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; MIDAS/Civil Text(MCT) File.
; Date : 2015/4/21
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*VERSION
8.3.1
*UNIT : Unit System
; FORCE, LENGTH, HEAT, TEMPER
KN , M, KCAL, C
*STRUCTYPE : Structure Type
; iSTYP, iMASS, iSMAS, bMASSOFFSET,
bSELFWEIGHT, GRAV, TEMPER,
bALIGNBEAM, bALIGNSLAB, bROTRIGID
0, 1, 1, NO, YES, 9.806, 0, NO, NO,
NO
*REBAR-MATL-CODE : Rebar Material
Code
; CONC_CODE, CONC_MDB, SRC_CODE,
SRC_MDB
KSCE-LSD12(RC), SD300,
KSCE-LSD12(RC), SD300
*NODE : Nodes
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| 1117, 240.2, -4, 0                     | 1184, 30.4, 4, 0    | 1252, 178.4, 2, 0   |
| 1118, 241, -4, 0                       | 1185, 59.6, 4, 0    | 1253, 179.3, 2, 0   |
| 1119, 250.8, -4, 0                     | 1186, 60.5, 4, 0    | 1254, 114.14, 0, 0  |
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| 1122, 0.3, -2, 0                       | 1189, 119.8, 4, 0   | 1257, 152.4, 4, 0   |
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| 1124, 30.4, -2, 0                      | 1191, 149.9, 4, 0   | 1259, 178.4, 4, 0   |
| 1125, 59.6, -2, 0                      | 1192, 150.8, 4, 0   | 1260, 179.3, 4, 0   |
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| 1127, 89.7, -2, 0                      | 1194, 180.9, 4, 0   | 1262, 150.5, -2, 0  |
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| 1129, 119.8, -2, 0                     | 1196, 211, 4, 0     | 1264, 152.4, -2, 0  |
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| 1137, 240.2, -2, 0                     | 1204, 122.3, -2, 0  | 1272, 151.5, -4, 0  |
| 1138, 241, -2, 0                       | 1205, 121.4, -2, 0  | 1273, 178.4, -4, 0  |
| 1139, 250.8, -2, 0                     | 1206, 148.3, -2, 0  | 1274, 179.3, -4, 0  |
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| 1167, 89.7, 2, 0                       | 1235, 144.24, -4, 0 | 1303, 182.5, 0, 0   |
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| 1169, 119.8, 2, 0                      | 1237, 150.2, 2, 0   | 1305, 208.5, 0, 0   |
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| 1322, 180.6, -2, 0  | 1390, 90, 0, 0                         | 1794, -9.32, 3, 0                      |
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| 1324, 182.5, -2, 0  | 1392, 211.7, -4, 0                     | 1796, -9.32, 5.075, 0                  |
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| 1326, 208.5, -2, 0  | 1394, 239.5, -4, 0                     | 1798, -8.34, -5.475, 0                 |
| 1327, 209.4, -2, 0  | 1395, 90, 2, 0                         | 1799, -8.34, -5.025, 0                 |
| 1328, 90.3, 4, 0    | 1396, 216.66, 4, 0                     | 1800, -8.34, -4, 0                     |
| 1329, 180.6, -4, 0  | 1397, 216.66, 2, 0                     | 1801, -8.34, -3, 0                     |
| 1330, 84.04, -2, 0  | 1398, 216.66, 0, 0                     | 1802, -8.34, -2, 0                     |
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| 1332, 181.6, -4, 0  | 1400, 216.66, -4, 0                    | 1804, -8.34, -1.77635683940025e-015, 0 |
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| 1335, 84.04, -4, 0  | 1403, 222.62, 0, 0                     | 1807, -8.34, 3, 0                      |
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| 1338, 186.56, 0, 0  | 1406, 228.58, 4, 0                     | 1810, -8.34, 5.525, 0                  |
| 1339, 186.56, -2, 0 | 1407, 228.58, 2, 0                     | 1811, -7.36, -5.475, 0                 |
| 1340, 186.56, -4, 0 | 1408, 228.58, 0, 0                     | 1812, -7.36, -5.025, 0                 |
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| 1349, 198.48, -2, 0 | 1417, 240.5, 2, 0                      | 1821, -7.36, 4, 0                      |
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| 1353, 204.44, 0, 0  | 1446, 1.28, 0, 0                       | 1825, -6.38, -5.025, 0                 |
| 1354, 204.44, -2, 0 | 1758, -0.2, 0, 0                       | 1826, -6.38, -4, 0                     |
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| 1358, 210.4, 4, 0   | 1762, -10.6, -5.025, 0                 | 1830, -6.38, -1.77635683940025e-015, 0 |
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| 1360, 210.4, -4, 0  | 1764, -10.6, -4, 0                     | 1832, -6.38, 2, 0                      |
| 1361, 210.7, 0, 0   | 1765, -10.3, -3, 0                     | 1833, -6.38, 3, 0                      |
| 1362, 96.26, 4, 0   | 1766, -10.6, -3, 0                     | 1834, -6.38, 4, 0                      |
| 1363, 212.6, 0, 0   | 1767, 90, -4, 0                        | 1835, -6.38, 5.075, 0                  |
| 1364, 211.7, 0, 0   | 1768, -10.6, -2, 0                     | 1836, -6.38, 5.525, 0                  |
| 1365, 238.6, 0, 0   | 1769, -10.3, -1, 0                     | 1837, -5.4, -5.475, 0                  |
| 1366, 239.5, 0, 0   | 1770, -10.6, -1, 0                     | 1838, -5.4, -5.025, 0                  |
| 1367, 96.26, 2, 0   | 1771, 119.1, 4, 0                      | 1839, -5.4, -4, 0                      |
| 1368, 210.7, 2, 0   | 1772, -10.6, -1.77635683940025e-015, 0 | 1840, -5.4, -3, 0                      |
| 1369, 120.1, 0, 0   | 1773, -10.3, 0.999999999999998, 0      | 1841, -5.4, -2, 0                      |
| 1370, 212.6, 2, 0   | 1774, -10.6, 0.999999999999998, 0      | 1842, -5.4, -1, 0                      |
| 1371, 211.7, 2, 0   | 1775, 96.26, -4, 0                     | 1843, -5.4, -1.77635683940025e-015, 0  |
| 1372, 238.6, 2, 0   | 1776, -10.6, 2, 0                      | 1844, -5.4, 0.999999999999998, 0       |
| 1373, 239.5, 2, 0   | 1777, -10.3, 3, 0                      | 1845, -5.4, 2, 0                       |
| 1374, 120.1, 2, 0   | 1778, -10.6, 3, 0                      | 1846, -5.4, 3, 0                       |
| 1375, 210.7, 4, 0   | 1779, 120.1, -4, 0                     | 1847, -5.4, 4, 0                       |
| 1376, 122.3, 2, 0   | 1780, -10.6, 4, 0                      | 1848, -5.4, 5.075, 0                   |
| 1377, 212.6, 4, 0   | 1781, -10.3, 5.075, 0                  | 1849, -5.4, 5.525, 0                   |
| 1378, 211.7, 4, 0   | 1782, -10.6, 5.075, 0                  | 1850, -4.42, -5.475, 0                 |
| 1379, 238.6, 4, 0   | 1783, -10.3, 5.525, 0                  | 1851, -4.42, -5.025, 0                 |
| 1380, 239.5, 4, 0   | 1784, -10.6, 5.525, 0                  | 1852, -4.42, -4, 0                     |
| 1381, 122.3, 4, 0   | 1785, -9.32, -5.475, 0                 | 1853, -4.42, -3, 0                     |
| 1382, 210.7, -2, 0  | 1786, -9.32, -5.025, 0                 | 1854, -4.42, -2, 0                     |
| 1383, 120.4, 2, 0   | 1787, -9.32, -4, 0                     | 1855, -4.42, -1, 0                     |
| 1384, 212.6, -2, 0  | 1788, -9.32, -3, 0                     | 1856, -4.42, -1.77635683940025e-015, 0 |
| 1385, 211.7, -2, 0  | 1789, -9.32, -2, 0                     | 1857, -4.42, 0.999999999999998, 0      |

|                                                  |                                         |                                         |
|--------------------------------------------------|-----------------------------------------|-----------------------------------------|
| 1858, -4.42, 2, 0                                | 1924, -0.1999999999999996, 4, 0         | 1992, 244.92, -5.475, 0                 |
| 1859, -4.42, 3, 0                                | 1925, -0.1999999999999996, 5.075, 0     | 1993, 244.92, -5.025, 0                 |
| 1860, -4.42, 4, 0                                | 1926, -0.1999999999999996, 5.525, 0     | 1994, 244.92, -4, 0                     |
| 1861, -4.42, 5.075, 0                            | 1927, 240.7, -5.475, 0                  | 1995, 244.92, -3, 0                     |
| 1862, -4.42, 5.525, 0                            | 1928, 241, -5.475, 0                    | 1996, 244.92, -2, 0                     |
| 1863, -3.44, -5.475, 0                           | 1929, 241, -5.025, 0                    | 1997, 244.92, -1, 0                     |
| 1864, -3.44, -5.025, 0                           | 1930, 240.7, -5.025, 0                  | 1998, 244.92, -1.77635683940025e-015, 0 |
| 1865, -3.44, -4, 0                               | 1931, 90, 4, 0                          | 1999, 244.92, 0.9999999999999998, 0     |
| 1866, -3.44, -3, 0                               | 1932, 240.7, -4, 0                      | 2000, 244.92, 2, 0                      |
| 1867, -3.44, -2, 0                               | 1933, 241, -3, 0                        | 2001, 244.92, 3, 0                      |
| 1868, -3.44, -1, 0                               | 1934, 240.7, -3, 0                      | 2002, 244.92, 4, 0                      |
| 1869, -3.44, -1.77635683940025e-015, 0           | 1935, 91.3, 4, 0                        | 2003, 244.92, 5.075, 0                  |
| 1870, -3.44, 0.9999999999999998, 0               | 1936, 240.7, -2, 0                      | 2004, 244.92, 5.525, 0                  |
| 1871, -3.44, 2, 0                                | 1937, 241, -1, 0                        | 2005, 245.9, -5.475, 0                  |
| 1872, -3.44, 3, 0                                | 1938, 240.7, -1, 0                      | 2006, 245.9, -5.025, 0                  |
| 1873, -3.44, 4, 0                                | 1939, 96.26, 0, 0                       | 2007, 245.9, -4, 0                      |
| 1874, -3.44, 5.075, 0                            | 1940, 240.7, -1.77635683940025e-015, 0  | 2008, 245.9, -3, 0                      |
| 1875, -3.44, 5.525, 0                            | 1941, 241, 0.9999999999999998, 0        | 2009, 245.9, -2, 0                      |
| 1876, -2.46, -5.475, 0                           | 1942, 240.7, 0.9999999999999998, 0      | 2010, 245.9, -1, 0                      |
| 1877, -2.46, -5.025, 0                           | 1943, 120.1, 4, 0                       | 2011, 245.9, -1.77635683940025e-015, 0  |
| 1878, -2.46, -4, 0                               | 1944, 240.7, 2, 0                       | 2012, 245.9, 0.9999999999999998, 0      |
| 1879, -2.46, -3, 0                               | 1945, 241, 3, 0                         | 2013, 245.9, 2, 0                       |
| 1880, -2.46, -2, 0                               | 1946, 240.7, 3, 0                       | 2014, 245.9, 3, 0                       |
