36	-1.38	145.67
	112	87.61	1435.77	-22.27	-27.63	5.50	-140.63
	113	-57.65	1405.15	-1.47	14.74	-3.95	83.39
	114	75.81	1414.86	-36.93	-60.69	4.25	-112.31
	115	-69.45	1384.25	-16.13	-18.32	-5.20	111.71
	116	76.16	1379.13	-6.66	7.23	5.07	-112.59
	117	-69.10	1348.52	14.14	49.59	-4.37	111.43
	118	62.57	1762.50	-20.39	-26.72	7.94	-77.73
	119	-82.69	1731.88	0.41	15.65	-1.51	146.29
	120	88.40	1846.85	-20.58	-27.33	5.38	-140.01
	121	-56.86	1816.24	0.21	15.04	-4.07	84.01
	122	76.60	1825.94	-35.24	-60.40	4.13	-111.69
	123	-68.66	1795.33	-14.45	-18.03	-5.32	112.33
	124	76.95	1790.21	-4.97	7.52	4.95	-111.97
	125	-68.31	1759.60	15.82	49.89	-4.50	112.05
	126	65.25	1689.38	-20.76	-26.88	7.28	-84.67
	127	-80.01	1658.76	0.04	15.49	-2.17	139.34
	128	85.92	1756.86	-20.92	-27.37	5.23	-134.49
	129	-59.34	1726.24	-0.12	14.99	-4.22	89.52
	130	76.48	1740.13	-32.65	-53.83	4.23	-111.84
	131	-68.78	1709.52	-11.85	-11.46	-5.22	112.17
	132	76.76	1711.55	-8.43	0.51	4.88	-112.07
	133	-68.50	1680.93	12.37	42.88	-4.56	111.95
10	84	84.93	2709.01	-39.32	-59.60	0.51	-134.05
	85	-62.57	2742.53	29.10	61.20	0.17	114.00
	86	20.60	2088.60	-33.13	-52.09	1.40	33.71
	87	-126.90	2122.12	35.30	68.71	1.06	281.77
	88	136.83	1953.83	-37.89	-63.65	-0.52	-290.64
	89	-10.67	1987.35	30.53	57.15	-0.87	-42.58
	90	78.49	1816.88	-133.75	-282.56	0.06	-126.93
	91	-69.02	1850.40	-65.33	-161.75	-0.28	121.12
	92	78.95	2225.55	62.74	166.82	0.81	-129.99
	93	-68.55	2259.07	131.16	287.62	0.47	118.06
	94	26.82	2776.40	-36.94	-53.82	1.47	28.12
	95	-120.68	2809.91	31.48	66.98	1.13	276.17
	96	143.05	2641.63	-41.71	-65.38	-0.45	-296.23
	97	-4.46	2675.15	26.72	55.42	-0.79	-48.17
	98	84.70	2504.68	-137.57	-284.29	0.13	-132.52
	99	-62.80	2538.20	-69.15	-163.49	-0.21	115.53
	100	85.17	2913.35	58.92	165.08	0.89	-135.59
	101	-62.34	2946.86	127.35	285.89	0.54	112.47
	102	37.20	2625.36	-36.65	-54.63	1.26	-3.20
	103	-110.30	2658.88	31.77	66.17	0.92	244.86

	104	130.18	2517.55	-40.47	-63.88	-0.27	-262.68
	105	-17.32	2551.06	27.96	56.92	-0.62	-14.62
	106	83.50	2407.99	-117.16	-239.01	0.19	-131.71
	107	-64.00	2441.50	-48.73	-118.20	-0.15	116.34
	108	83.88	2734.92	40.04	120.49	0.80	-134.16
	109	-63.63	2768.44	108.46	241.30	0.45	113.89
	110	66.10	2030.07	-35.32	-57.32	0.73	-95.90
	111	-81.41	2063.59	33.10	63.48	0.39	152.16
	112	89.76	2012.92	-35.53	-57.98	0.55	-157.63
	113	-57.74	2046.44	32.89	62.83	0.21	90.43
	114	78.78	2000.04	-50.23	-90.88	0.36	-128.45
	115	-68.73	2033.56	18.20	29.92	0.01	119.60
	116	78.67	2042.59	-19.78	-22.84	0.59	-128.50
	117	-68.83	2076.10	48.64	97.96	0.25	119.55
	118	72.31	2717.87	-39.13	-59.06	0.81	-101.49
	119	-75.19	2751.39	29.29	61.75	0.46	146.56
	120	95.98	2700.72	-39.34	-59.71	0.62	-163.22
	121	-51.53	2734.23	29.08	61.09	0.28	84.84
	122	84.99	2687.84	-54.04	-92.61	0.43	-134.04
	123	-62.51	2721.36	14.38	28.19	0.09	114.01
	124	84.89	2730.38	-23.60	-24.57	0.67	-134.09
	125	-62.62	2763.90	44.82	96.23	0.32	113.96
	126	73.59	2578.54	-38.41	-58.82	0.73	-106.88
	127	-73.91	2612.06	30.02	61.98	0.39	141.17
	128	92.53	2564.81	-38.58	-59.34	0.58	-156.27
	129	-54.98	2598.33	29.85	61.46	0.24	91.79
	130	83.74	2554.51	-50.33	-85.66	0.43	-132.93
	131	-63.77	2588.03	18.09	35.14	0.09	115.13
	132	83.65	2588.55	-25.98	-31.23	0.62	-132.97
	133	-63.85	2622.07	42.44	89.57	0.28	115.09
11	84	112.16	2638.21	-96.88	-163.96	-3.55	-156.15
	85	-75.99	2637.90	87.56	144.67	2.40	134.30
	86	55.34	1939.66	-92.84	-154.42	-1.70	-5.50
	87	-132.80	1939.35	91.60	154.21	4.25	284.95
	88	166.15	2158.24	-97.39	-165.51	-5.15	-305.29
	89	-22.00	2157.93	87.05	143.12	0.80	-14.84
	90	104.54	2255.00	-180.51	-371.06	-5.59	-144.54
	91	-83.60	2254.69	3.93	-62.43	0.36	145.91
	92	116.95	1842.90	-9.72	51.13	-1.26	-166.25
	93	-71.20	1842.59	174.72	359.75	4.69	124.20
	94	56.76	2528.92	-94.61	-158.41	-1.83	-6.25
	95	-131.39	2528.61	89.83	150.22	4.12	284.20
	96	167.57	2747.50	-99.16	-169.50	-5.27	-306.05
	97	-20.58	2747.19	85.28	139.13	0.68	-15.60
	98	105.96	2844.26	-182.28	-375.05	-5.72	-145.29
	99	-82.19	2843.95	2.16	-66.42	0.23	145.16
	100	118.37	2432.16	-11.49	47.14	-1.39	-167.00
	101	-69.78	2431.85	172.95	355.76	4.56	123.45
	102	67.56	2432.93	-94.71	-158.72	-2.15	-36.08
	103	-120.59	2432.62	89.73	149.91	3.80	254.37
	104	156.20	2607.79	-98.35	-167.59	-4.90	-275.92
	105	-31.95	2607.48	86.09	141.03	1.05	14.53
	106	106.92	2685.20	-164.84	-332.03	-5.26	-147.31
	107	-81.23	2684.89	19.60	-23.40	0.69	143.14
	108	116.84	2355.52	-28.21	5.72	-1.79	-164.68
	109	-71.31	2355.21	156.22	314.34	4.16	125.77
	110	100.21	2034.61	-94.90	-159.42	-1.86	-128.74
	111	-87.94	2034.29	89.54	149.21	4.10	161.71
	112	121.03	2062.93	-95.17	-160.09	-3.97	-181.78

	113	-67.12	2062.62	89.27	148.54	1.98	108.67
	114	109.89	2070.61	-107.86	-190.85	-3.71	-153.94
	115	-78.26	2070.30	76.58	117.78	2.24	136.51
	116	111.66	2027.33	-80.18	-125.58	-3.48	-156.86
	117	-76.49	2027.02	104.26	183.05	2.47	133.59
	118	101.62	2623.86	-96.67	-163.41	-1.98	-129.50
	119	-86.53	2623.55	87.77	145.22	3.97	160.95
	120	122.44	2652.19	-96.94	-164.08	-4.10	-182.53
	121	-65.71	2651.87	87.50	144.55	1.85	107.92
	122	111.31	2659.87	-109.63	-194.84	-3.83	-154.69
	123	-76.84	2659.56	74.81	113.79	2.12	135.76
	124	113.07	2616.59	-81.95	-129.57	-3.60	-157.62
	125	-75.08	2616.28	102.49	179.06	2.35	132.83
	126	103.45	2508.88	-96.36	-162.72	-2.27	-134.68
	127	-84.70	2508.57	88.08	145.91	3.68	155.78
	128	120.10	2531.54	-96.57	-163.26	-3.97	-177.10
	129	-68.05	2531.23	87.86	145.37	1.99	113.35
	130	111.19	2537.69	-106.73	-187.87	-3.75	-154.83
	131	-76.95	2537.37	77.71	120.76	2.20	135.62
	132	112.61	2503.06	-84.58	-135.65	-3.57	-157.17
	133	-75.54	2502.75	99.86	172.98	2.38	133.28
12	84	80.97	1695.44	-166.37	-249.40	-2.17	-118.13
	85	-45.44	1633.71	131.50	215.36	3.35	98.51
	86	19.19	1423.97	-160.15	-238.60	-1.61	32.91
	87	-107.23	1362.24	137.72	226.16	3.90	249.56
	88	137.26	1463.93	-164.56	-249.43	-3.19	-264.06
	89	10.84	1402.20	133.31	215.33	2.32	-47.41
	90	74.78	1658.86	-253.29	-449.31	-3.32	-103.98
	91	-51.63	1597.13	44.58	15.45	2.19	112.67
	92	81.66	1229.04	-71.42	-38.72	-1.49	-127.17
	93	-44.75	1167.32	226.45	426.04	4.03	89.48
	94	21.94	1675.46	-164.16	-243.99	-1.38	30.35
	95	-104.48	1613.73	133.71	220.77	4.14	247.00
	96	140.01	1715.42	-168.58	-254.81	-2.96	-266.62
	97	13.60	1653.69	129.30	209.95	2.55	-49.97
	98	77.53	1910.34	-257.30	-454.70	-3.08	-106.54
	99	-48.88	1848.62	40.57	10.06	2.43	110.11
	100	84.42	1480.53	-75.44	-44.11	-1.25	-129.73
	101	-42.00	1418.80	222.44	420.65	4.26	86.92
	102	33.20	1629.16	-163.80	-243.99	-1.58	1.17
	103	-93.22	1567.43	134.07	220.77	3.93	217.81
	104	127.65	1661.12	-167.33	-252.65	-2.85	-236.41
	105	1.24	1599.40	130.54	212.11	2.67	-19.76
	106	77.67	1817.07	-238.32	-412.56	-2.95	-108.34
	107	-48.74	1755.34	59.56	52.20	2.57	108.30
	108	83.18	1473.21	-92.82	-84.09	-1.48	-126.90
	109	-43.24	1411.49	205.05	380.67	4.03	89.75
	110	67.86	1441.08	-162.18	-243.51	-2.19	-90.36
	111	-58.56	1379.35	135.69	221.25	3.32	126.28
	112	88.24	1446.32	-162.38	-244.13	-2.45	-140.17
	113	-38.18	1384.60	135.49	220.63	3.06	76.47
	114	77.70	1468.77	-175.83	-274.03	-2.47	-113.84
	115	-48.72	1407.04	122.04	190.73	3.04	102.81
	116	78.72	1418.49	-146.21	-209.55	-2.65	-117.30
	117	-47.70	1356.76	151.66	255.21	2.87	99.35
	118	70.61	1692.57	-166.19	-248.90	-1.95	-92.92
	119	-55.80	1630.84	131.68	215.86	3.56	123.72
	120	90.99	1697.81	-166.40	-249.52	-2.21	-142.73
	121	-35.43	1636.08	131.48	215.24	3.30	73.92

	122	80.45	1720.26	-179.84	-279.42	-2.23	-116.39
	123	-45.97	1658.53	118.03	185.34	3.28	100.25
	124	81.47	1669.98	-150.22	-214.94	-2.41	-119.86
	125	-44.95	1608.25	147.65	249.82	3.10	96.79
	126	72.13	1642.84	-165.43	-247.92	-2.04	-97.45
	127	-54.28	1581.12	132.44	216.84	3.47	119.19
	128	88.44	1647.04	-165.59	-248.42	-2.25	-137.30
	129	-37.98	1585.31	132.28	216.34	3.26	79.35
	130	80.00	1665.00	-176.35	-272.34	-2.27	-116.23
	131	-46.41	1603.27	121.53	192.42	3.25	100.42
	132	80.82	1624.77	-152.65	-220.76	-2.41	-119.00
	133	-45.60	1563.04	145.22	244.00	3.10	97.65
13	84	-1.12	1926.96	97.86	137.83	-0.62	-1.73
	85	-16.25	1961.03	-74.35	-105.13	1.45	17.58
	86	-22.29	1515.70	98.13	136.63	-0.70	28.40
	87	-37.42	1549.77	-74.09	-106.33	1.37	47.71
	88	24.52	1465.75	97.42	132.42	-0.91	-38.00
	89	9.40	1499.82	-74.79	-110.54	1.16	-18.69
	90	0.57	1617.36	67.71	54.98	-2.43	-4.87
	91	-14.56	1651.43	-104.51	-187.98	-0.36	14.44
	92	1.66	1364.09	127.85	214.08	0.82	-4.74
	93	-13.47	1398.16	-44.37	-28.88	2.89	14.57
	94	-24.53	1951.94	98.22	139.94	-0.51	31.47
	95	-39.66	1986.00	-74.00	-103.02	1.56	50.77
	96	22.29	1901.98	97.51	135.73	-0.72	-34.93
	97	7.16	1936.05	-74.71	-107.23	1.35	-15.62
	98	-1.66	2053.59	67.79	58.28	-2.25	-1.80
	99	-16.79	2087.66	-104.42	-184.68	-0.18	17.51
	100	-0.58	1800.32	127.93	217.38	1.01	-1.67
	101	-15.71	1834.39	-44.28	-25.58	3.08	17.64
	102	-19.40	1859.69	98.13	138.86	-0.57	24.21
	103	-34.53	1893.76	-74.09	-104.11	1.50	43.52
	104	18.05	1819.73	97.56	135.49	-0.74	-28.90
	105	2.92	1853.80	-74.65	-107.47	1.33	-9.60
	106	-1.11	1941.02	73.79	73.53	-1.96	-2.40
	107	-16.24	1975.09	-98.43	-169.43	0.11	16.91
	108	-0.24	1738.40	121.90	200.81	0.65	-2.29
	109	-15.37	1772.47	-50.32	-42.15	2.72	17.01
	110	-4.13	1494.18	98.02	135.09	-0.61	2.33
	111	-19.26	1528.24	-74.20	-107.87	1.46	21.64
	112	4.41	1488.60	97.92	134.56	-0.88	-9.19
	113	-10.71	1522.67	-74.29	-108.41	1.19	10.12
	114	1.10	1505.75	92.95	122.09	-0.98	-4.87
	115	-14.03	1539.82	-79.26	-120.87	1.09	14.44
	116	1.13	1476.00	102.72	147.14	-0.63	-4.73
	117	-14.00	1510.07	-69.50	-95.82	1.44	14.58
	118	-6.37	1930.41	98.10	138.39	-0.43	5.40
	119	-21.49	1964.48	-74.11	-104.57	1.64	24.71
	120	2.18	1924.84	98.01	137.86	-0.69	-6.12
	121	-12.95	1958.91	-74.21	-105.10	1.38	13.19
	122	-1.14	1941.98	93.04	125.40	-0.79	-1.80
	123	-16.27	1976.05	-79.18	-117.57	1.28	17.51
	124	-1.10	1912.23	102.81	150.44	-0.44	-1.66
	125	-16.23	1946.30	-69.41	-92.52	1.63	17.65
	126	-4.87	1842.47	98.04	137.62	-0.50	3.36
	127	-20.00	1876.54	-74.18	-105.34	1.57	22.67
	128	1.97	1838.02	97.96	137.19	-0.72	-5.86
	129	-13.16	1872.08	-74.25	-105.77	1.35	13.45
	130	-0.69	1851.73	93.99	127.22	-0.79	-2.40

	131	-15.82	1885.80	-78.23	-115.74	1.28	16.91
	132	-0.66	1827.93	101.80	147.26	-0.51	-2.29
	133	-15.79	1862.00	-70.42	-95.70	1.56	17.02
14	84	9.65	996.89	17.78	30.00	0.38	-11.78
	85	-15.65	1016.00	-8.48	-17.18	0.06	16.30
	86	-16.55	713.70	17.08	30.23	0.35	21.35
	87	-41.85	732.82	-9.19	-16.95	0.03	49.44
	88	37.33	722.82	15.20	25.77	0.23	-45.80
	89	12.03	741.93	-11.07	-21.41	-0.09	-17.72
	90	11.09	683.85	-15.88	-51.53	-1.30	-12.93
	91	-14.21	702.96	-42.15	-98.71	-1.62	15.15
	92	9.68	752.67	48.16	107.53	1.88	-11.51
	93	-15.62	771.78	21.90	60.35	1.56	16.57
	94	-17.29	992.33	18.72	32.23	0.44	21.79
	95	-42.59	1011.45	-7.54	-14.95	0.12	49.88
	96	36.59	1001.45	16.84	27.77	0.32	-45.36
	97	11.29	1020.56	-9.42	-19.41	0.00	-17.28
	98	10.35	962.48	-14.24	-49.53	-1.21	-12.49
	99	-14.94	981.59	-40.51	-96.71	-1.53	15.59
	100	8.94	1031.30	49.80	109.53	1.97	-11.07
	101	-16.35	1050.41	23.54	62.35	1.65	17.01
	102	-11.76	937.52	18.20	31.39	0.41	14.99
	103	-37.05	956.63	-8.06	-15.79	0.09	43.07
	104	31.35	944.81	16.70	27.82	0.32	-38.73
	105	6.05	963.92	-9.56	-19.36	0.00	-10.65
	106	10.36	913.64	-8.17	-34.02	-0.91	-12.44
	107	-14.94	932.75	-34.43	-81.20	-1.23	15.64
	108	9.23	968.69	43.07	93.23	1.63	-11.30
	109	-16.06	987.81	16.81	46.05	1.32	16.78
	110	4.19	716.67	16.35	28.35	0.28	-4.35
	111	-21.10	735.78	-9.91	-18.83	-0.03	23.74
	112	14.42	718.63	16.14	27.90	0.31	-17.01
	113	-10.88	737.74	-10.13	-19.28	-0.01	11.07
	114	10.48	714.59	11.03	15.61	0.14	-12.33
	115	-14.81	733.70	-15.23	-31.57	-0.18	15.76
	116	10.29	721.95	21.37	40.62	0.47	-12.12
	117	-15.01	741.07	-4.90	-6.56	0.15	15.96
	118	3.46	995.30	17.99	30.36	0.37	-3.91
	119	-21.84	1014.41	-8.27	-16.82	0.06	24.18
	120	13.68	997.26	17.78	29.91	0.40	-16.57
	121	-11.62	1016.37	-8.48	-17.27	0.08	11.51
	122	9.75	993.22	12.68	17.62	0.23	-11.89
	123	-15.55	1012.33	-13.59	-29.56	-0.09	16.20
	124	9.55	1000.58	23.01	42.63	0.56	-11.68
	125	-15.74	1019.70	-3.25	-4.55	0.24	16.40
	126	4.84	939.89	17.62	29.89	0.36	-5.57
	127	-20.45	959.00	-8.64	-17.29	0.04	22.51
	128	13.02	941.46	17.45	29.53	0.38	-15.70
	129	-12.28	960.57	-8.81	-17.65	0.06	12.38
	130	9.88	938.23	13.37	19.69	0.24	-11.95
	131	-15.42	957.34	-12.90	-27.49	-0.08	16.13
	132	9.72	944.12	21.64	39.70	0.51	-11.79
	133	-15.58	963.23	-4.63	-7.48	0.19	16.29
15	84	8.87	745.99	-55.04	-68.69	-2.74	-9.65
	85	-5.42	748.36	57.35	70.25	3.36	7.18
	86	-20.82	496.92	-55.53	-67.01	-2.86	26.62
	87	-35.10	499.29	56.86	71.92	3.24	43.46
	88	38.68	636.40	-56.99	-70.98	-2.87	-46.02
	89	24.40	638.77	55.40	67.95	3.23	-29.18

	90	8.15	607.59	-82.33	-144.59	-4.54	-8.98
	91	-6.13	609.96	30.06	-5.66	1.55	7.85
	92	9.72	525.73	-30.19	6.60	-1.18	-10.41
	93	-4.57	528.10	82.20	145.54	4.92	6.43
	94	-20.88	676.25	-54.31	-66.70	-2.73	26.67
	95	-35.17	678.62	58.08	72.24	3.36	43.51
	96	38.61	815.73	-55.77	-70.67	-2.75	-45.97
	97	24.33	818.09	56.62	68.27	3.35	-29.14
	98	8.08	786.92	-81.11	-144.28	-4.42	-8.94
	99	-6.20	789.29	31.28	-5.34	1.68	7.90
	100	9.65	705.06	-28.97	6.91	-1.06	-10.37
	101	-4.63	707.43	83.42	145.85	5.04	6.47
	102	-14.92	654.34	-54.70	-67.16	-2.76	19.40
	103	-29.20	656.70	57.69	71.78	3.34	36.23
	104	32.68	765.91	-55.87	-70.34	-2.77	-38.72
	105	18.40	768.28	56.52	68.60	3.33	-21.88
	106	8.25	742.87	-76.14	-129.22	-4.11	-9.09
	107	-6.03	745.23	36.25	9.71	1.99	7.75
	108	9.50	677.38	-34.43	-8.27	-1.42	-10.23
	109	-4.78	679.75	77.97	130.67	4.68	6.60
	110	3.16	556.42	-56.13	-68.81	-2.95	-2.71
	111	-11.12	558.78	56.27	70.13	3.15	14.12
	112	13.78	576.13	-56.27	-69.11	-2.88	-15.55
	113	-0.50	578.50	56.12	69.83	3.21	1.29
	114	8.87	571.34	-60.47	-80.75	-3.02	-9.65
	115	-5.41	573.71	51.92	58.19	3.08	7.19
	116	9.00	561.97	-51.96	-56.95	-2.75	-9.75
	117	-5.29	564.34	60.43	81.99	3.35	7.09
	118	3.09	735.75	-54.91	-68.50	-2.83	-2.67
	119	-11.19	738.11	57.49	70.44	3.27	14.17
	120	13.72	755.46	-55.05	-68.79	-2.76	-15.50
	121	-0.57	757.83	57.34	70.15	3.34	1.33
	122	8.80	750.67	-59.25	-80.44	-2.89	-9.60
	123	-5.48	753.04	53.15	58.50	3.20	7.23
	124	8.93	741.30	-50.74	-56.64	-2.63	-9.70
	125	-5.35	743.67	61.66	82.30	3.47	7.14
	126	4.26	701.93	-55.18	-68.60	-2.83	-4.07
	127	-10.02	704.30	57.22	70.34	3.26	12.76
	128	12.76	717.70	-55.29	-68.83	-2.78	-14.34
	129	-1.52	720.07	57.10	70.10	3.32	2.49
	130	8.83	713.87	-58.65	-78.15	-2.89	-9.62
	131	-5.45	716.24	53.74	60.79	3.21	7.21
	132	8.93	706.38	-51.84	-59.11	-2.68	-9.70
	133	-5.35	708.74	60.55	79.83	3.42	7.14
16	84	4.69	1358.46	-65.08	-95.48	0.06	-6.63
	85	-5.91	1407.39	54.14	80.54	0.00	6.27
	86	-18.74	1099.85	-62.43	-90.67	0.16	23.52
	87	-29.34	1148.78	56.78	85.35	0.10	36.42
	88	26.94	1022.35	-63.95	-93.82	-0.04	-35.74
	89	16.34	1071.28	55.27	82.20	-0.10	-22.84
	90	2.83	980.96	-93.59	-165.28	-0.51	-4.37
	91	-7.77	1029.89	25.63	10.74	-0.57	8.53
	92	5.37	1141.25	-32.79	-19.20	0.63	-7.85
	93	-5.23	1190.18	86.42	156.81	0.57	5.05
	94	-18.15	1397.21	-64.32	-93.91	0.16	23.00
	95	-28.75	1446.14	54.90	82.11	0.10	35.90
	96	27.52	1319.71	-65.84	-97.06	-0.04	-36.26
	97	16.92	1368.64	53.38	78.96	-0.10	-23.36
	98	3.41	1278.31	-95.48	-168.52	-0.51	-4.89