| 1881, -2.46, -1, 0                               | 1947, 121.4, 4, 0                       | 2015, 245.9, 4, 0                       |
| 1882, -2.46, -1.77635683940025e-015, 0           | 1948, 240.7, 4, 0                       | 2016, 245.9, 5.075, 0                   |
| 1883, -2.46, 0.9999999999999998, 0               | 1949, 241, 5.075, 0                     | 2017, 245.9, 5.525, 0                   |
| 1884, -2.46, 2, 0                                | 1950, 240.7, 5.075, 0                   | 2018, 246.88, -5.475, 0                 |
| 1885, -2.46, 3, 0                                | 1951, 241, 5.525, 0                     | 2019, 246.88, -5.025, 0                 |
| 1886, -2.46, 4, 0                                | 1952, 240.7, 5.525, 0                   | 2020, 246.88, -4, 0                     |
| 1887, -2.46, 5.075, 0                            | 1953, 241.98, -5.475, 0                 | 2021, 246.88, -3, 0                     |
| 1888, -2.46, 5.525, 0                            | 1954, 241.98, -5.025, 0                 | 2022, 246.88, -2, 0                     |
| 1889, -1.48, -5.475, 0                           | 1955, 241.98, -4, 0                     | 2023, 246.88, -1, 0                     |
| 1890, -1.48, -5.025, 0                           | 1956, 241.98, -3, 0                     | 2024, 246.88, -1.77635683940025e-015, 0 |
| 1891, -1.48, -4, 0                               | 1957, 241.98, -2, 0                     | 2025, 246.88, 0.9999999999999998, 0     |
| 1892, -1.48, -3, 0                               | 1958, 241.98, -1, 0                     | 2026, 246.88, 2, 0                      |
| 1893, -1.48, -2, 0                               | 1959, 241.98, -1.77635683940025e-015, 0 | 2027, 246.88, 3, 0                      |
| 1894, -1.48, -1, 0                               | 1960, 241.98, 0.9999999999999998, 0     | 2028, 246.88, 4, 0                      |
| 1895, -1.48, -1.77635683940025e-015, 0           | 1961, 241.98, 2, 0                      | 2029, 246.88, 5.075, 0                  |
| 1896, -1.48, 0.9999999999999998, 0               | 1962, 241.98, 3, 0                      | 2030, 246.88, 5.525, 0                  |
| 1897, -1.48, 2, 0                                | 1963, 241.98, 4, 0                      | 2031, 247.86, -5.475, 0                 |
| 1898, -1.48, 3, 0                                | 1964, 241.98, 5.075, 0                  | 2032, 247.86, -5.025, 0                 |
| 1899, -1.48, 4, 0                                | 1965, 241.98, 5.525, 0                  | 2033, 247.86, -4, 0                     |
| 1900, -1.48, 5.075, 0                            | 1966, 242.96, -5.475, 0                 | 2034, 247.86, -3, 0                     |
| 1901, -1.48, 5.525, 0                            | 1967, 242.96, -5.025, 0                 | 2035, 247.86, -2, 0                     |
| 1902, -0.4999999999999996, -5.475, 0             | 1968, 242.96, -4, 0                     | 2036, 247.86, -1, 0                     |
| 1903, -0.4999999999999996, -5.025, 0             | 1969, 242.96, -3, 0                     | 2037, 247.86, -1.77635683940025e-015, 0 |
| 1904, 72.12, 4, 0                                | 1970, 242.96, -2, 0                     | 2038, 247.86, 0.9999999999999998, 0     |
| 1905, -0.4999999999999996, -3, 0                 | 1971, 242.96, -1, 0                     | 2039, 247.86, 2, 0                      |
| 1906, 90.3, 0, 0                                 | 1972, 242.96, -1.77635683940025e-015, 0 | 2040, 247.86, 3, 0                      |
| 1907, -0.4999999999999996, -1, 0                 | 1973, 242.96, 0.9999999999999998, 0     | 2041, 247.86, 4, 0                      |
| 1908, 108.18, -4, 0                              | 1974, 242.96, 2, 0                      | 2042, 247.86, 5.075, 0                  |
| 1909, -0.4999999999999996, 0.9999999999999998, 0 | 1975, 242.96, 3, 0                      | 2043, 247.86, 5.525, 0                  |
| 1910, 102.22, 4, 0                               | 1976, 242.96, 4, 0                      | 2044, 248.84, -5.475, 0                 |
| 1911, -0.4999999999999996, 3, 0                  | 1977, 242.96, 5.075, 0                  | 2045, 248.84, -5.025, 0                 |
| 1912, 120.4, 0, 0                                | 1978, 242.96, 5.525, 0                  | 2046, 248.84, -4, 0                     |
| 1913, -0.4999999999999996, 5.075, 0              | 1979, 243.94, -5.475, 0                 | 2047, 248.84, -3, 0                     |
| 1914, -0.4999999999999996, 5.525, 0              | 1980, 243.94, -5.025, 0                 | 2048, 248.84, -2, 0                     |
| 1915, -0.1999999999999996, -5.475, 0             | 1981, 243.94, -4, 0                     | 2049, 248.84, -1, 0                     |
| 1916, -0.1999999999999996, -5.025, 0             | 1982, 243.94, -3, 0                     | 2050, 248.84, -1.77635683940025e-015, 0 |
| 1917, -0.1999999999999996, -4, 0                 | 1983, 243.94, -2, 0                     | 2051, 248.84, 0.9999999999999998, 0     |
| 1918, -0.1999999999999996, -3, 0                 | 1984, 243.94, -1, 0                     | 2052, 248.84, 2, 0                      |
| 1919, -0.1999999999999996, -2, 0                 | 1985, 243.94, -1.77635683940025e-015, 0 | 2053, 248.84, 3, 0                      |
| 1920, -0.1999999999999996, -1, 0                 | 1986, 243.94, 0.9999999999999998, 0     | 2054, 248.84, 4, 0                      |
| 1921, -0.1999999999999996, 0.9999999999999998, 0 | 1987, 243.94, 2, 0                      | 2055, 248.84, 5.075, 0                  |
| 1922, -0.1999999999999996, 2, 0                  | 1988, 243.94, 3, 0                      | 2056, 248.84, 5.525, 0                  |
| 1923, -0.1999999999999996, 3, 0                  | 1989, 243.94, 4, 0                      | 2057, 249.82, -5.475, 0                 |
|                                                  | 1990, 243.94, 5.075, 0                  | 2058, 249.82, -5.025, 0                 |
|                                                  | 1991, 243.94, 5.525, 0                  | 2059, 249.82, -4, 0                     |

|                                         |                     |                                      |
|-----------------------------------------|---------------------|--------------------------------------|
| 2060, 249.82, -3, 0                     | 2128, 60.2, 2, 0    | 2196, -0.09999999999999982,          |
| 2061, 249.82, -2, 0                     | 2129, 108.18, 4, 0  | -8.88178419700125e-016, -0.4         |
| 2062, 249.82, -1, 0                     | 2130, 90.3, -4, 0   | 2197, 29.95, 0, -0.4                 |
| 2063, 249.82, -1.77635683940025e-015, 0 | 2131, 60.2, -4, 0   | 2198, 60.05, 0, -0.4                 |
| 2064, 249.82, 0.9999999999999998, 0     | 2132, 118.2, 0, 0   | 2199, 90.15, 0, -0.4                 |
| 2065, 249.82, 2, 0                      | 2133, 30.1, -4, 0   | 2200, 120.25, 0, -0.4                |
| 2066, 249.82, 3, 0                      | 2134, 30.1, 2, 0    | 2201, 150.35, 0, -0.4                |
| 2067, 249.82, 4, 0                      | 2135, 102.22, -2, 0 | 2202, 180.45, 0, -0.4                |
| 2068, 249.82, 5.075, 0                  | 2136, 47.98, -4, 0  | 2203, 210.55, 0, -0.4                |
| 2069, 249.82, 5.525, 0                  | 2137, 53.94, 4, 0   | 2204, 240.6, -8.88178419700125e-016, |
| 2070, 250.8, -5.475, 0                  | 2138, 62.1, 2, 0    | -0.4                                 |
| 2071, 250.8, -5.025, 0                  | 2139, 61.2, 2, 0    | 2205, -0.09999999999999982,          |
| 2072, 90, -2, 0                         | 2140, 78.08, 4, 0   | -8.88178419700125e-016, -1.6         |
| 2073, 250.8, -3, 0                      | 2141, 62.1, -4, 0   | 2206, 29.95, 0, -1.6                 |
| 2074, 118.2, 4, 0                       | 2142, 72.12, -2, 0  | 2207, 60.05, 0, -1.6                 |
| 2075, 250.8, -1, 0                      | 2143, 32, -4, 0     | 2208, 90.15, 0, -1.6                 |
| 2076, 96.26, -2, 0                      | 2144, 32, 2, 0      | 2209, 120.25, 0, -1.6                |
| 2077, 250.8, 0.9999999999999998, 0      | 2145, 31.1, 2, 0    | 2210, 150.35, 0, -1.6                |
| 2078, 120.1, -2, 0                      | 2146, 53.94, 2, 0   | 2211, 180.45, 0, -1.6                |
| 2079, 250.8, 3, 0                       | 2147, 53.94, 0, 0   | 2212, 210.55, 0, -1.6                |
| 2080, 148.3, 4, 0                       | 2148, 88.1, 2, 0    | 2213, 240.6, -8.88178419700125e-016, |
| 2081, 250.8, 5.075, 0                   | 2149, 89, 2, 0      | -1.6                                 |
| 2082, 250.8, 5.525, 0                   | 2150, 61.2, -4, 0   | 2214, -0.09999999999999982,          |
| 2083, 251.1, -5.475, 0                  | 2151, 88.1, -4, 0   | -8.88178419700125e-016, -2.9         |
| 2084, 251.1, -5.025, 0                  | 2152, 31.1, -4, 0   | 2215, 29.95, 0, -2.9                 |
| 2085, 251.1, -4, 0                      | 2153, 58, -4, 0     | 2216, 60.05, 0, -2.9                 |
| 2086, 251.1, -3, 0                      | 2154, 58, 2, 0      | 2217, 90.15, 0, -2.9                 |
| 2087, 251.1, -2, 0                      | 2155, 58.9, 2, 0    | 2218, 120.25, 0, -2.9                |
| 2088, 251.1, -1, 0                      | 2156, 53.94, -2, 0  | 2219, 150.35, 0, -2.9                |
| 2089, 251.1, 0, 0                       | 2157, 53.94, -4, 0  | 2220, 180.45, 0, -2.9                |
| 2090, 251.1, 0.9999999999999998, 0      | 2158, 108.18, 2, 0  | 2221, 210.55, 0, -2.9                |
| 2091, 251.1, 2, 0                       | 2159, 60.2, 4, 0    | 2222, 240.6, -8.88178419700125e-016, |
| 2092, 251.1, 3, 0                       | 2160, 89, -4, 0     | -2.9                                 |
| 2093, 251.1, 4, 0                       | 2161, 78.08, 2, 0   | 2223, -0.09999999999999982,          |
| 2094, 251.1, 5.075, 0                   | 2162, 58.9, -4, 0   | -8.88178419700125e-016, -8.9         |
| 2095, 251.1, 5.525, 0                   | 2163, 72.12, -4, 0  | 2224, 29.95, 0, -8.9                 |
| 2096, 42.02, 2, 0                       | 2164, 102.22, -4, 0 | 2225, 60.05, 0, -8.9                 |
| 2097, 118.2, -2, 0                      | 2165, 30.1, 4, 0    | 2226, 90.15, 0, -8.9                 |
| 2098, 60.2, -2, 0                       | 2166, 59.9, 0, 0    | 2227, 120.25, 0, -8.9                |
| 2099, 30.1, -2, 0                       | 2167, 59.9, 2, 0    | 2228, 150.35, 0, -8.9                |
| 2100, 92.2, -2, 0                       | 2168, 149.2, 0, 0   | 2229, 180.45, 0, -8.9                |