	99	-7.19	1327.24	23.74	7.50	-0.57	8.01
	100	5.96	1438.60	-34.68	-22.44	0.63	-8.37
	101	-4.64	1487.53	84.54	153.58	0.57	4.53
	102	-13.70	1329.99	-64.10	-93.57	0.14	17.18
	103	-24.30	1378.92	55.12	82.44	0.08	30.08
	104	22.84	1267.99	-65.31	-96.09	-0.02	-30.23
	105	12.24	1316.92	53.91	79.92	-0.08	-17.33
	106	3.55	1234.87	-89.02	-153.26	-0.39	-5.13
	107	-7.05	1283.80	30.20	22.75	-0.46	7.77
	108	5.59	1363.10	-40.38	-36.40	0.52	-7.92
	109	-5.01	1412.03	78.83	139.62	0.45	4.98
	110	0.06	1065.76	-63.07	-92.04	0.11	-0.93
	111	-10.54	1114.69	56.15	83.98	0.05	11.97
	112	8.19	1056.50	-63.24	-92.32	0.00	-11.35
	113	-2.41	1105.43	55.98	83.70	-0.06	1.55
	114	3.94	1050.95	-68.37	-104.23	0.03	-5.88
	115	-6.66	1099.88	50.85	71.79	-0.03	7.02
	116	4.25	1071.61	-56.79	-78.32	0.17	-6.33
	117	-6.35	1120.54	62.43	97.69	0.10	6.57
	118	0.64	1363.12	-64.96	-95.28	0.11	-1.45
	119	-9.96	1412.05	54.26	80.74	0.05	11.45
	120	8.78	1353.85	-65.12	-95.56	0.00	-11.87
	121	-1.82	1402.78	54.09	80.46	-0.06	1.03
	122	4.52	1348.31	-70.26	-107.47	0.03	-6.40
	123	-6.08	1397.24	48.96	68.55	-0.03	6.50
	124	4.84	1368.97	-58.67	-81.56	0.17	-6.85
	125	-5.76	1417.90	60.54	94.46	0.10	6.05
	126	1.33	1302.72	-64.61	-94.67	0.10	-2.38
	127	-9.27	1351.65	54.61	81.35	0.04	10.52
	128	7.84	1295.30	-64.74	-94.90	0.01	-10.71
	129	-2.76	1344.23	54.48	81.12	-0.05	2.19
	130	4.44	1290.87	-68.85	-104.42	0.04	-6.34
	131	-6.16	1339.80	50.37	71.60	-0.02	6.56
	132	4.69	1307.39	-59.58	-83.70	0.15	-6.70
	133	-5.91	1356.32	59.64	92.32	0.08	6.20
17	84	6.05	936.53	-102.15	-143.69	-0.34	-8.68
	85	-10.74	906.90	81.50	123.21	0.47	11.26
	86	-17.65	830.28	-98.94	-138.63	-0.32	21.40
	87	-34.44	800.65	84.71	128.27	0.49	41.34
	88	29.10	781.16	-99.68	-141.35	-0.39	-37.99
	89	12.31	751.53	83.97	125.55	0.42	-18.05
	90	3.43	948.48	-126.18	-210.88	-1.22	-5.58
	91	-13.36	918.85	57.47	56.02	-0.41	14.36
	92	8.02	662.95	-72.44	-69.10	0.51	-11.01
	93	-8.78	633.32	111.21	197.80	1.32	8.93
	94	-17.32	961.09	-101.78	-142.33	-0.30	21.02
	95	-34.12	931.46	81.87	124.57	0.51	40.96
	96	29.43	911.97	-102.51	-145.05	-0.38	-38.37
	97	12.64	882.34	81.13	121.85	0.44	-18.43
	98	3.76	1079.29	-129.02	-214.58	-1.21	-5.96
	99	-13.03	1049.67	54.63	52.32	-0.39	13.98
	100	8.35	793.76	-75.28	-72.79	0.53	-11.39
	101	-8.45	764.14	108.37	194.11	1.34	8.55
	102	-12.71	930.01	-101.28	-141.86	-0.31	15.15
	103	-29.51	900.39	82.36	125.04	0.50	35.10
	104	24.69	890.72	-101.87	-144.04	-0.37	-32.36
	105	7.89	861.09	81.77	122.87	0.44	-12.41
	106	4.15	1024.58	-123.07	-199.66	-1.04	-6.43
	107	-12.64	994.95	60.57	67.24	-0.22	13.51

	108	7.82	796.15	-80.08	-86.23	0.35	-10.77
	109	-8.97	766.53	103.56	180.67	1.16	9.17
	110	1.81	808.96	-99.25	-139.83	-0.38	-3.36
	111	-14.98	779.33	84.39	127.07	0.44	16.59
	112	9.63	802.44	-99.30	-140.04	-0.36	-13.22
	113	-7.17	772.81	84.35	126.86	0.45	6.72
	114	5.38	823.02	-103.91	-151.60	-0.41	-7.89
	115	-11.41	793.39	79.74	115.30	0.40	12.05
	116	6.08	787.99	-93.32	-126.05	-0.24	-8.71
	117	-10.72	758.36	90.32	140.85	0.57	11.23
	118	2.14	939.77	-102.09	-143.53	-0.36	-3.74
	119	-14.65	910.15	81.56	123.37	0.45	16.20
	120	9.95	933.25	-102.14	-143.74	-0.34	-13.61
	121	-6.84	903.62	81.51	123.16	0.47	6.34
	122	5.71	953.83	-106.74	-155.30	-0.39	-8.27
	123	-11.08	924.21	76.90	111.60	0.42	11.67
	124	6.41	918.80	-96.16	-129.75	-0.22	-9.09
	125	-10.39	889.17	87.49	137.16	0.59	10.85
	126	2.86	912.96	-101.54	-142.82	-0.36	-4.65
	127	-13.94	883.33	82.11	124.08	0.45	15.29
	128	9.11	907.74	-101.57	-142.99	-0.35	-12.54
	129	-7.69	878.11	82.08	123.91	0.46	7.40
	130	5.71	924.21	-105.26	-152.24	-0.39	-8.28
	131	-11.08	894.58	78.39	114.66	0.43	11.67
	132	6.27	896.18	-96.79	-131.79	-0.25	-8.93
	133	-10.52	866.55	86.86	135.11	0.56	11.01
18	84	4.66	1300.68	109.69	149.27	-1.78	-7.16
	85	-8.95	1287.66	-106.06	-158.53	0.57	9.40
	86	-20.98	861.47	113.13	154.94	-1.79	26.05
	87	-34.59	848.45	-102.61	-152.87	0.56	42.61
	88	29.20	1245.64	107.95	149.42	-1.18	-39.40
	89	15.59	1232.62	-107.79	-158.39	1.17	-22.84
	90	5.20	1003.27	89.07	85.75	-1.73	-8.12
	91	-8.41	990.25	-126.68	-222.05	0.62	8.44
	92	3.02	1103.84	132.02	218.60	-1.24	-5.23
	93	-10.59	1090.82	-83.73	-89.20	1.11	11.33
	94	-20.43	1108.60	112.28	152.03	-2.09	25.57
	95	-34.04	1095.58	-103.47	-155.77	0.26	42.13
	96	29.75	1492.76	107.10	146.51	-1.48	-39.88
	97	16.14	1479.75	-108.65	-161.29	0.87	-23.32
	98	5.75	1250.40	88.22	82.85	-2.03	-8.60
	99	-7.86	1237.38	-127.53	-224.96	0.32	7.96
	100	3.57	1350.96	131.16	215.70	-1.54	-5.71
	101	-10.04	1337.95	-84.59	-92.10	0.81	10.85
	102	-15.52	1097.59	111.93	152.06	-1.97	19.12
	103	-29.13	1084.57	-103.82	-155.74	0.38	35.68
	104	24.62	1404.92	107.79	147.65	-1.48	-33.24
	105	11.01	1391.90	-107.96	-160.16	0.87	-16.68
	106	5.43	1211.03	92.68	96.71	-1.92	-8.22
	107	-8.18	1198.01	-123.07	-211.09	0.43	8.34
	108	3.68	1291.48	127.04	202.99	-1.52	-5.90
	109	-9.93	1278.47	-88.71	-104.81	0.82	10.66
	110	0.15	1031.71	111.02	152.60	-1.69	-1.58
	111	-13.46	1018.69	-104.72	-155.21	0.66	14.98
	112	6.97	1070.93	110.19	151.85	-1.47	-10.39
	113	-6.64	1057.91	-105.56	-155.95	0.87	6.17
	114	4.25	1047.31	106.36	140.12	-1.48	-6.86
	115	-9.36	1034.29	-109.38	-167.68	0.87	9.70
	116	3.97	1059.65	114.52	163.55	-1.47	-6.49

	117	-9.64	1046.64	-101.23	-144.25	0.88	10.07
	118	0.70	1278.83	110.17	149.69	-1.99	-2.06
	119	-12.91	1265.82	-105.58	-158.11	0.36	14.50
	120	7.52	1318.06	109.33	148.95	-1.77	-10.87
	121	-6.08	1305.04	-106.42	-158.85	0.57	5.69
	122	4.80	1294.44	105.51	137.22	-1.78	-7.34
	123	-8.81	1281.42	-110.24	-170.58	0.57	9.22
	124	4.52	1306.78	113.66	160.65	-1.76	-6.97
	125	-9.09	1293.76	-102.08	-147.16	0.58	9.59
	126	1.38	1233.78	110.24	150.19	-1.89	-2.98
	127	-12.23	1220.76	-105.51	-157.61	0.46	13.58
	128	6.84	1265.16	109.57	149.60	-1.71	-10.03
	129	-6.77	1252.14	-106.17	-158.21	0.63	6.53
	130	4.66	1246.26	106.51	140.21	-1.72	-7.21
	131	-8.95	1233.24	-109.23	-167.59	0.63	9.35
	132	4.44	1256.13	113.04	158.95	-1.71	-6.91
	133	-9.17	1243.12	-102.71	-148.85	0.64	9.65
19	84	49.41	1314.77	30.16	59.40	-2.65	-58.90
	85	-32.53	1329.59	-61.42	-88.24	3.47	47.47
	86	-31.82	1311.81	33.57	66.00	-2.36	115.29
	87	-113.76	1326.63	-58.00	-81.63	3.76	221.66
	88	124.65	887.73	34.01	61.92	-3.31	-226.97
	89	42.71	902.55	-57.57	-85.71	2.81	-120.60
	90	47.99	1078.17	-4.40	-63.51	-3.88	-58.79
	91	-33.95	1092.99	-95.97	-211.14	2.24	47.58
	92	44.84	1121.37	71.98	191.43	-1.80	-52.89
	93	-37.10	1136.19	-19.60	43.80	4.32	53.48
	94	-28.83	1526.81	29.94	61.44	-2.18	112.23
	95	-110.77	1541.63	-61.63	-86.20	3.94	218.60
	96	127.64	1102.74	30.37	57.35	-3.13	-230.02
	97	45.70	1117.55	-61.20	-90.28	2.99	-123.66
	98	50.99	1293.17	-8.03	-68.08	-3.69	-61.85
	99	-30.95	1307.99	-99.60	-215.71	2.43	44.52
	100	47.83	1336.38	68.34	186.87	-1.62	-55.95
	101	-34.11	1351.19	-23.23	39.23	4.50	50.42
	102	-13.78	1441.41	30.71	61.94	-2.31	78.62
	103	-95.72	1456.22	-60.86	-85.69	3.81	184.98
	104	111.40	1102.14	31.06	58.68	-3.07	-195.19
	105	29.46	1116.96	-60.52	-88.96	3.05	-88.82
	106	50.07	1254.49	0.34	-41.67	-3.52	-60.64
	107	-31.87	1269.31	-91.24	-189.30	2.60	45.72
	108	47.55	1289.06	61.43	162.28	-1.86	-55.93
	109	-34.39	1303.87	-30.14	14.65	4.26	50.44
	110	36.51	1140.86	33.70	64.15	-2.82	-22.32
	111	-45.43	1155.68	-57.87	-83.48	3.30	84.04
	112	63.53	1083.74	33.78	63.74	-2.95	-84.15
	113	-18.41	1098.55	-57.80	-83.89	3.17	22.22
	114	46.66	1097.07	26.57	41.68	-2.64	-56.30
	115	-35.28	1111.89	-65.01	-105.95	3.48	50.06
	116	46.20	1102.46	41.04	86.08	-2.94	-55.41
	117	-35.74	1117.28	-50.53	-61.55	3.18	50.96
	118	39.50	1355.87	30.07	59.59	-2.63	-25.38
	119	-42.44	1370.68	-61.51	-88.04	3.49	80.99
	120	66.52	1298.74	30.15	59.18	-2.76	-87.21
	121	-15.42	1313.56	-61.43	-88.45	3.36	19.16
	122	49.66	1312.07	22.94	37.12	-2.45	-59.36
	123	-32.28	1326.89	-68.64	-110.51	3.67	47.01
	124	49.19	1317.47	37.41	81.52	-2.75	-58.46
	125	-32.75	1332.29	-54.16	-66.12	3.37	47.90

	126	40.88	1304.65	30.81	60.46	-2.67	-31.47
	127	-41.06	1319.46	-60.76	-87.17	3.45	74.89
	128	62.50	1258.95	30.88	60.13	-2.78	-80.93
	129	-19.44	1273.77	-60.70	-87.50	3.34	25.43
	130	49.01	1269.61	25.11	42.49	-2.53	-58.66
	131	-32.93	1284.43	-66.47	-105.15	3.59	47.71
	132	48.64	1273.93	36.69	78.01	-2.77	-57.94
	133	-33.30	1288.75	-54.89	-69.63	3.35	48.43
20	84	-31.78	1770.64	-55.28	-66.24	17.96	22.92
	85	38.87	1824.88	11.93	29.66	-18.28	-36.48
	86	-108.64	1697.24	-52.42	-60.17	18.35	206.30
	87	-37.98	1751.48	14.79	35.72	-17.88	146.90
	88	46.68	1123.76	-52.49	-64.14	17.99	-159.35
	89	117.34	1178.00	14.72	31.76	-18.24	-218.75
	90	-34.22	1363.00	-90.62	-190.43	14.83	27.17
	91	36.44	1417.24	-23.41	-94.53	-21.40	-32.22
	92	-27.74	1458.00	-14.29	66.11	21.52	19.77
	93	42.92	1512.24	52.92	162.01	-14.71	-39.62
	94	-109.44	2057.38	-55.25	-64.25	18.13	205.74
	95	-38.78	2111.62	11.96	31.64	-18.10	146.35
	96	45.87	1483.90	-55.32	-68.22	17.78	-159.91
	97	116.53	1538.14	11.89	27.67	-18.45	-219.30
	98	-35.03	1723.14	-93.45	-194.51	14.61	26.62
	99	35.63	1777.38	-26.24	-98.61	-21.62	-32.78
	100	-28.54	1818.14	-17.11	62.03	21.30	19.22
	101	42.12	1872.38	50.10	157.93	-14.93	-40.18
	102	-93.75	1928.00	-54.69	-63.83	18.14	169.29
	103	-23.09	1982.24	12.52	32.06	-18.09	109.89
	104	30.50	1469.22	-54.74	-67.01	17.85	-123.23
	105	101.16	1523.46	12.47	28.89	-18.38	-182.63
	106	-34.22	1660.61	-85.25	-168.04	15.32	25.99
	107	36.44	1714.85	-18.04	-72.14	-20.91	-33.41
	108	-29.03	1736.61	-24.18	37.19	20.67	20.07
	109	41.63	1790.85	43.03	133.09	-15.56	-39.33
	110	-46.27	1453.59	-52.46	-61.96	18.25	58.45
	111	24.39	1507.83	14.75	33.94	-17.98	-0.94
	112	-17.82	1374.38	-52.56	-62.48	18.45	-6.14
	113	52.84	1428.62	14.65	33.42	-17.79	-65.54
	114	-31.35	1404.37	-59.56	-84.17	18.30	23.77
	115	39.31	1458.61	7.65	11.73	-17.93	-35.63
	116	-30.60	1416.64	-44.95	-39.39	18.57	23.17
	117	40.06	1470.88	22.26	56.51	-17.66	-36.22
	118	-47.07	1813.73	-55.29	-66.04	18.04	57.89
	119	23.59	1867.97	11.92	29.85	-18.19	-1.50
	120	-18.62	1734.52	-55.39	-66.56	18.23	-6.70
	121	52.04	1788.76	11.82	29.34	-18.00	-66.09
	122	-32.16	1764.51	-62.38	-88.25	18.09	23.21
	123	38.50	1818.75	4.83	7.65	-18.14	-36.18
	124	-31.41	1776.78	-47.78	-43.47	18.35	22.61
	125	39.25	1831.02	19.43	52.42	-17.88	-36.78
	126	-43.85	1733.08	-54.72	-65.26	18.06	51.01
	127	26.80	1787.33	12.49	30.63	-18.17	-8.38
	128	-21.09	1669.71	-54.80	-65.68	18.22	-0.66
	129	49.56	1723.95	12.41	30.22	-18.01	-60.06
	130	-31.92	1693.70	-60.40	-83.03	18.10	23.26
	131	38.74	1747.94	6.81	12.86	-18.13	-36.13
	132	-31.32	1703.52	-48.71	-47.21	18.32	22.79
	133	39.34	1757.77	18.50	48.69	-17.91	-36.61
21	84	14.85	2426.23	172.95	272.81	-3.00	-30.77

	85	-6.68	2446.13	-166.38	-257.38	3.30	16.93
	86	-51.52	2028.35	175.66	276.29	-2.92	143.07
	87	-73.04	2048.25	-163.67	-253.90	3.38	190.77
	88	81.26	1839.06	171.37	268.60	-2.93	-200.70
	89	59.73	1858.96	-167.96	-261.59	3.38	-153.00
	90	18.68	1866.35	136.59	142.82	-3.33	-37.25
	91	-2.85	1886.25	-202.74	-387.37	2.98	10.45
	92	11.07	2001.07	210.44	402.06	-2.52	-20.38
	93	-10.46	2020.96	-128.89	-128.13	3.79	27.32
	94	-51.54	2520.87	175.09	276.66	-3.00	141.12
	95	-73.07	2540.77	-164.24	-253.53	3.31	188.81
	96	81.24	2331.58	170.80	268.97	-3.01	-202.66
	97	59.71	2351.48	-168.53	-261.22	3.30	-154.96
	98	18.66	2358.87	136.02	143.19	-3.41	-39.21
	99	-2.87	2378.77	-203.31	-387.00	2.90	8.49
	100	11.04	2493.59	209.87	402.43	-2.60	-22.33
	101	-10.49	2513.48	-129.46	-127.76	3.71	25.36
	102	-38.26	2403.44	174.78	275.82	-2.98	107.13
	103	-59.78	2423.34	-164.55	-254.37	3.32	154.83
	104	67.96	2252.00	171.34	269.66	-2.99	-167.89
	105	46.44	2271.90	-167.99	-260.53	3.32	-120.19
	106	17.90	2273.84	143.52	169.04	-3.31	-37.13
	107	-3.63	2293.73	-195.81	-361.15	3.00	10.57
	108	11.81	2381.61	202.60	376.44	-2.66	-23.63
	109	-9.72	2401.51	-136.73	-153.75	3.64	24.07
	110	4.12	1946.09	173.97	273.33	-2.87	-2.37
	111	-17.41	1965.99	-165.36	-256.85	3.43	45.32
	112	22.65	1925.21	173.29	272.19	-2.54	-48.46
	113	1.13	1945.11	-166.04	-258.00	3.77	-0.76
	114	15.37	1925.66	164.74	246.94	-2.97	-29.91
	115	-6.15	1945.56	-174.59	-283.24	3.33	17.79
	116	14.37	1941.65	180.58	295.03	-2.92	-27.70
	117	-7.16	1961.55	-158.75	-235.15	3.39	19.99
	118	4.10	2438.61	173.40	273.70	-2.95	-4.33
	119	-17.43	2458.51	-165.93	-256.48	3.35	43.36
	120	22.63	2417.73	172.72	272.56	-2.62	-50.41
	121	1.10	2437.63	-166.61	-257.63	3.69	-2.72
	122	15.35	2418.18	164.17	247.31	-3.05	-31.87
	123	-6.18	2438.08	-175.16	-282.87	3.26	15.83
	124	14.34	2434.17	180.01	295.40	-3.00	-29.66
	125	-7.18	2454.07	-159.32	-234.78	3.31	18.04
	126	6.25	2337.63	173.42	273.45	-2.95	-9.23
	127	-15.27	2357.53	-165.91	-256.74	3.36	38.47
	128	21.08	2320.93	172.88	272.54	-2.68	-46.09
	129	-0.45	2340.83	-166.45	-257.65	3.63	1.60
	130	15.25	2321.29	166.04	252.34	-3.03	-31.26
	131	-6.27	2341.19	-173.29	-277.85	3.28	16.44
	132	14.45	2334.08	178.71	290.81	-2.98	-29.49
	133	-7.08	2353.98	-160.62	-239.38	3.32	18.21
22	84	9.41	2366.22	44.91	80.98	0.03	-30.27
	85	6.03	2389.97	-58.53	-87.43	0.15	8.43
	86	-59.84	1745.52	46.33	85.04	0.50	138.55
	87	-63.22	1769.26	-57.10	-83.37	0.62	177.26
	88	77.56	1964.20	44.77	78.40	-0.41	-192.24
	89	74.19	1987.95	-58.67	-90.01	-0.29	-153.53
	90	9.75	1839.23	3.02	-55.24	-0.21	-29.50
	91	6.37	1862.98	-100.42	-223.65	-0.09	9.20
	92	7.97	1870.48	88.09	218.68	0.29	-24.18
	93	4.60	1894.23	-15.35	50.27	0.41	14.52

	94	-59.30	2256.88	45.69	84.30	0.49	135.12
	95	-62.67	2280.63	-57.75	-84.11	0.61	173.83
	96	78.11	2475.57	44.13	77.66	-0.42	-195.67
	97	74.73	2499.31	-59.31	-90.75	-0.30	-156.96
	98	10.29	2350.60	2.37	-55.98	-0.22	-32.93
	99	6.92	2374.35	-101.06	-224.39	-0.10	5.77
	100	8.52	2381.85	87.45	217.94	0.28	-27.61
	101	5.14	2405.59	-15.99	49.53	0.40	11.09
	102	-45.67	2176.48	45.66	83.79	0.40	102.73
	103	-49.04	2200.22	-57.78	-84.63	0.52	141.43
	104	64.26	2351.43	44.41	78.47	-0.33	-161.90
	105	60.88	2375.17	-59.02	-89.94	-0.21	-123.19
	106	10.01	2251.45	11.01	-28.44	-0.17	-31.72
	107	6.63	2275.20	-92.43	-196.85	-0.05	6.99
	108	8.59	2276.45	79.07	190.70	0.24	-27.46
	109	5.21	2300.20	-24.37	22.28	0.35	11.25
	110	-13.16	1848.86	45.76	82.51	0.13	9.17
	111	-16.54	1872.61	-57.68	-85.91	0.25	47.88
	112	15.72	1870.20	45.44	81.50	0.46	-51.93
	113	12.34	1893.95	-58.00	-86.91	0.58	-13.22
	114	9.01	1853.24	36.97	56.89	0.01	-27.27
	115	5.63	1876.98	-66.47	-111.52	0.13	11.44
	116	8.70	1856.58	53.65	105.74	0.06	-26.44
	117	5.33	1880.32	-49.79	-62.68	0.18	12.27
	118	-12.61	2360.23	45.12	81.77	0.12	5.74
	119	-15.99	2383.97	-58.32	-86.65	0.24	44.45
	120	16.27	2381.57	44.80	80.76	0.45	-55.36
	121	12.89	2405.31	-58.64	-87.65	0.57	-16.65
	122	9.56	2364.60	36.32	56.15	0.00	-30.70
	123	6.18	2388.35	-67.12	-112.26	0.12	8.01
	124	9.25	2367.95	53.01	105.00	0.05	-29.87
	125	5.87	2391.69	-50.43	-63.42	0.17	8.84
	126	-8.32	2259.15	45.21	81.76	0.11	-0.78
	127	-11.69	2282.90	-58.23	-86.66	0.23	37.93
	128	14.79	2276.23	44.95	80.95	0.37	-49.66
	129	11.41	2299.97	-58.49	-87.46	0.49	-10.95
	130	9.42	2262.66	38.17	61.26	0.01	-29.93
	131	6.04	2286.40	-65.27	-107.15	0.13	8.78
	132	9.17	2265.33	51.52	100.34	0.05	-29.27
	133	5.80	2289.07	-51.92	-68.07	0.17	9.44
23	84	28.61	2720.30	-31.92	-52.56	5.03	-44.83
	85	-8.02	2747.81	20.71	42.43	-4.99	20.10
	86	-34.62	2058.50	-31.78	-50.85	5.89	122.20
	87	-71.25	2086.00	20.84	44.14	-4.13	187.14
	88	86.23	2026.33	-26.88	-50.22	4.31	-204.55
	89	49.60	2053.84	25.75	44.77	-5.70	-139.62
	90	24.17	2042.54	-78.97	-195.96	4.55	-38.62
	91	-12.46	2070.04	-26.34	-100.97	-5.47	26.32
	92	27.44	2042.29	20.31	94.89	5.65	-43.73
	93	-9.19	2069.79	72.93	189.88	-4.37	21.21
	94	-31.81	2736.39	-34.37	-52.87	5.82	118.54
	95	-68.44	2763.89	18.25	42.11	-4.20	183.48
	96	89.04	2704.22	-29.46	-52.24	4.24	-208.21
	97	52.41	2731.72	23.16	42.75	-5.77	-143.27
	98	26.97	2720.43	-81.55	-197.98	4.48	-42.28
	99	-9.66	2747.93	-28.93	-103.00	-5.53	22.66
	100	30.25	2720.18	17.72	92.87	5.58	-47.39
	101	-6.38	2747.68	70.35	187.86	-4.44	17.55
	102	-20.29	2597.59	-33.36	-52.40	5.67	86.60

	103	-56.92	2625.09	19.26	42.58	-4.34	151.53
	104	76.39	2571.86	-29.43	-51.90	4.41	-174.80
	105	39.76	2599.36	23.19	43.09	-5.60	-109.87
	106	26.74	2584.82	-71.11	-168.49	4.61	-42.06
	107	-9.89	2612.33	-18.48	-73.51	-5.41	22.88
	108	29.36	2584.63	8.31	64.19	5.48	-46.14
	109	-7.27	2612.13	60.94	159.17	-4.53	18.79
	110	13.56	2045.65	-29.71	-50.37	5.42	-10.31
	111	-23.07	2073.16	22.91	44.61	-4.59	54.63
	112	37.32	2041.00	-28.80	-50.10	5.60	-70.96
	113	0.69	2068.50	23.82	44.88	-4.42	-6.03
	114	25.63	2042.50	-38.52	-75.71	5.10	-40.99
	115	-11.00	2070.00	14.10	19.28	-4.92	23.95
	116	25.99	2042.39	-19.67	-24.51	5.16	-41.38
	117	-10.64	2069.90	32.95	70.47	-4.86	23.56
	118	16.37	2723.54	-32.30	-52.40	5.36	-13.96
	119	-20.26	2751.05	20.33	42.59	-4.66	50.97
	120	40.12	2718.89	-31.39	-52.12	5.53	-74.62
	121	3.49	2746.39	21.24	42.86	-4.49	-9.68
	122	28.43	2720.38	-41.11	-77.73	5.03	-44.65
	123	-8.20	2747.89	11.52	17.25	-4.99	20.29
	124	28.80	2720.28	-22.26	-26.53	5.09	-45.04
	125	-7.83	2747.78	30.37	68.45	-4.93	19.90
	126	18.26	2587.32	-31.71	-52.02	5.30	-19.41
	127	-18.37	2614.82	20.92	42.96	-4.71	45.53
	128	37.26	2583.59	-30.98	-51.81	5.44	-67.93
	129	0.63	2611.10	21.65	43.18	-4.57	-3.00
	130	27.91	2584.79	-38.75	-72.29	5.04	-43.95
	131	-8.72	2612.29	13.87	22.69	-4.97	20.98
	132	28.20	2584.71	-23.67	-31.33	5.09	-44.26
	133	-8.43	2612.21	28.95	63.65	-4.93	20.67
24	84	-41.12	2422.68	-96.10	-159.56	3.64	34.36
	85	59.29	2473.63	80.03	129.24	-3.77	-62.98
	86	-100.40	1923.08	-94.78	-153.72	4.56	189.96
	87	0.00	1974.03	81.35	135.07	-2.86	92.62
	88	17.83	1953.46	-93.75	-156.88	2.96	-116.40
	89	118.23	2004.41	82.39	131.91	-4.46	-213.74
	90	-45.71	1822.87	-147.17	-301.97	3.10	46.80
	91	54.70	1873.82	28.97	-13.17	-4.32	-50.54
	92	-36.87	2053.67	-41.37	-8.63	4.41	26.76
	93	63.54	2104.62	134.77	280.16	-3.01	-70.58
	94	-100.23	2407.49	-96.62	-157.98	4.45	187.54
	95	0.17	2458.44	79.52	130.82	-2.97	90.20
	96	18.00	2437.87	-95.58	-161.13	2.84	-118.81
	97	118.40	2488.82	80.55	127.66	-4.57	-216.16
	98	-45.54	2307.28	-149.00	-306.22	2.99	44.38
	99	54.87	2358.23	27.13	-17.43	-4.43	-52.96
	100	-36.70	2538.08	-43.20	-12.89	4.30	24.34
	101	63.71	2589.03	132.93	275.91	-3.12	-73.00
	102	-88.44	2313.64	-96.15	-157.44	4.31	157.39
	103	11.96	2364.59	79.99	131.35	-3.11	60.05
	104	6.14	2337.95	-95.32	-159.97	3.03	-87.70
	105	106.54	2388.90	80.81	128.83	-4.39	-185.04
	106	-44.69	2233.48	-138.05	-276.04	3.14	42.86
	107	55.72	2284.43	38.08	12.76	-4.28	-54.48
	108	-37.61	2418.12	-53.41	-41.37	4.19	26.83
	109	62.79	2469.07	122.72	247.43	-3.23	-70.51
	110	-52.12	1937.16	-94.24	-154.77	4.04	63.51
	111	48.29	1988.11	81.89	134.03	-3.38	-33.83

	112	-30.08	1939.62	-94.05	-155.18	3.51	9.41
	113	70.32	1990.57	82.09	133.62	-3.91	-87.93
	114	-41.88	1923.74	-103.81	-180.32	3.64	38.12
	115	58.53	1974.69	72.32	108.47	-3.78	-59.22
	116	-40.70	1953.07	-83.45	-128.16	3.91	35.48
	117	59.70	2004.02	92.69	160.64	-3.51	-61.86
	118	-51.95	2421.57	-96.07	-159.02	3.92	61.09
	119	48.46	2472.52	80.06	129.78	-3.50	-36.25
	120	-29.91	2424.03	-95.88	-159.43	3.39	6.99
	121	70.49	2474.98	80.25	129.37	-4.03	-90.35
	122	-41.71	2408.14	-105.65	-184.58	3.53	35.70
	123	58.70	2459.10	70.48	104.22	-3.89	-61.64
	124	-40.53	2437.48	-85.28	-132.41	3.79	33.06
	125	59.87	2488.43	90.85	156.38	-3.63	-64.28
	126	-49.82	2324.91	-95.71	-158.28	3.89	56.23
	127	50.59	2375.86	80.42	130.52	-3.53	-41.11
	128	-32.19	2326.88	-95.56	-158.60	3.47	12.95
	129	68.22	2377.83	80.58	130.19	-3.95	-84.39
	130	-41.62	2314.17	-103.37	-178.72	3.58	35.91
	131	58.78	2365.12	72.76	110.07	-3.84	-61.43
	132	-40.68	2337.64	-87.08	-136.99	3.79	33.81
	133	59.72	2388.59	89.05	151.80	-3.63	-63.53
25	84	11.27	1442.14	-157.39	-239.89	5.47	-29.24
	85	-6.69	1399.44	122.43	200.40	-6.15	18.47
	86	-52.97	1160.25	-153.55	-232.80	6.20	127.99
	87	-70.92	1117.55	126.27	207.49	-5.41	175.70
	88	72.76	1345.93	-153.54	-236.52	5.15	-181.25
	89	54.81	1303.23	126.28	203.76	-6.46	-133.55
	90	4.46	1477.94	-203.02	-377.41	5.32	-13.52
	91	-13.49	1435.24	76.80	62.88	-6.29	34.18
	92	15.33	1028.24	-104.07	-91.91	6.03	-39.74
	93	-2.62	985.54	175.76	348.38	-5.58	7.97
	94	-51.60	1349.30	-157.39	-238.03	5.99	125.39
	95	-69.55	1306.60	122.43	202.26	-5.62	173.09
	96	74.13	1534.98	-157.38	-241.76	4.94	-183.86
	97	56.17	1492.28	122.44	198.53	-6.67	-136.16
	98	5.83	1666.99	-206.86	-382.64	5.11	-16.13
	99	-12.12	1624.29	72.96	57.65	-6.50	31.58
	100	16.70	1217.29	-107.91	-97.15	5.82	-42.35
	101	-1.25	1174.59	171.91	343.14	-5.79	5.36
	102	-39.30	1330.05	-156.62	-237.36	5.93	94.98
	103	-57.25	1287.35	123.20	202.93	-5.68	142.69
	104	61.28	1478.60	-156.61	-240.34	5.09	-152.41
	105	43.33	1435.90	123.21	199.95	-6.53	-104.71
	106	6.64	1584.21	-196.20	-353.04	5.22	-18.23
	107	-11.31	1541.51	83.62	87.24	-6.39	29.48
	108	15.34	1224.45	-117.04	-124.65	5.79	-39.20
	109	-2.61	1181.75	162.78	315.64	-5.82	8.50
	110	-0.81	1241.66	-153.43	-234.08	5.78	-1.12
	111	-18.76	1198.96	126.39	206.21	-5.83	46.59
	112	20.51	1264.24	-153.42	-234.60	5.60	-52.37
	113	2.55	1221.54	126.41	205.69	-6.02	-4.66
	114	9.08	1280.43	-162.45	-258.95	5.59	-24.65
	115	-8.87	1237.73	117.37	181.34	-6.02	23.05
	116	10.72	1225.46	-142.91	-207.37	5.95	-28.64
	117	-7.24	1182.76	136.91	232.92	-5.66	19.07
	118	0.56	1430.71	-157.28	-239.31	5.57	-3.72
	119	-17.40	1388.01	122.54	200.98	-6.04	43.98
	120	21.88	1453.29	-157.26	-239.83	5.39	-54.97

	121	3.92	1410.59	122.56	200.46	-6.22	-7.27
	122	10.45	1469.48	-166.29	-264.18	5.38	-27.26
	123	-7.50	1426.78	113.53	176.11	-6.23	20.45
	124	12.08	1414.51	-146.76	-212.60	5.74	-31.24
	125	-5.87	1371.81	133.06	227.69	-5.87	16.46
	126	2.43	1395.19	-156.53	-238.38	5.59	-8.31
	127	-15.53	1352.49	123.29	201.91	-6.02	39.40
	128	19.48	1413.25	-156.52	-238.79	5.44	-49.31
	129	1.53	1370.55	123.30	201.49	-6.17	-1.60
	130	10.34	1426.20	-163.74	-258.28	5.44	-27.13
	131	-7.61	1383.50	116.08	182.01	-6.17	20.57
	132	11.65	1382.23	-148.12	-217.01	5.73	-30.32
	133	-6.31	1339.53	131.70	223.28	-5.89	17.39
26	84	-8.37	5272.16	386.29	741.72	18.28	74.60
	85	103.71	5366.62	-250.79	-528.98	-15.99	-160.11
	86	-238.04	3759.48	371.68	706.10	19.86	848.99
	87	-125.96	3853.93	-265.40	-564.61	-14.42	614.28
	88	210.32	4466.31	356.83	695.91	18.07	-675.14
	89	322.40	4560.76	-280.24	-574.80	-16.21	-909.85
	90	10.13	4135.98	154.33	7.69	14.19	39.33
	91	122.21	4230.43	-482.75	-1263.02	-20.09	-195.38
	92	-37.86	4089.80	574.18	1394.32	23.74	134.52
	93	74.22	4184.26	-62.90	123.61	-10.54	-100.19
	94	-232.55	4918.75	393.71	746.82	19.18	836.67
	95	-120.47	5013.20	-243.37	-523.89	-15.10	601.95
	96	215.81	5625.58	378.87	736.63	17.39	-687.47
	97	327.89	5720.03	-258.21	-534.08	-16.89	-922.18
	98	15.62	5295.25	176.36	48.41	13.51	27.00
	99	127.71	5389.71	-460.71	-1222.30	-20.77	-207.71
	100	-32.37	5249.07	596.21	1435.04	23.06	122.20
	101	79.71	5343.53	-40.86	164.33	-11.22	-112.52
	102	-188.81	4757.58	387.82	737.66	19.14	686.72
	103	-76.73	4852.03	-249.26	-533.05	-15.14	452.01
	104	169.87	5323.04	375.95	729.50	17.70	-532.59
	105	281.95	5417.50	-261.13	-541.20	-16.58	-767.30
	106	9.73	5058.78	213.94	178.93	14.60	38.99
	107	121.81	5153.23	-423.14	-1091.78	-19.68	-195.73
	108	-28.67	5021.84	549.82	1288.23	22.24	115.14
	109	83.41	5116.29	-87.26	17.52	-12.04	-119.57
	110	-49.05	4075.02	365.12	701.21	19.56	200.72
	111	63.04	4169.47	-271.96	-569.50	-14.72	-34.00
	112	13.46	4142.25	364.01	702.38	22.55	-1.71
	113	125.54	4236.70	-273.07	-568.32	-11.73	-236.42
	114	-10.22	4116.17	326.86	587.25	19.12	80.33
	115	101.86	4210.62	-310.22	-683.46	-15.16	-154.38
	116	-17.36	4109.84	397.90	808.17	20.25	93.47
	117	94.72	4204.30	-239.18	-462.54	-14.03	-141.24
	118	-43.55	5234.29	387.15	741.93	18.88	188.39
	119	68.53	5328.74	-249.93	-528.78	-15.40	-46.33
	120	18.95	5301.52	386.04	743.10	21.87	-14.04
	121	131.04	5395.97	-251.04	-527.61	-12.41	-248.75
	122	-4.73	5275.44	348.90	627.97	18.44	68.01
	123	107.35	5369.90	-288.18	-642.74	-15.84	-166.71
	124	-11.87	5269.11	419.93	848.89	19.57	81.14
	125	100.22	5363.57	-217.15	-421.82	-14.71	-153.57
	126	-37.62	5010.01	382.57	733.74	18.90	168.10
	127	74.47	5104.47	-254.50	-536.96	-15.38	-66.62
	128	12.39	5063.79	381.68	734.68	21.29	6.15
	129	124.47	5158.25	-255.40	-536.03	-12.99	-228.56

	130	-6.55	5042.93	351.97	642.57	18.55	71.79
	131	105.53	5137.39	-285.11	-628.13	-15.73	-162.92
	132	-12.26	5037.87	408.79	819.31	19.45	82.30
	133	99.82	5132.33	-228.28	-451.40	-14.83	-152.41
27	84	-23.26	6408.63	60.54	135.30	4.85	53.87
	85	107.49	6475.31	-36.39	-88.60	-3.89	-181.54
	86	-247.52	4575.75	56.54	123.60	7.62	827.36
	87	-116.76	4642.43	-40.38	-100.30	-1.12	591.94
	88	182.27	4934.13	56.49	130.37	2.10	-680.96
	89	313.03	5000.80	-40.44	-93.54	-6.64	-916.37
	90	-29.07	4774.42	-170.63	-601.67	1.29	59.66
	91	101.69	4841.09	-267.56	-825.57	-7.46	-175.76
	92	-36.18	4735.46	283.67	855.64	8.43	86.75
	93	94.58	4802.13	186.74	631.73	-0.31	-148.67
	94	-238.15	6229.45	60.57	131.92	7.61	808.03
	95	-107.40	6296.12	-36.36	-91.99	-1.14	572.61
	96	191.64	6587.82	60.51	138.69	2.09	-700.28
	97	322.39	6654.49	-36.41	-85.22	-6.65	-935.70
	98	-19.70	6428.11	-166.61	-593.35	1.28	40.33
	99	111.05	6494.79	-263.54	-817.25	-7.47	-195.09
	100	-26.81	6389.15	287.69	863.95	8.42	67.42
	101	103.94	6455.83	190.76	640.05	-0.32	-168.00
	102	-197.05	5934.55	59.76	130.93	7.06	661.07
	103	-66.29	6001.22	-37.17	-92.97	-1.69	425.65
	104	146.79	6221.24	59.71	136.35	2.64	-545.59
	105	277.54	6287.92	-37.21	-87.56	-6.10	-781.00
	106	-22.29	6093.48	-121.98	-449.28	1.99	46.90
	107	108.47	6160.15	-218.91	-673.19	-6.75	-188.52
	108	-27.97	6062.31	241.46	716.56	7.71	68.58
	109	102.78	6128.98	144.53	492.66	-1.03	-166.84
	110	-71.88	4736.64	56.37	126.02	4.26	184.68
	111	58.87	4803.31	-40.55	-97.88	-4.49	-50.74
	112	9.23	4779.19	57.07	129.13	6.06	-73.97
	113	139.98	4845.86	-39.86	-94.77	-2.69	-309.39
	114	-32.04	4757.28	19.09	11.99	4.67	71.05
	115	98.71	4823.95	-77.83	-211.92	-4.08	-164.36
	116	-33.15	4752.75	93.35	240.55	5.43	75.11
	117	97.60	4819.42	-3.58	16.65	-3.31	-160.31
	118	-62.51	6390.33	60.39	134.34	4.24	165.35
	119	68.24	6457.01	-36.53	-89.56	-4.50	-70.07
	120	18.59	6432.88	61.09	137.45	6.05	-93.30
	121	149.35	6499.56	-35.84	-86.45	-2.70	-328.72
	122	-22.67	6410.97	23.12	20.31	4.66	51.73
	123	108.08	6477.64	-73.81	-203.60	-4.09	-183.69
	124	-23.78	6406.44	97.37	248.87	5.42	55.78
	125	106.97	6473.11	0.45	24.97	-3.32	-179.64
	126	-56.53	6063.26	59.62	132.87	4.37	146.92
	127	74.22	6129.93	-37.31	-91.03	-4.38	-88.50
	128	8.35	6097.29	60.18	135.36	5.81	-60.00
	129	139.10	6163.97	-36.75	-88.55	-2.93	-295.42
	130	-24.66	6079.76	29.80	41.64	4.70	56.02
	131	106.09	6146.44	-67.13	-182.26	-4.05	-179.40
	132	-25.55	6076.14	89.20	224.49	5.31	59.26
	133	105.20	6142.81	-7.72	0.59	-3.44	-176.15
28	84	-27.92	6993.99	-146.96	-313.24	2.49	86.59
	85	112.06	7055.84	144.54	341.63	-1.67	-207.28
	86	-260.90	5230.28	-142.46	-314.59	7.39	860.79
	87	-120.92	5292.13	149.04	340.28	3.23	566.91
	88	188.85	5494.43	-142.04	-307.38	-2.61	-649.68

89	328.84	5556.27	149.46	347.49	-6.78	-943.56
90	-39.29	5355.73	-373.76	-1046.32	-2.03	113.03
91	100.70	5417.58	-82.26	-391.45	-6.19	-180.85
92	-32.77	5368.97	89.26	424.35	6.80	98.08
93	107.22	5430.82	380.76	1079.22	2.64	-195.80
94	-252.80	6861.92	-147.17	-316.85	7.50	841.83
95	-112.82	6923.77	144.33	338.02	3.33	547.95
96	196.95	7126.07	-146.75	-309.63	-2.51	-668.64
97	336.94	7187.92	144.75	345.24	-6.67	-962.52
98	-31.18	6987.37	-378.48	-1048.58	-1.92	94.07
99	108.80	7049.22	-86.98	-393.70	-6.08	-199.81
100	-24.66	7000.61	84.55	422.09	6.91	79.12
101	115.32	7062.46	376.05	1076.97	2.74	-214.76
102	-209.45	6562.01	-146.19	-315.68	6.47	694.57
103	-69.46	6623.85	145.31	339.20	2.31	400.69
104	150.36	6773.32	-145.85	-309.90	-1.53	-513.80
105	290.34	6835.17	145.65	344.97	-5.69	-807.68
106	-32.15	6662.37	-331.23	-901.06	-1.06	96.36
107	107.83	6724.22	-39.73	-246.19	-5.22	-197.51
108	-26.94	6672.96	39.19	275.48	6.00	84.41
109	113.05	6734.81	330.69	930.35	1.84	-209.47
110	-79.28	5345.36	-142.39	-311.90	2.21	241.82
111	60.70	5407.21	149.11	342.97	-1.96	-52.05
112	8.45	5379.30	-141.72	-309.04	0.92	-34.83
113	148.44	5441.14	149.78	345.83	-3.24	-328.71
114	-36.17	5361.61	-179.71	-425.69	1.88	105.69
115	103.82	5423.46	111.79	229.18	-2.28	-188.19
116	-35.86	5363.13	-103.38	-193.74	3.07	105.38
117	104.12	5424.98	188.12	461.13	-1.10	-188.50
118	-71.18	6977.00	-147.10	-314.15	2.31	222.86
119	68.80	7038.85	144.40	340.72	-1.85	-71.02
120	16.56	7010.94	-146.43	-311.29	1.03	-53.80
121	156.54	7072.78	145.07	343.58	-3.14	-347.67
122	-28.07	6993.25	-184.42	-427.94	1.99	86.73
123	111.92	7055.10	107.08	226.93	-2.18	-207.15
124	-27.76	6994.77	-108.09	-195.99	3.17	86.42
125	112.22	7056.62	183.41	458.88	-0.99	-207.46
126	-64.15	6654.07	-146.13	-313.52	2.33	199.40
127	75.84	6715.92	145.37	341.35	-1.84	-94.48
128	6.04	6681.22	-145.59	-311.23	1.30	-21.93
129	146.03	6743.07	145.90	343.64	-2.86	-315.80
130	-29.66	6667.07	-175.99	-404.55	2.07	90.49
131	110.33	6728.92	115.51	250.32	-2.10	-203.39
132	-29.41	6668.28	-114.92	-218.99	3.02	90.24
133	110.57	6730.13	176.58	435.88	-1.15	-203.63
29 84	-21.97	4233.87	-342.28	-612.78	10.39	52.79
85	51.12	4225.81	196.43	383.55	-10.25	-88.05
86	-140.31	3509.52	-328.90	-589.15	13.47	418.04
87	-67.22	3501.46	209.81	407.18	-7.17	277.20
88	91.72	3493.88	-322.05	-576.51	7.27	-298.29
89	164.82	3485.82	216.66	419.82	-13.37	-439.13
90	-34.55	3829.84	-440.96	-945.06	7.47	91.22
91	38.54	3821.77	97.75	51.28	-13.17	-49.62
92	-14.04	3173.57	-209.99	-220.61	13.27	28.53
93	59.05	3165.50	328.72	775.73	-7.37	-112.31
94	-137.99	4241.69	-345.70	-619.10	13.49	410.95
95	-64.90	4233.63	193.00	377.23	-7.15	270.11
96	94.05	4226.05	-338.85	-606.46	7.29	-305.38
97	167.14	4217.99	199.85	389.87	-13.35	-446.22

98	-32.23	4562.01	-457.76	-975.01	7.49	84.13
99	40.86	4553.94	80.94	21.33	-13.15	-56.71
100	-11.72	3905.74	-226.79	-250.55	13.29	21.44
101	61.37	3897.67	311.91	745.78	-7.35	-119.40
102	-115.25	4093.69	-341.66	-611.85	12.87	340.74
103	-42.16	4085.63	197.05	384.49	-7.78	199.90
104	70.38	4081.18	-336.18	-601.74	7.91	-232.33
105	143.47	4073.12	202.53	394.60	-12.74	-373.17
106	-30.64	4349.95	-431.30	-896.58	8.07	79.28
107	42.45	4341.88	107.40	99.76	-12.58	-61.56
108	-14.23	3824.93	-246.53	-317.01	12.71	29.13
109	58.86	3816.87	292.18	679.33	-7.94	-111.71
110	-43.74	3502.85	-326.11	-584.02	11.19	117.98
111	29.35	3494.79	212.60	412.32	-9.46	-22.86
112	-4.17	3500.51	-324.61	-581.10	10.00	-0.35
113	68.92	3492.45	214.10	415.23	-10.65	-141.19
114	-25.88	3539.82	-344.15	-639.33	9.77	64.68
115	47.21	3531.76	194.56	357.01	-10.87	-76.16
116	-22.68	3463.68	-302.69	-520.33	11.05	54.98
117	50.41	3455.62	236.02	476.00	-9.59	-85.86
118	-41.42	4235.02	-342.91	-613.97	11.21	110.89
119	31.68	4226.96	195.79	382.37	-9.44	-29.95
120	-1.85	4232.68	-341.41	-611.05	10.02	-7.44
121	71.24	4224.62	197.29	385.28	-10.63	-148.28
122	-23.56	4271.99	-360.95	-669.28	9.80	57.59
123	49.53	4263.93	177.76	327.06	-10.85	-83.25
124	-20.36	4195.85	-319.49	-550.28	11.07	47.89
125	52.73	4187.79	219.22	446.05	-9.57	-92.95
126	-37.99	4088.36	-339.42	-607.74	11.04	100.69
127	35.10	4080.29	199.28	388.59	-9.60	-40.15
128	-6.34	4086.49	-338.22	-605.41	10.09	6.02
129	66.75	4078.42	200.48	390.93	-10.55	-134.82
130	-23.71	4117.93	-353.85	-651.99	9.91	58.05
131	49.38	4109.87	184.85	344.35	-10.73	-82.79
132	-21.15	4057.02	-320.68	-556.79	10.93	50.29
133	51.94	4048.96	218.02	439.54	-9.71	-90.55
84	37.66	1906.90	129.43	198.55	-34.71	-14.99
85	4.89	1818.40	-45.29	-129.15	38.22	-1.74
86	-6.93	1655.88	135.23	199.15	-36.77	131.19
87	-39.70	1567.38	-39.49	-128.54	36.15	144.45
88	83.93	1585.50	113.43	180.81	-33.27	-161.52
89	51.16	1497.00	-61.29	-146.88	39.65	-148.27
90	46.01	1225.23	64.92	37.62	-36.21	-29.05
91	13.25	1136.73	-109.80	-290.07	36.72	-15.80
92	30.98	2016.15	183.74	342.34	-33.83	-1.28
93	-1.79	1927.65	9.02	14.65	39.09	11.97
94	-7.77	1942.09	140.33	207.72	-36.46	131.36
95	-40.53	1853.59	-34.39	-119.98	36.46	144.62
96	83.09	1871.71	118.53	189.37	-32.95	-161.35
97	50.32	1783.21	-56.20	-138.32	39.97	-148.10
98	45.18	1511.44	70.02	46.18	-35.89	-28.88
99	12.41	1422.94	-104.70	-281.51	37.03	-15.63
100	30.14	2302.36	188.84	350.91	-33.52	-1.11
101	-2.62	2213.86	14.11	23.21	39.40	12.14
102	1.48	1877.81	137.13	204.17	-36.17	102.06
103	-31.28	1789.31	-37.59	-123.52	36.75	115.31
104	74.17	1821.50	119.69	189.50	-33.37	-132.11
105	41.41	1733.01	-55.03	-138.20	39.55	-118.86
106	43.84	1533.29	80.88	74.94	-35.72	-26.14

	107	11.07	1444.79	-93.84	-252.75	37.20	-12.88
	108	31.81	2166.02	175.94	318.72	-33.82	-3.92
	109	-0.95	2077.53	1.21	-8.97	39.10	9.33
	110	31.51	1625.52	125.82	191.14	-35.60	6.27
	111	-1.26	1537.03	-48.90	-136.55	37.32	19.53
	112	43.21	1616.30	123.02	188.54	-34.22	-29.96
	113	10.45	1527.80	-51.71	-139.15	38.70	-16.71
	114	39.31	1574.65	110.57	160.35	-34.83	-16.60
	115	6.54	1486.15	-64.15	-167.35	38.09	-3.34
	116	37.53	1666.15	135.05	214.97	-35.02	-13.36
	117	4.76	1577.65	-39.67	-112.72	37.91	-0.10
	118	30.67	1911.73	130.92	199.71	-35.29	6.44
	119	-2.09	1823.24	-43.80	-127.99	37.64	19.70
	120	42.38	1902.51	128.11	197.11	-33.90	-29.79
	121	9.61	1814.01	-46.61	-130.59	39.02	-16.54
	122	38.47	1860.85	115.67	168.91	-34.51	-16.43
	123	5.71	1772.36	-59.05	-158.78	38.41	-3.17
	124	36.69	1952.36	140.15	223.53	-34.70	-13.19
	125	3.93	1863.86	-34.57	-104.16	38.22	0.07
	126	32.24	1853.52	129.60	197.76	-35.23	2.12
	127	-0.53	1765.03	-45.12	-129.93	37.69	15.37
	128	41.60	1846.14	127.36	195.68	-34.13	-26.87
	129	8.84	1757.65	-47.37	-132.01	38.79	-13.61
	130	38.48	1812.82	117.40	173.12	-34.62	-16.17
	131	5.71	1724.33	-57.32	-154.57	38.31	-2.92
	132	37.05	1886.02	136.99	216.82	-34.77	-13.58
	133	4.29	1797.53	-37.74	-110.87	38.16	-0.33
31	84	-208.13	1564.30	233.38	426.66	1.26	355.72
	85	148.29	1485.23	-180.15	-356.48	-0.89	-283.44
	86	-286.96	1465.00	220.39	396.16	2.27	671.83
	87	69.46	1385.93	-193.14	-386.98	0.12	32.67
	88	-125.66	1246.17	234.04	437.70	0.34	31.45
	89	230.76	1167.09	-179.49	-345.44	-1.81	-607.71
	90	-198.26	1139.68	142.66	140.25	-2.78	327.39
	91	158.15	1060.61	-270.87	-642.89	-4.93	-311.77
	92	-214.35	1571.48	311.77	693.61	5.39	375.88
	93	142.06	1492.41	-101.76	-89.53	3.24	-263.28
	94	-288.78	1673.72	226.56	405.89	2.22	675.91
	95	67.64	1594.65	-186.97	-377.25	0.07	36.75
	96	-127.48	1454.89	240.21	447.43	0.29	35.53
	97	228.94	1375.81	-173.32	-335.71	-1.86	-603.63
	98	-200.08	1348.40	148.83	149.98	-2.83	331.47
	99	156.33	1269.33	-264.70	-633.16	-4.98	-307.69
	100	-216.18	1780.20	317.94	703.34	5.34	379.96
	101	140.24	1701.13	-95.59	-79.80	3.19	-259.20
	102	-272.29	1610.09	226.69	408.09	2.04	611.05
	103	84.13	1531.02	-186.84	-375.04	-0.11	-28.11
	104	-143.25	1435.03	237.61	441.33	0.49	98.75
	105	213.17	1355.95	-175.92	-341.81	-1.66	-540.41
	106	-201.33	1349.84	164.50	203.37	-2.00	335.51
	107	155.09	1270.77	-249.03	-579.77	-4.15	-303.65
	108	-214.20	1695.28	299.80	646.06	4.53	374.30
	109	142.21	1616.21	-113.73	-137.08	2.38	-264.86
	110	-218.79	1367.29	226.64	415.28	0.98	398.30
	111	137.63	1288.21	-186.89	-367.86	-1.17	-240.86
	112	-197.77	1345.92	227.14	416.21	2.13	319.21
	113	158.65	1266.85	-186.39	-366.92	-0.02	-319.95
	114	-205.60	1331.33	213.01	374.87	0.24	349.15
	115	150.82	1252.26	-200.52	-408.27	-1.92	-290.01