| 2101, 42.02, 0, 0                       | 2169, 62.1, 4, 0    | 2230, 210.55, 0, -8.9                |
| 2102, 62.1, 0, 0                        | 2170, 66.16, 4, 0   | 2231, 240.6, -8.88178419700125e-016, |
| 2103, 119.1, 0, 0                       | 2171, 66.16, 2, 0   | -8.9                                 |
| 2104, 91.3, 0, 0                        | 2172, 36.06, 4, 0   | 2232, -0.09999999999999982,          |
| 2105, 32, 0, 0                          | 2173, 36.06, 2, 0   | -8.88178419700125e-016, -4.9         |
| 2106, 42.02, -2, 0                      | 2174, 121.4, 0, 0   | 2233, -0.09999999999999982,          |
| 2107, 42.02, -4, 0                      | 2175, 32, 4, 0      | -8.88178419700125e-016, -6.9         |
| 2108, 61.2, 0, 0                        | 2176, 72.12, 0, 0   | 2234, 29.95, 0, -4.9                 |
| 2109, 88.1, 0, 0                        | 2177, 58.9, 4, 0    | 2235, 29.95, 0, -6.9                 |
| 2110, 62.1, -2, 0                       | 2178, 36.06, -4, 0  | 2236, 60.05, 0, -4.9                 |
| 2111, 61.2, -2, 0                       | 2179, 59.9, -4, 0   | 2237, 60.05, 0, -6.9                 |
| 2112, 32, -2, 0                         | 2180, 89, 4, 0      | 2238, 90.15, 0, -4.9                 |
| 2113, 31.1, -2, 0                       | 2181, 30.1, 0, 0    | 2239, 90.15, 0, -6.9                 |
| 2114, 31.1, 0, 0                        | 2182, 148.3, 0, 0   | 2240, 120.25, 0, -4.9                |
| 2115, 58, 0, 0                          | 2183, 42.02, 4, 0   | 2241, 120.25, 0, -6.9                |
| 2116, 47.98, 4, 0                       | 2184, 60.2, 0, 0    | 2242, 150.35, 0, -4.9                |
| 2117, 47.98, 2, 0                       | 2185, 92.2, -4, 0   | 2243, 150.35, 0, -6.9                |
| 2118, 89, 0, 0                          | 2186, 31.1, 4, 0    | 2244, 180.45, 0, -4.9                |
| 2119, 119.1, -2, 0                      | 2187, 36.06, 0, 0   | 2245, 180.45, 0, -6.9                |
| 2120, 88.1, -2, 0                       | 2188, 59.9, 4, 0    | 2246, 210.55, 0, -4.9                |
| 2121, 89, -2, 0                         | 2189, 61.2, 4, 0    | 2247, 210.55, 0, -6.9                |
| 2122, 58, -2, 0                         | 2190, 66.16, 0, 0   | 2248, 240.6, -8.88178419700125e-016, |
| 2123, 58.9, -2, 0                       | 2191, 58, 4, 0      | -4.9                                 |
| 2124, 58.9, 0, 0                        | 2192, 36.06, -2, 0  | 2249, 240.6, -8.88178419700125e-016, |
| 2125, 91.3, -2, 0                       | 2193, 59.9, -2, 0   | -6.9                                 |
| 2126, 47.98, 0, 0                       | 2194, 88.1, 4, 0    | 2250, 30.25, 4, 0                    |
| 2127, 47.98, -2, 0                      | 2195, 66.16, -2, 0  | *ELEMENT ; Elements                  |

```

; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE,
ISUB, EXVAL, iOPT(EXVAL2) ; Frame
Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE,
ISUB, EXVAL, EXVAL2, bLMT ; Comp/Tens
Truss
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4,
ISUB, iWID ; Planar Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4,
iN5, iN6, iN7, iN8 ; Solid Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, REF, RPX,
RPY, RPZ, ISUB, EXVAL ; Frame(Ref. Point)
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5, BEAM , 1, 3, 5, 6,
0
6, BEAM , 1, 2, 6, 1143,
0
7, BEAM , 1, 2, 8, 1162,
0
8, BEAM , 1, 3, 10, 9,
0
11, BEAM , 1, 3, 12, 13,
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12, BEAM , 1, 2, 13, 1163,
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13, BEAM , 1, 2, 15, 1182,
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14, BEAM , 1, 3, 17, 16,
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17, BEAM , 1, 3, 19, 20,
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18, BEAM , 1, 2, 20, 1183,
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19, BEAM , 1, 2, 22, 1122,
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| 1367, BEAM , 1, 2, 2162, 1105, 0 | 1401, BEAM , 4, 4, 2107, 2106, 0 | 1435, BEAM , 1, 2, 2159, 1186, 0 |
| 1368, BEAM , 1, 1, 2175, 2172, 0 | 1402, BEAM , 4, 4, 2106, 2101, 0 | 1436, BEAM , 1, 3, 2169, 2189, 0 |
| 1369, BEAM , 1, 1, 2144, 2173, 0 | 1403, BEAM , 4, 4, 2101, 2096, 0 | 1437, BEAM , 1, 3, 2194, 2180, 0 |
| 1370, BEAM , 1, 1, 2105, 2187, 0 | 1404, BEAM , 4, 4, 2096, 2183, 0 | 1438, BEAM , 1, 2, 2180, 1187, 0 |
| 1371, BEAM , 1, 1, 2112, 2192, 0 | 1405, BEAM , 4, 4, 2136, 2127, 0 | 1439, BEAM , 1, 2, 2098, 1126, 0 |
| 1372, BEAM , 1, 1, 2143, 2178, 0 | 1406, BEAM , 4, 4, 2127, 2126, 0 | 1440, BEAM , 1, 3, 2110, 2111, 0 |
| 1373, BEAM , 1, 1, 2172, 2183, 0 | 1407, BEAM , 4, 4, 2126, 2117, 0 | 1441, BEAM , 1, 3, 2120, 2121, 0 |
| 1374, BEAM , 1, 1, 2173, 2096, 0 | 1408, BEAM , 4, 4, 2117, 2116, 0 | 1442, BEAM , 1, 2, 2121, 1127, 0 |
| 1375, BEAM , 1, 1, 2187, 2101, 0 | 1409, BEAM , 4, 4, 2157, 2156, 0 | 1443, BEAM , 1, 2, 2131, 1106, 0 |
| 1376, BEAM , 1, 1, 2192, 2106, 0 | 1410, BEAM , 4, 4, 2156, 2147, 0 | 1444, BEAM , 1, 3, 2141, 2150, 0 |
| 1377, BEAM , 1, 1, 2178, 2107, 0 | 1411, BEAM , 4, 4, 2147, 2146, 0 | 1445, BEAM , 1, 3, 2151, 2160, 0 |
| 1378, BEAM , 1, 1, 2183, 2116, 0 | 1412, BEAM , 4, 4, 2146, 2137, 0 | 1446, BEAM , 1, 2, 2160, 1107, 0 |
| 1379, BEAM , 1, 1, 2096, 2117, 0 | 1413, BEAM , 4, 4, 2162, 2123, 0 | 1447, BEAM , 1, 1, 2169, 2170, 0 |
| 1380, BEAM , 1, 1, 2101, 2126, 0 | 1414, BEAM , 4, 4, 2123, 2124, 0 | 1448, BEAM , 1, 1, 2138, 2171, 0 |
| 1381, BEAM , 1, 1, 2106, 2127, 0 | 1415, BEAM , 4, 4, 2124, 2155, 0 | 1449, BEAM , 1, 1, 2102, 2190, 0 |
| 1382, BEAM , 1, 1, 2107, 2136, 0 | 1416, BEAM , 4, 4, 2155, 2177, 0 | 1450, BEAM , 1, 1, 2110, 2195, 0 |
| 1383, BEAM , 1, 1, 2116, 2137, 0 | 1417, BEAM , 1, 2, 1144, 2114, 0 | 1451, BEAM , 1, 1, 2141, 1763, 0 |
| 1384, BEAM , 1, 1, 2117, 2146, 0 | 1418, BEAM , 1, 2, 1164, 2145, 0 | 1452, BEAM , 1, 1, 2170, 1904, 0 |
| 1385, BEAM , 1, 1, 2126, 2147, 0 | 1419, BEAM , 1, 2, 1184, 2186, 0 | 1453, BEAM , 1, 1, 2171, 910, 0  |
| 1386, BEAM , 1, 1, 2127, 2156, 0 | 1420, BEAM , 1, 2, 1124, 2113, 0 | 1454, BEAM , 1, 1, 2190, 2176, 0 |
| 1387, BEAM , 1, 1, 2136, 2157, 0 | 1421, BEAM , 1, 2, 1104, 2152, 0 | 1455, BEAM , 1, 1, 2195, 2142, 0 |
| 1388, BEAM , 1, 1, 2137, 2191, 0 | 1422, BEAM , 1, 2, 1145, 2166, 0 | 1456, BEAM , 1, 1, 1763, 2163, 0 |
| 1389, BEAM , 1, 1, 2146, 2154, 0 | 1423, BEAM , 1, 2, 1165, 2167, 0 | 1457, BEAM , 1, 1, 1904, 2140, 0 |
| 1390, BEAM , 1, 1, 2147, 2115, 0 | 1424, BEAM , 1, 2, 1185, 2188, 0 | 1458, BEAM , 1, 1, 910, 2161, 0  |
| 1391, BEAM , 1, 1, 2156, 2122, 0 | 1425, BEAM , 1, 2, 1125, 2193, 0 | 1459, BEAM , 1, 1, 2176, 908, 0  |
| 1392, BEAM , 1, 1, 2157, 2153, 0 | 1426, BEAM , 1, 2, 1105, 2179, 0 | 1460, BEAM , 1, 1, 2142, 1307, 0 |
| 1393, BEAM , 4, 4, 2152, 2113, 0 | 1427, BEAM , 1, 2, 2184, 1146, 0 | 1461, BEAM , 1, 1, 2163, 1210, 0 |
| 1394, BEAM , 4, 4, 2113, 2114, 0 | 1428, BEAM , 1, 3, 2102, 2108, 0 | 1462, BEAM , 1, 1, 2140, 1215, 0 |
| 1395, BEAM , 4, 4, 2114, 2145, 0 | 1429, BEAM , 1, 3, 2109, 2118, 0 | 1463, BEAM , 1, 1, 2161, 1270, 0 |
| 1396, BEAM , 4, 4, 2145, 2186, 0 | 1430, BEAM , 1, 2, 2118, 1147, 0 | 1464, BEAM , 1, 1, 908, 1275, 0  |
| 1397, BEAM , 4, 4, 2178, 2192, 0 | 1431, BEAM , 1, 2, 2128, 1166, 0 | 1465, BEAM , 1, 1, 1307, 1330, 0 |
| 1398, BEAM , 4, 4, 2192, 2187, 0 | 1432, BEAM , 1, 3, 2138, 2139, 0 | 1466, BEAM , 1, 1, 1210, 1335, 0 |
| 1399, BEAM , 4, 4, 2187, 2173, 0 | 1433, BEAM , 1, 3, 2148, 2149, 0 | 1467, BEAM , 1, 1, 1215, 2194, 0 |
| 1400, BEAM , 4, 4, 2173, 2172, 0 | 1434, BEAM , 1, 2, 2149, 1167, 0 | 1468, BEAM , 1, 1, 1270, 2148, 0 |

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| 1469, BEAM , 1, 1, 1275, 2109, 0 | 1503, BEAM , 1, 2, 1187, 1931, 0 | 1537, BEAM , 1, 1, 907, 2158, 0  |
| 1470, BEAM , 1, 1, 1330, 2120, 0 | 1504, BEAM , 1, 2, 1127, 2072, 0 | 1538, BEAM , 1, 1, 997, 909, 0   |
| 1471, BEAM , 1, 1, 1335, 2151, 0 | 1505, BEAM , 1, 2, 1107, 1767, 0 | 1539, BEAM , 1, 1, 2135, 1323, 0 |
| 1472, BEAM , 4, 4, 2150, 2111, 0 | 1506, BEAM , 1, 2, 1906, 1148, 0 | 1540, BEAM , 1, 1, 2164, 1908, 0 |
| 1473, BEAM , 4, 4, 2111, 2108, 0 | 1507, BEAM , 1, 3, 999, 2104, 0  | 1541, BEAM , 1, 1, 2129, 1316, 0 |
| 1474, BEAM , 4, 4, 2108, 2139, 0 | 1508, BEAM , 1, 3, 2132, 2103, 0 | 1542, BEAM , 1, 1, 2158, 1249, 0 |
| 1475, BEAM , 4, 4, 2139, 2189, 0 | 1509, BEAM , 1, 2, 2103, 1149, 0 | 1543, BEAM , 1, 1, 909, 1254, 0  |
| 1476, BEAM , 4, 4, 1763, 2195, 0 | 1510, BEAM , 1, 2, 996, 1168, 0  | 1544, BEAM , 1, 1, 1323, 1309, 0 |
| 1477, BEAM , 4, 4, 2195, 2190, 0 | 1511, BEAM , 1, 3, 1203, 1208, 0 | 1545, BEAM , 1, 1, 1908, 1314, 0 |
| 1478, BEAM , 4, 4, 2190, 2171, 0 | 1512, BEAM , 1, 3, 1263, 1268, 0 | 1546, BEAM , 1, 1, 1316, 2074, 0 |
| 1479, BEAM , 4, 4, 2171, 2170, 0 | 1513, BEAM , 1, 2, 1268, 1169, 0 | 1547, BEAM , 1, 1, 1249, 1263, 0 |
| 1480, BEAM , 4, 4, 2163, 2142, 0 | 1514, BEAM , 1, 2, 1328, 1188, 0 | 1548, BEAM , 1, 1, 1254, 2132, 0 |
| 1481, BEAM , 4, 4, 2142, 2176, 0 | 1515, BEAM , 1, 3, 1388, 1935, 0 | 1549, BEAM , 1, 1, 1309, 2097, 0 |
| 1482, BEAM , 4, 4, 2176, 910, 0  | 1516, BEAM , 1, 3, 2074, 1771, 0 | 1550, BEAM , 1, 1, 1314, 1247, 0 |
| 1483, BEAM , 4, 4, 910, 1904, 0  | 1517, BEAM , 1, 2, 1771, 1189, 0 | 1551, BEAM , 4, 4, 1242, 2125, 0 |
| 1484, BEAM , 4, 4, 1210, 1307, 0 | 1518, BEAM , 1, 2, 906, 1128, 0  | 1552, BEAM , 4, 4, 2125, 2104, 0 |
| 1485, BEAM , 4, 4, 1307, 908, 0  | 1519, BEAM , 1, 3, 2100, 2125, 0 | 1553, BEAM , 4, 4, 2104, 1208, 0 |
| 1486, BEAM , 4, 4, 908, 2161, 0  | 1520, BEAM , 1, 3, 2097, 2119, 0 | 1554, BEAM , 4, 4, 1208, 1935, 0 |
| 1487, BEAM , 4, 4, 2161, 2140, 0 | 1521, BEAM , 1, 2, 2119, 1129, 0 | 1555, BEAM , 4, 4, 1775, 2076, 0 |
| 1488, BEAM , 4, 4, 1335, 1330, 0 | 1522, BEAM , 1, 2, 2130, 1108, 0 | 1556, BEAM , 4, 4, 2076, 1939, 0 |
| 1489, BEAM , 4, 4, 1330, 1275, 0 | 1523, BEAM , 1, 3, 2185, 1242, 0 | 1557, BEAM , 4, 4, 1939, 1367, 0 |
| 1490, BEAM , 4, 4, 1275, 1270, 0 | 1524, BEAM , 1, 3, 1247, 1302, 0 | 1558, BEAM , 4, 4, 1367, 1362, 0 |
| 1491, BEAM , 4, 4, 1270, 1215, 0 | 1525, BEAM , 1, 2, 1302, 1109, 0 | 1559, BEAM , 4, 4, 2164, 2135, 0 |
| 1492, BEAM , 4, 4, 2160, 2121, 0 | 1526, BEAM , 1, 1, 1388, 1362, 0 | 1560, BEAM , 4, 4, 2135, 997, 0  |
| 1493, BEAM , 4, 4, 2121, 2118, 0 | 1527, BEAM , 1, 1, 1203, 1367, 0 | 1561, BEAM , 4, 4, 997, 907, 0   |
| 1494, BEAM , 4, 4, 2118, 2149, 0 | 1528, BEAM , 1, 1, 999, 1939, 0  | 1562, BEAM , 4, 4, 907, 1910, 0  |
| 1495, BEAM , 4, 4, 2149, 2180, 0 | 1529, BEAM , 1, 1, 2100, 2076, 0 | 1563, BEAM , 4, 4, 1908, 1323, 0 |
| 1496, BEAM , 1, 2, 1146, 2108, 0 | 1530, BEAM , 1, 1, 2185, 1775, 0 | 1564, BEAM , 4, 4, 1323, 909, 0  |
| 1497, BEAM , 1, 2, 1166, 2139, 0 | 1531, BEAM , 1, 1, 1362, 1910, 0 | 1565, BEAM , 4, 4, 909, 2158, 0  |
| 1498, BEAM , 1, 2, 1186, 2189, 0 | 1532, BEAM , 1, 1, 1367, 907, 0  | 1566, BEAM , 4, 4, 2158, 2129, 0 |
| 1499, BEAM , 1, 2, 1126, 2111, 0 | 1533, BEAM , 1, 1, 1939, 997, 0  | 1567, BEAM , 4, 4, 1314, 1309, 0 |
| 1500, BEAM , 1, 2, 1106, 2150, 0 | 1534, BEAM , 1, 1, 2076, 2135, 0 | 1568, BEAM , 4, 4, 1309, 1254, 0 |
| 1501, BEAM , 1, 2, 1147, 1390, 0 | 1535, BEAM , 1, 1, 1775, 2164, 0 | 1569, BEAM , 4, 4, 1254, 1249, 0 |
| 1502, BEAM , 1, 2, 1167, 1395, 0 | 1536, BEAM , 1, 1, 1910, 2129, 0 | 1570, BEAM , 4, 4, 1249, 1316, 0 |

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| 1571, BEAM , 4, 4, 1302, 2119, 0 | 1605, BEAM , 1, 1, 1381, 1216, 0 | 1639, BEAM , 4, 4, 1224, 1223, 0 |
| 1572, BEAM , 4, 4, 2119, 2103, 0 | 1606, BEAM , 1, 1, 1376, 1217, 0 | 1640, BEAM , 4, 4, 1223, 1222, 0 |
| 1573, BEAM , 4, 4, 2103, 1268, 0 | 1607, BEAM , 1, 1, 998, 1218, 0  | 1641, BEAM , 4, 4, 1222, 1221, 0 |
| 1574, BEAM , 4, 4, 1268, 1771, 0 | 1608, BEAM , 1, 1, 1204, 1219, 0 | 1642, BEAM , 4, 4, 1230, 1229, 0 |
| 1575, BEAM , 1, 2, 1148, 2104, 0 | 1609, BEAM , 1, 1, 1211, 1220, 0 | 1643, BEAM , 4, 4, 1229, 1228, 0 |
| 1576, BEAM , 1, 2, 1168, 1208, 0 | 1610, BEAM , 1, 1, 1216, 1221, 0 | 1644, BEAM , 4, 4, 1228, 1227, 0 |
| 1577, BEAM , 1, 2, 1188, 1935, 0 | 1611, BEAM , 1, 1, 1217, 1222, 0 | 1645, BEAM , 4, 4, 1227, 1226, 0 |
| 1578, BEAM , 1, 2, 1128, 2125, 0 | 1612, BEAM , 1, 1, 1218, 1223, 0 | 1646, BEAM , 4, 4, 1235, 1234, 0 |
| 1579, BEAM , 1, 2, 1108, 1242, 0 | 1613, BEAM , 1, 1, 1219, 1224, 0 | 1647, BEAM , 4, 4, 1234, 1233, 0 |
| 1580, BEAM , 1, 2, 1149, 1369, 0 | 1614, BEAM , 1, 1, 1220, 1225, 0 | 1648, BEAM , 4, 4, 1233, 1232, 0 |
| 1581, BEAM , 1, 2, 1169, 1374, 0 | 1615, BEAM , 1, 1, 1221, 1226, 0 | 1649, BEAM , 4, 4, 1232, 1231, 0 |
| 1582, BEAM , 1, 2, 1189, 1943, 0 | 1616, BEAM , 1, 1, 1222, 1227, 0 | 1650, BEAM , 4, 4, 1214, 1207, 0 |
| 1583, BEAM , 1, 2, 1129, 2078, 0 | 1617, BEAM , 1, 1, 1223, 1228, 0 | 1651, BEAM , 4, 4, 1207, 2168, 0 |
| 1584, BEAM , 1, 2, 1109, 1779, 0 | 1618, BEAM , 1, 1, 1224, 1229, 0 | 1652, BEAM , 4, 4, 2168, 1261, 0 |
| 1585, BEAM , 1, 2, 1912, 1150, 0 | 1619, BEAM , 1, 1, 1225, 1230, 0 | 1653, BEAM , 4, 4, 1261, 1200, 0 |
| 1586, BEAM , 1, 3, 998, 2174, 0  | 1620, BEAM , 1, 1, 1226, 1231, 0 | 1654, BEAM , 1, 2, 1150, 2174, 0 |
| 1587, BEAM , 1, 3, 2182, 2168, 0 | 1621, BEAM , 1, 1, 1227, 1232, 0 | 1655, BEAM , 1, 2, 1170, 1201, 0 |
| 1588, BEAM , 1, 2, 2168, 1151, 0 | 1622, BEAM , 1, 1, 1228, 1233, 0 | 1656, BEAM , 1, 2, 1190, 1947, 0 |
| 1589, BEAM , 1, 2, 1383, 1170, 0 | 1623, BEAM , 1, 1, 1229, 1234, 0 | 1657, BEAM , 1, 2, 1130, 1205, 0 |
| 1590, BEAM , 1, 3, 1376, 1201, 0 | 1624, BEAM , 1, 1, 1230, 1235, 0 | 1658, BEAM , 1, 2, 1110, 1212, 0 |
| 1591, BEAM , 1, 3, 1256, 1261, 0 | 1625, BEAM , 1, 1, 1231, 2080, 0 | 1659, BEAM , 1, 2, 1151, 1236, 0 |
| 1592, BEAM , 1, 2, 1261, 1171, 0 | 1626, BEAM , 1, 1, 1232, 1256, 0 | 1660, BEAM , 1, 2, 1171, 1237, 0 |
| 1593, BEAM , 1, 2, 1321, 1190, 0 | 1627, BEAM , 1, 1, 1233, 2182, 0 | 1661, BEAM , 1, 2, 1191, 1238, 0 |
| 1594, BEAM , 1, 3, 1381, 1947, 0 | 1628, BEAM , 1, 1, 1234, 1206, 0 | 1662, BEAM , 1, 2, 1131, 1239, 0 |
| 1595, BEAM , 1, 3, 2080, 1200, 0 | 1629, BEAM , 1, 1, 1235, 1213, 0 | 1663, BEAM , 1, 2, 1111, 1240, 0 |
| 1596, BEAM , 1, 2, 1200, 1191, 0 | 1630, BEAM , 4, 4, 1212, 1205, 0 | 1664, BEAM , 1, 2, 1241, 1152, 0 |
| 1597, BEAM , 1, 2, 1202, 1130, 0 | 1631, BEAM , 4, 4, 1205, 2174, 0 | 1665, BEAM , 1, 3, 1243, 1244, 0 |
| 1598, BEAM , 1, 3, 1204, 1205, 0 | 1632, BEAM , 4, 4, 2174, 1201, 0 | 1666, BEAM , 1, 3, 1245, 1246, 0 |
| 1599, BEAM , 1, 3, 1206, 1207, 0 | 1633, BEAM , 4, 4, 1201, 1947, 0 | 1667, BEAM , 1, 2, 1246, 1153, 0 |
| 1600, BEAM , 1, 2, 1207, 1131, 0 | 1634, BEAM , 4, 4, 1220, 1219, 0 | 1668, BEAM , 1, 2, 1248, 1172, 0 |
| 1601, BEAM , 1, 2, 1209, 1110, 0 | 1635, BEAM , 4, 4, 1219, 1218, 0 | 1669, BEAM , 1, 3, 1250, 1251, 0 |
| 1602, BEAM , 1, 3, 1211, 1212, 0 | 1636, BEAM , 4, 4, 1218, 1217, 0 | 1670, BEAM , 1, 3, 1252, 1253, 0 |
| 1603, BEAM , 1, 3, 1213, 1214, 0 | 1637, BEAM , 4, 4, 1217, 1216, 0 | 1671, BEAM , 1, 2, 1253, 1173, 0 |
| 1604, BEAM , 1, 2, 1214, 1111, 0 | 1638, BEAM , 4, 4, 1225, 1224, 0 | 1672, BEAM , 1, 2, 1255, 1192, 0 |

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| 1673, BEAM , 1, 3, 1257, 1258, 0 | 1707, BEAM , 1, 1, 1294, 1266, 0 | 1741, BEAM , 1, 2, 1133, 1299, 0 |
| 1674, BEAM , 1, 3, 1259, 1260, 0 | 1708, BEAM , 1, 1, 1295, 1273, 0 | 1742, BEAM , 1, 2, 1113, 1300, 0 |
| 1675, BEAM , 1, 2, 1260, 1193, 0 | 1709, BEAM , 4, 4, 1272, 1265, 0 | 1743, BEAM , 1, 2, 1301, 1154, 0 |
| 1676, BEAM , 1, 2, 1262, 1132, 0 | 1710, BEAM , 4, 4, 1265, 1244, 0 | 1744, BEAM , 1, 3, 1303, 1304, 0 |
| 1677, BEAM , 1, 3, 1264, 1265, 0 | 1711, BEAM , 4, 4, 1244, 1251, 0 | 1745, BEAM , 1, 3, 1305, 1306, 0 |
| 1678, BEAM , 1, 3, 1266, 1267, 0 | 1712, BEAM , 4, 4, 1251, 1258, 0 | 1746, BEAM , 1, 2, 1306, 1155, 0 |
| 1679, BEAM , 1, 2, 1267, 1133, 0 | 1713, BEAM , 4, 4, 1280, 1279, 0 | 1747, BEAM , 1, 2, 1308, 1174, 0 |
| 1680, BEAM , 1, 2, 1269, 1112, 0 | 1714, BEAM , 4, 4, 1279, 1278, 0 | 1748, BEAM , 1, 3, 1310, 1311, 0 |
| 1681, BEAM , 1, 3, 1271, 1272, 0 | 1715, BEAM , 4, 4, 1278, 1277, 0 | 1749, BEAM , 1, 3, 1312, 1313, 0 |
| 1682, BEAM , 1, 3, 1273, 1274, 0 | 1716, BEAM , 4, 4, 1277, 1276, 0 | 1750, BEAM , 1, 2, 1313, 1175, 0 |
| 1683, BEAM , 1, 2, 1274, 1113, 0 | 1717, BEAM , 4, 4, 1285, 1284, 0 | 1751, BEAM , 1, 2, 1315, 1194, 0 |
| 1684, BEAM , 1, 1, 1257, 1276, 0 | 1718, BEAM , 4, 4, 1284, 1283, 0 | 1752, BEAM , 1, 3, 1317, 1318, 0 |
| 1685, BEAM , 1, 1, 1250, 1277, 0 | 1719, BEAM , 4, 4, 1283, 1282, 0 | 1753, BEAM , 1, 3, 1319, 1320, 0 |
| 1686, BEAM , 1, 1, 1243, 1278, 0 | 1720, BEAM , 4, 4, 1282, 1281, 0 | 1754, BEAM , 1, 2, 1320, 1195, 0 |
| 1687, BEAM , 1, 1, 1264, 1279, 0 | 1721, BEAM , 4, 4, 1290, 1289, 0 | 1755, BEAM , 1, 2, 1322, 1134, 0 |
| 1688, BEAM , 1, 1, 1271, 1280, 0 | 1722, BEAM , 4, 4, 1289, 1288, 0 | 1756, BEAM , 1, 3, 1324, 1325, 0 |
| 1689, BEAM , 1, 1, 1276, 1281, 0 | 1723, BEAM , 4, 4, 1288, 1287, 0 | 1757, BEAM , 1, 3, 1326, 1327, 0 |
| 1690, BEAM , 1, 1, 1277, 1282, 0 | 1724, BEAM , 4, 4, 1287, 1286, 0 | 1758, BEAM , 1, 2, 1327, 1135, 0 |
| 1691, BEAM , 1, 1, 1278, 1283, 0 | 1725, BEAM , 4, 4, 1295, 1294, 0 | 1759, BEAM , 1, 2, 1329, 1114, 0 |
| 1692, BEAM , 1, 1, 1279, 1284, 0 | 1726, BEAM , 4, 4, 1294, 1293, 0 | 1760, BEAM , 1, 3, 1331, 1332, 0 |
| 1693, BEAM , 1, 1, 1280, 1285, 0 | 1727, BEAM , 4, 4, 1293, 1292, 0 | 1761, BEAM , 1, 3, 1333, 1334, 0 |
| 1694, BEAM , 1, 1, 1281, 1286, 0 | 1728, BEAM , 4, 4, 1292, 1291, 0 | 1762, BEAM , 1, 2, 1334, 1115, 0 |
| 1695, BEAM , 1, 1, 1282, 1287, 0 | 1729, BEAM , 4, 4, 1274, 1267, 0 | 1763, BEAM , 1, 1, 1317, 1336, 0 |
| 1696, BEAM , 1, 1, 1283, 1288, 0 | 1730, BEAM , 4, 4, 1267, 1246, 0 | 1764, BEAM , 1, 1, 1310, 1337, 0 |
| 1697, BEAM , 1, 1, 1284, 1289, 0 | 1731, BEAM , 4, 4, 1246, 1253, 0 | 1765, BEAM , 1, 1, 1303, 1338, 0 |
| 1698, BEAM , 1, 1, 1285, 1290, 0 | 1732, BEAM , 4, 4, 1253, 1260, 0 | 1766, BEAM , 1, 1, 1324, 1339, 0 |
| 1699, BEAM , 1, 1, 1286, 1291, 0 | 1733, BEAM , 1, 2, 1152, 1244, 0 | 1767, BEAM , 1, 1, 1331, 1340, 0 |
| 1700, BEAM , 1, 1, 1287, 1292, 0 | 1734, BEAM , 1, 2, 1172, 1251, 0 | 1768, BEAM , 1, 1, 1336, 1341, 0 |
| 1701, BEAM , 1, 1, 1288, 1293, 0 | 1735, BEAM , 1, 2, 1192, 1258, 0 | 1769, BEAM , 1, 1, 1337, 1342, 0 |
| 1702, BEAM , 1, 1, 1289, 1294, 0 | 1736, BEAM , 1, 2, 1132, 1265, 0 | 1770, BEAM , 1, 1, 1338, 1343, 0 |
| 1703, BEAM , 1, 1, 1290, 1295, 0 | 1737, BEAM , 1, 2, 1112, 1272, 0 | 1771, BEAM , 1, 1, 1339, 1344, 0 |
| 1704, BEAM , 1, 1, 1291, 1259, 0 | 1738, BEAM , 1, 2, 1153, 1296, 0 | 1772, BEAM , 1, 1, 1340, 1345, 0 |
| 1705, BEAM , 1, 1, 1292, 1252, 0 | 1739, BEAM , 1, 2, 1173, 1297, 0 | 1773, BEAM , 1, 1, 1341, 1346, 0 |
| 1706, BEAM , 1, 1, 1293, 1245, 0 | 1740, BEAM , 1, 2, 1193, 1298, 0 | 1774, BEAM , 1, 1, 1342, 1347, 0 |

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| 1775, BEAM , 1, 1, 1343, 1348, 0 | 1809, BEAM , 4, 4, 1327, 1306, 0 | 1843, BEAM , 1, 1, 1370, 1397, 0 |
| 1776, BEAM , 1, 1, 1344, 1349, 0 | 1810, BEAM , 4, 4, 1306, 1313, 0 | 1844, BEAM , 1, 1, 1363, 1398, 0 |
| 1777, BEAM , 1, 1, 1345, 1350, 0 | 1811, BEAM , 4, 4, 1313, 1320, 0 | 1845, BEAM , 1, 1, 1384, 1399, 0 |
| 1778, BEAM , 1, 1, 1346, 1351, 0 | 1812, BEAM , 1, 2, 1154, 1304, 0 | 1846, BEAM , 1, 1, 1391, 1400, 0 |
| 1779, BEAM , 1, 1, 1347, 1352, 0 | 1813, BEAM , 1, 2, 1174, 1311, 0 | 1847, BEAM , 1, 1, 1396, 1401, 0 |
| 1780, BEAM , 1, 1, 1348, 1353, 0 | 1814, BEAM , 1, 2, 1194, 1318, 0 | 1848, BEAM , 1, 1, 1397, 1402, 0 |
| 1781, BEAM , 1, 1, 1349, 1354, 0 | 1815, BEAM , 1, 2, 1134, 1325, 0 | 1849, BEAM , 1, 1, 1398, 1403, 0 |
| 1782, BEAM , 1, 1, 1350, 1355, 0 | 1816, BEAM , 1, 2, 1114, 1332, 0 | 1850, BEAM , 1, 1, 1399, 1404, 0 |
| 1783, BEAM , 1, 1, 1351, 1319, 0 | 1817, BEAM , 1, 2, 1155, 1356, 0 | 1851, BEAM , 1, 1, 1400, 1405, 0 |
| 1784, BEAM , 1, 1, 1352, 1312, 0 | 1818, BEAM , 1, 2, 1175, 1357, 0 | 1852, BEAM , 1, 1, 1401, 1406, 0 |
| 1785, BEAM , 1, 1, 1353, 1305, 0 | 1819, BEAM , 1, 2, 1195, 1358, 0 | 1853, BEAM , 1, 1, 1402, 1407, 0 |
| 1786, BEAM , 1, 1, 1354, 1326, 0 | 1820, BEAM , 1, 2, 1135, 1359, 0 | 1854, BEAM , 1, 1, 1403, 1408, 0 |
| 1787, BEAM , 1, 1, 1355, 1333, 0 | 1821, BEAM , 1, 2, 1115, 1360, 0 | 1855, BEAM , 1, 1, 1404, 1409, 0 |
| 1788, BEAM , 4, 4, 1332, 1325, 0 | 1822, BEAM , 1, 2, 1361, 1156, 0 | 1856, BEAM , 1, 1, 1405, 1410, 0 |
| 1789, BEAM , 4, 4, 1325, 1304, 0 | 1823, BEAM , 1, 3, 1363, 1364, 0 | 1857, BEAM , 1, 1, 1406, 1411, 0 |
| 1790, BEAM , 4, 4, 1304, 1311, 0 | 1824, BEAM , 1, 3, 1365, 1366, 0 | 1858, BEAM , 1, 1, 1407, 1412, 0 |
| 1791, BEAM , 4, 4, 1311, 1318, 0 | 1825, BEAM , 1, 2, 1366, 1157, 0 | 1859, BEAM , 1, 1, 1408, 1413, 0 |
| 1792, BEAM , 4, 4, 1340, 1339, 0 | 1826, BEAM , 1, 2, 1368, 1176, 0 | 1860, BEAM , 1, 1, 1409, 1414, 0 |
| 1793, BEAM , 4, 4, 1339, 1338, 0 | 1827, BEAM , 1, 3, 1370, 1371, 0 | 1861, BEAM , 1, 1, 1410, 1415, 0 |
| 1794, BEAM , 4, 4, 1338, 1337, 0 | 1828, BEAM , 1, 3, 1372, 1373, 0 | 1862, BEAM , 1, 1, 1411, 1379, 0 |
| 1795, BEAM , 4, 4, 1337, 1336, 0 | 1829, BEAM , 1, 2, 1373, 1177, 0 | 1863, BEAM , 1, 1, 1412, 1372, 0 |
| 1796, BEAM , 4, 4, 1345, 1344, 0 | 1830, BEAM , 1, 2, 1375, 1196, 0 | 1864, BEAM , 1, 1, 1413, 1365, 0 |