	116	-207.30	1379.96	239.79	456.38	2.19	354.85
	117	149.12	1300.89	-173.74	-326.76	0.04	-284.31
	118	-220.61	1576.01	232.81	425.01	0.93	402.38
	119	135.81	1496.93	-180.72	-358.13	-1.22	-236.78
	120	-199.59	1554.64	233.31	425.94	2.08	323.29
	121	156.82	1475.57	-180.22	-357.19	-0.07	-315.87
	122	-207.42	1540.05	219.18	384.60	0.19	353.23
	123	149.00	1460.98	-194.35	-398.54	-1.96	-285.93
	124	-209.12	1588.68	245.96	466.11	2.14	358.93
	125	147.30	1509.61	-167.57	-317.03	-0.01	-280.23
	126	-217.75	1531.92	231.69	423.40	1.01	392.23
	127	138.67	1452.85	-181.84	-359.74	-1.14	-246.93
	128	-200.94	1514.83	232.09	424.14	1.92	328.96
	129	155.48	1435.76	-181.44	-359.00	-0.23	-310.20
	130	-207.20	1503.16	220.79	391.07	0.41	352.92
	131	149.22	1424.08	-192.74	-392.07	-1.74	-286.25
	132	-208.56	1542.06	242.21	456.27	1.98	357.47
	133	147.86	1462.99	-171.32	-326.86	-0.18	-281.69
32	84	-426.36	4023.78	273.90	599.92	-22.63	789.32
	85	237.68	4027.70	-168.41	-420.09	15.83	-533.12
	86	-600.51	3760.21	248.27	531.56	-20.45	1483.32
	87	63.53	3764.13	-194.04	-488.46	18.01	160.89
	88	-213.27	2832.30	274.13	617.74	-23.01	25.17
	89	450.77	2836.22	-168.18	-402.28	15.45	-1297.27
	90	-402.83	3271.10	89.72	-9.98	-26.37	728.71
	91	261.21	3275.02	-352.59	-1029.99	12.10	-593.72
	92	-410.95	3321.41	432.68	1159.27	-17.09	779.78
	93	253.09	3325.33	-9.63	139.26	21.37	-542.65
	94	-619.98	4487.74	260.97	556.83	-21.35	1518.39
	95	44.06	4491.66	-181.34	-463.19	17.12	195.96
	96	-232.74	3559.82	286.83	643.01	-23.91	60.24
	97	431.30	3563.74	-155.48	-377.00	14.55	-1262.20
	98	-422.31	3998.62	102.42	15.29	-27.26	763.78
	99	241.74	4002.54	-339.89	-1004.72	11.20	-558.65
	100	-430.42	4048.94	445.38	1184.54	-17.99	814.85
	101	233.62	4052.85	3.07	164.53	20.47	-507.59
	102	-577.36	4249.44	261.02	560.39	-21.42	1365.56
	103	86.68	4253.36	-181.30	-459.62	17.04	43.13
	104	-267.57	3507.11	281.71	629.34	-23.47	199.04
	105	396.47	3511.03	-160.60	-390.68	14.99	-1123.39
	106	-419.22	3858.15	134.18	127.16	-26.16	761.87
	107	244.82	3862.07	-308.13	-892.85	12.31	-560.56
	108	-425.71	3898.40	408.55	1062.56	-18.74	802.73
	109	238.33	3902.32	-33.77	42.55	19.72	-519.71
	110	-437.00	3346.75	260.11	571.15	-21.08	862.08
	111	227.04	3350.67	-182.20	-448.86	17.38	-460.36
	112	-380.38	3256.83	260.16	571.47	-17.10	665.29
	113	283.66	3260.75	-182.15	-448.55	21.36	-657.15
	114	-406.36	3294.74	234.72	490.14	-23.94	750.89
	115	257.69	3298.66	-207.59	-529.87	14.53	-571.55
	116	-407.44	3298.09	286.47	657.58	-20.18	757.63
	117	256.60	3302.00	-155.85	-362.43	18.28	-564.81
	118	-456.47	4074.28	272.82	596.42	-21.98	897.15
	119	207.57	4078.20	-169.50	-423.59	16.48	-425.29
	120	-399.86	3984.35	272.86	596.74	-18.00	700.36
	121	264.19	3988.27	-169.45	-423.28	20.47	-622.08
	122	-425.83	4022.27	247.42	515.42	-24.83	785.96
	123	238.21	4026.19	-194.89	-504.60	13.63	-536.48
	124	-426.91	4025.61	299.17	682.85	-21.08	792.70

125	237.13	4029.53	-143.15	-337.16	17.39	-529.74
126	-446.56	3918.67	270.49	592.07	-21.93	868.57
127	217.49	3922.59	-171.82	-427.94	16.53	-453.87
128	-401.26	3846.73	270.53	592.32	-18.74	711.14
129	262.78	3850.65	-171.78	-427.69	19.72	-611.30
130	-422.04	3877.06	250.18	527.26	-24.21	779.61
131	242.00	3880.98	-192.13	-492.75	14.25	-542.82
132	-422.91	3879.74	291.57	661.21	-21.21	785.01
133	241.14	3883.66	-150.74	-358.80	17.26	-537.43
84	-299.99	4621.60	24.84	58.05	-0.72	507.78
85	146.96	4628.86	-11.59	-36.54	0.24	-278.80
86	-395.83	4029.77	14.43	29.57	0.81	857.70
87	51.12	4037.02	-22.00	-65.02	1.77	71.12
88	-162.55	3273.16	31.08	79.80	-2.44	76.86
89	284.40	3280.41	-5.36	-14.79	-1.48	-709.73
90	-276.84	3674.85	-89.90	-281.40	-3.37	459.47
91	170.11	3682.10	-126.33	-375.99	-2.40	-327.11
92	-281.54	3628.08	135.40	390.76	1.73	475.09
93	165.41	3635.33	98.97	296.17	2.70	-311.49
94	-416.63	4999.91	16.52	32.93	0.90	898.21
95	30.32	5007.16	-19.91	-61.65	1.87	111.62
96	-183.35	4243.30	33.17	83.16	-2.35	117.36
97	263.60	4250.55	-3.26	-11.42	-1.38	-669.23
98	-297.64	4644.99	-87.80	-278.03	-3.27	499.97
99	149.31	4652.24	-124.23	-372.62	-2.31	-286.61
100	-302.34	4598.22	137.49	394.13	1.83	515.59
101	144.61	4605.47	101.06	299.54	2.79	-270.99
102	-389.14	4730.22	17.77	37.28	0.56	812.02
103	57.81	4737.47	-18.66	-57.30	1.52	25.44
104	-202.51	4124.93	31.09	77.47	-2.04	187.34
105	244.43	4132.18	-5.35	-17.12	-1.08	-599.24
106	-293.95	4446.28	-65.69	-211.49	-2.78	493.43
107	153.00	4453.54	-102.12	-306.08	-1.82	-293.15
108	-297.71	4408.87	114.54	326.24	1.30	505.93
109	149.24	4416.12	78.11	231.65	2.27	-280.65
110	-296.43	3690.79	22.08	52.68	-1.07	520.57
111	150.51	3698.04	-14.35	-41.91	-0.11	-266.01
112	-249.89	3600.53	22.21	53.17	-0.30	382.67
113	197.06	3607.78	-14.22	-41.41	0.67	-403.91
114	-278.82	3653.57	6.44	7.46	-1.63	466.05
115	168.13	3660.82	-29.99	-87.13	-0.67	-320.53
116	-279.52	3649.23	39.34	102.60	-0.01	468.37
117	167.43	3656.48	2.90	8.02	0.96	-318.22
118	-317.23	4660.93	24.17	56.04	-0.98	561.08
119	129.72	4668.18	-12.26	-38.54	-0.01	-225.51
120	-270.69	4570.67	24.30	56.54	-0.20	423.17
121	176.26	4577.93	-12.13	-38.05	0.76	-363.41
122	-299.61	4623.71	8.54	10.83	-1.54	506.55
123	147.33	4630.96	-27.89	-83.76	-0.57	-280.03
124	-300.32	4619.37	41.43	105.97	0.09	508.87
125	146.63	4626.62	5.00	11.38	1.05	-277.71
126	-309.62	4459.04	23.89	55.77	-0.94	542.32
127	137.32	4466.29	-12.54	-38.82	0.02	-244.27
128	-272.39	4386.83	23.99	56.17	-0.33	431.99
129	174.56	4394.08	-12.44	-38.42	0.64	-354.59
130	-295.53	4429.26	11.38	19.60	-1.39	498.70
131	151.42	4436.51	-25.05	-74.99	-0.43	-287.89
132	-296.10	4425.79	37.69	95.71	-0.09	500.55
133	150.85	4433.04	1.26	1.13	0.87	-286.03

34	84	-315.45	4781.17	-78.47	-168.72	-5.03	543.11
	85	147.16	4789.64	64.68	154.36	6.19	-284.61
	86	-414.42	4179.84	-85.25	-193.30	-2.50	892.72
	87	48.18	4188.31	57.89	129.78	8.73	65.01
	88	-177.87	3471.62	-68.17	-142.18	-8.20	119.05
	89	284.74	3480.09	74.98	180.90	3.03	-708.67
	90	-297.81	3795.24	-189.82	-505.02	-8.06	510.11
	91	164.79	3803.71	-46.67	-181.95	3.17	-317.61
	92	-294.47	3856.22	36.40	169.55	-2.64	501.66
	93	168.13	3864.69	179.55	492.62	8.59	-326.05
	94	-433.72	5135.28	-87.01	-194.28	-2.19	929.94
	95	28.88	5143.75	56.13	128.80	9.04	102.23
	96	-197.17	4427.07	-69.93	-143.16	-7.88	156.27
	97	265.44	4435.53	73.22	179.92	3.34	-671.44
	98	-317.12	4750.68	-191.58	-506.00	-7.74	547.33
	99	145.49	4759.15	-48.43	-182.92	3.48	-280.38
	100	-313.77	4811.67	34.64	168.57	-2.33	538.88
	101	148.83	4820.13	177.79	491.65	8.90	-288.83
	102	-406.21	4873.37	-84.95	-188.97	-2.82	845.13
	103	56.40	4881.84	58.19	134.11	8.41	17.42
	104	-216.96	4306.80	-71.29	-148.07	-7.38	226.19
	105	245.64	4315.27	71.86	175.01	3.85	-601.52
	106	-312.92	4565.69	-168.61	-438.35	-7.27	539.04
	107	149.68	4574.16	-25.46	-115.27	3.96	-288.67
	108	-310.25	4614.48	12.37	101.31	-2.93	532.28
	109	152.36	4622.95	155.52	424.39	8.30	-295.43
	110	-318.17	3871.79	-77.41	-169.81	-5.28	574.64
	111	144.44	3880.26	65.74	153.27	5.94	-253.07
	112	-268.24	3779.21	-77.15	-168.96	-6.20	427.83
	113	194.37	3787.68	66.00	154.12	5.03	-399.88
	114	-296.22	3822.50	-92.88	-214.72	-6.16	506.00
	115	166.39	3830.97	50.27	108.36	5.07	-321.71
	116	-296.07	3828.98	-59.68	-118.90	-4.57	505.75
	117	166.54	3837.45	83.47	204.18	6.66	-321.96
	118	-337.47	4827.23	-79.17	-170.79	-4.97	611.86
	119	125.13	4835.70	63.98	152.29	6.26	-215.85
	120	-287.54	4734.66	-78.91	-169.94	-5.89	465.06
	121	175.07	4743.12	64.24	153.14	5.34	-362.66
	122	-315.52	4777.95	-94.64	-215.70	-5.84	543.22
	123	147.09	4786.42	48.51	107.38	5.38	-284.49
	124	-315.37	4784.42	-61.44	-119.87	-4.25	542.97
	125	147.23	4792.89	81.71	203.21	6.97	-284.74
	126	-329.20	4626.93	-78.68	-170.18	-5.05	590.67
	127	133.40	4635.40	64.47	152.90	6.18	-237.04
	128	-289.26	4552.87	-78.47	-169.50	-5.78	473.22
	129	173.34	4561.34	64.68	153.58	5.45	-354.49
	130	-311.64	4587.51	-91.05	-206.11	-5.74	535.75
	131	150.96	4595.97	52.10	116.97	5.48	-291.96
	132	-311.52	4592.68	-64.50	-129.45	-4.47	535.56
	133	151.08	4601.15	78.65	193.63	6.75	-292.16
35	84	-394.49	3156.40	-459.31	-925.63	-0.52	765.83
	85	253.32	3081.68	307.39	690.49	3.57	-539.49
	86	-563.33	2998.24	-456.96	-945.39	8.21	1392.46
	87	84.48	2923.52	309.74	670.73	12.30	87.14
	88	-198.94	2322.73	-428.38	-850.06	-10.67	94.30
	89	448.87	2248.01	338.32	766.07	-6.58	-1211.02
	90	-397.95	2954.97	-613.16	-1487.22	-10.83	800.98
	91	249.85	2880.25	153.54	128.90	-6.74	-504.33
	92	-364.31	2366.00	-272.18	-308.23	8.37	685.77

93	283.50	2291.28	494.52	1307.89	12.46	-619.54
94	-576.68	3494.16	-473.60	-973.30	8.92	1414.91
95	71.12	3419.44	293.10	642.82	13.01	109.59
96	-212.30	2818.65	-445.02	-877.97	-9.96	116.75
97	435.51	2743.93	321.68	738.16	-5.86	-1188.56
98	-411.31	3450.89	-629.80	-1515.13	-10.12	823.44
99	236.49	3376.17	136.90	100.99	-6.03	-481.88
100	-377.67	2861.92	-288.82	-336.14	9.08	708.22
101	270.14	2787.20	477.88	1279.98	13.18	-597.09
102	-537.57	3327.42	-467.41	-958.19	6.89	1280.60
103	110.23	3252.70	299.29	657.94	10.98	-24.71
104	-246.07	2787.01	-444.55	-881.92	-8.21	242.08
105	401.74	2712.29	322.15	734.21	-4.12	-1063.24
106	-405.28	3292.81	-592.37	-1391.65	-8.34	807.42
107	242.53	3218.09	174.33	224.47	-4.25	-497.89
108	-378.36	2821.63	-319.59	-448.46	7.02	715.25
109	269.45	2746.91	447.11	1167.67	11.11	-590.06
110	-411.60	2702.04	-443.98	-901.95	0.85	848.17
111	236.21	2627.32	322.72	714.17	4.95	-457.15
112	-346.26	2620.03	-443.04	-899.23	-3.09	629.79
113	301.55	2545.31	323.66	716.89	1.00	-675.52
114	-383.78	2692.61	-467.27	-979.87	-3.57	752.28
115	264.02	2617.90	299.43	636.26	0.53	-553.03
116	-378.42	2628.07	-414.25	-808.51	1.36	734.27
117	269.39	2553.35	352.45	807.61	5.45	-571.04
118	-424.96	3197.95	-460.62	-929.86	1.56	870.62
119	222.85	3123.23	306.08	686.27	5.66	-434.69
120	-359.62	3115.94	-459.68	-927.14	-2.38	652.24
121	288.19	3041.22	307.02	688.98	1.72	-653.07
122	-397.14	3188.53	-483.90	-1007.78	-2.85	774.74
123	250.67	3113.81	282.79	608.35	1.24	-530.58
124	-391.77	3123.99	-430.89	-836.42	2.07	756.72
125	256.03	3049.27	335.81	779.70	6.16	-548.59
126	-416.19	3090.46	-457.03	-923.43	1.01	845.17
127	231.61	3015.74	309.67	692.69	5.10	-460.14
128	-363.92	3024.85	-456.28	-921.26	-2.15	670.47
129	283.89	2950.13	310.42	694.86	1.95	-634.84
130	-393.94	3082.92	-475.66	-985.77	-2.53	768.46
131	253.87	3008.20	291.04	630.36	1.56	-536.85
132	-389.65	3031.29	-433.25	-848.68	1.41	754.05
133	258.16	2956.57	333.45	767.44	5.50	-551.26

***** END OF LATEST ANALYSIS RESULT *****

959. LOAD LIST 10 TO 83

960. START CONCRETE DESIGN

└CONCRETE DESIGN┐

961. CODE INDIAN

962. UNIT MMS NEWTON

963. FYMAIN 500 ALL

964. FYSEC 415 ALL

965. FC 30 MEMB 1 TO 35 101 TO 135 201 TO 235 301 TO 335 401 TO 435 501 TO 535

966. FC 25 MEMB 1001 TO 2076

967. TORSION 0 ALL

968. RFACE 3 MEMB 1 TO 6 8 10 12 21 TO 23 25 TO 35 101 TO 106 108 110 112 -

969. 121 TO 123 125 TO 135 201 TO 206 208 210 212 221 TO 223 225 TO 235 -

970. 301 TO 306 308 310 312 321 TO 323 325 TO 335 401 TO 406 408 410 412 -

971. 421 TO 423 425 TO 435 501 TO 506 508 510 512 521 TO 523 525 TO 535

972. RFACE 2 MEMB 7 9 11 13 TO 20 24 107 109 111 113 TO 120 124 207 209 211 213 -

973. 214 TO 220 224 307 309 311 313 TO 320 324 407 409 411 413 TO 420 424 507 509 -

974. 511 513 TO 520 524

975. DESIGN COLUMN 1 TO 35 101 TO 135 201 TO 235 301 TO 335 401 TO 435 501 TO 535

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=====
      C O L U M N   N O.      1   D E S I G N   R E S U L T S
      M30                      Fe500 (Main)          Fe415 (Sec.)
LENGTH: 2750.0 mm  CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm
** GUIDING LOAD CASE: 42 END JOINT: 136 SHORT COLUMN
REQD. STEEL AREA   : 1132.90 Sq.mm.
REQD. CONCRETE AREA: 141612.97 Sq.mm.
MAIN REINFORCEMENT : Provide 6 - 16 dia. (0.34%, 1206.37 Sq.mm.)
                      (Equally distributed about Y axis)
TIE REINFORCEMENT  : Provide 8 mm dia. rectangular ties @ 255 mm c/c
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)
-----
Puz : 5269.54  Muz1 : 393.34  Muy1 : 459.39
INTERACTION RATIO: 0.24 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
-----

WORST LOAD CASE: 57
END JOINT: 136 Puz : 5296.10  Muz : 305.03  Muy : 314.30  IR: 0.65
=====
      C O L U M N   N O.      2   D E S I G N   R E S U L T S
      M30                      Fe500 (Main)          Fe415 (Sec.)
LENGTH: 2750.0 mm  CROSS SECTION: 900.0 mm X 900.0 mm COVER: 40.0 mm
** GUIDING LOAD CASE: 10 END JOINT: 158 SHORT COLUMN
REQD. STEEL AREA   : 2869.14 Sq.mm.
REQD. CONCRETE AREA: 358642.44 Sq.mm.
MAIN REINFORCEMENT : Provide 26 - 12 dia. (0.36%, 2940.53 Sq.mm.)
                      (Equally distributed about Y axis)
TIE REINFORCEMENT  : Provide 8 mm dia. rectangular ties @ 190 mm c/c
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)
-----
Puz : 11972.19  Muz1 : 1381.32  Muy1 : 1646.63
INTERACTION RATIO: 0.11 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
-----

WORST LOAD CASE: 48
END JOINT: 158 Puz : 11998.00  Muz : 1058.01  Muy : 1215.09  IR: 0.70
=====
      C O L U M N   N O.      3   D E S I G N   R E S U L T S
      M30                      Fe500 (Main)          Fe415 (Sec.)
LENGTH: 2750.0 mm  CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm
** GUIDING LOAD CASE: 10 END JOINT: 262 SHORT COLUMN
REQD. STEEL AREA   : 4320.00 Sq.mm.
REQD. CONCRETE AREA: 355680.00 Sq.mm.
MAIN REINFORCEMENT : Provide 14 - 20 dia. (1.22%, 4398.23 Sq.mm.)
                      (Equally distributed about Y axis)
TIE REINFORCEMENT  : Provide 8 mm dia. rectangular ties @ 300 mm c/c
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)
-----
Puz : 6421.68  Muz1 : 296.64  Muy1 : 378.57
INTERACTION RATIO: 0.88 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
-----

WORST LOAD CASE: 10
END JOINT: 160 Puz : 5740.63  Muz : 0.00  Muy : 0.00  IR: 0.87
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      C O L U M N   N O.      4   D E S I G N   R E S U L T S
      M30                      Fe500 (Main)                      Fe415 (Sec.)
LENGTH: 2750.0 mm  CROSS SECTION: 600.0 mm X 600.0 mm  COVER: 40.0 mm
** GUIDING LOAD CASE: 10 END JOINT: 288 SHORT COLUMN
REQD. STEEL AREA : 3623.99 Sq.mm.
REQD. CONCRETE AREA: 356376.00 Sq.mm.
MAIN REINFORCEMENT : Provide 12 - 20 dia. (1.05%, 3769.91 Sq.mm.)
                      (Equally distributed about Y axis)
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 300 mm c/c
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)
-----
Puz : 6170.07  Muz1 : 302.96  Muy1 : 375.76
INTERACTION RATIO: 0.90 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
-----
WORST LOAD CASE: 10
END JOINT: 185 Puz : 5537.68  Muz : 0.00  Muy : 0.00  IR: 0.85
=====
      C O L U M N   N O.      5   D E S I G N   R E S U L T S
      M30                      Fe500 (Main)                      Fe415 (Sec.)
LENGTH: 2750.0 mm  CROSS SECTION: 750.0 mm X 750.0 mm  COVER: 40.0 mm
** GUIDING LOAD CASE: 10 END JOINT: 183 SHORT COLUMN
REQD. STEEL AREA : 1710.43 Sq.mm.
REQD. CONCRETE AREA: 213804.30 Sq.mm.
MAIN REINFORCEMENT : Provide 16 - 12 dia. (0.32%, 1809.56 Sq.mm.)
                      (Equally distributed about Y axis)
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)
-----
Puz : 8212.07  Muz1 : 764.63  Muy1 : 890.58
INTERACTION RATIO: 0.12 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
-----
WORST LOAD CASE: 30
END JOINT: 286 Puz : 8247.91  Muz : 763.47  Muy : 888.27  IR: 0.93
=====
      C O L U M N   N O.      6   D E S I G N   R E S U L T S
      M30                      Fe500 (Main)                      Fe415 (Sec.)
LENGTH: 2750.0 mm  CROSS SECTION: 300.0 mm X 600.0 mm  COVER: 40.0 mm
** GUIDING LOAD CASE: 38 END JOINT: 240 SHORT COLUMN
REQD. STEEL AREA : 1640.75 Sq.mm.
REQD. CONCRETE AREA: 178359.25 Sq.mm.
MAIN REINFORCEMENT : Provide 16 - 12 dia. (1.01%, 1809.56 Sq.mm.)
                      (Equally distributed about Y axis)
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)
-----
Puz : 3023.13  Muz1 : 193.64  Muy1 : 109.31
INTERACTION RATIO: 0.97 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
-----
WORST LOAD CASE: 38
END JOINT: 240 Puz : 3084.16  Muz : 203.99  Muy : 114.79  IR: 0.89
=====
      C O L U M N   N O.      7   D E S I G N   R E S U L T S

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M30                      Fe500 (Main)                      Fe415 (Sec.)
LENGTH: 2750.0 mm  CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm
** GUIDING LOAD CASE: 11 END JOINT: 169 SHORT COLUMN
REQD. STEEL AREA : 2713.48 Sq.mm.
REQD. CONCRETE AREA: 339185.16 Sq.mm.
MAIN REINFORCEMENT : Provide 24 - 12 dia. (0.75%, 2714.34 Sq.mm.)
                      (Equally distributed about Z axis)
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)
-----
Puz : 5840.92  Muz1 : 318.97  Muy1 : 264.72
INTERACTION RATIO: 0.33 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
-----
WORST LOAD CASE: 11
END JOINT: 169 Puz : 5196.73  Muz : 0.00  Muy : 0.00  IR: 0.87
=====
C O L U M N  N O.      8  D E S I G N  R E S U L T S
M30                      Fe500 (Main)                      Fe415 (Sec.)
LENGTH: 2750.0 mm  CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm
** GUIDING LOAD CASE: 11 END JOINT: 264 SHORT COLUMN
REQD. STEEL AREA : 3744.00 Sq.mm.
REQD. CONCRETE AREA: 356256.00 Sq.mm.
MAIN REINFORCEMENT : Provide 12 - 20 dia. (1.05%, 3769.91 Sq.mm.)
                      (Equally distributed about Y axis)
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 300 mm c/c
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)
-----
Puz : 6213.46  Muz1 : 271.41  Muy1 : 336.83
INTERACTION RATIO: 0.87 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
-----
WORST LOAD CASE: 11
END JOINT: 162 Puz : 5537.68  Muz : 0.00  Muy : 0.00  IR: 0.89
=====
C O L U M N  N O.      9  D E S I G N  R E S U L T S
M30                      Fe500 (Main)                      Fe415 (Sec.)
LENGTH: 2750.0 mm  CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm
** GUIDING LOAD CASE: 10 END JOINT: 194 SHORT COLUMN
REQD. STEEL AREA : 1550.56 Sq.mm.
REQD. CONCRETE AREA: 193819.45 Sq.mm.
MAIN REINFORCEMENT : Provide 14- 12 dia. (0.44%, 1583.36 Sq.mm.)
                      (Equally distributed about Z axis)
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)
-----
Puz : 5420.53  Muz1 : 484.26  Muy1 : 409.39
INTERACTION RATIO: 0.12 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
-----
WORST LOAD CASE: 55
END JOINT: 297 Puz : 5432.39  Muz : 354.32  Muy : 315.62  IR: 0.93
=====
C O L U M N  N O.      10  D E S I G N  R E S U L T S
M30                      Fe500 (Main)                      Fe415 (Sec.)
LENGTH: 2750.0 mm  CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm

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** GUIDING LOAD CASE: 39 END JOINT: 298 SHORT COLUMN

REQD. STEEL AREA : 2995.93 Sq.mm.