| 1797, BEAM , 4, 4, 1344, 1343, 0 | 1831, BEAM , 1, 3, 1377, 1378, 0 | 1865, BEAM , 1, 1, 1414, 1386, 0 |
| 1798, BEAM , 4, 4, 1343, 1342, 0 | 1832, BEAM , 1, 3, 1379, 1380, 0 | 1866, BEAM , 1, 1, 1415, 1393, 0 |
| 1799, BEAM , 4, 4, 1342, 1341, 0 | 1833, BEAM , 1, 2, 1380, 1197, 0 | 1867, BEAM , 4, 4, 1392, 1385, 0 |
| 1800, BEAM , 4, 4, 1350, 1349, 0 | 1834, BEAM , 1, 2, 1382, 1136, 0 | 1868, BEAM , 4, 4, 1385, 1364, 0 |
| 1801, BEAM , 4, 4, 1349, 1348, 0 | 1835, BEAM , 1, 3, 1384, 1385, 0 | 1869, BEAM , 4, 4, 1364, 1371, 0 |
| 1802, BEAM , 4, 4, 1348, 1347, 0 | 1836, BEAM , 1, 3, 1386, 1387, 0 | 1870, BEAM , 4, 4, 1371, 1378, 0 |
| 1803, BEAM , 4, 4, 1347, 1346, 0 | 1837, BEAM , 1, 2, 1387, 1137, 0 | 1871, BEAM , 4, 4, 1400, 1399, 0 |
| 1804, BEAM , 4, 4, 1355, 1354, 0 | 1838, BEAM , 1, 2, 1389, 1116, 0 | 1872, BEAM , 4, 4, 1399, 1398, 0 |
| 1805, BEAM , 4, 4, 1354, 1353, 0 | 1839, BEAM , 1, 3, 1391, 1392, 0 | 1873, BEAM , 4, 4, 1398, 1397, 0 |
| 1806, BEAM , 4, 4, 1353, 1352, 0 | 1840, BEAM , 1, 3, 1393, 1394, 0 | 1874, BEAM , 4, 4, 1397, 1396, 0 |
| 1807, BEAM , 4, 4, 1352, 1351, 0 | 1841, BEAM , 1, 2, 1394, 1117, 0 | 1875, BEAM , 4, 4, 1405, 1404, 0 |
| 1808, BEAM , 4, 4, 1334, 1327, 0 | 1842, BEAM , 1, 1, 1377, 1396, 0 | 1876, BEAM , 4, 4, 1404, 1403, 0 |

|                                               |                                               |                                               |
|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| 1877, BEAM , 4, 4, 1403, 1402, 0              | 1921, PLATE , 4, 1, 1778, 1777, 1180, 1780, 1 | 1955, PLATE , 4, 1, 1805, 1818, 1819, 1806, 1 |
| 1878, BEAM , 4, 4, 1402, 1401, 0              | 1922, PLATE , 4, 1, 1780, 1180, 1781, 1782, 1 | 1956, PLATE , 4, 1, 1806, 1819, 1820, 1807, 1 |
| 1879, BEAM , 4, 4, 1410, 1409, 0              | 1923, PLATE , 4, 1, 1782, 1781, 1783, 1784, 1 | 1957, PLATE , 4, 1, 1807, 1820, 1821, 1808, 1 |
| 1880, BEAM , 4, 4, 1409, 1408, 0              | 1924, PLATE , 4, 1, 1760, 1785, 1786, 1761, 1 | 1958, PLATE , 4, 1, 1808, 1821, 1822, 1809, 1 |
| 1881, BEAM , 4, 4, 1408, 1407, 0              | 1925, PLATE , 4, 1, 1761, 1786, 1787, 1100, 1 | 1959, PLATE , 4, 1, 1809, 1822, 1823, 1810, 1 |
| 1882, BEAM , 4, 4, 1407, 1406, 0              | 1926, PLATE , 4, 1, 1100, 1787, 1788, 1765, 1 | 1960, PLATE , 4, 1, 1811, 1824, 1825, 1812, 1 |
| 1883, BEAM , 4, 4, 1415, 1414, 0              | 1927, PLATE , 4, 1, 1765, 1788, 1789, 1120, 1 | 1961, PLATE , 4, 1, 1812, 1825, 1826, 1813, 1 |
| 1884, BEAM , 4, 4, 1414, 1413, 0              | 1928, PLATE , 4, 1, 1120, 1789, 1790, 1769, 1 | 1962, PLATE , 4, 1, 1813, 1826, 1827, 1814, 1 |
| 1885, BEAM , 4, 4, 1413, 1412, 0              | 1929, PLATE , 4, 1, 1769, 1790, 1791, 1140, 1 | 1963, PLATE , 4, 1, 1814, 1827, 1828, 1815, 1 |
| 1886, BEAM , 4, 4, 1412, 1411, 0              | 1930, PLATE , 4, 1, 1140, 1791, 1792, 1773, 1 | 1964, PLATE , 4, 1, 1815, 1828, 1829, 1816, 1 |
| 1887, BEAM , 4, 4, 1394, 1387, 0              | 1931, PLATE , 4, 1, 1773, 1792, 1793, 1160, 1 | 1965, PLATE , 4, 1, 1816, 1829, 1830, 1817, 1 |
| 1888, BEAM , 4, 4, 1387, 1366, 0              | 1932, PLATE , 4, 1, 1160, 1793, 1794, 1777, 1 | 1966, PLATE , 4, 1, 1817, 1830, 1831, 1818, 1 |
| 1889, BEAM , 4, 4, 1366, 1373, 0              | 1933, PLATE , 4, 1, 1777, 1794, 1795, 1180, 1 | 1967, PLATE , 4, 1, 1818, 1831, 1832, 1819, 1 |
| 1890, BEAM , 4, 4, 1373, 1380, 0              | 1934, PLATE , 4, 1, 1180, 1795, 1796, 1781, 1 | 1968, PLATE , 4, 1, 1819, 1832, 1833, 1820, 1 |
| 1891, BEAM , 1, 2, 1156, 1364, 0              | 1935, PLATE , 4, 1, 1781, 1796, 1797, 1783, 1 | 1969, PLATE , 4, 1, 1820, 1833, 1834, 1821, 1 |
| 1892, BEAM , 1, 2, 1176, 1371, 0              | 1936, PLATE , 4, 1, 1785, 1798, 1799, 1786, 1 | 1970, PLATE , 4, 1, 1821, 1834, 1835, 1822, 1 |
| 1893, BEAM , 1, 2, 1196, 1378, 0              | 1937, PLATE , 4, 1, 1786, 1799, 1800, 1787, 1 | 1971, PLATE , 4, 1, 1822, 1835, 1836, 1823, 1 |
| 1894, BEAM , 1, 2, 1136, 1385, 0              | 1938, PLATE , 4, 1, 1787, 1800, 1801, 1788, 1 | 1972, PLATE , 4, 1, 1824, 1837, 1838, 1825, 1 |
| 1895, BEAM , 1, 2, 1116, 1392, 0              | 1939, PLATE , 4, 1, 1788, 1801, 1802, 1789, 1 | 1973, PLATE , 4, 1, 1825, 1838, 1839, 1826, 1 |
| 1896, BEAM , 1, 2, 1157, 1416, 0              | 1940, PLATE , 4, 1, 1789, 1802, 1803, 1790, 1 | 1974, PLATE , 4, 1, 1826, 1839, 1840, 1827, 1 |
| 1897, BEAM , 1, 2, 1177, 1417, 0              | 1941, PLATE , 4, 1, 1790, 1803, 1804, 1791, 1 | 1975, PLATE , 4, 1, 1827, 1840, 1841, 1828, 1 |
| 1898, BEAM , 1, 2, 1197, 1418, 0              | 1942, PLATE , 4, 1, 1791, 1804, 1805, 1792, 1 | 1976, PLATE , 4, 1, 1828, 1841, 1842, 1829, 1 |
| 1899, BEAM , 1, 2, 1137, 1419, 0              | 1943, PLATE , 4, 1, 1792, 1805, 1806, 1793, 1 | 1977, PLATE , 4, 1, 1829, 1842, 1843, 1830, 1 |
| 1900, BEAM , 1, 2, 1117, 1420, 0              | 1944, PLATE , 4, 1, 1793, 1806, 1807, 1794, 1 | 1978, PLATE , 4, 1, 1830, 1843, 1844, 1831, 1 |
| 1901, BEAM , 1, 3, 1446, 2, 0                 | 1945, PLATE , 4, 1, 1794, 1807, 1808, 1795, 1 | 1979, PLATE , 4, 1, 1831, 1844, 1845, 1832, 1 |
| 1912, PLATE , 4, 1, 1759, 1760, 1761, 1762, 1 | 1946, PLATE , 4, 1, 1795, 1808, 1809, 1796, 1 | 1980, PLATE , 4, 1, 1832, 1845, 1846, 1833, 1 |
| 1913, PLATE , 4, 1, 1762, 1761, 1100, 1764, 1 | 1947, PLATE , 4, 1, 1796, 1809, 1810, 1797, 1 | 1981, PLATE , 4, 1, 1833, 1846, 1847, 1834, 1 |
| 1914, PLATE , 4, 1, 1764, 1100, 1765, 1766, 1 | 1948, PLATE , 4, 1, 1798, 1811, 1812, 1799, 1 | 1982, PLATE , 4, 1, 1834, 1847, 1848, 1835, 1 |
| 1915, PLATE , 4, 1, 1766, 1765, 1120, 1768, 1 | 1949, PLATE , 4, 1, 1799, 1812, 1813, 1800, 1 | 1983, PLATE , 4, 1, 1835, 1848, 1849, 1836, 1 |
| 1916, PLATE , 4, 1, 1768, 1120, 1769, 1770, 1 | 1950, PLATE , 4, 1, 1800, 1813, 1814, 1801, 1 | 1984, PLATE , 4, 1, 1837, 1850, 1851, 1838, 1 |
| 1917, PLATE , 4, 1, 1770, 1769, 1140, 1772, 1 | 1951, PLATE , 4, 1, 1801, 1814, 1815, 1802, 1 | 1985, PLATE , 4, 1, 1838, 1851, 1852, 1839, 1 |
| 1918, PLATE , 4, 1, 1772, 1140, 1773, 1774, 1 | 1952, PLATE , 4, 1, 1802, 1815, 1816, 1803, 1 | 1986, PLATE , 4, 1, 1839, 1852, 1853, 1840, 1 |
| 1919, PLATE , 4, 1, 1774, 1773, 1160, 1776, 1 | 1953, PLATE , 4, 1, 1803, 1816, 1817, 1804, 1 | 1987, PLATE , 4, 1, 1840, 1853, 1854, 1841, 1 |
| 1920, PLATE , 4, 1, 1776, 1160, 1777, 1778, 1 | 1954, PLATE , 4, 1, 1804, 1817, 1818, 1805, 1 | 1988, PLATE , 4, 1, 1841, 1854, 1855, 1842, 1 |

|               |    |    |             |               |    |    |             |               |    |    |             |     |
|---------------|----|----|-------------|---------------|----|----|-------------|---------------|----|----|-------------|-----|
| 1989, PLATE , | 4, | 1, | 1842, 1855, | 2023, PLATE , | 4, | 1, | 1879, 1892, | 2057, BEAM ,  | 1, | 1, | 38,         | 43, |
| 1856, 1843,   | 1  |    |             | 1893, 1880,   | 1  |    |             | 0             |    |    |             |     |
| 1990, PLATE , | 4, | 1, | 1843, 1856, | 2024, PLATE , | 4, | 1, | 1880, 1893, | 2058, PLATE , | 4, | 1, | 1927, 1928, |     |
| 1857, 1844,   | 1  |    |             | 1894, 1881,   | 1  |    |             | 1929, 1930,   | 1  |    |             |     |
| 1991, PLATE , | 4, | 1, | 1844, 1857, | 2025, PLATE , | 4, | 1, | 1881, 1894, | 2059, PLATE , | 4, | 1, | 1930, 1929, |     |
| 1858, 1845,   | 1  |    |             | 1895, 1882,   | 1  |    |             | 1118, 1932,   | 1  |    |             |     |
| 1992, PLATE , | 4, | 1, | 1845, 1858, | 2026, PLATE , | 4, | 1, | 1882, 1895, | 2060, PLATE , | 4, | 1, | 1932, 1118, |     |
| 1859, 1846,   | 1  |    |             | 1896, 1883,   | 1  |    |             | 1933, 1934,   | 1  |    |             |     |
| 1993, PLATE , | 4, | 1, | 1846, 1859, | 2027, PLATE , | 4, | 1, | 1883, 1896, | 2061, PLATE , | 4, | 1, | 1934, 1933, |     |
| 1860, 1847,   | 1  |    |             | 1897, 1884,   | 1  |    |             | 1138, 1936,   | 1  |    |             |     |
| 1994, PLATE , | 4, | 1, | 1847, 1860, | 2028, PLATE , | 4, | 1, | 1884, 1897, | 2062, PLATE , | 4, | 1, | 1936, 1138, |     |
| 1861, 1848,   | 1  |    |             | 1898, 1885,   | 1  |    |             | 1937, 1938,   | 1  |    |             |     |
| 1995, PLATE , | 4, | 1, | 1848, 1861, | 2029, PLATE , | 4, | 1, | 1885, 1898, | 2063, PLATE , | 4, | 1, | 1938, 1937, |     |
| 1862, 1849,   | 1  |    |             | 1899, 1886,   | 1  |    |             | 1158, 1940,   | 1  |    |             |     |
| 1996, PLATE , | 4, | 1, | 1850, 1863, | 2030, PLATE , | 4, | 1, | 1886, 1899, | 2064, PLATE , | 4, | 1, | 1940, 1158, |     |
| 1864, 1851,   | 1  |    |             | 1900, 1887,   | 1  |    |             | 1941, 1942,   | 1  |    |             |     |
| 1997, PLATE , | 4, | 1, | 1851, 1864, | 2031, PLATE , | 4, | 1, | 1887, 1900, | 2065, PLATE , | 4, | 1, | 1942, 1941, |     |
| 1865, 1852,   | 1  |    |             | 1901, 1888,   | 1  |    |             | 1178, 1944,   | 1  |    |             |     |
| 1998, PLATE , | 4, | 1, | 1852, 1865, | 2032, PLATE , | 4, | 1, | 1889, 1902, | 2066, PLATE , | 4, | 1, | 1944, 1178, |     |
| 1866, 1853,   | 1  |    |             | 1903, 1890,   | 1  |    |             | 1945, 1946,   | 1  |    |             |     |
| 1999, PLATE , | 4, | 1, | 1853, 1866, | 2033, PLATE , | 4, | 1, | 1890, 1903, | 2067, PLATE , | 4, | 1, | 1946, 1945, |     |
| 1867, 1854,   | 1  |    |             | 1101, 1891,   | 1  |    |             | 1198, 1948,   | 1  |    |             |     |
| 2000, PLATE , | 4, | 1, | 1854, 1867, | 2034, PLATE , | 4, | 1, | 1891, 1101, | 2068, PLATE , | 4, | 1, | 1948, 1198, |     |
| 1868, 1855,   | 1  |    |             | 1905, 1892,   | 1  |    |             | 1949, 1950,   | 1  |    |             |     |
| 2001, PLATE , | 4, | 1, | 1855, 1868, | 2035, PLATE , | 4, | 1, | 1892, 1905, | 2069, PLATE , | 4, | 1, | 1950, 1949, |     |
| 1869, 1856,   | 1  |    |             | 1121, 1893,   | 1  |    |             | 1951, 1952,   | 1  |    |             |     |
| 2002, PLATE , | 4, | 1, | 1856, 1869, | 2036, PLATE , | 4, | 1, | 1893, 1121, | 2070, PLATE , | 4, | 1, | 1928, 1953, |     |
| 1870, 1857,   | 1  |    |             | 1907, 1894,   | 1  |    |             | 1954, 1929,   | 1  |    |             |     |
| 2003, PLATE , | 4, | 1, | 1857, 1870, | 2037, PLATE , | 4, | 1, | 1894, 1907, | 2071, PLATE , | 4, | 1, | 1929, 1954, |     |
| 1871, 1858,   | 1  |    |             | 1141, 1895,   | 1  |    |             | 1955, 1118,   | 1  |    |             |     |
| 2004, PLATE , | 4, | 1, | 1858, 1871, | 2038, PLATE , | 4, | 1, | 1895, 1141, | 2072, PLATE , | 4, | 1, | 1118, 1955, |     |
| 1872, 1859,   | 1  |    |             | 1909, 1896,   | 1  |    |             | 1956, 1933,   | 1  |    |             |     |
| 2005, PLATE , | 4, | 1, | 1859, 1872, | 2039, PLATE , | 4, | 1, | 1896, 1909, | 2073, PLATE , | 4, | 1, | 1933, 1956, |     |
| 1873, 1860,   | 1  |    |             | 1161, 1897,   | 1  |    |             | 1957, 1138,   | 1  |    |             |     |
| 2006, PLATE , | 4, | 1, | 1860, 1873, | 2040, PLATE , | 4, | 1, | 1897, 1161, | 2074, PLATE , | 4, | 1, | 1138, 1957, |     |
| 1874, 1861,   | 1  |    |             | 1911, 1898,   | 1  |    |             | 1958, 1937,   | 1  |    |             |     |
| 2007, PLATE , | 4, | 1, | 1861, 1874, | 2041, PLATE , | 4, | 1, | 1898, 1911, | 2075, PLATE , | 4, | 1, | 1937, 1958, |     |
| 1875, 1862,   | 1  |    |             | 1181, 1899,   | 1  |    |             | 1959, 1158,   | 1  |    |             |     |
| 2008, PLATE , | 4, | 1, | 1863, 1876, | 2042, PLATE , | 4, | 1, | 1899, 1181, | 2076, PLATE , | 4, | 1, | 1158, 1959, |     |
| 1877, 1864,   | 1  |    |             | 1913, 1900,   | 1  |    |             | 1960, 1941,   | 1  |    |             |     |
| 2009, PLATE , | 4, | 1, | 1864, 1877, | 2043, PLATE , | 4, | 1, | 1900, 1913, | 2077, PLATE , | 4, | 1, | 1941, 1960, |     |
| 1878, 1865,   | 1  |    |             | 1914, 1901,   | 1  |    |             | 1961, 1178,   | 1  |    |             |     |
| 2010, PLATE , | 4, | 1, | 1865, 1878, | 2044, PLATE , | 4, | 1, | 1902, 1915, | 2078, PLATE , | 4, | 1, | 1178, 1961, |     |
| 1879, 1866,   | 1  |    |             | 1916, 1903,   | 1  |    |             | 1962, 1945,   | 1  |    |             |     |
| 2011, PLATE , | 4, | 1, | 1866, 1879, | 2045, PLATE , | 4, | 1, | 1903, 1916, | 2079, PLATE , | 4, | 1, | 1945, 1962, |     |
| 1880, 1867,   | 1  |    |             | 1917, 1101,   | 1  |    |             | 1963, 1198,   | 1  |    |             |     |
| 2012, PLATE , | 4, | 1, | 1867, 1880, | 2046, PLATE , | 4, | 1, | 1101, 1917, | 2080, PLATE , | 4, | 1, | 1198, 1963, |     |
| 1881, 1868,   | 1  |    |             | 1918, 1905,   | 1  |    |             | 1964, 1949,   | 1  |    |             |     |
| 2013, PLATE , | 4, | 1, | 1868, 1881, | 2047, PLATE , | 4, | 1, | 1905, 1918, | 2081, PLATE , | 4, | 1, | 1949, 1964, |     |
| 1882, 1869,   | 1  |    |             | 1919, 1121,   | 1  |    |             | 1965, 1951,   | 1  |    |             |     |
| 2014, PLATE , | 4, | 1, | 1869, 1882, | 2048, PLATE , | 4, | 1, | 1121, 1919, | 2082, PLATE , | 4, | 1, | 1953, 1966, |     |
| 1883, 1870,   | 1  |    |             | 1920, 1907,   | 1  |    |             | 1967, 1954,   | 1  |    |             |     |
| 2015, PLATE , | 4, | 1, | 1870, 1883, | 2049, PLATE , | 4, | 1, | 1907, 1920, | 2083, PLATE , | 4, | 1, | 1954, 1967, |     |
| 1884, 1871,   | 1  |    |             | 1758, 1141,   | 1  |    |             | 1968, 1955,   | 1  |    |             |     |
| 2016, PLATE , | 4, | 1, | 1871, 1884, | 2050, PLATE , | 4, | 1, | 1141, 1758, | 2084, PLATE , | 4, | 1, | 1955, 1968, |     |
| 1885, 1872,   | 1  |    |             | 1921, 1909,   | 1  |    |             | 1969, 1956,   | 1  |    |             |     |
| 2017, PLATE , | 4, | 1, | 1872, 1885, | 2051, PLATE , | 4, | 1, | 1909, 1921, | 2085, PLATE , | 4, | 1, | 1956, 1969, |     |
| 1886, 1873,   | 1  |    |             | 1922, 1161,   | 1  |    |             | 1970, 1957,   | 1  |    |             |     |
| 2018, PLATE , | 4, | 1, | 1873, 1886, | 2052, PLATE , | 4, | 1, | 1161, 1922, | 2086, PLATE , | 4, | 1, | 1957, 1970, |     |
| 1887, 1874,   | 1  |    |             | 1923, 1911,   | 1  |    |             | 1971, 1958,   | 1  |    |             |     |
| 2019, PLATE , | 4, | 1, | 1874, 1887, | 2053, PLATE , | 4, | 1, | 1911, 1923, | 2087, PLATE , | 4, | 1, | 1958, 1971, |     |
| 1888, 1875,   | 1  |    |             | 1924, 1181,   | 1  |    |             | 1972, 1959,   | 1  |    |             |     |
| 2020, PLATE , | 4, | 1, | 1876, 1889, | 2054, PLATE , | 4, | 1, | 1181, 1924, | 2088, PLATE , | 4, | 1, | 1959, 1972, |     |
| 1890, 1877,   | 1  |    |             | 1925, 1913,   | 1  |    |             | 1973, 1960,   | 1  |    |             |     |
| 2021, PLATE , | 4, | 1, | 1877, 1890, | 2055, PLATE , | 4, | 1, | 1913, 1925, | 2089, PLATE , | 4, | 1, | 1960, 1973, |     |
| 1891, 1878,   | 1  |    |             | 1926, 1914,   | 1  |    |             | 1974, 1961,   | 1  |    |             |     |
| 2022, PLATE , | 4, | 1, | 1878, 1891, | 2056, BEAM ,  | 1, | 1, | 3, 38,      | 2090, PLATE , | 4, | 1, | 1961, 1974, |     |
| 1892, 1879,   | 1  |    |             | 0             |    |    |             | 1975, 1962,   | 1  |    |             |     |

|                                 |                                 |                                 |
|---------------------------------|---------------------------------|---------------------------------|
| 2091, PLATE , 4, 1, 1962, 1975, | 2125, PLATE , 4, 1, 1999, 2012, | 2159, PLATE , 4, 1, 2036, 2049, |
| 1976, 1963, 1                   | 2013, 2000, 1                   | 2050, 2037, 1                   |
| 2092, PLATE , 4, 1, 1963, 1976, | 2126, PLATE , 4, 1, 2000, 2013, | 2160, PLATE , 4, 1, 2037, 2050, |
| 1977, 1964, 1                   | 2014, 2001, 1                   | 2051, 2038, 1                   |
| 2093, PLATE , 4, 1, 1964, 1977, | 2127, PLATE , 4, 1, 2001, 2014, | 2161, PLATE , 4, 1, 2038, 2051, |
| 1978, 1965, 1                   | 2015, 2002, 1                   | 2052, 2039, 1                   |
| 2094, PLATE , 4, 1, 1966, 1979, | 2128, PLATE , 4, 1, 2002, 2015, | 2162, PLATE , 4, 1, 2039, 2052, |
| 1980, 1967, 1                   | 2016, 2003, 1                   | 2053, 2040, 1                   |
| 2095, PLATE , 4, 1, 1967, 1980, | 2129, PLATE , 4, 1, 2003, 2016, | 2163, PLATE , 4, 1, 2040, 2053, |
| 1981, 1968, 1                   | 2017, 2004, 1                   | 2054, 2041, 1                   |
| 2096, PLATE , 4, 1, 1968, 1981, | 2130, PLATE , 4, 1, 2005, 2018, | 2164, PLATE , 4, 1, 2041, 2054, |
| 1982, 1969, 1                   | 2019, 2006, 1                   | 2055, 2042, 1                   |
| 2097, PLATE , 4, 1, 1969, 1982, | 2131, PLATE , 4, 1, 2006, 2019, | 2165, PLATE , 4, 1, 2042, 2055, |
| 1983, 1970, 1                   | 2020, 2007, 1                   | 2056, 2043, 1                   |
| 2098, PLATE , 4, 1, 1970, 1983, | 2132, PLATE , 4, 1, 2007, 2020, | 2166, PLATE , 4, 1, 2044, 2057, |
| 1984, 1971, 1                   | 2021, 2008, 1                   | 2058, 2045, 1                   |
| 2099, PLATE , 4, 1, 1971, 1984, | 2133, PLATE , 4, 1, 2008, 2021, | 2167, PLATE , 4, 1, 2045, 2058, |
| 1985, 1972, 1                   | 2022, 2009, 1                   | 2059, 2046, 1                   |
| 2100, PLATE , 4, 1, 1972, 1985, | 2134, PLATE , 4, 1, 2009, 2022, | 2168, PLATE , 4, 1, 2046, 2059, |
| 1986, 1973, 1                   | 2023, 2010, 1                   | 2060, 2047, 1                   |
| 2101, PLATE , 4, 1, 1973, 1986, | 2135, PLATE , 4, 1, 2010, 2023, | 2169, PLATE , 4, 1, 2047, 2060, |
| 1987, 1974, 1                   | 2024, 2011, 1                   | 2061, 2048, 1                   |
| 2102, PLATE , 4, 1, 1974, 1987, | 2136, PLATE , 4, 1, 2011, 2024, | 2170, PLATE , 4, 1, 2048, 2061, |
| 1988, 1975, 1                   | 2025, 2012, 1                   | 2062, 2049, 1                   |
| 2103, PLATE , 4, 1, 1975, 1988, | 2137, PLATE , 4, 1, 2012, 2025, | 2171, PLATE , 4, 1, 2049, 2062, |
| 1989, 1976, 1                   | 2026, 2013, 1                   | 2063, 2050, 1                   |
| 2104, PLATE , 4, 1, 1976, 1989, | 2138, PLATE , 4, 1, 2013, 2026, | 2172, PLATE , 4, 1, 2050, 2063, |
| 1990, 1977, 1                   | 2027, 2014, 1                   | 2064, 2051, 1                   |
| 2105, PLATE , 4, 1, 1977, 1990, | 2139, PLATE , 4, 1, 2014, 2027, | 2173, PLATE , 4, 1, 2051, 2064, |
| 1991, 1978, 1                   | 2028, 2015, 1                   | 2065, 2052, 1                   |
| 2106, PLATE , 4, 1, 1979, 1992, | 2140, PLATE , 4, 1, 2015, 2028, | 2174, PLATE , 4, 1, 2052, 2065, |
| 1993, 1980, 1                   | 2029, 2016, 1                   | 2066, 2053, 1                   |
| 2107, PLATE , 4, 1, 1980, 1993, | 2141, PLATE , 4, 1, 2016, 2029, | 2175, PLATE , 4, 1, 2053, 2066, |
| 1994, 1981, 1                   | 2030, 2017, 1                   | 2067, 2054, 1                   |
| 2108, PLATE , 4, 1, 1981, 1994, | 2142, PLATE , 4, 1, 2018, 2031, | 2176, PLATE , 4, 1, 2054, 2067, |
| 1995, 1982, 1                   | 2032, 2019, 1                   | 2068, 2055, 1                   |
| 2109, PLATE , 4, 1, 1982, 1995, | 2143, PLATE , 4, 1, 2019, 2032, | 2177, PLATE , 4, 1, 2055, 2068, |
| 1996, 1983, 1                   | 2033, 2020, 1                   | 2069, 2056, 1                   |
| 2110, PLATE , 4, 1, 1983, 1996, | 2144, PLATE , 4, 1, 2020, 2033, | 2178, PLATE , 4, 1, 2057, 2070, |
| 1997, 1984, 1                   | 2034, 2021, 1                   | 2071, 2058, 1                   |
| 2111, PLATE , 4, 1, 1984, 1997, | 2145, PLATE , 4, 1, 2021, 2034, | 2179, PLATE , 4, 1, 2058, 2071, |
| 1998, 1985, 1                   | 2035, 2022, 1                   | 1119, 2059, 1                   |
| 2112, PLATE , 4, 1, 1985, 1998, | 2146, PLATE , 4, 1, 2022, 2035, | 2180, PLATE , 4, 1, 2059, 1119, |
| 1999, 1986, 1                   | 2036, 2023, 1                   | 2073, 2060, 1                   |
| 2113, PLATE , 4, 1, 1986, 1999, | 2147, PLATE , 4, 1, 2023, 2036, | 2181, PLATE , 4, 1, 2060, 2073, |
| 2000, 1987, 1                   | 2037, 2024, 1                   | 1139, 2061, 1                   |
| 2114, PLATE , 4, 1, 1987, 2000, | 2148, PLATE , 4, 1, 2024, 2037, | 2182, PLATE , 4, 1, 2061, 1139, |
| 2001, 1988, 1                   | 2038, 2025, 1                   | 2075, 2062, 1                   |
| 2115, PLATE , 4, 1, 1988, 2001, | 2149, PLATE , 4, 1, 2025, 2038, | 2183, PLATE , 4, 1, 2062, 2075, |
| 2002, 1989, 1                   | 2039, 2026, 1                   | 1159, 2063, 1                   |
| 2116, PLATE , 4, 1, 1989, 2002, | 2150, PLATE , 4, 1, 2026, 2039, | 2184, PLATE , 4, 1, 2063, 1159, |
| 2003, 1990, 1                   | 2040, 2027, 1                   | 2077, 2064, 1                   |
| 2117, PLATE , 4, 1, 1990, 2003, | 2151, PLATE , 4, 1, 2027, 2040, | 2185, PLATE , 4, 1, 2064, 2077, |