REQD. CONCRETE AREA: 357004.06 Sq.mm.

MAIN REINFORCEMENT : Provide 10 - 20 dia. (0.87%, 3141.59 Sq.mm.)
(Equally distributed about Y axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 300 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 5943.03 Muz1 : 427.80 Muy1 : 536.02

INTERACTION RATIO: 0.97 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 39

END JOINT: 298 Puz : 5995.69 Muz : 450.68 Muy : 544.98 IR: 0.94

C O L U M N N O. 11 D E S I G N R E S U L T S
M30 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2750.0 mm CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 40 END JOINT: 301 SHORT COLUMN

REQD. STEEL AREA : 2754.22 Sq.mm.

REQD. CONCRETE AREA: 344277.53 Sq.mm.

MAIN REINFORCEMENT : Provide 14 - 16 dia. (0.78%, 2814.87 Sq.mm.)
(Equally distributed about Z axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 255 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 5855.65 Muz1 : 521.58 Muy1 : 421.14

INTERACTION RATIO: 1.00 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 40

END JOINT: 301 Puz : 5877.57 Muz : 525.34 Muy : 429.23 IR: 0.98

C O L U M N N O. 12 D E S I G N R E S U L T S
M30 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2750.0 mm CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 10 END JOINT: 181 SHORT COLUMN

REQD. STEEL AREA : 1408.40 Sq.mm.

REQD. CONCRETE AREA: 176050.23 Sq.mm.

MAIN REINFORCEMENT : Provide 14 - 12 dia. (0.44%, 1583.36 Sq.mm.)
(Equally distributed about Y axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 5369.14 Muz1 : 409.43 Muy1 : 485.72

INTERACTION RATIO: 0.12 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 49

END JOINT: 284 Puz : 5432.39 Muz : 360.47 Muy : 417.35 IR: 0.68

C O L U M N N O. 13 D E S I G N R E S U L T S
M30 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2750.0 mm CROSS SECTION: 300.0 mm X 600.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 10 END JOINT: 302 SHORT COLUMN

REQD. STEEL AREA : 3024.00 Sq.mm.

REQD. CONCRETE AREA: 176976.00 Sq.mm.

MAIN REINFORCEMENT : Provide 10 - 20 dia. (1.75%, 3141.59 Sq.mm.)
(Equally distributed about Z axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 300 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 3523.18 Muz1 : 222.05 Muy1 : 75.85

INTERACTION RATIO: 0.97 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 10

END JOINT: 302 Puz : 3565.69 Muz : 232.07 Muy : 81.81 IR: 0.86

C O L U M N N O. 14 D E S I G N R E S U L T S
M30 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2750.0 mm CROSS SECTION: 300.0 mm X 600.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 45 END JOINT: 265 SHORT COLUMN

REQD. STEEL AREA : 1226.12 Sq.mm.

REQD. CONCRETE AREA: 153264.89 Sq.mm.

MAIN REINFORCEMENT : Provide 4 - 20 dia. (0.70%, 1256.64 Sq.mm.)
(Equally distributed about Z axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 300 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 2873.24 Muz1 : 265.50 Muy1 : 98.86

INTERACTION RATIO: 0.99 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 45

END JOINT: 265 Puz : 2884.27 Muz : 265.55 Muy : 117.90 IR: 0.85

C O L U M N N O. 15 D E S I G N R E S U L T S
M30 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2750.0 mm CROSS SECTION: 300.0 mm X 600.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 29 END JOINT: 303 SHORT COLUMN

REQD. STEEL AREA : 2391.29 Sq.mm.

REQD. CONCRETE AREA: 177608.70 Sq.mm.

MAIN REINFORCEMENT : Provide 8 - 20 dia. (1.40%, 2513.27 Sq.mm.)
(Equally distributed about Z axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 300 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 3294.45 Muz1 : 404.50 Muy1 : 124.57

INTERACTION RATIO: 1.00 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 29

END JOINT: 303 Puz : 3338.55 Muz : 413.31 Muy : 136.93 IR: 0.92

C O L U M N N O. 16 D E S I G N R E S U L T S
M30 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2750.0 mm CROSS SECTION: 300.0 mm X 600.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 29 END JOINT: 316 SHORT COLUMN

REQD. STEEL AREA : 1554.03 Sq.mm.

REQD. CONCRETE AREA: 178445.97 Sq.mm.

MAIN REINFORCEMENT : Provide 8 - 16 dia. (0.89%, 1608.50 Sq.mm.)

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(Equally distributed about Z axis)
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 255 mm c/c
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)
-----
Puz : 2991.78 Muz1 : 290.89 Muy1 : 105.76
INTERACTION RATIO: 0.99 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
-----
WORST LOAD CASE: 29
END JOINT: 316 Puz : 3011.47 Muz : 293.73 Muy : 111.51 IR: 0.92
=====
C O L U M N N O. 17 D E S I G N R E S U L T S
M30 Fe500 (Main) Fe415 (Sec.)
LENGTH: 2750.0 mm CROSS SECTION: 300.0 mm X 600.0 mm COVER: 40.0 mm
** GUIDING LOAD CASE: 36 END JOINT: 179 SHORT COLUMN
REQD. STEEL AREA : 760.82 Sq.mm.
REQD. CONCRETE AREA: 95102.80 Sq.mm.
MAIN REINFORCEMENT : Provide 4 - 16 dia. (0.45%, 804.25 Sq.mm.)
(Equally distributed about Z axis)
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 255 mm c/c
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)
-----
Puz : 2705.04 Muz1 : 243.02 Muy1 : 98.43
INTERACTION RATIO: 0.24 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
-----
WORST LOAD CASE: 50
END JOINT: 282 Puz : 2720.74 Muz : 209.13 Muy : 95.48 IR: 0.82
=====
C O L U M N N O. 18 D E S I G N R E S U L T S
M30 Fe500 (Main) Fe415 (Sec.)
LENGTH: 2750.0 mm CROSS SECTION: 300.0 mm X 600.0 mm COVER: 40.0 mm
** GUIDING LOAD CASE: 29 END JOINT: 268 SHORT COLUMN
REQD. STEEL AREA : 1365.15 Sq.mm.
REQD. CONCRETE AREA: 178634.84 Sq.mm.
MAIN REINFORCEMENT : Provide 8 - 16 dia. (0.89%, 1608.50 Sq.mm.)
(Equally distributed about Z axis)
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 255 mm c/c
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)
-----
Puz : 2923.50 Muz1 : 311.73 Muy1 : 108.67
INTERACTION RATIO: 0.99 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
-----
WORST LOAD CASE: 45
END JOINT: 268 Puz : 3011.47 Muz : 302.23 Muy : 113.37 IR: 0.90
=====
C O L U M N N O. 19 D E S I G N R E S U L T S
M30 Fe500 (Main) Fe415 (Sec.)
LENGTH: 2750.0 mm CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm
** GUIDING LOAD CASE: 33 END JOINT: 164 SHORT COLUMN
REQD. STEEL AREA : 1096.70 Sq.mm.
REQD. CONCRETE AREA: 137087.94 Sq.mm.
MAIN REINFORCEMENT : Provide 10 - 12 dia. (0.31%, 1130.97 Sq.mm.)
(Equally distributed about Z axis)
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c

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SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 5256.46 Muz1 : 452.29 Muy1 : 389.26

INTERACTION RATIO: 0.36 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 51

END JOINT: 164 Puz : 5268.85 Muz : 271.58 Muy : 256.39 IR: 0.79

C O L U M N N O. 20 D E S I G N R E S U L T S

M30 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2750.0 mm CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 11 END JOINT: 226 SHORT COLUMN

REQD. STEEL AREA : 1547.23 Sq.mm.

REQD. CONCRETE AREA: 193404.33 Sq.mm.

MAIN REINFORCEMENT : Provide 14 - 12 dia. (0.44%, 1583.36 Sq.mm.)

(Equally distributed about Z axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 5419.33 Muz1 : 484.34 Muy1 : 409.43

INTERACTION RATIO: 0.12 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 46

END JOINT: 330 Puz : 5432.39 Muz : 364.67 Muy : 323.13 IR: 0.90

C O L U M N N O. 21 D E S I G N R E S U L T S

M30 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2750.0 mm CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 11 END JOINT: 157 SHORT COLUMN

REQD. STEEL AREA : 2134.09 Sq.mm.

REQD. CONCRETE AREA: 266761.00 Sq.mm.

MAIN REINFORCEMENT : Provide 20 - 12 dia. (0.63%, 2261.95 Sq.mm.)

(Equally distributed about Y axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 5631.47 Muz1 : 368.22 Muy1 : 433.50

INTERACTION RATIO: 0.18 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 10

END JOINT: 157 Puz : 5050.61 Muz : 0.00 Muy : 0.00 IR: 0.70

C O L U M N N O. 22 D E S I G N R E S U L T S

M30 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2750.0 mm CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 11 END JOINT: 155 SHORT COLUMN

REQD. STEEL AREA : 2079.88 Sq.mm.

REQD. CONCRETE AREA: 259985.03 Sq.mm.

MAIN REINFORCEMENT : Provide 20 - 12 dia. (0.63%, 2261.95 Sq.mm.)

(Equally distributed about Y axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 5611.88 Muz1 : 374.79 Muy1 : 441.13
INTERACTION RATIO: 0.15 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 11

END JOINT: 155 Puz : 5050.61 Muz : 0.00 Muy : 0.00 IR: 0.69
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C O L U M N	N O.	23	D E S I G N	R E S U L T S
M30			Fe500 (Main)	Fe415 (Sec.)
LENGTH:	2750.0 mm	CROSS SECTION:	600.0 mm X 600.0 mm	COVER: 40.0 mm
** GUIDING LOAD CASE:	11	END JOINT:	202	SHORT COLUMN
REQD. STEEL AREA	: 2399.25 Sq.mm.			
REQD. CONCRETE AREA:	299906.56 Sq.mm.			
MAIN REINFORCEMENT	: Provide 12 - 16 dia. (0.67%, 2412.74 Sq.mm.)			
	(Equally distributed about Y axis)			
TIE REINFORCEMENT	: Provide 8 mm dia. rectangular ties @ 255 mm c/c			
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)				

Puz : 5727.33 Muz1 : 329.04 Muy1 : 388.30
INTERACTION RATIO: 0.20 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 11

END JOINT: 202 Puz : 5099.32 Muz : 0.00 Muy : 0.00 IR: 0.79
=====

=====

C O L U M N	N O.	24	D E S I G N	R E S U L T S
M30			Fe500 (Main)	Fe415 (Sec.)
LENGTH:	2750.0 mm	CROSS SECTION:	600.0 mm X 600.0 mm	COVER: 40.0 mm
** GUIDING LOAD CASE:	11	END JOINT:	214	SHORT COLUMN
REQD. STEEL AREA	: 2131.50 Sq.mm.			
REQD. CONCRETE AREA:	266437.56 Sq.mm.			
MAIN REINFORCEMENT	: Provide 20 - 12 dia. (0.63%, 2261.95 Sq.mm.)			
	(Equally distributed about Z axis)			
TIE REINFORCEMENT	: Provide 8 mm dia. rectangular ties @ 190 mm c/c			
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)				

Puz : 5630.54 Muz1 : 433.87 Muy1 : 368.54
INTERACTION RATIO: 0.16 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 11

END JOINT: 214 Puz : 5050.61 Muz : 0.00 Muy : 0.00 IR: 0.71
=====

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C O L U M N	N O.	25	D E S I G N	R E S U L T S
M30			Fe500 (Main)	Fe415 (Sec.)
LENGTH:	2750.0 mm	CROSS SECTION:	600.0 mm X 600.0 mm	COVER: 40.0 mm
** GUIDING LOAD CASE:	40	END JOINT:	178	SHORT COLUMN
REQD. STEEL AREA	: 1264.59 Sq.mm.			
REQD. CONCRETE AREA:	158074.06 Sq.mm.			
MAIN REINFORCEMENT	: Provide 12 - 12 dia. (0.38%, 1357.17 Sq.mm.)			
	(Equally distributed about Y axis)			
TIE REINFORCEMENT	: Provide 8 mm dia. rectangular ties @ 190 mm c/c			
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)				

Puz : 5317.15 Muz1 : 403.89 Muy1 : 478.27
INTERACTION RATIO: 0.16 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 50END JOINT: 281 Puz : 5350.62 Muz : 353.34 Muy : 400.60 IR: 0.62
=====C O L U M N N O. 26 D E S I G N R E S U L T S
M30 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2750.0 mm CROSS SECTION: 900.0 mm X 900.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 11 END JOINT: 171 SHORT COLUMN

REQD. STEEL AREA : 4681.50 Sq.mm.

REQD. CONCRETE AREA: 585187.31 Sq.mm.

MAIN REINFORCEMENT : Provide 42 - 12 dia. (0.59%, 4750.09 Sq.mm.)
(Equally distributed about Y axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 12627.36 Muz1 : 1280.61 Muy1 : 1521.12

INTERACTION RATIO: 0.13 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 11

END JOINT: 171 Puz : 11254.28 Muz : 0.00 Muy : 0.00 IR: 0.70
=====C O L U M N N O. 27 D E S I G N R E S U L T S
M30 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2750.0 mm CROSS SECTION: 900.0 mm X 900.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 11 END JOINT: 153 SHORT COLUMN

REQD. STEEL AREA : 5683.14 Sq.mm.

REQD. CONCRETE AREA: 710392.12 Sq.mm.

MAIN REINFORCEMENT : Provide 12 - 25 dia. (0.73%, 5890.49 Sq.mm.)
(Equally distributed about Y axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 300 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 12989.46 Muz1 : 1044.22 Muy1 : 1248.77

INTERACTION RATIO: 0.20 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 11

END JOINT: 153 Puz : 11622.63 Muz : 0.00 Muy : 0.00 IR: 0.82
=====C O L U M N N O. 28 D E S I G N R E S U L T S
M30 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2750.0 mm CROSS SECTION: 900.0 mm X 900.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 11 END JOINT: 204 SHORT COLUMN

REQD. STEEL AREA : 6204.80 Sq.mm.

REQD. CONCRETE AREA: 775599.81 Sq.mm.

MAIN REINFORCEMENT : Provide 20 - 20 dia. (0.78%, 6283.19 Sq.mm.)
(Equally distributed about Y axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 300 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 13178.03 Muz1 : 868.75 Muy1 : 1059.29

INTERACTION RATIO: 0.31 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 11

END JOINT: 204 Puz : 11749.47 Muz : 0.00 Muy : 0.00 IR: 0.88

=====

C O L U M N	N O.	29	D E S I G N	R E S U L T S
M30			Fe500 (Main)	Fe415 (Sec.)
LENGTH:	2750.0 mm	CROSS SECTION:	750.0 mm X 750.0 mm	COVER: 40.0 mm
** GUIDING LOAD CASE: 36 END JOINT: 278 SHORT COLUMN				
REQD. STEEL AREA	:	4653.09 Sq.mm.		
REQD. CONCRETE AREA:	557846.94 Sq.mm.			
MAIN REINFORCEMENT : Provide 24 - 16 dia. (0.86%, 4825.49 Sq.mm.)				
(Equally distributed about Y axis)				
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 255 mm c/c				
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)				

Puz : 9275.84 Muz1 : 806.80 Muy1 : 1005.07
INTERACTION RATIO: 0.96 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 36
END JOINT: 278 Puz : 9338.16 Muz : 812.93 Muy : 1025.33 IR: 0.93

=====

C O L U M N	N O.	30	D E S I G N	R E S U L T S
M30			Fe500 (Main)	Fe415 (Sec.)
LENGTH:	2750.0 mm	CROSS SECTION:	600.0 mm X 600.0 mm	COVER: 40.0 mm
** GUIDING LOAD CASE: 38 END JOINT: 144 SHORT COLUMN				
REQD. STEEL AREA	:	1661.13 Sq.mm.		
REQD. CONCRETE AREA:	207641.14 Sq.mm.			
MAIN REINFORCEMENT : Provide 16 - 12 dia. (0.50%, 1809.56 Sq.mm.)				
(Equally distributed about Y axis)				
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c				
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)				

Puz : 5460.50 Muz1 : 406.75 Muy1 : 480.09
INTERACTION RATIO: 0.41 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 57
END JOINT: 246 Puz : 5514.16 Muz : 324.76 Muy : 369.51 IR: 0.83

=====

C O L U M N	N O.	31	D E S I G N	R E S U L T S
M30			Fe500 (Main)	Fe415 (Sec.)
LENGTH:	2750.0 mm	CROSS SECTION:	750.0 mm X 750.0 mm	COVER: 40.0 mm
** GUIDING LOAD CASE: 38 END JOINT: 146 SHORT COLUMN				
REQD. STEEL AREA	:	1320.43 Sq.mm.		
REQD. CONCRETE AREA:	165054.33 Sq.mm.			
MAIN REINFORCEMENT : Provide 12 - 12 dia. (0.24%, 1357.17 Sq.mm.)				
(Equally distributed about Y axis)				
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c				
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)				

Puz : 8071.09 Muz1 : 682.83 Muy1 : 764.14
INTERACTION RATIO: 0.34 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 45
END JOINT: 146 Puz : 8084.37 Muz : 515.41 Muy : 553.33 IR: 0.76

=====

C O L U M N	N O.	32	D E S I G N	R E S U L T S
M30			Fe500 (Main)	Fe415 (Sec.)
LENGTH:	2750.0 mm	CROSS SECTION:	900.0 mm X 900.0 mm	COVER: 40.0 mm

** GUIDING LOAD CASE: 10 END JOINT: 148 SHORT COLUMN

REQD. STEEL AREA : 3493.55 Sq.mm.

REQD. CONCRETE AREA: 436693.75 Sq.mm.

MAIN REINFORCEMENT : Provide 32 - 12 dia. (0.45%, 3619.11 Sq.mm.)
(Equally distributed about Y axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 12197.92 Muz1 : 1400.04 Muy1 : 1669.98

INTERACTION RATIO: 0.11 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 38

END JOINT: 250 Puz : 12243.31 Muz : 1422.00 Muy : 1770.08 IR: 0.85

=====

C O L U M N	N O.	33	D E S I G N	R E S U L T S
M30		Fe500 (Main)		Fe415 (Sec.)

LENGTH: 2750.0 mm CROSS SECTION: 750.0 mm X 750.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 10 END JOINT: 252 SHORT COLUMN

REQD. STEEL AREA : 6037.77 Sq.mm.

REQD. CONCRETE AREA: 556462.25 Sq.mm.

MAIN REINFORCEMENT : Provide 20 - 20 dia. (1.12%, 6283.19 Sq.mm.)
(Equally distributed about Y axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 300 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 9776.40 Muz1 : 729.74 Muy1 : 923.80

INTERACTION RATIO: 0.99 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 10

END JOINT: 252 Puz : 9865.12 Muz : 746.55 Muy : 951.59 IR: 0.95

=====

C O L U M N	N O.	34	D E S I G N	R E S U L T S
M30		Fe500 (Main)		Fe415 (Sec.)

LENGTH: 2750.0 mm CROSS SECTION: 750.0 mm X 750.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 28 END JOINT: 310 SHORT COLUMN

REQD. STEEL AREA : 7959.06 Sq.mm.

REQD. CONCRETE AREA: 554540.94 Sq.mm.

MAIN REINFORCEMENT : Provide 10 - 32 dia. (1.43%, 8042.48 Sq.mm.)
(Equally distributed about Y axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 300 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 10470.95 Muz1 : 944.12 Muy1 : 1280.73

INTERACTION RATIO: 0.98 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 28

END JOINT: 310 Puz : 10501.11 Muz : 997.66 Muy : 1277.24 IR: 0.91

=====

C O L U M N	N O.	35	D E S I G N	R E S U L T S
M30		Fe500 (Main)		Fe415 (Sec.)

LENGTH: 2750.0 mm CROSS SECTION: 900.0 mm X 900.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 28 END JOINT: 312 SHORT COLUMN

REQD. STEEL AREA : 4227.93 Sq.mm.

REQD. CONCRETE AREA: 528491.69 Sq.mm.

MAIN REINFORCEMENT : Provide 38 - 12 dia. (0.53%, 4297.70 Sq.mm.)
(Equally distributed about Y axis)

TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c
SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

Puz : 12463.40 Muz1 : 1475.24 Muy1 : 1864.84
INTERACTION RATIO: 0.99 (as per Cl. 39.6, IS456:2000)
SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)

WORST LOAD CASE: 28
END JOINT: 312 Puz : 12488.62 Muz : 1460.21 Muy : 1880.86 IR: 0.99

*****END OF COLUMN DESIGN RESULTS*****
976. DESIGN BEAM 1001 TO 2076

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=====
      B E A M   N O .      1529   D E S I G N   R E S U L T S
      M25                  Fe500 (Main)                  Fe415 (Sec.)
      LENGTH:  4915.0 mm      SIZE:  300.0 mm X  600.0 mm  COVER: 25.0 mm
              SUMMARY OF REINF. AREA (Sq.mm)
=====
SECTION      0.0 mm      1228.8 mm      2457.5 mm      3686.2 mm      4915.0 mm
TOP          1662.58      561.84      290.70      0.00      290.70
REINF.      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)
BOTTOM      290.70      397.23      487.94      444.07      492.26
REINF.      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)
SHEAR      2 legged 8i  2 legged 8i  2 legged 8i  2 legged 8i  2 legged 8i
REINF.      @ 190 mm c/c @ 190 mm c/c @ 190 mm c/c @ 190 mm c/c @ 190 mm c/c
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      B E A M   N O .      1530   D E S I G N   R E S U L T S
      M25                  Fe500 (Main)                  Fe415 (Sec.)
      LENGTH:  1723.2 mm      SIZE:  300.0 mm X  600.0 mm  COVER: 25.0 mm
              SUMMARY OF REINF. AREA (Sq.mm)
=====
SECTION      0.0 mm      430.8 mm      861.6 mm      1292.4 mm      1723.2 mm
TOP          290.70      365.64      602.37      916.97      1317.94
REINF.      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)
BOTTOM      483.63      450.29      427.67      412.24      380.78
REINF.      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)
SHEAR      2 legged 8i  2 legged 8i  2 legged 8i  2 legged 8i  2 legged 8i
REINF.      @ 190 mm c/c @ 190 mm c/c @ 190 mm c/c @ 190 mm c/c @ 190 mm c/c
=====

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=====
      B E A M   N O .      1531   D E S I G N   R E S U L T S
      M25                  Fe500 (Main)                  Fe415 (Sec.)
      LENGTH:  600.0 mm      SIZE:  450.0 mm X  600.0 mm  COVER: 25.0 mm
              SUMMARY OF REINF. AREA (Sq.mm)
=====
SECTION      0.0 mm      150.0 mm      300.0 mm      450.0 mm      600.0 mm
TOP          1055.59      931.31      820.87      716.12      616.91
REINF.      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)
BOTTOM      467.11      493.65      516.98      560.59      609.86
REINF.      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)
SHEAR      2 legged 12i 2 legged 12i 2 legged 12i 2 legged 12i 2 legged 12i
REINF.      @ 130 mm c/c @ 130 mm c/c @ 130 mm c/c @ 140 mm c/c @ 150 mm c/c
=====