| 2004, 1991, 1                   | 2041, 2028, 1                   | 1179, 2065, 1                   |
| 2118, PLATE , 4, 1, 1992, 2005, | 2152, PLATE , 4, 1, 2028, 2041, | 2186, PLATE , 4, 1, 2065, 1179, |
| 2006, 1993, 1                   | 2042, 2029, 1                   | 2079, 2066, 1                   |
| 2119, PLATE , 4, 1, 1993, 2006, | 2153, PLATE , 4, 1, 2029, 2042, | 2187, PLATE , 4, 1, 2066, 2079, |
| 2007, 1994, 1                   | 2043, 2030, 1                   | 1199, 2067, 1                   |
| 2120, PLATE , 4, 1, 1994, 2007, | 2154, PLATE , 4, 1, 2031, 2044, | 2188, PLATE , 4, 1, 2067, 1199, |
| 2008, 1995, 1                   | 2045, 2032, 1                   | 2081, 2068, 1                   |
| 2121, PLATE , 4, 1, 1995, 2008, | 2155, PLATE , 4, 1, 2032, 2045, | 2189, PLATE , 4, 1, 2068, 2081, |
| 2009, 1996, 1                   | 2046, 2033, 1                   | 2082, 2069, 1                   |
| 2122, PLATE , 4, 1, 1996, 2009, | 2156, PLATE , 4, 1, 2033, 2046, | 2190, PLATE , 4, 1, 2070, 2083, |
| 2010, 1997, 1                   | 2047, 2034, 1                   | 2084, 2071, 1                   |
| 2123, PLATE , 4, 1, 1997, 2010, | 2157, PLATE , 4, 1, 2034, 2047, | 2191, PLATE , 4, 1, 2071, 2084, |
| 2011, 1998, 1                   | 2048, 2035, 1                   | 2085, 1119, 1                   |
| 2124, PLATE , 4, 1, 1998, 2011, | 2158, PLATE , 4, 1, 2035, 2048, | 2192, PLATE , 4, 1, 1119, 2085, |
| 2012, 1999, 1                   | 2049, 2036, 1                   | 2086, 2073, 1                   |

|                                                                                                               |                                                                                  |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 2193, PLATE , 4, 1, 2073, 2086, 2227, BEAM , 2, 7, 2221, 2246, 2261, BEAM , 1, 2, 1239, 1262, 2087, 1139, 1 0 |                                                                                  |
| 2194, PLATE , 4, 1, 1139, 2087, 2228, BEAM , 2, 7, 2222, 2248, 2262, BEAM , 1, 2, 1240, 1269, 2088, 2075, 1 0 |                                                                                  |
| 2195, PLATE , 4, 1, 2075, 2088, 2229, BEAM , 2, 7, 2232, 2233, 2263, BEAM , 1, 2, 1358, 1375, 2089, 1159, 1 0 |                                                                                  |
| 2196, PLATE , 4, 1, 1159, 2089, 2230, BEAM , 2, 7, 2233, 2223, 2264, BEAM , 1, 2, 1357, 1368, 2090, 2077, 1 0 |                                                                                  |
| 2197, PLATE , 4, 1, 2077, 2090, 2231, BEAM , 2, 7, 2234, 2235, 2265, BEAM , 1, 2, 1356, 1361, 2091, 1179, 1 0 |                                                                                  |
| 2198, PLATE , 4, 1, 1179, 2091, 2232, BEAM , 2, 7, 2235, 2224, 2266, BEAM , 1, 2, 1359, 1382, 2092, 2079, 1 0 |                                                                                  |
| 2199, PLATE , 4, 1, 2079, 2092, 2233, BEAM , 2, 7, 2236, 2237, 2267, BEAM , 1, 2, 1360, 1389, 2093, 1199, 1 0 |                                                                                  |
| 2200, PLATE , 4, 1, 1199, 2093, 2234, BEAM , 2, 7, 2237, 2225, 0                                              | *GROUP ; Group                                                                   |
| 2094, 2081, 1 0                                                                                               | ; NAME, NODE_LIST, ELEM_LIST,                                                    |
| 2201, PLATE , 4, 1, 2081, 2094, 2235, BEAM , 2, 7, 2238, 2239, 0                                              | PLANE_TYPE                                                                       |
| 2095, 2082, 1 0                                                                                               | Strt Group 1, 1000to1199, , 0                                                    |
| 2202, BEAM , 2, 5, 2196, 2205, 2236, BEAM , 2, 7, 2239, 2226, 0                                               | ☞ , 2196to2204, , 0                                                              |
| 2203, BEAM , 2, 5, 2197, 2206, 2237, BEAM , 2, 7, 2240, 2241, 0                                               | *MATERIAL ; Material                                                             |
| 2204, BEAM , 2, 5, 2198, 2207, 2238, BEAM , 2, 7, 2241, 2227, 0                                               | ; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO,             |
| 2205, BEAM , 2, 5, 2199, 2208, 2239, BEAM , 2, 7, 2242, 2243, 0                                               | [DATA1] ; STEEL, CONC, USER                                                      |
| 2206, BEAM , 2, 5, 2200, 2209, 2240, BEAM , 2, 7, 2243, 2228, 0                                               | ; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO,             |
| 2207, BEAM , 2, 5, 2201, 2210, 2241, BEAM , 2, 7, 2244, 2245, 0                                               | [DATA2], [DATA2] ; SRC                                                           |
| 2208, BEAM , 2, 5, 2202, 2211, 2242, BEAM , 2, 7, 2245, 2229, 0                                               | ; [DATA1] : 1, DB, NAME, CODE                                                    |
| 2209, BEAM , 2, 5, 2203, 2212, 2243, BEAM , 2, 7, 2246, 2247, 0                                               | ; [DATA1] : 2, ELAST, POISN, THERMAL, DEN, MASS                                  |
| 2210, BEAM , 2, 5, 2204, 2213, 2244, BEAM , 2, 7, 2247, 2230, 0                                               | ; [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy, Sxz, Syz, Pxy, Pxz, Pyz, DEN, MASS ; |
| 2211, BEAM , 2, 6, 2205, 2214, 2245, BEAM , 2, 7, 2248, 2249, 0                                               | Orthotropic                                                                      |
| 2212, BEAM , 2, 6, 2206, 2215, 2246, BEAM , 2, 7, 2249, 2231, 0                                               | ; [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS             |
| 2213, BEAM , 2, 6, 2207, 2216, 2247, BEAM , 1, 2, 35, 2133, 0                                                 | 1, CONC , C40 , 0, 0, ,                                                          |
| 2214, BEAM , 2, 6, 2208, 2217, 2248, BEAM , 1, 2, 28, 2099, 0                                                 | C, YES, 0.05, 1, KSCE-LSD12(RC),                                                 |
| 2215, BEAM , 2, 6, 2209, 2218, 2249, BEAM , 1, 2, 7, 2181, 0                                                  | , C40                                                                            |
| 2216, BEAM , 2, 6, 2210, 2219, 2250, BEAM , 1, 2, 14, 2134, 0                                                 | 2, CONC , C21 , 0, 0, ,                                                          |
| 2217, BEAM , 2, 6, 2211, 2220, 2251, BEAM , 1, 2, 21, 2165, 0                                                 | C, YES, 0.05, 1, KSCE-LSD12(RC),                                                 |
| 2218, BEAM , 2, 6, 2212, 2221, 2252, BEAM , 1, 2, 2165, 2250, 0                                               | , C21                                                                            |
| 2219, BEAM , 2, 6, 2213, 2222, 2253, BEAM , 1, 2, 1931, 1328, 0                                               | 4, CONC , C27 , 0, 0, ,                                                          |
| 2220, BEAM , 2, 7, 2214, 2232, 2254, BEAM , 1, 2, 1395, 996, 0                                                | C, YES, 0.05, 1, KSCE-LSD12(RC),                                                 |
| 2221, BEAM , 2, 7, 2215, 2234, 2255, BEAM , 1, 2, 1390, 1906, 0                                               | , C27                                                                            |
| 2222, BEAM , 2, 7, 2216, 2236, 2256, BEAM , 1, 2, 2072, 906, 0                                                | *MATL-COLOR                                                                      |
| 2223, BEAM , 2, 7, 2217, 2238, 2257, BEAM , 1, 2, 1767, 2130, 0                                               | ; iMAT, W_R, W_G, W_B, HF_R, HF_G, HF_B, HE_R, HE_G, HE_B, bBLEND, FACT          |
| 2224, BEAM , 2, 7, 2218, 2240, 2258, BEAM , 1, 2, 1238, 1255, 0                                               | 1, 255, 0, 0, 0, 255, 0, 0,                                                      |
| 2225, BEAM , 2, 7, 2219, 2242, 2259, BEAM , 1, 2, 1237, 1248, 0                                               | 0, 255, NO, 0.5                                                                  |
| 2226, BEAM , 2, 7, 2220, 2244, 2260, BEAM , 1, 2, 1236, 1241, 0                                               | 2, 255, 0, 0, 0, 255, 0, 0,                                                      |
|                                                                                                               | 0, 255, NO, 0.5                                                                  |
|                                                                                                               | 4, 255, 0, 0, 0, 255, 0, 0,                                                      |
|                                                                                                               | 0, 255, NO, 0.5                                                                  |
|                                                                                                               | *SECTION ; Section                                                               |
|                                                                                                               | ; iSEC, TYPE, SNAME, [OFFSET], bSD,                                              |
|                                                                                                               | SHAPE, [DATA1], [DATA2]                                                          |
|                                                                                                               | ; 1st line - DB/USER                                                             |
|                                                                                                               | ; iSEC, TYPE, SNAME, [OFFSET], bSD,                                              |