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=====
      B E A M   N O .      1532   D E S I G N   R E S U L T S
      M25                  Fe500 (Main)                  Fe415 (Sec.)
      LENGTH:  4460.0 mm      SIZE:  230.0 mm X  425.0 mm  COVER: 25.0 mm

```

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1115.0 mm	2230.0 mm	3345.0 mm	4460.0 mm
TOP	738.75	237.21	0.00	0.00	211.12
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	154.45	172.68	261.16	234.23	154.45
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1533 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2230.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	557.5 mm	1115.0 mm	1672.5 mm	2230.0 mm
TOP	154.45	154.45	154.45	194.01	305.73
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	154.45	154.45	154.45	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1534 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 5680.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1420.0 mm	2840.0 mm	4260.0 mm	5680.0 mm
TOP	392.85	0.00	0.00	154.45	534.99
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	247.24	437.30	197.88	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1535 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2244.8 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	561.2 mm	1122.4 mm	1683.6 mm	2244.8 mm
TOP	401.76	501.36	637.85	847.96	1134.30
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	290.70	0.00	0.00	290.70	290.70
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

B E A M N O. 1536 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 600.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	150.0 mm	300.0 mm	450.0 mm	600.0 mm
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TOP	1888.26	2119.07	2363.87	2624.45	2908.02
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	708.64	745.36	779.87	812.25	842.54
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 50 mm c/c	@ 50 mm c/c	@ 50 mm c/c	@ 50 mm c/c	@ 50 mm c/c

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B E A M N O. 1537 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2285.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	571.2 mm	1142.5 mm	1713.8 mm	2285.0 mm
TOP	1687.28	1087.51	630.17	312.40	290.19
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	291.79	364.29	409.37	502.33	559.56
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 190 mm c/c	@ 140 mm c/c	@ 150 mm c/c	@ 160 mm c/c	@ 190 mm c/c

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B E A M N O. 1538 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4915.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1228.7 mm	2457.5 mm	3686.2 mm	4915.0 mm
TOP	290.19	0.00	290.19	679.59	1822.58
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	543.97	559.15	546.85	387.55	290.19
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

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B E A M N O. 1539 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3230.0 mm SIZE: 300.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	807.5 mm	1615.0 mm	2422.5 mm	3230.0 mm
TOP	1041.93	388.96	0.00	257.57	708.44
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	443.34	291.48	239.70	331.21	524.63
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c

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B E A M N O. 1540 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 215.1 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	53.8 mm	107.6 mm	161.3 mm	215.1 mm
TOP	5140.09	5228.34	5316.93	5405.88	5495.17
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1248.00	1231.04	1213.88	1196.52	1178.98

REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 80 mm c/c	@ 80 mm c/c	@ 80 mm c/c	@ 80 mm c/c	@ 80 mm c/c

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 B E A M N O. 1541 D E S I G N R E S U L T S

 M25 Fe500 (Main) Fe415 (Sec.)

 LENGTH: 1430.0 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	357.5 mm	715.0 mm	1072.5 mm	1430.0 mm
TOP	4062.32	3456.87	2926.50	2442.83	1998.79
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	886.38	886.38	952.30	1105.08	1328.73
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 80 mm c/c	@ 80 mm c/c	@ 80 mm c/c	@ 80 mm c/c	@ 80 mm c/c

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 B E A M N O. 1542 D E S I G N R E S U L T S

 M25 Fe500 (Main) Fe415 (Sec.)

 LENGTH: 3310.0 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	827.5 mm	1655.0 mm	2482.5 mm	3310.0 mm
TOP	1345.19	886.38	886.38	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	884.34	1099.90	1241.28	1384.52	1604.17
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 300 mm c/c	@ 230 mm c/c	@ 270 mm c/c	@ 300 mm c/c	@ 300 mm c/c

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 B E A M N O. 1543 D E S I G N R E S U L T S

 M25 Fe500 (Main) Fe415 (Sec.)

 LENGTH: 4740.0 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1185.0 mm	2370.0 mm	3555.0 mm	4740.0 mm
TOP	0.00	0.00	886.38	1606.51	2966.12
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1653.03	1275.14	947.52	886.38	886.38
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 300 mm c/c	@ 260 mm c/c	@ 200 mm c/c	@ 180 mm c/c	@ 300 mm c/c

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 B E A M N O. 1544 D E S I G N R E S U L T S

 M25 Fe500 (Main) Fe415 (Sec.)

 LENGTH: 3220.0 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	805.0 mm	1610.0 mm	2415.0 mm	3220.0 mm
TOP	5209.35	3255.63	1638.50	886.38	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	886.38	886.38	991.31	1663.15	2487.54
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 300 mm c/c	@ 120 mm c/c	@ 120 mm c/c	@ 130 mm c/c	@ 300 mm c/c

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B E A M N O. 1545 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4195.1 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1048.8 mm	2097.6 mm	3146.3 mm	4195.1 mm
TOP	0.00	0.00	0.00	0.00	886.38
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	2702.18	2906.77	2816.69	2356.84	2233.01
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 230 mm c/c	@ 230 mm c/c	@ 230 mm c/c	@ 230 mm c/c	@ 230 mm c/c

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B E A M N O. 1546 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2244.8 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	561.2 mm	1122.4 mm	1683.6 mm	2244.8 mm
TOP	884.34	1516.07	3004.28	4876.67	6260.94
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1972.17	1108.59	884.34	884.34	1485.11
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 90 mm c/c	@ 80 mm c/c	@ 90 mm c/c	@ 90 mm c/c	@ 90 mm c/c

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B E A M N O. 1547 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2840.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	710.0 mm	1420.0 mm	2130.0 mm	2840.0 mm
TOP	2137.92	1206.02	393.61	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	568.28	290.19	365.83	691.64	1308.19
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 190 mm c/c	@ 160 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

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B E A M N O. 1548 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2840.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	710.0 mm	1420.0 mm	2130.0 mm	2840.0 mm
TOP	0.00	0.00	293.45	957.42	1895.01
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1381.10	812.70	542.95	354.04	310.38
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 190 mm c/c

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B E A M N O. 1549 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 4740.0 mm SIZE: 300.0 mm X 500.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1185.0 mm	2370.0 mm	3555.0 mm	4740.0 mm
TOP	2309.86	950.34	238.17	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1041.70	0.00	339.93	854.07	1165.83
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 170 mm c/c	@ 160 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c

B E A M N O. 1550 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 3310.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	827.5 mm	1655.0 mm	2482.5 mm	3310.0 mm
TOP	531.27	149.66	0.00	438.14	1299.36
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1341.40	994.68	465.91	153.27	487.52
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1551 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 1430.0 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	357.5 mm	715.0 mm	1072.5 mm	1430.0 mm
TOP	1268.14	1777.90	2406.98	2892.63	3395.33
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	0.00	22.83	545.26	1073.04
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 120 mm c/c	@ 120 mm c/c	@ 120 mm c/c	@ 120 mm c/c	@ 120 mm c/c

B E A M N O. 1552 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2630.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	657.5 mm	1315.0 mm	1972.5 mm	2630.0 mm
TOP	1940.11	1362.40	786.05	406.13	290.70
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	356.22	0.00	0.00	0.00	290.70
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

B E A M N O. 1553 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 3230.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	807.5 mm	1615.0 mm	2422.5 mm	3230.0 mm
TOP	868.28	262.74	0.00	276.43	909.49
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	478.45	302.39	154.45	289.76	454.47
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1554 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 1432.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	358.0 mm	716.0 mm	1074.0 mm	1432.0 mm
TOP	4541.93	3942.17	3369.86	2650.88	1996.03
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1437.35	805.50	581.40	657.50	940.60
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 60 mm c/c	@ 60 mm c/c	@ 60 mm c/c	@ 60 mm c/c	@ 60 mm c/c

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B E A M N O. 1555 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3308.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	827.0 mm	1654.0 mm	2481.0 mm	3308.0 mm
TOP	1379.39	581.40	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	581.40	930.91	1281.72	1696.49	2088.13
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 270 mm c/c	@ 190 mm c/c	@ 240 mm c/c	@ 260 mm c/c	@ 270 mm c/c

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B E A M N O. 1556 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4740.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1185.0 mm	2370.0 mm	3555.0 mm	4740.0 mm
TOP	0.00	0.00	578.34	1690.53	3546.10
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	2151.24	1595.62	940.46	576.30	386.21
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 270 mm c/c	@ 220 mm c/c	@ 180 mm c/c	@ 140 mm c/c	@ 270 mm c/c

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B E A M N O. 1557 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4258.2 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1064.6 mm	2129.1 mm	3193.7 mm	4258.2 mm
TOP	3333.52	1287.82	580.38	0.00	0.00

REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	580.38	597.46	1169.98	2050.14	2984.94
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 270 mm c/c	@ 180 mm c/c	@ 230 mm c/c	@ 270 mm c/c	@ 270 mm c/c

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B E A M N O. 1558 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2380.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	595.0 mm	1190.0 mm	1785.0 mm	2380.0 mm
TOP	0.00	580.38	963.16	2405.79	3890.50
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	2736.35	1430.18	652.57	580.38	723.22
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 270 mm c/c	@ 120 mm c/c	@ 120 mm c/c	@ 120 mm c/c	@ 270 mm c/c

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B E A M N O. 1559 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2230.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	557.5 mm	1115.0 mm	1672.5 mm	2230.0 mm
TOP	530.66	282.64	154.05	291.54	743.53
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	679.22	349.25	154.05	154.05	277.32
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1560 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2230.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	557.5 mm	1115.0 mm	1672.5 mm	2230.0 mm
TOP	396.12	154.45	154.45	387.80	796.22
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	367.47	154.45	154.45	297.67	521.91
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1561 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 6800.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1700.0 mm	3400.0 mm	5100.0 mm	6800.0 mm
TOP	1507.94	154.05	0.00	0.00	771.64
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	709.67	172.11	714.48	417.22	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)

SHEAR 2 legged 8i 2 legged 8i 2 legged 8i 2 legged 8i 2 legged 8i
 REINF. @ 130 mm c/c @ 130 mm c/c @ 130 mm c/c @ 130 mm c/c @ 130 mm c/c

B E A M N O. 1562 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2680.0 mm SIZE: 230.0 mm X 500.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	670.0 mm	1340.0 mm	2010.0 mm	2680.0 mm
TOP	365.60	225.12	363.39	723.07	1197.06
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	183.38	0.00	183.38	183.38	200.59
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

B E A M N O. 1563 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2630.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	657.5 mm	1315.0 mm	1972.5 mm	2630.0 mm
TOP	1130.37	696.05	396.82	290.19	290.70
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	0.00	0.00	0.00	290.70
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

B E A M N O. 1564 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 4258.2 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1064.6 mm	2129.1 mm	3193.7 mm	4258.2 mm
TOP	3903.11	2089.23	661.34	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	736.65	915.21	1344.23	1833.61	2365.03
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 270 mm c/c	@ 110 mm c/c	@ 120 mm c/c	@ 160 mm c/c	@ 270 mm c/c

B E A M N O. 1565 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 656.8 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	164.2 mm	328.4 mm	492.6 mm	656.8 mm
TOP	154.50	0.00	581.40	606.53	764.27
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	3328.73	3142.57	2875.95	2614.93	2373.09
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 60 mm c/c	@ 60 mm c/c	@ 60 mm c/c	@ 60 mm c/c	@ 60 mm c/c

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B E A M N O. 1566 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 1723.2 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	430.8 mm	861.6 mm	1292.4 mm	1723.2 mm
TOP	619.70	1297.83	2117.18	3153.63	3968.78
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1983.24	1625.04	1241.75	941.54	833.63
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 270 mm c/c	@ 70 mm c/c	@ 70 mm c/c	@ 70 mm c/c	@ 270 mm c/c

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B E A M N O. 1567 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4460.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1115.0 mm	2230.0 mm	3345.0 mm	4460.0 mm
TOP	953.94	157.59	0.00	154.45	812.56
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	154.45	231.48	370.96	174.48	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1568 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2230.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	557.5 mm	1115.0 mm	1672.5 mm	2230.0 mm
TOP	622.78	290.70	303.47	669.37	1134.95
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	364.54	290.70	290.70	426.23	693.06
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 180 mm c/c	@ 190 mm c/c

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B E A M N O. 1569 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2840.0 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	710.0 mm	1420.0 mm	2130.0 mm	2840.0 mm
TOP	2404.45	1409.71	700.99	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	901.69	979.90	1091.63	1140.71	1398.34
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 230 mm c/c	@ 120 mm c/c	@ 130 mm c/c	@ 150 mm c/c	@ 230 mm c/c

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B E A M N O. 1570 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2840.0 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	710.0 mm	1420.0 mm	2130.0 mm	2840.0 mm
TOP	0.00	432.23	992.36	1942.61	2950.84
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1498.79	1123.10	956.02	787.29	716.73
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 230 mm c/c	@ 130 mm c/c	@ 110 mm c/c	@ 110 mm c/c	@ 230 mm c/c

B E A M N O. 1571 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2244.8 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	561.2 mm	1122.4 mm	1683.6 mm	2244.8 mm
TOP	6100.50	4927.73	3354.95	2095.27	1016.76
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1341.66	1548.07	1731.95	2232.91	2718.15
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 60 mm c/c	@ 60 mm c/c	@ 60 mm c/c	@ 60 mm c/c	@ 60 mm c/c

B E A M N O. 1572 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2285.0 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	571.2 mm	1142.5 mm	1713.8 mm	2285.0 mm
TOP	886.38	886.38	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1909.27	1901.69	1841.05	1716.29	1793.51
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

B E A M N O. 1573 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 1910.1 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	477.5 mm	955.1 mm	1432.6 mm	1910.1 mm
TOP	0.00	0.00	0.00	0.00	886.38
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	2019.36	1972.11	1869.25	1837.96	1850.83
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

B E A M N O. 1574 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3004.9 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	751.2 mm	1502.4 mm	2253.7 mm	3004.9 mm
TOP	884.34	1268.28	2311.70	3637.71	5167.41
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	2365.63	1991.17	1588.24	1316.90	1102.17
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 300 mm c/c	@ 90 mm c/c	@ 90 mm c/c	@ 90 mm c/c	@ 300 mm c/c

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B E A M N O. 1575 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 3230.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	807.5 mm	1615.0 mm	2422.5 mm	3230.0 mm
TOP	637.10	271.68	154.45	154.45	154.45
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	0.00	154.45	154.45	154.45
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1576 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 3230.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	807.5 mm	1615.0 mm	2422.5 mm	3230.0 mm
TOP	434.42	154.45	154.45	154.45	165.71
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	154.45	154.45	154.45	154.45
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1577 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2630.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	657.5 mm	1315.0 mm	1972.5 mm	2630.0 mm
TOP	1570.62	1150.90	1059.23	1228.29	1584.29
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	638.65	580.38	580.38	580.38	580.38
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 270 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 140 mm c/c	@ 270 mm c/c

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B E A M N O. 1578 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 4740.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1185.0 mm	2370.0 mm	3555.0 mm	4740.0 mm
TOP	2620.15	810.99	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)

BOTTOM	0.00	581.40	1293.46	1959.09	2111.22
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 270 mm c/c	@ 110 mm c/c	@ 160 mm c/c	@ 200 mm c/c	@ 270 mm c/c

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B E A M N O. 1579 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4740.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1185.0 mm	2370.0 mm	3555.0 mm	4740.0 mm
TOP	0.00	0.00	0.00	1255.95	3392.03
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1873.03	1506.39	702.55	0.00	219.68
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 270 mm c/c	@ 260 mm c/c	@ 210 mm c/c	@ 140 mm c/c	@ 270 mm c/c

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B E A M N O. 1580 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4744.5 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1186.1 mm	2372.2 mm	3558.4 mm	4744.5 mm
TOP	2821.93	1032.96	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	464.39	0.00	492.11	1069.40	1218.68
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 230 mm c/c	@ 170 mm c/c	@ 220 mm c/c	@ 230 mm c/c	@ 230 mm c/c

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B E A M N O. 1581 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4744.5 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1186.1 mm	2372.2 mm	3558.4 mm	4744.5 mm
TOP	0.00	0.00	0.00	839.58	2569.47
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1263.68	1187.30	655.51	0.00	198.09
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 230 mm c/c	@ 230 mm c/c	@ 230 mm c/c	@ 160 mm c/c	@ 230 mm c/c

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B E A M N O. 1582 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4741.5 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1185.4 mm	2370.7 mm	3556.1 mm	4741.5 mm
TOP	2062.96	629.77	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	491.51	0.00	290.19	637.68	582.16
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i

REINF. @ 190 mm c/c @ 190 mm c/c @ 190 mm c/c @ 190 mm c/c @ 190 mm c/c

B E A M N O. 1583 D E S I G N R E S U L T S					
M25	Fe500 (Main)		Fe415 (Sec.)		
LENGTH:	4741.5 mm	SIZE:	300.0 mm X 600.0 mm	COVER:	25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)					
SECTION	0.0 mm	1185.4 mm	2370.7 mm	3556.1 mm	4741.5 mm
TOP	0.00	0.00	0.00	290.19	1464.13
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	670.51	913.84	704.13	288.15	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 160 mm c/c	@ 190 mm c/c

B E A M N O. 1584 D E S I G N R E S U L T S					
M25	Fe500 (Main)		Fe415 (Sec.)		
LENGTH:	2244.8 mm	SIZE:	600.0 mm X 900.0 mm	COVER:	25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)					
SECTION	0.0 mm	561.2 mm	1122.4 mm	1683.6 mm	2244.8 mm
TOP	884.34	1424.16	2144.83	2981.45	3994.44
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1979.46	1653.43	1292.66	996.09	884.34
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 90 mm c/c	@ 80 mm c/c	@ 80 mm c/c	@ 80 mm c/c	@ 80 mm c/c

B E A M N O. 1585 D E S I G N R E S U L T S					
M25	Fe500 (Main)		Fe415 (Sec.)		
LENGTH:	1225.1 mm	SIZE:	600.0 mm X 600.0 mm	COVER:	25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)					
SECTION	0.0 mm	306.3 mm	612.6 mm	918.8 mm	1225.1 mm
TOP	2384.72	1924.69	1512.65	1141.29	803.92
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	581.40	581.40	617.17	707.90	812.02
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 160 mm c/c	@ 160 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

B E A M N O. 1586 D E S I G N R E S U L T S					
M25	Fe500 (Main)		Fe415 (Sec.)		
LENGTH:	1614.9 mm	SIZE:	600.0 mm X 600.0 mm	COVER:	25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)					
SECTION	0.0 mm	403.7 mm	807.4 mm	1211.2 mm	1614.9 mm
TOP	578.34	578.34	578.34	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	591.98	596.62	578.34	578.34	598.95
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

B E A M N O. 1587 D E S I G N R E S U L T S
 M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 1615.1 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	403.8 mm	807.5 mm	1211.3 mm	1615.1 mm
TOP	0.00	0.00	581.40	581.40	692.15
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	810.36	787.86	812.78	807.57	774.06
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 230 mm c/c	@ 230 mm c/c	@ 230 mm c/c	@ 210 mm c/c	@ 230 mm c/c

B E A M N O. 1588 D E S I G N R E S U L T S
 M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 1224.9 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	306.2 mm	612.5 mm	918.7 mm	1224.9 mm
TOP	899.22	1216.69	1586.65	1998.05	2459.46
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	982.42	865.37	782.81	730.06	668.13
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 110 mm c/c	@ 110 mm c/c	@ 120 mm c/c	@ 120 mm c/c	@ 120 mm c/c

B E A M N O. 1589 D E S I G N R E S U L T S
 M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2680.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	670.0 mm	1340.0 mm	2010.0 mm	2680.0 mm
TOP	657.21	260.73	154.05	154.05	312.99
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	204.60	164.36	154.05	154.05	195.35
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1590 D E S I G N R E S U L T S
 M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2680.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	670.0 mm	1340.0 mm	2010.0 mm	2680.0 mm
TOP	547.44	290.70	0.00	0.00	290.70
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	290.70	290.70	291.98	357.61	462.42
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 190 mm c/c	@ 180 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

B E A M N O. 1591 D E S I G N R E S U L T S
 M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 1330.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	332.5 mm	665.0 mm	997.5 mm	1330.0 mm
TOP	290.19	451.95	685.24	967.45	1304.45
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	564.10	495.31	412.00	371.78	329.83
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 190 mm c/c	@ 180 mm c/c	@ 180 mm c/c	@ 180 mm c/c	@ 180 mm c/c

B E A M N O. 1592 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2380.0 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	595.0 mm	1190.0 mm	1785.0 mm	2380.0 mm
TOP	1664.30	1064.95	604.98	436.05	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	436.05	436.05	496.85	620.83	699.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 230 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 220 mm c/c	@ 230 mm c/c

B E A M N O. 1593 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 4258.2 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1064.6 mm	2129.1 mm	3193.7 mm	4258.2 mm
TOP	0.00	0.00	436.05	750.40	1752.10
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	643.92	593.32	560.45	438.05	435.29
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 200 mm c/c	@ 200 mm c/c	@ 200 mm c/c	@ 170 mm c/c	@ 200 mm c/c

B E A M N O. 1594 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 3280.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	820.0 mm	1640.0 mm	2460.0 mm	3280.0 mm
TOP	3838.78	2526.86	1318.62	576.30	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	671.19	576.30	576.30	1016.30	1533.21
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 270 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 160 mm c/c	@ 270 mm c/c

B E A M N O. 1595 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 4586.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1146.5 mm	2293.0 mm	3439.5 mm	4586.0 mm
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TOP	0.00	0.00	0.00	581.40	759.85
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1264.37	1404.92	1259.86	908.43	581.40
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

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B E A M N O. 1596 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 1617.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	404.3 mm	808.5 mm	1212.8 mm	1617.0 mm
TOP	1043.29	1629.81	2307.61	3114.03	3747.29
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	857.25	580.38	580.38	0.00	562.03
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 230 mm c/c	@ 70 mm c/c	@ 70 mm c/c	@ 70 mm c/c	@ 230 mm c/c

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B E A M N O. 1597 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4744.5 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1186.1 mm	2372.2 mm	3558.4 mm	4744.5 mm
TOP	3538.68	1699.59	578.34	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	378.33	578.34	805.42	1431.73	1988.47
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 270 mm c/c	@ 150 mm c/c	@ 180 mm c/c	@ 240 mm c/c	@ 270 mm c/c

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B E A M N O. 1598 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3314.5 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	828.6 mm	1657.2 mm	2485.9 mm	3314.5 mm
TOP	0.00	0.00	0.00	581.40	1013.45
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1813.40	1484.58	1078.29	752.81	581.40
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 270 mm c/c	@ 270 mm c/c	@ 270 mm c/c	@ 270 mm c/c	@ 270 mm c/c

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B E A M N O. 1599 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 1430.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	357.5 mm	715.0 mm	1072.5 mm	1430.0 mm
TOP	1438.23	1996.31	2637.35	3318.49	3853.29
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	645.28	580.38	0.00	137.40	685.11

REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 90 mm c/c	@ 90 mm c/c	@ 90 mm c/c	@ 90 mm c/c	@ 90 mm c/c

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B E A M N O. 1600 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2630.0 mm SIZE: 230.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	657.5 mm	1315.0 mm	1972.5 mm	2630.0 mm
TOP	277.53	183.77	183.77	362.49	884.76
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	360.76	221.56	188.03	256.29	316.38
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

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B E A M N O. 1601 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2680.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	670.0 mm	1340.0 mm	2010.0 mm	2680.0 mm
TOP	1888.79	1245.00	723.69	443.51	389.71
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	303.68	290.70	290.70	290.70	370.47
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 190 mm c/c	@ 180 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

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B E A M N O. 1602 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2060.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	515.0 mm	1030.0 mm	1545.0 mm	2060.0 mm
TOP	585.16	290.19	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	290.19	377.07	722.08	1106.74	1454.03
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

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B E A M N O. 1603 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4740.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1185.0 mm	2370.0 mm	3555.0 mm	4740.0 mm
TOP	0.00	0.00	0.00	853.21	2326.36
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1443.81	1207.62	559.71	0.00	762.12
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

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B E A M   N O.      1604   D E S I G N   R E S U L T S
M25                Fe500 (Main)                Fe415 (Sec.)
LENGTH:  4744.5 mm    SIZE:   600.0 mm X  900.0 mm    COVER: 25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)
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SECTION      0.0 mm      1186.1 mm      2372.2 mm      3558.4 mm      4744.5 mm
TOP          2315.71      1055.52      887.40          0.00          887.40
REINF.      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)
BOTTOM      1033.25      1002.73      932.52          939.27      1263.84
REINF.      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)
SHEAR      2 legged 12i  2 legged 12i  2 legged 12i  2 legged 12i  2 legged 12i
REINF.      @ 300 mm c/c @ 270 mm c/c @ 300 mm c/c @ 300 mm c/c @ 300 mm c/c
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B E A M   N O.      1605   D E S I G N   R E S U L T S
M25                Fe500 (Main)                Fe415 (Sec.)
LENGTH:  1868.5 mm    SIZE:   600.0 mm X  900.0 mm    COVER: 25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)
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SECTION      0.0 mm      467.1 mm      934.2 mm      1401.4 mm      1868.5 mm
TOP          1028.63      1567.34      2172.16      2856.92      3637.79
REINF.      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)
BOTTOM      2115.64      1966.48      1781.20      1558.17      1336.06
REINF.      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)
SHEAR      2 legged 12i  2 legged 12i  2 legged 12i  2 legged 12i  2 legged 12i
REINF.      @ 80 mm c/c @ 70 mm c/c @ 70 mm c/c @ 70 mm c/c @ 70 mm c/c
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B E A M   N O.      1606   D E S I G N   R E S U L T S
M25                Fe500 (Main)                Fe415 (Sec.)
LENGTH:  2876.0 mm    SIZE:   230.0 mm X  425.0 mm    COVER: 25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)
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SECTION      0.0 mm      719.0 mm      1438.0 mm      2157.0 mm      2876.0 mm
TOP          936.70      391.78      153.27      182.62      424.29
REINF.      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)
BOTTOM      246.94      153.27      153.27      296.77      570.16
REINF.      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)
SHEAR      2 legged 8i   2 legged 8i   2 legged 8i   2 legged 8i   2 legged 8i
REINF.      @ 130 mm c/c @ 130 mm c/c @ 130 mm c/c @ 130 mm c/c @ 130 mm c/c
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B E A M   N O.      1607   D E S I G N   R E S U L T S
M25                Fe500 (Main)                Fe415 (Sec.)
LENGTH:  2818.0 mm    SIZE:   600.0 mm X  900.0 mm    COVER: 25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)
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SECTION      0.0 mm      704.5 mm      1409.0 mm      2113.5 mm      2818.0 mm
TOP          2198.42      1370.95      887.40      887.40          0.00
REINF.      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)
BOTTOM      1015.25      961.66      952.23      972.12      1062.91
REINF.      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)      (Sq. mm)
SHEAR      2 legged 8i   2 legged 8i   2 legged 8i   2 legged 8i   2 legged 8i
REINF.      @ 150 mm c/c @ 150 mm c/c @ 150 mm c/c @ 150 mm c/c @ 150 mm c/c
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B E A M   N O.      1608   D E S I G N   R E S U L T S

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SECTION	0.0 mm	300.3 mm	600.5 mm	900.8 mm	1201.0 mm
TOP	239.70	239.70	239.70	239.70	461.11
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	645.75	635.74	600.37	540.56	457.75
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 160 mm c/c

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B E A M N O. 1613 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 1617.0 mm SIZE: 300.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	404.3 mm	808.5 mm	1212.8 mm	1617.0 mm
TOP	239.70	239.70	482.13	888.66	1399.55
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	239.70	239.70	0.00	0.00	93.01
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c

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B E A M N O. 1614 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4744.5 mm SIZE: 300.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1186.1 mm	2372.2 mm	3558.4 mm	4744.5 mm
TOP	1709.37	385.82	0.00	0.00	239.70
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	428.81	0.00	596.87	666.44	239.70
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 170 mm c/c	@ 130 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c

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B E A M N O. 1615 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3314.5 mm SIZE: 300.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	828.6 mm	1657.2 mm	2485.9 mm	3314.5 mm
TOP	239.70	0.00	0.00	279.87	853.91
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	360.93	526.63	481.56	239.70	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 130 mm c/c	@ 170 mm c/c

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B E A M N O. 1616 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 1430.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	357.5 mm	715.0 mm	1072.5 mm	1430.0 mm
TOP	582.30	924.17	1322.03	1802.16	2358.03

REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	0.00	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 270 mm c/c	@ 270 mm c/c	@ 270 mm c/c	@ 270 mm c/c	@ 270 mm c/c

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B E A M N O. 1617 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4740.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1185.0 mm	2370.0 mm	3555.0 mm	4740.0 mm
TOP	2427.60	780.50	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	856.61	0.00	392.99	1050.41	1290.58
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 190 mm c/c	@ 170 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

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B E A M N O. 1618 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3308.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	827.0 mm	1654.0 mm	2481.0 mm	3308.0 mm
TOP	0.00	0.00	0.00	0.00	290.70
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1366.64	1388.97	1172.82	738.82	294.67
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

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B E A M N O. 1619 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 1432.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	358.0 mm	716.0 mm	1074.0 mm	1432.0 mm
TOP	290.70	405.86	756.92	1282.80	1821.87
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	290.70	290.70	0.00	0.00	227.92
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 170 mm c/c	@ 180 mm c/c	@ 160 mm c/c	@ 160 mm c/c	@ 160 mm c/c

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B E A M N O. 1620 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4258.2 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1064.6 mm	2129.1 mm	3193.7 mm	4258.2 mm
TOP	960.65	229.30	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	123.88	154.45	427.58	466.09	166.93
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)

SHEAR 2 legged 8i 2 legged 8i 2 legged 8i 2 legged 8i 2 legged 8i
 REINF. @ 130 mm c/c @ 130 mm c/c @ 130 mm c/c @ 130 mm c/c @ 130 mm c/c

B E A M N O. 1621 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 4258.2 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1064.6 mm	2129.1 mm	3193.7 mm	4258.2 mm
TOP	1054.52	161.87	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	223.27	154.05	568.56	791.52	621.44
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1622 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2380.0 mm SIZE: 300.0 mm X 500.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	595.0 mm	1190.0 mm	1785.0 mm	2380.0 mm
TOP	0.00	0.00	0.00	239.70	292.13
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	701.71	555.30	367.58	239.70	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c

B E A M N O. 1623 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2230.0 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	557.5 mm	1115.0 mm	1672.5 mm	2230.0 mm
TOP	1259.72	954.00	1391.95	2057.03	2743.84
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	719.74	436.05	0.00	0.00	384.27
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 230 mm c/c	@ 100 mm c/c	@ 100 mm c/c	@ 110 mm c/c	@ 230 mm c/c

B E A M N O. 1624 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2230.0 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	557.5 mm	1115.0 mm	1672.5 mm	2230.0 mm
TOP	2370.00	1660.82	1120.96	826.58	617.92
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	8.96	0.00	0.00	475.95	679.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 230 mm c/c	@ 120 mm c/c	@ 120 mm c/c	@ 120 mm c/c	@ 230 mm c/c

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B E A M N O. 1625 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2840.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	710.0 mm	1420.0 mm	2130.0 mm	2840.0 mm
TOP	567.47	221.44	154.45	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	154.45	154.45	230.44	274.72	237.81
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1626 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 6800.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1700.0 mm	3400.0 mm	5100.0 mm	6800.0 mm
TOP	950.50	154.45	0.00	154.45	1156.79
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	103.23	249.85	550.12	165.16	328.69
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1627 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 6613.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1653.2 mm	3306.5 mm	4959.7 mm	6613.0 mm
TOP	1058.07	154.45	0.00	154.45	1014.88
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	226.56	184.82	505.16	211.85	181.87
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1628 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4258.2 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1064.6 mm	2129.1 mm	3193.7 mm	4258.2 mm
TOP	653.51	154.45	0.00	0.00	154.45
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	195.20	460.35	402.27	154.45
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1629 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4258.2 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1064.6 mm	2129.1 mm	3193.7 mm	4258.2 mm
TOP	784.88	154.05	0.00	31.24	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	187.80	735.11	863.16	601.15
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1630 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2380.0 mm SIZE: 300.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	595.0 mm	1190.0 mm	1785.0 mm	2380.0 mm
TOP	0.00	237.15	636.38	1451.08	2218.91
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	875.31	306.47	0.00	139.35	949.82
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 170 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 130 mm c/c	@ 170 mm c/c

B E A M N O. 1631 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4258.2 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1064.6 mm	2129.1 mm	3193.7 mm	4258.2 mm
TOP	2349.09	784.49	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	436.05	436.05	810.75	1393.80	1808.08
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 230 mm c/c	@ 180 mm c/c	@ 230 mm c/c	@ 230 mm c/c	@ 230 mm c/c

B E A M N O. 1632 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2380.0 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	595.0 mm	1190.0 mm	1785.0 mm	2380.0 mm
TOP	0.00	436.05	853.09	1923.45	3028.65
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1800.37	907.77	436.05	0.00	682.52
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 230 mm c/c	@ 140 mm c/c	@ 140 mm c/c	@ 140 mm c/c	@ 230 mm c/c

B E A M N O. 1633 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4010.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1002.5 mm	2005.0 mm	3007.5 mm	4010.0 mm
TOP	1134.58	363.48	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	305.72	154.45	319.73	527.66	461.80
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1634 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2680.0 mm SIZE: 300.0 mm X 500.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	670.0 mm	1340.0 mm	2010.0 mm	2680.0 mm
TOP	0.00	238.17	510.72	974.87	1515.76
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	586.88	365.56	238.17	238.17	205.58
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 170 mm c/c	@ 160 mm c/c	@ 150 mm c/c	@ 140 mm c/c	@ 170 mm c/c

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B E A M N O. 1635 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2840.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	710.0 mm	1420.0 mm	2130.0 mm	2840.0 mm
TOP	1809.00	889.04	290.19	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	290.19	290.19	430.26	653.67	1106.18
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 190 mm c/c	@ 180 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

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B E A M N O. 1636 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2840.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	710.0 mm	1420.0 mm	2130.0 mm	2840.0 mm
TOP	0.00	0.00	334.43	1045.45	1928.96
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1081.79	618.14	341.76	290.19	344.93
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 180 mm c/c	@ 190 mm c/c

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B E A M N O. 1637 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2244.8 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	561.2 mm	1122.4 mm	1683.6 mm	2244.8 mm
TOP	5900.38	4531.38	2909.96	1554.18	879.75
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)

BOTTOM	1064.08	879.75	879.75	1130.47	1954.79
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 90 mm c/c	@ 90 mm c/c	@ 90 mm c/c	@ 80 mm c/c	@ 80 mm c/c

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B E A M N O. 1638 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4195.1 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1048.8 mm	2097.6 mm	3146.3 mm	4195.1 mm
TOP	886.38	0.00	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1742.11	1951.62	2443.45	2595.80	2462.56
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

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B E A M N O. 1639 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3220.0 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	805.0 mm	1610.0 mm	2415.0 mm	3220.0 mm
TOP	0.00	884.34	1617.77	3167.10	5102.56
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	2600.66	1656.85	944.64	884.34	283.86
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 300 mm c/c	@ 120 mm c/c	@ 110 mm c/c	@ 100 mm c/c	@ 300 mm c/c

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B E A M N O. 1640 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 1418.0 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	354.5 mm	709.0 mm	1063.5 mm	1418.0 mm
TOP	3675.68	3112.23	2598.44	2128.05	1694.79
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	887.40	887.40	887.40	904.68	1124.38
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 90 mm c/c	@ 90 mm c/c	@ 90 mm c/c	@ 90 mm c/c	@ 90 mm c/c

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B E A M N O. 1641 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3323.5 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	830.9 mm	1661.7 mm	2492.6 mm	3323.5 mm
TOP	1409.71	887.40	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	903.85	1217.34	1468.64	1923.51	2283.69
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i

REINF. @ 300 mm c/c @ 150 mm c/c @ 170 mm c/c @ 200 mm c/c @ 300 mm c/c

B E A M N O. 1642 D E S I G N R E S U L T S					
M25	Fe500 (Main)		Fe415 (Sec.)		
LENGTH:	4741.5 mm	SIZE:	600.0 mm X 900.0 mm	COVER:	25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)					
SECTION	0.0 mm	1185.4 mm	2370.7 mm	3556.1 mm	4741.5 mm
TOP	0.00	0.00	1206.23	2539.52	4406.49
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	2715.05	1948.60	1330.00	886.38	886.38
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 300 mm c/c	@ 120 mm c/c	@ 100 mm c/c	@ 100 mm c/c	@ 300 mm c/c

B E A M N O. 1643 D E S I G N R E S U L T S					
M25	Fe500 (Main)		Fe415 (Sec.)		
LENGTH:	3220.0 mm	SIZE:	600.0 mm X 900.0 mm	COVER:	25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)					
SECTION	0.0 mm	805.0 mm	1610.0 mm	2415.0 mm	3220.0 mm
TOP	4383.19	3045.76	2003.45	1154.64	886.38
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	886.38	886.38	998.83	1342.95	1661.06
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 300 mm c/c	@ 110 mm c/c	@ 110 mm c/c	@ 110 mm c/c	@ 300 mm c/c

B E A M N O. 1644 D E S I G N R E S U L T S					
M25	Fe500 (Main)		Fe415 (Sec.)		
LENGTH:	4195.1 mm	SIZE:	600.0 mm X 900.0 mm	COVER:	25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)					
SECTION	0.0 mm	1048.8 mm	2097.6 mm	3146.3 mm	4195.1 mm
TOP	886.38	0.00	0.00	0.00	886.38
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1196.52	1187.20	1286.85	1326.91	1374.07
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

B E A M N O. 1645 D E S I G N R E S U L T S					
M25	Fe500 (Main)		Fe415 (Sec.)		
LENGTH:	4258.2 mm	SIZE:	300.0 mm X 600.0 mm	COVER:	25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)					
SECTION	0.0 mm	1064.6 mm	2129.1 mm	3193.7 mm	4258.2 mm
TOP	397.02	290.70	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	290.70	372.03	673.39	723.10	535.68
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

B E A M N O. 1646 D E S I G N R E S U L T S
 M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2380.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	595.0 mm	1190.0 mm	1785.0 mm	2380.0 mm
TOP	0.00	291.78	715.12	1333.66	2029.50
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	765.09	403.02	290.70	0.00	457.08
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 190 mm c/c	@ 180 mm c/c	@ 180 mm c/c	@ 170 mm c/c	@ 190 mm c/c

B E A M N O. 1647 D E S I G N R E S U L T S
 M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 1330.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	332.5 mm	665.0 mm	997.5 mm	1330.0 mm
TOP	1486.46	1099.04	773.78	496.88	290.70
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	290.70	319.28	352.50	436.91	528.72
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 140 mm c/c	@ 140 mm c/c	@ 140 mm c/c	@ 150 mm c/c	@ 150 mm c/c

B E A M N O. 1648 D E S I G N R E S U L T S
 M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2680.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	670.0 mm	1340.0 mm	2010.0 mm	2680.0 mm
TOP	290.70	0.00	0.00	290.70	580.79
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	453.22	373.48	329.30	293.28	290.70
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 170 mm c/c	@ 190 mm c/c

B E A M N O. 1649 D E S I G N R E S U L T S
 M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2680.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	670.0 mm	1340.0 mm	2010.0 mm	2680.0 mm
TOP	391.32	154.05	154.05	283.93	745.79
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	183.76	154.05	154.05	185.30	221.88
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1650 D E S I G N R E S U L T S
 M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 1224.9 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	306.2 mm	612.5 mm	918.7 mm	1224.9 mm
TOP	2458.49	1974.40	1525.21	1129.10	775.07
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	61.07	0.00	435.29	435.29	435.29
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 140 mm c/c	@ 140 mm c/c	@ 150 mm c/c

B E A M N O. 1651 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 1615.1 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	403.8 mm	807.5 mm	1211.3 mm	1615.1 mm
TOP	844.15	487.01	436.05	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	435.29	569.55	731.39	871.51	1119.30
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 230 mm c/c	@ 180 mm c/c	@ 200 mm c/c	@ 220 mm c/c	@ 230 mm c/c

B E A M N O. 1652 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 1614.9 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	403.7 mm	807.4 mm	1211.2 mm	1614.9 mm
TOP	0.00	0.00	0.00	0.00	436.05
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	811.22	682.01	531.44	436.05	436.05
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 200 mm c/c	@ 200 mm c/c	@ 200 mm c/c	@ 200 mm c/c	@ 200 mm c/c

B E A M N O. 1653 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 1225.1 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	306.3 mm	612.6 mm	918.8 mm	1225.1 mm
TOP	435.29	435.29	507.25	748.73	1008.10
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	435.29	435.29	435.29	435.29	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 180 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 190 mm c/c	@ 200 mm c/c

B E A M N O. 1654 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2244.8 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	561.2 mm	1122.4 mm	1683.6 mm	2244.8 mm
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TOP	2187.63	1295.58	585.88	581.40	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	0.00	0.00	581.40	738.49
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 230 mm c/c	@ 200 mm c/c	@ 230 mm c/c	@ 190 mm c/c	@ 230 mm c/c

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B E A M N O. 1655 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4195.1 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1048.8 mm	2097.6 mm	3146.3 mm	4195.1 mm
TOP	0.00	0.00	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	646.53	1271.82	1702.86	1731.74	1483.56
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

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B E A M N O. 1656 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3220.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	805.0 mm	1610.0 mm	2415.0 mm	3220.0 mm
TOP	0.00	0.00	581.40	852.46	1836.11
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1720.69	1075.57	581.40	581.40	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 270 mm c/c	@ 270 mm c/c	@ 220 mm c/c	@ 230 mm c/c	@ 270 mm c/c

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B E A M N O. 1657 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4258.2 mm SIZE: 230.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1064.6 mm	2129.1 mm	3193.7 mm	4258.2 mm
TOP	653.63	183.77	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	183.77	447.54	489.49	229.53
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

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B E A M N O. 1658 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2380.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	595.0 mm	1190.0 mm	1785.0 mm	2380.0 mm
TOP	0.00	154.45	266.90	774.52	1373.56
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	373.09	181.92	154.45	0.00	568.82

REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 120 mm c/c	@ 130 mm c/c

B E A M N O. 1659 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 4010.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1002.5 mm	2005.0 mm	3007.5 mm	4010.0 mm
TOP	1181.44	350.36	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	354.81	154.05	241.08	429.18	367.10
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1660 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2680.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	670.0 mm	1340.0 mm	2010.0 mm	2680.0 mm
TOP	0.00	0.00	154.45	425.08	923.49
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	385.78	237.94	154.45	0.00	79.81
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1661 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2840.0 mm SIZE: 230.0 mm X 500.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	710.0 mm	1420.0 mm	2130.0 mm	2840.0 mm
TOP	782.17	209.28	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	0.00	254.19	430.36	491.53
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

B E A M N O. 1662 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2840.0 mm SIZE: 300.0 mm X 500.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	710.0 mm	1420.0 mm	2130.0 mm	2840.0 mm
TOP	0.00	0.00	239.70	499.07	1260.77
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	460.02	293.64	239.70	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c

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B E A M N O. 1663 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 1923.5 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	480.9 mm	961.7 mm	1442.6 mm	1923.5 mm
TOP	886.38	0.00	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1988.59	2437.66	2901.67	3326.96	3713.36
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 100 mm c/c	@ 110 mm c/c	@ 120 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1664 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 1461.5 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	365.4 mm	730.8 mm	1096.1 mm	1461.5 mm
TOP	0.00	0.00	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	3877.23	3706.25	3505.80	3277.88	3024.71
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 120 mm c/c	@ 120 mm c/c	@ 120 mm c/c

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B E A M N O. 1665 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3280.0 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	820.0 mm	1640.0 mm	2460.0 mm	3280.0 mm
TOP	0.00	884.34	1207.16	2507.81	4213.38
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	2090.22	1474.06	887.40	887.40	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 300 mm c/c	@ 170 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 300 mm c/c

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B E A M N O. 1666 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3280.0 mm SIZE: 230.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	820.0 mm	1640.0 mm	2460.0 mm	3280.0 mm
TOP	400.08	183.38	183.38	183.38	183.38
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	183.38	183.38	183.38	183.38
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

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B E A M N O. 1667 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 3280.0 mm SIZE: 230.0 mm X 500.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	820.0 mm	1640.0 mm	2460.0 mm	3280.0 mm
TOP	416.45	183.38	0.00	183.38	324.06
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	200.21	203.82	183.38	183.38	183.38
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

B E A M N O. 1668 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 3280.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	820.0 mm	1640.0 mm	2460.0 mm	3280.0 mm
TOP	357.59	154.45	0.00	154.45	294.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	154.45	195.14	245.07	171.08	154.45
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1669 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 3280.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	820.0 mm	1640.0 mm	2460.0 mm	3280.0 mm
TOP	798.16	211.90	0.00	175.70	674.82
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	267.08	222.62	154.45	230.21	284.84
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1670 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 3385.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	846.2 mm	1692.5 mm	2538.7 mm	3385.0 mm
TOP	1827.90	833.80	290.19	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	290.19	290.19	525.62	821.23	1234.50
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

B E A M N O. 1671 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2818.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	704.5 mm	1409.0 mm	2113.5 mm	2818.0 mm
TOP	0.00	0.00	413.90	1159.95	1969.97
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1250.81	683.28	381.81	288.15	387.47
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 190 mm c/c

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B E A M N O. 1672 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2876.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	719.0 mm	1438.0 mm	2157.0 mm	2876.0 mm
TOP	1809.66	1159.00	690.51	459.00	465.98
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	290.70	296.19	336.73	367.82	382.35
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 190 mm c/c	@ 170 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

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B E A M N O. 1673 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 1868.5 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	467.1 mm	934.2 mm	1401.4 mm	1868.5 mm
TOP	290.70	290.70	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	288.15	456.46	600.49	730.40	928.04
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

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B E A M N O. 1674 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4744.5 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1186.1 mm	2372.2 mm	3558.4 mm	4744.5 mm
TOP	0.00	0.00	290.19	854.47	2006.19
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1102.64	895.86	516.14	290.19	448.15
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

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B E A M N O. 1675 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 6613.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1653.2 mm	3306.5 mm	4959.7 mm	6613.0 mm
TOP	1281.57	154.45	0.00	154.45	1171.34

REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	469.97	224.22	552.16	266.84	343.75
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1676 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2876.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	719.0 mm	1438.0 mm	2157.0 mm	2876.0 mm
TOP	990.54	548.61	225.51	154.05	154.05
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	154.05	154.05	154.05	154.05	191.10
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1677 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2818.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	704.5 mm	1409.0 mm	2113.5 mm	2818.0 mm
TOP	154.45	0.00	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	153.27	194.46	364.11	394.68	331.38
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1678 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3385.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	846.2 mm	1692.5 mm	2538.7 mm	3385.0 mm
TOP	0.00	0.00	154.45	403.12	994.05
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	361.12	305.77	180.73	154.45	148.24
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1679 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3280.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	820.0 mm	1640.0 mm	2460.0 mm	3280.0 mm
TOP	703.27	176.60	0.00	204.53	794.14
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	284.32	245.10	171.19	229.00	262.35
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)

SHEAR 2 legged 8i 2 legged 8i 2 legged 8i 2 legged 8i 2 legged 8i
 REINF. @ 130 mm c/c @ 130 mm c/c @ 130 mm c/c @ 130 mm c/c @ 130 mm c/c

B E A M N O. 1680 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2230.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	557.5 mm	1115.0 mm	1672.5 mm	2230.0 mm
TOP	954.08	616.47	331.13	290.70	593.41
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	920.32	578.71	288.15	0.00	288.15
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

B E A M N O. 1681 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 1780.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	445.0 mm	890.0 mm	1335.0 mm	1780.0 mm
TOP	581.40	581.40	581.40	712.85	1015.04
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	581.40	581.40	581.40	581.40	836.30
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

B E A M N O. 1682 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 450.0 mm SIZE: 600.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	112.5 mm	225.0 mm	337.5 mm	450.0 mm
TOP	1295.33	1416.19	1536.83	1664.14	1791.94
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1079.27	1116.32	1152.53	1187.86	1222.32
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 180 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c	@ 190 mm c/c

B E A M N O. 1683 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2230.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	557.5 mm	1115.0 mm	1672.5 mm	2230.0 mm
TOP	2180.98	1601.83	943.64	524.74	289.17
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	612.81	2.66	0.00	289.17	495.88
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 190 mm c/c	@ 140 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 190 mm c/c

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B E A M N O. 1684 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3280.0 mm SIZE: 300.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	820.0 mm	1640.0 mm	2460.0 mm	3280.0 mm
TOP	408.27	239.70	239.70	239.70	276.84
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	239.70	239.70	239.70	239.70	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c

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B E A M N O. 1685 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3385.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	846.2 mm	1692.5 mm	2538.7 mm	3385.0 mm
TOP	644.04	154.45	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	154.45	438.44	459.86	251.08
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1686 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2818.0 mm SIZE: 230.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	704.5 mm	1409.0 mm	2113.5 mm	2818.0 mm
TOP	0.00	183.38	183.38	440.65	922.97
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	220.32	183.38	183.38	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

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B E A M N O. 1687 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4744.5 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1186.1 mm	2372.2 mm	3558.4 mm	4744.5 mm
TOP	1181.70	202.58	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	354.46	0.00	383.43	447.25	154.45
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1688 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4744.5 mm SIZE: 230.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1186.1 mm	2372.2 mm	3558.4 mm	4744.5 mm
TOP	0.00	0.00	0.00	378.79	1325.28
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	183.77	336.09	214.05	0.00	340.46
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

B E A M N O. 1689 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4740.0 mm SIZE: 230.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1185.0 mm	2370.0 mm	3555.0 mm	4740.0 mm
TOP	1414.40	435.86	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	423.92	0.00	321.38	514.36	360.78
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 130 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

B E A M N O. 1690 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3310.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	827.5 mm	1655.0 mm	2482.5 mm	3310.0 mm
TOP	0.00	0.00	0.00	0.00	275.37
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	459.49	664.85	706.89	460.80	206.07
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 120 mm c/c	@ 130 mm c/c

B E A M N O. 1691 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 1430.0 mm SIZE: 300.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	357.5 mm	715.0 mm	1072.5 mm	1430.0 mm
TOP	239.70	377.10	584.37	882.52	1247.69
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	239.70	239.70	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 170 mm c/c	@ 140 mm c/c	@ 130 mm c/c	@ 110 mm c/c	@ 170 mm c/c

B E A M N O. 1692 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2840.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	710.0 mm	1420.0 mm	2130.0 mm	2840.0 mm
TOP	154.45	0.00	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	154.45	250.87	466.00	537.36	499.05
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1693 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2840.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	710.0 mm	1420.0 mm	2130.0 mm	2840.0 mm
TOP	0.00	0.00	285.26	929.78	1691.88
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	738.17	281.46	0.00	81.94	922.75
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1694 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2244.8 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	561.2 mm	1122.4 mm	1683.6 mm	2244.8 mm
TOP	1459.42	921.16	347.87	154.05	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	645.91	83.17	0.00	200.00	504.03
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1695 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 4195.1 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1048.8 mm	2097.6 mm	3146.3 mm	4195.1 mm
TOP	722.04	0.00	0.00	67.60	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	198.71	785.04	898.34	658.34
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1696 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 3220.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	805.0 mm	1610.0 mm	2415.0 mm	3220.0 mm
TOP	0.00	0.00	154.05	693.49	1503.71
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)

BOTTOM	789.22	419.09	154.05	0.00	705.25
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1697 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3220.0 mm SIZE: 300.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	805.0 mm	1610.0 mm	2415.0 mm	3220.0 mm
TOP	239.19	239.19	385.45	733.81	1346.03
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	407.91	381.08	292.50	239.19	51.77
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 170 mm c/c	@ 160 mm c/c	@ 140 mm c/c	@ 120 mm c/c	@ 170 mm c/c

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B E A M N O. 1698 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 2630.0 mm SIZE: 300.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	657.5 mm	1315.0 mm	1972.5 mm	2630.0 mm
TOP	290.70	290.70	455.93	758.20	1158.97
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	338.63	298.55	290.70	290.70	290.70
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 190 mm c/c	@ 180 mm c/c	@ 180 mm c/c	@ 170 mm c/c	@ 190 mm c/c

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B E A M N O. 1699 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4740.0 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1185.0 mm	2370.0 mm	3555.0 mm	4740.0 mm
TOP	3645.87	1817.34	886.38	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	886.38	886.38	983.71	1317.07	1883.50
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 300 mm c/c	@ 290 mm c/c	@ 300 mm c/c	@ 300 mm c/c	@ 300 mm c/c

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B E A M N O. 1700 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4740.0 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1185.0 mm	2370.0 mm	3555.0 mm	4740.0 mm
TOP	0.00	0.00	882.30	1832.49	3667.08
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1958.42	1297.26	913.40	879.75	879.75
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i

REINF. @ 300 mm c/c @ 300 mm c/c @ 300 mm c/c @ 270 mm c/c @ 300 mm c/c

B E A M N O. 1701 D E S I G N R E S U L T S					
M25	Fe500 (Main)		Fe415 (Sec.)		
LENGTH:	4744.5 mm	SIZE:	600.0 mm X 900.0 mm	COVER:	25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)					
SECTION	0.0 mm	1186.1 mm	2372.2 mm	3558.4 mm	4744.5 mm
TOP	3129.89	1723.10	882.30	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	882.30	882.30	882.30	1005.19	1515.10
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

B E A M N O. 1702 D E S I G N R E S U L T S					
M25	Fe500 (Main)		Fe415 (Sec.)		
LENGTH:	4744.5 mm	SIZE:	600.0 mm X 900.0 mm	COVER:	25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)					
SECTION	0.0 mm	1186.1 mm	2372.2 mm	3558.4 mm	4744.5 mm
TOP	0.00	0.00	886.38	1654.23	3066.17
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1499.93	1012.07	882.30	882.30	882.30
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

B E A M N O. 1703 D E S I G N R E S U L T S					
M25	Fe500 (Main)		Fe415 (Sec.)		
LENGTH:	2818.0 mm	SIZE:	600.0 mm X 900.0 mm	COVER:	25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)					
SECTION	0.0 mm	704.5 mm	1409.0 mm	2113.5 mm	2818.0 mm
TOP	5041.25	3391.78	2024.62	884.34	884.34
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	205.27	884.34	884.34	884.34	1367.34
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 300 mm c/c	@ 140 mm c/c	@ 140 mm c/c	@ 130 mm c/c	@ 300 mm c/c

B E A M N O. 1704 D E S I G N R E S U L T S					
M25	Fe500 (Main)		Fe415 (Sec.)		
LENGTH:	2840.0 mm	SIZE:	230.0 mm X 425.0 mm	COVER:	25.0 mm
SUMMARY OF REINF. AREA (Sq.mm)					
SECTION	0.0 mm	710.0 mm	1420.0 mm	2130.0 mm	2840.0 mm
TOP	251.40	0.00	0.00	0.00	27.16
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	154.05	237.38	556.10	771.60	859.28
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1705 D E S I G N R E S U L T S
 M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2840.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	710.0 mm	1420.0 mm	2130.0 mm	2840.0 mm
TOP	74.20	0.00	203.59	802.67	1552.12
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	904.11	413.77	154.05	0.00	760.12
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1706 D E S I G N R E S U L T S
 M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 2244.8 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	561.2 mm	1122.4 mm	1683.6 mm	2244.8 mm
TOP	1447.58	916.21	341.76	152.49	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	633.01	78.58	0.00	172.55	469.51
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1707 D E S I G N R E S U L T S
 M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 4195.1 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1048.8 mm	2097.6 mm	3146.3 mm	4195.1 mm
TOP	154.45	0.00	0.00	0.00	154.45
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	154.45	406.87	707.64	443.16	154.45
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1708 D E S I G N R E S U L T S
 M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 3220.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	805.0 mm	1610.0 mm	2415.0 mm	3220.0 mm
TOP	0.00	0.00	154.45	356.49	961.61
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	289.61	231.56	154.45	0.00	124.87
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1709 D E S I G N R E S U L T S
 M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 4744.5 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1186.1 mm	2372.2 mm	3558.4 mm	4744.5 mm
TOP	2775.07	1520.13	886.38	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	886.38	886.38	886.38	1022.67	1328.93
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 300 mm c/c	@ 230 mm c/c	@ 260 mm c/c	@ 300 mm c/c	@ 300 mm c/c

B E A M N O. 1710 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 3317.5 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	829.4 mm	1658.7 mm	2488.1 mm	3317.5 mm
TOP	0.00	0.00	887.40	887.40	1014.73
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1170.09	1017.07	923.52	887.40	887.40
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

B E A M N O. 1711 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 1427.0 mm SIZE: 600.0 mm X 900.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	356.7 mm	713.5 mm	1070.2 mm	1427.0 mm
TOP	1444.82	1822.79	2232.58	2678.90	3185.29
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	917.30	882.30	882.30	882.30	882.30
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 120 mm c/c	@ 120 mm c/c	@ 120 mm c/c	@ 120 mm c/c	@ 120 mm c/c

B E A M N O. 1712 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 3220.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	805.0 mm	1610.0 mm	2415.0 mm	3220.0 mm
TOP	154.05	0.00	154.05	191.21	548.13
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	154.05	183.87	187.77	154.05	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

B E A M N O. 1713 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)
 LENGTH: 3220.0 mm SIZE: 230.0 mm X 500.0 mm COVER: 25.0 mm
 SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	805.0 mm	1610.0 mm	2415.0 mm	3220.0 mm
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TOP	183.77	183.77	183.77	362.59	797.26
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	186.52	230.51	183.77	183.77	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

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B E A M N O. 1714 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4741.5 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1185.4 mm	2370.7 mm	3556.1 mm	4741.5 mm
TOP	1170.51	165.07	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	343.48	154.05	489.20	475.65	154.05
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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B E A M N O. 1715 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3323.5 mm SIZE: 300.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	830.9 mm	1661.7 mm	2492.6 mm	3323.5 mm
TOP	0.00	0.00	0.00	0.00	301.74
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	310.33	425.08	415.04	239.19	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c	@ 170 mm c/c

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B E A M N O. 1716 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 1418.0 mm SIZE: 300.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	354.5 mm	709.0 mm	1063.5 mm	1418.0 mm
TOP	263.07	557.53	927.71	1382.76	1761.44
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	0.00	0.00	75.88	482.96
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 170 mm c/c	@ 140 mm c/c	@ 140 mm c/c	@ 130 mm c/c	@ 170 mm c/c

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B E A M N O. 1717 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4744.5 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1186.1 mm	2372.2 mm	3558.4 mm	4744.5 mm
TOP	2292.17	718.24	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	0.00	561.90	1129.73	1397.93

REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 230 mm c/c	@ 210 mm c/c	@ 230 mm c/c	@ 230 mm c/c	@ 230 mm c/c

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B E A M N O. 1718 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3317.5 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	829.4 mm	1658.7 mm	2488.1 mm	3317.5 mm
TOP	0.00	0.00	0.00	0.00	515.14
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	1339.36	1133.67	821.88	435.29	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i	2 legged 10i
REINF.	@ 230 mm c/c	@ 230 mm c/c	@ 230 mm c/c	@ 210 mm c/c	@ 230 mm c/c

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B E A M N O. 1719 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 1427.0 mm SIZE: 450.0 mm X 600.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	356.7 mm	713.5 mm	1070.2 mm	1427.0 mm
TOP	612.99	977.64	1398.99	1891.81	2443.64
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	0.00	0.00	0.00	0.00	56.72
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i	2 legged 12i
REINF.	@ 210 mm c/c	@ 200 mm c/c	@ 180 mm c/c	@ 170 mm c/c	@ 170 mm c/c

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B E A M N O. 1720 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 4740.0 mm SIZE: 230.0 mm X 500.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	1185.0 mm	2370.0 mm	3555.0 mm	4740.0 mm
TOP	1928.67	669.33	0.00	0.00	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	990.16	0.00	296.58	662.77	662.60
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 150 mm c/c	@ 110 mm c/c	@ 150 mm c/c	@ 150 mm c/c	@ 150 mm c/c

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B E A M N O. 1721 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe415 (Sec.)

LENGTH: 3310.0 mm SIZE: 230.0 mm X 425.0 mm COVER: 25.0 mm

SUMMARY OF REINF. AREA (Sq.mm)

SECTION	0.0 mm	827.5 mm	1655.0 mm	2482.5 mm	3310.0 mm
TOP	0.00	0.00	0.00	154.45	547.86
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
BOTTOM	779.78	775.85	583.49	176.43	0.00
REINF.	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)	(Sq. mm)
SHEAR	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i	2 legged 8i
REINF.	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c	@ 130 mm c/c

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      B E A M   N O.      1722   D E S I G N   R E S U L T S
      M25                  Fe500 (Main)                  Fe415 (Sec.)
      LENGTH: 1430.0 mm    SIZE: 300.0 mm X 500.0 mm    COVER: 25.0 mm
      SUMMARY OF REINF. AREA (Sq.mm)

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SECTION      0.0 mm      357.5 mm      715.0 mm      1072.5 mm      1430.0 mm
TOP          447.21      742.74      1111.55      1488.14      1822.00
REINF.       (Sq. mm)    (Sq. mm)    (Sq. mm)    (Sq. mm)    (Sq. mm)
BOTTOM      239.70      0.00      0.00      176.43      518.98
REINF.       (Sq. mm)    (Sq. mm)    (Sq. mm)    (Sq. mm)    (Sq. mm)
SHEAR    2 legged 12i  2 legged 12i  2 legged 12i  2 legged 12i  2 legged 12i
REINF.    @ 170 mm c/c @ 160 mm c/c @ 160 mm c/c @ 160 mm c/c @ 170 mm c/c
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*****END OF BEAM DESIGN RESULTS*****

977. END CONCRETE DESIGN

978. FINISH

***** END OF THE STAAD.Pro RUN *****

FOOTING F1

Concrete Fck = 20 N/Sq.mm
Steel Fy = 415 N/Sq.mm
SBC of Soil = 250 Kn/Sq.m
Load on Footing = 1950 Kn
Moment, Mx = 5.0 Kn-m
Moment, My = 5.0 Kn-m
Area of Footing = $1.1 \times 1950/250$
= 8.6 Sq.m
Size of Footing = 2950 X 2950 mm
Netupward Pressure = $1950/(2.950 \times 2.950)$
+ $6 \times 5.0 / (2.950 \times 2.950 \times 2.950)$
+ $6 \times 5.0 / (2.950 \times 2.950 \times 2.950)$
= 226.4 Kn/Sq.m
Total Depth of Footing = 350 mm
Effective Depth = 350 - 50
= 300 mm
Width of Pedastal = 1800 mm
Cantelever Length = $(2950 - 1800)/2$
= 575 mm
Cantelever Moment = $(1.5 \times 226.4 \times 2.950 \times 0.575 \times 0.575)/2$
= 165.62 Kn-mm
Mu/bd² = $165.62 \times 10^6 / (2950 \times 300 \times 300)$
= 0.62
Percentage of Steel = 0.20
Area of Steel = $0.20 \times 2950 \times 300 / 100$
= 1770 Sq.mm
Dia of Bars = 12 mm
NO of Bars = 16
One Way Shear Force = $(0.575 - 0.300) \times 1.5 \times 226.4 \times 2.950$
= 276 Kn
One Way Shear Stress = $276 \times 1000 / (2950 \times 300)$
= 0.31 N/Sq.mm
Permissible Stress = 0.33 N/Sq.mm
HENCE SAFE
Two Way Shear Force = $1.5 \times 226.4 \times (2.950 \times 2.950)$
- $(1.800 + 0.300) \times (1.800 + 0.300)$
= 1457.8 Kn
Two Way Shear Stress = $1457.8 \times 1000 / (4 \times (1800 + 300) \times 300)$
= 0.58 N/Sq.mm
Permissible Stress = 1.12 N/Sq.mm
HENCE SAFE

FOOTING F2

Concrete Fck = 20 N/Sq.mm
 Steel Fy = 415 N/Sq.mm
 SBC of Soil = 250 Kn/Sq.m
 Load on Footing = 3179 Kn
 Moment, Mx = 5.0 Kn-m
 Moment, My = 5.0 Kn-m
 Area of Footing = 1.1 X 3179/250
 = 14.0 Sq.m
 Size of Footing = 3750 X 3750 mm
 Netupward Pressure = 3179/(3.750 X 3.750)
 + 6 X 5.0 /(3.750 X 3.750 X 3.750)
 + 6 X 5.0 /(3.750 X 3.750 X 3.750)
 = 227.2 Kn/Sq.m
 Total Depth of Footing = 400 mm
 Effective Depth = 400 - 50
 = 350 mm
 Width of Pedastal = 2400 mm
 Cantelever Length = (3750 - 2400)/2
 = 675 mm
 Cantelever Moment = (1.5 *227.2 X 3.750 X 0.675 X 0.675)/2
 = 291.14 Kn-mm
 Mu/bd² = 291.14 X 10⁶/(3750 X 350 X 350)
 = 0.63
 Percetage of Steel = 0.20
 Area of Steel = 0.20 X 3750 X 350 /100
 = 2625 Sq.mm
 Dia of Bars = 12 mm
 NO of Bars = 24
 One Way Shear Force = (0.675 - 0.350) X 1.5 X 227.2 X 3.750
 = 415 Kn
 One Way Shear Stress = 415 X 1000 / (3750 X 350)
 = 0.32 N/Sq.mm
 Permissible Stress = 0.33 N/Sq.mm
 HENCE SAFE
 Two Way Shear Force = 1.5 X 227.2 X (3.750 X 3.750
 - (2.400 + 0.350) X (2.400 + 0.350)
 = 2215.2 Kn
 Two Way Shear Stress = 2215.2 X 1000 / (4 X (2400 + 350) X 350)
 = 0.58 N/Sq.mm
 Permissible Stress = 1.12 N/Sq.mm
 HENCE SAFE

FOOTING F3

Concrete Fck = 20 N/Sq.mm
 Steel Fy = 415 N/Sq.mm
 SBC of Soil = 250 Kn/Sq.m
 Load on Footing = 4966 Kn
 Moment, Mx = 5.0 Kn-m
 Moment, My = 5.0 Kn-m
 Area of Footing = 1.1 X 4966/250
 = 21.9 Sq.m
 Size of Footing = 4700 X 4700 mm
 Netupward Pressure = 4966/(4.700 X 4.700)
 + 6 X 5.0 /(4.700 X 4.700 X 4.700)
 + 6 X 5.0 /(4.700 X 4.700 X 4.700)
 = 225.4 Kn/Sq.m
 Total Depth of Footing = 550 mm
 Effective Depth = 550 - 50
 = 500 mm
 Width of Pedastal = 2800 mm
 Cantelever Length = (4700 - 2800)/2
 = 950 mm
 Cantelever Moment = (1.5 *225.4 X 4.700 X 0.950 X 0.950)/2
 = 717.02 Kn-mm
 Mu/bd² = 717.02 X 10⁶/(4700 X 500 X 500)
 = 0.61
 Percetage of Steel = 0.20
 Area of Steel = 0.20 X 4700 X 500 /100
 = 4700 Sq.mm
 Dia of Bars = 16 mm
 NO of Bars = 24
 One Way Shear Force = (0.950 - 0.500) X 1.5 X 225.4 X 4.700
 = 715 Kn
 One Way Shear Stress = 715 X 1000 / (4700 X 500)
 = 0.30 N/Sq.mm
 Permissible Stress = 0.33 N/Sq.mm
 HENCE SAFE
 Two Way Shear Force = 1.5 X 225.4 X (4.700 X 4.700
 - (2.800 + 0.500) X (2.800 + 0.500)
 = 3786.5 Kn
 Two Way Shear Stress = 3786.5 X 1000 / (4 X (2800 + 500) X 500)
 = 0.57 N/Sq.mm
 Permissible Stress = 1.12 N/Sq.mm
 HENCE SAFE

FOOTING F4

Concrete Fck = 20 N/Sq.mm
Steel Fy = 415 N/Sq.mm
SBC of Soil = 250 Kn/Sq.m
Load on Footing = 8651 Kn
Moment, Mx = 5.0 Kn-m
Moment, My = 5.0 Kn-m
Area of Footing = $1.1 \times 8651/250$
= 38.1 Sq.m
Size of Footing = 6200 X 6200 mm
Netupward Pressure = $8651/(6.200 \times 6.200)$
+ $6 \times 5.0 / (6.200 \times 6.200 \times 6.200)$
+ $6 \times 5.0 / (6.200 \times 6.200 \times 6.200)$
= 225.3 Kn/Sq.m
Total Depth of Footing = 800 mm
Effective Depth = 800 - 50
= 750 mm
Width of Pedastal = 3300 mm
Cantelever Length = $(6200 - 3300)/2$
= 1450 mm
Cantelever Moment = $(1.5 \times 225.3 \times 6.200 \times 1.450 \times 1.450)/2$
= 2202.71 Kn-mm
Mu/bd² = $2202.71 \times 10^6 / (6200 \times 750 \times 750)$
= 0.63
Percentage of Steel = 0.20
Area of Steel = $0.20 \times 6200 \times 750 / 100$
= 9300 Sq.mm
Dia of Bars = 20 mm
NO of Bars = 30
One Way Shear Force = $(1.450 - 0.750) \times 1.5 \times 225.3 \times 6.200$
= 1467 Kn
One Way Shear Stress = $1467 \times 1000 / (6200 \times 750)$
= 0.32 N/Sq.mm
Permissible Stress = 0.33 N/Sq.mm
HENCE SAFE
Two Way Shear Force = $1.5 \times 225.3 \times (6.200 \times 6.200$
- $(3.300 + 0.750) \times (3.300 + 0.750)$
= 7447.7 Kn
Two Way Shear Stress = $7447.7 \times 1000 / (4 \times (3300 + 750) \times 750)$
= 0.61 N/Sq.mm
Permissible Stress = 1.12 N/Sq.mm
HENCE SAFE

DESIGN OF SLABS

SLAB NO = S1

Description	Typical Floor			
GRADE OF CONCRETE	M20	fck=	20	N/mm2
GRADE OF STEEL	Fe415	fy=	415	N/mm2
SLAB PANEL SIZE=	3.22	4.74	m	
LONG SPAN = Ly=	4.74	m		
SHORT SPAN = Lx=	3.22	m		
ASSUMED THICKNESS OF SLAB =		125	mm	

Ly/Lx = 1.47 <2= --Two way slab
EDGE CONDITION 1 -----> INTERIOR PANEL

(Note:IS:456-2002- clause 24.3--slab monolithic with beam can be considered as interior panel) .

BENDING MOMENT COEFFICIENTS

Short span B.M. coefficients ax1= 0.052 ax2= 0.040

Long span B.M. coefficients ay1= 0.032 ay2= 0.024

LIVE LOAD = LL	5	kN/m2	wlu=	7.500	KN/m2
FLOOR FINISH =	FF	1.5	kN/m2		
PARTITIONS/SUNKEN =	PL	1	kN/m2	wdu=	8.438 KN/m2
DEAD LOAD = DL	3.125	kN/m2			
TOTAL LOAD = w	10.63	kN/m2	wu=	15.938	KN/m2
MIN. CLEAR COVER TO REINFORCEMENT			20	mm	(min. 20mm)

EFF.DEPTH ALONG SHORT SPAN = dx= 100 mm

EFF.DEPTH ALONG LONG SPAN = dy= 91 mm

BENDING MOMENTS	Mu	Mu/bd ²	Ast in mm ²	Ast min (0.12% BD)	Ast required	Dia of bar
Spacing	Max spacing	(3d,300/ 5d,450)	Spacing provided			
Mx(+ve) = $\alpha x2 * wu * Lx^2$	6.683	0.668	193	150	193	10
Mx(-ve) = $\alpha x1 * wu * Lx^2$	8.67	0.867	253	150	253	10
My(+ve) = $\alpha y2 * wu * Lx^2$	3.966	0.479	124	150	150	8
My(-ve) = $\alpha y1 * wu * Lx^2$	5.288	0.639	167	150	167	8

CHECK FOR DEFLECTION

Area of Steel Required at mid span Ast(r)= 193 mm²

Area of Steel provided at mid span Ast(p)= 393 mm²

Percentage of Steel provided at Mid Span = 0.39 %

Stress in Steel at Service(fs)= $0.58 * fy * (Ast(r) / Ast(p))$ = 118 N/mm²

basic (l/d) ratio 26 (INTERIOR PANEL)

Modification factor for tension reinforcement (From Fig. 4 of IS 456-2000) kt= 2.00

(l/d)max=(l/d)basic*kt 52.00

(l/d) ratio provided 32.20 mm <(l/d)max----SAFE

SLAB NO = S2

Description	Typical Floor			
GRADE OF CONCRETE	M20	fck=	20	N/mm2
GRADE OF STEEL	Fe415	fy=	415	N/mm2
SLAB PANEL SIZE=	2.84	4.74	m	
LONG SPAN = Ly=	4.74	m		
SHORT SPAN = Lx=	2.84	m		
ASSUMED THICKNESS OF SLAB =			125	mm
Ly/Lx =	1.67	<2=	--Two way slab	
EDGE CONDITION	1	----->	INTERIOR PANEL	

(Note:IS:456-2002- clause 24.3--slab monolithic with beam can be considered as interior panel)

BENDING MOMENT COEFFICIENTS

Short span B.M. coefficients	ax1=	0.058	ax2=	0.044
Long span B.M. coefficients	ay1=	0.032	ay2=	0.024

LIVE LOAD = LL	5	kN/m2	wlu=	7.500	KN/m2
FLOOR FINISH = FF	1.5	kN/m2			
PARTITIONS/SUNKEN = PL	1	kN/m2	wdu=	8.438	KN/m2
DEAD LOAD = DL	3.125	kN/m2			
TOTAL LOAD = w	10.63	kN/m2	wu=	15.938	KN/m2
MIN. CLEAR COVER TO REINFORCEMENT			20	mm	(min. 20mm)

EFF.DEPTH ALONG SHORT SPAN =	dx=	101	mm
EFF.DEPTH ALONG LONG SPAN =	dy=	93	mm

BENDING MOMENTS	Mu	Mu/bd2	Ast in mm2	Ast min (0.12% BD)	Ast required	Dia of bar
Spacing	Max spacing	(3d,300/ 5d,450)	Spacing provided			
Mx (+ve) = $\alpha x2 * wu * Lx^2$	5.618	0.551	159	150	159	8
Mx (-ve) = $\alpha x1 * wu * Lx^2$	7.42	0.728	213	150	213	8
My (+ve) = $\alpha y2 * wu * Lx^2$	3.085	0.357	94	150	150	8
My (-ve) = $\alpha y1 * wu * Lx^2$	4.113	0.476	126	150	150	8

CHECK FOR DEFLECTION

Area of Steel Required at mid span	Ast(r)=	159	mm2
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Area of Steel provided at mid span	Ast(p)=	335	mm2
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Percentage of Steel provided at Mid Span =	0.33	%
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Stress in Steel at Service(fs)= $0.58 * fy * (Ast(r) / Ast(p))$	=	114	N/mm2
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basic (l/d) ratio	26	(INTERIOR PANEL)
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Modification factor for tension reinforcement (From Fig. 4 of IS 456-2000)	kt=	2.00
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(l/d)max=(l/d)basic*kt	52.00
(l/d) ratio provided	28.12 mm <(l/d)max----SAFE

SLAB NO = S3

Description	Typical Floor			
GRADE OF CONCRETE	M20	fck=	20	N/mm2
GRADE OF STEEL	Fe415	fy=	415	N/mm2
SLAB PANEL SIZE=	5.68	2.63	m	
LONG SPAN = Ly=	5.68	m		
SHORT SPAN = Lx=	2.63	m		
ASSUMED THICKNESS OF SLAB =		125	mm	
Ly/Lx =	2.16	>2-- One way slab		
EDGE CONDITION	1	-----> INTERIOR PANEL		

(Note:IS:456-2002- clause 24.3--slab monolithic with beam can be considered as interior panel)

BENDING MOMENT COEFFICIENTS

+ve B.M. coefficients for D.L. & L.L (Mid span)	+DL	16.000	+LL	12.000
-ve B.M. coefficients for D.L. & L.L (support)	-DL	12	-LL	9

LIVE LOAD = LL	5	kN/m2	wlu=	7.500	KN/m2
FLOOR FINISH = FF	1.5	kN/m2			
PARTITIONS/SUNKEN = PL	1	kN/m2	wdu=	8.438	KN/m2
DEAD LOAD = DL	3.125	kN/m2			
TOTAL LOAD = w	10.63	kN/m2	wu=	15.938	KN/m2
MIN. CLEAR COVER TO REINFORCEMENT	20	mm			(min. 20mm)

EFF.DEPTH ALONG SHORT SPAN =	dx=	101	mm
EFF.DEPTH ALONG LONG SPAN =	dy=	93	mm

BENDING MOMENTS	Mu	Mu/bd2	Ast in mm2	Ast min (0.12% BD)	Ast required	Dia of bar	
Spacing	Max spacing (3d,300/ 5d,450)		Spacing provided				
Mx(+ve) =wdu*Lx^2/16+wlu*Lx^2/12	7.971	0.781	230	150	230	8	219 300 150 O.K.
Mx(-ve) =wdu*Lx^2/12+wlu*Lx^2/9	10.63	1.042	312	150	312	8	161 300 150 O.K.
My(+)= 0.000 0.000 0	150	150	8	335	450	200	O.K.
My(-)= 0.000 0.000 0	150	150	8	335	450	200	O.K.

CHECK FOR DEFLECTION

Area of Steel Required at mid span	Ast(r)=	230	mm2
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Area of Steel provided at mid span	Ast(p)=	335	mm2
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Percentage of Steel provided at Mid Span =	0.33	%
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Stress in Steel at Service(fs)= 0.58*fy*(Ast(r)/Ast(p)) =	165	N/mm2
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basic (l/d) ratio	26	(INTERIOR PANEL)
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Modification factor for tension reinforcement (From Fig. 4 of IS 456-2000)	kt=	2.00
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(l/d)max=(l/d)basic*kt	52.00
(l/d) ratio provided	26.04 mm <(l/d)max----SAFE

SLAB NO = S4

Description	Typical Floor			
GRADE OF CONCRETE	M20	fck=	20	N/mm ²
GRADE OF STEEL	Fe415	fy=	415	N/mm ²
SLAB PANEL SIZE=	2.84	3.39	m	
LONG SPAN = Ly=	3.39	m		
SHORT SPAN = Lx=	2.84	m		
ASSUMED THICKNESS OF SLAB =		125	mm	
Ly/Lx =	1.19	<2=	--Two way slab	
EDGE CONDITION	1	----->	INTERIOR PANEL	

(Note:IS:456-2002- clause 24.3--slab monolithic with beam can be considered as interior panel)

BENDING MOMENT COEFFICIENTS

Short span B.M. coefficients	ax1=	0.043	ax2=	0.032
Long span B.M. coefficients	ay1=	0.032	ay2=	0.024

LIVE LOAD = LL	5	kN/m ²	wlu=	7.500	KN/m ²
FLOOR FINISH = FF	1.5	kN/m ²			
PARTITIONS/SUNKEN = PL	1	kN/m ²	wdu=	8.438	KN/m ²
DEAD LOAD = DL	3.125	kN/m ²			
TOTAL LOAD = w	10.63	kN/m ²	wu=	15.938	KN/m ²
MIN. CLEAR COVER TO REINFORCEMENT			20	mm	(min. 20mm)

EFF.DEPTH ALONG SHORT SPAN =	dx=	101	mm
EFF.DEPTH ALONG LONG SPAN =	dy=	93	mm

BENDING MOMENTS	Mu	Mu/bd ²	Ast in mm ²	Ast min (0.12% BD)	Ast required	Dia of bar
Spacing	Max spacing	(3d,300/ 5d,450)	Spacing provided			
Mx (+ve) = $\alpha x 2 * w u * L x ^ 2$	4.081	0.400	115	150	150	8
Mx (-ve) = $\alpha x 1 * w u * L x ^ 2$	5.48	0.537	155	150	155	8
My (+ve) = $\alpha y 2 * w u * L x ^ 2$	3.085	0.357	94	150	150	8
My (-ve) = $\alpha y 1 * w u * L x ^ 2$	4.113	0.476	126	150	150	8

CHECK FOR DEFLECTION

Area of Steel Required at mid span	Ast(r)=	150	mm ²
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Area of Steel provided at mid span	Ast(p)=	251	mm ²
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Percentage of Steel provided at Mid Span =	0.25	%
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Stress in Steel at Service(fs) = $0.58 * f y * (A s t (r) / A s t (p))$	=	144	N/mm ²
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basic (l/d) ratio	26	(INTERIOR PANEL)
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Modification factor for tension reinforcement (From Fig. 4 of IS 456-2000)	kt=	2.00
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(l/d)max=(l/d)basic*kt	52.00
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(l/d) ratio provided	28.12	mm	<(l/d)max---SAFE
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