|                                                                                                               | SHAPE, BLT, D1, ..., D8, iCEL ;                                                  |
|                                                                                                               | 1st line - VALUE                                                                 |
|                                                                                                               | ; AREA, ASy, ASz, lxx, lyy, lzz                                                  |
|                                                                                                               | ; 2nd line                                                                       |
|                                                                                                               | ; CyP, CyM, CzP, CzM, QyB, QzB,                                                  |
|                                                                                                               | PERI_OUT, PERI_IN, Cy, Cz ;                                                      |
|                                                                                                               | 3rd line                                                                         |
|                                                                                                               | ; Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy,                                           |
|                                                                                                               | Zzz ; 4th line                                                                   |
|                                                                                                               | ; iSEC, TYPE, SNAME, [OFFSET], bSD,                                              |
|                                                                                                               | SHAPE, ELAST, DEN, POIS, POIC, SF                                                |

[illegible]

```

5(nCELL), 11(nCEL2)
; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL),
6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB),
8(nCELL), 18(nCEL2)
; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL),
9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB),
0(nCELL), 11(nCEL2)
; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL),
6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB),
0(nCELL), 18(nCEL2)
; [STIFF] : AREA, ASy, ASz, lxx, lyy, lzz
; [SCHK] : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT] : bAUTO_TOR, TOR,
bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2,
bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
1, PSC, PSC b-b, CB,
0, 0, 0, 0, 0, YES, PSCI
, NO, NO, NO, NO, NO, NO, NO, NO,
NO, NO
YES, YES, 1.43, YES, 0.39, NO, 0,
NO, 0, NO, 0, NO, 0, 0, YES, NO
NO, NO, NO, NO, NO, NO, NO, NO, NO,
0.18
0.09, 0.28, 0, 0, 0.275, 0, 0
0.18, 0.14, 0, 0, 1.04, 0.21, 0, 0,
0.18
0.09, 0.28, 0, 0, 0.275, 0, 0
2, PSC, PSC a-a, CB,
0, 0, 0, 0, 0, 0, YES, PSCI
, NO, NO, NO, NO, NO, NO, NO, NO,
NO, NO
YES, YES, 1.56, YES, 0.02, NO, 0,
NO, 0, NO, 0, NO, 0, 0, YES, NO
NO, NO, NO, NO, NO, NO, NO, NO, NO,
0.01
0.274, 0.28, 0, 0, 0.275, 0, 0
0.18, 0.01, 0, 0, 1.54, 0.01, 0, 0,
0.01
0.274, 0.28, 0, 0, 0.275, 0, 0
3, TAPERED, PSC-tap,
CB, 0, 0, 0, 0, 0, 0, 0, YES, PSCI, 1, 1,
PSC
, NO, NO, NO, NO, NO, NO, NO, NO,
NO, NO
YES, YES, 0, YES, 0, YES, 0, YES, 0,
YES, 0, YES, 0, YES, 0, YES, 0, YES, 0,
YES, 0, YES, 0, YES, 0, 0, 0, YES, NO
NO, NO, NO, NO, NO, NO, NO, NO, NO,
0.18
0.09, 0.28, 0, 0, 0.275, 0, 0
0.18, 0.14, 0, 0, 1.04, 0.21, 0, 0,
0.18
0.09, 0.28, 0, 0, 0.275, 0, 0
0.18, 0.01, 0, 0, 1.54, 0.01, 0, 0,
0.01
0.274, 0.28, 0, 0, 0.275, 0, 0
0.18, 0.01, 0, 0, 1.54, 0.01, 0, 0,
0.01
0.274, 0.28, 0, 0, 0.275, 0, 0
4, DBUSER, cross, CB,
0, 0, 0, 0, 1, 1, YES, SB, 2, 1.5, 0.4, 0, 0,
0, 0, 0, 0, 0, 0
5, DBUSER, COP1,
CC, 0, 0, 0, 0, 0, 0, YES, SB, 2, 2.5, 10.3,
0, 0, 0, 0, 0, 0, 0, 0
6, TAPERED, COP2,
CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB, 1, 1,
USER
2.5, 10.3, 0, 0, 0, 0, 0, 2.5, 2.5,
0, 0, 0, 0, 0, 0
7, DBUSER, Pier, CC,
0, 0, 0, 0, 0, 0, YES, SR, 2, 2.5, 0, 0, 0,
0, 0, 0, 0, 0, 0
*SECT-COLOR
; ISEC, W_R, W_G, W_B, HF_R, HF_G, HF_B,
HE_R, HE_G, HE_B, bBLEND, FACT
1, 255, 0, 0, 0, 255, 0, 0,
0, 255, NO, 0.5
2, 255, 0, 0, 0, 255, 0, 0,
0, 255, NO, 0.5
3, 255, 0, 0, 0, 255, 0, 0,
0, 255, NO, 0.5
4, 255, 0, 0, 0, 255, 0, 0,
0, 255, NO, 0.5
5, 255, 0, 0, 0, 255, 0, 0,
0, 255, NO, 0.5
6, 255, 0, 0, 0, 255, 0, 0,
0, 255, NO, 0.5
7, 255, 0, 0, 0, 255, 0, 0,
0, 255, NO, 0.5
*DGN-SECT
; ISEC, TYPE, SNAME, [OFFSET], bSD,
SHAPE, [DATA1], [DATA2]
; 1st line - DB/USER
; ISEC, TYPE, SNAME, [OFFSET], bSD,
SHAPE, BLT, D1, ..., D8, iCEL
; 1st line - VALUE
; AREA, ASy, ASz, lxx, lyy, lzz
; 2nd line
; CyP, CyM, CzP, CzM, QyB, QzB,
PERI_OUT, PERI_IN, Cy, Cz
; 3rd line
; Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy,
Zzz
; 4th line
; ISEC, TYPE, SNAME, [OFFSET], bSD,
SHAPE, ELAST, DEN, POIS, POIC, SF
; 1st line - SRC
; D1, D2, [SRC]
; 2nd line
; ISEC, TYPE, SNAME, [OFFSET], bSD,
SHAPE, 1, DB, NAME1, NAME2, D1, D2
; 1st line - COMBINED
; ISEC, TYPE, SNAME, [OFFSET], bSD,
SHAPE, 2, D11, D12, D13, D14, D15, D21,
D22, D23, D24
; ISEC, TYPE, SNAME, [OFFSET2], bSD,
SHAPE, iyVAR, izVAR, STYPE
; 1st line - TAPERED
; DB, NAME1, NAME2
; 2nd
line(STYPE=DB)
; [DIM1], [DIM2]
; 2nd
line(STYPE=USER)
; D11, D12, D13, D14, D15, D16, D17,
D18
; 2nd
line(STYPE=VALUE)
; AREA1, ASy1, ASz1, lxx1, lyy1, lzz1
; 3rd
line(STYPE=VALUE)
; CyP1, CyM1, CzP1, CzM1, QyB1,
QzB1, PERI_OUT1, PERI_IN1, Cy1, Cz1
; 4th line(STYPE=VALUE)
; Y11, Y12, Y13, Y14, Z11, Z12, Z13,
Z14, Zyy1, Zyy2
; 5th
line(STYPE=VALUE)
; D21, D22, D23, D24, D25, D26, D27,
D28
; 6th
line(STYPE=VALUE)
; AREA2, ASy2, ASz2, lxx2, lyy2, lzz2
; 7th
line(STYPE=VALUE)
; CyP2, CyM2, CzP2, CzM2, QyB2,
QzB2, PERI_OUT2, PERI_IN2, Cy2, Cz2
; 8th line(STYPE=VALUE)
; Y21, Y22, Y23, Y24, Z21, Z22, Z23,
Z24, Zyy2, Zzz2
; 9th
line(STYPE=VALUE)
; OPT1, OPT2, [JOINT]
; 2nd
line(STYPE=PSC)
; ELAST, DEN, POIS, POIC
; 2nd
line(STYPE=PSC-CMPW)
; bSHEARCHK, [SCHK-I], [SCHK-J],
[WT-I], [WT-J], Wl, WJ, bSYM, bSIDEHOLE
; 3rd line(STYPE=PSC)
; bSHEARCHK, bSYM, bHUNCH,
[CMPWEB-I], [CMPWEB-J]
; 3rd line(STYPE=PSC-CMPW)
; bUSERDEFMESH SIZE, MESH SIZE,
bUSERINPSTIFF, [STIFF-I], [STIFF-J]
; 4th line(STYPE=PSC)
; [SIZE-A]-i
; 5th
line(STYPE=PSC)
; [SIZE-B]-i
; 6th
line(STYPE=PSC)
; [SIZE-C]-i
; 7th
line(STYPE=PSC)
; [SIZE-D]-i
; 8th
line(STYPE=PSC)
; [SIZE-A]-j
; 9th
line(STYPE=PSC)
; [SIZE-B]-j
; 10th
line(STYPE=PSC)
; [SIZE-C]-j
; 11th
line(STYPE=PSC)
; [SIZE-D]-j
; 12th
; GN, CTC, Bc, Tc, Hh, EsEc, DsDc,
Ps, Pc, bMULTI, EsEc-L, EsEc-S
; 2nd line(STYPE=CMP-B/I)
; SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i,
B2_i, Bf2_i, tf2_i
; 3rd
line(STYPE=CMP-B/I)
; SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j,
B2_j, Bf2_j, tf2_j
; 4th
line(STYPE=CMP-B/I)
; N1, N2, Hr, Hr2, tr1, tr2
; 5th
line(STYPE=CMP-B)
; GN, CTC, Bc, Tc, Hh, EgD Esb,

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DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j ; [SIZE-D] 0.18, 0.14, 0, 0, 1.04, 0.21, 0, 0,
; 2nd line(STYPE=CMP-CI/CT) ; 6th line 0.18
; OPT1, OPT2, [JOINT] ; SW, GN, CTC, Bc, Tc, Hh, EgDsb, 0.09, 0.28, 0, 0, 0.275, 0, 0
; ; 3rd DgdDsb, Pgd, Psb ; 2, PSC , PSC a-a , CB,
line(STYPE=CMP-CI/CT) 7th line 0, 0, 0, 0, 0, 0, YES, PSCI
; [SIZE-A]-i ; iSEC, TYPE, SNAME, [OFFSET], bSD, , NO, NO, NO, NO, NO, NO, NO,
; 4th S H A P E NO, NO
line(STYPE=CMP-CI/CT) ; 1st line - PSC YES, YES, 1.56, YES, 0.02, NO, 0,
; [SIZE-B]-i ; OPT1, OPT2, [JOINT] NO, 0, NO, 0, NO, 0, 0, YES, NO
; 5th ; 2nd NO, , NO, , , , ,
line(STYPE=CMP-CI/CT) line 0, 0.18, 0.01, 0, 0, 1.54, 0.01, 0, 0,
; [SIZE-C]-i ; bSHEARCHK, [SCHK], [WT], WIDTH, 0.01
; 6th bSYM, bSIDEHOLE ; 0.274, 0.28, 0, 0, 0.275, 0, 0
line(STYPE=CMP-CI/CT) 3rd line 0.18, 0.01, 0, 0, 1.54, 0.01, 0, 0,
; [SIZE-D]-i ; bUSERDEFMESH SIZE, MESH SIZE, 0.01
; 7th bUSERINPSTIFF, [STIFF] 0.274, 0.28, 0, 0, 0.275, 0, 0
line(STYPE=CMP-CI/CT) ; 4th line 3, TAPERED , PSC-tap ,
; [SIZE-A]-j ; [SIZE-A] CB, 0, 0, 0, 0, 0, 0, 0, 0, YES, PSCI, 1, 1,
; 8th ; 5th line PSC
line(STYPE=CMP-CI/CT) ; [SIZE-B] , , NO, NO, NO, NO, NO, NO, NO, NO,
; [SIZE-B]-j ; 6th line NO, NO
; 9th ; [SIZE-C] YES, YES, 0, YES, 0, YES, 0, YES, 0,
line(STYPE=CMP-CI/CT) ; 7th line YES, 0, YES, 0, YES, 0, YES, 0, YES, 0,
; [SIZE-C]-j ; [SIZE-D] YES, 0, YES, 0, YES, 0, 0, 0, YES, NO
; 10th ; 8th line NO, , NO, , , , , , , ,
line(STYPE=CMP-CI/CT) ; [DATA1] : 1, DB, NAME or 2, D1, D2, D3, 0, 0.18, 0.14, 0, 0, 1.04, 0.21, 0, 0,
; [SIZE-D]-j D4, D5, D6, D7, D8, D9, D10 0.18
; 11th ; [DATA2] : CCSHAPE or ICEL or IN1, IN2 0.09, 0.28, 0, 0, 0.275, 0, 0
line(STYPE=CMP-CI/CT) ; [SRC] : 1, DB, NAME1, NAME2 or 2, D1, 0.18, 0.14, 0, 0, 1.04, 0.21, 0, 0,
; iSEC, TYPE, SNAME, [OFFSET], bSD, D2, D3, D4, D5, D6, D7, D8, D9, D10, IN1, 0.18
, STYPE1, STYPE2 in2 0.09, 0.28, 0, 0, 0.275, 0, 0
; 1st line - CONSTRUCT ; [DIM1], [DIM2] : D1, D2, D3, D4, D5, D6, 0, 0.18, 0.01, 0, 0, 1.54, 0.01, 0, 0,
; SHAPE, ...(same with other type data D7, D8 0.01
from shape) ; Before ; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, 0.274, 0.28, 0, 0, 0.275, 0, 0
(STYPE1) ; HUSER, iVERT, vUSER 0.18, 0.01, 0, 0, 1.54, 0.01, 0, 0,
; SHAPE, ...(same with other type data ; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, 0.01
from shape) ; After HUSERI, HUSERJ, iVERT, vUSERI, vUSERJ 0.274, 0.28, 0, 0, 0.275, 0, 0
(STYPE2) ; [JOINT] : 8(1CELL, 2CELL), 13(3CELL), 4, DBUSER , cross , CB,
; iSEC, TYPE, SNAME, [OFFSET], bSD, 9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB), 0, 0, 0, 0, 1, 1, YES, SB , 2, 1.5, 0.4, 0, 0,
S H A P E 0(nCELL), 2(nCEL2) 0, 0, 0, 0, 0, 0
; 1st line - COMPOSITE-SB ; [SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 5, DBUSER , COP1 ,
; Hw, tw, B, Bf1, tf1, B2, Bf2, tf2 10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB), CC, 0, 0, 0, 0, 0, 0, YES, SB , 2, 2.5, 10.3,
; 2nd line 5(nCELL), 11(nCEL2) 0, 0, 0, 0, 0, 0, 0
; N1, N2, Hr, Hr2, tr1, tr2 ; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), 6, TAPERED , COP2 ,
; 3rd line 6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB), CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1,
; SW, GN, CTC, Bc, Tc, Hh, EsEc, 8(nCELL), 18(nCEL2) USER
DsDc, Ps, Pc, bMulti, Elong, Esh ; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 2.5, 10.3, 0, 0, 0, 0, 0, 0, 2.5, 2.5,
4th line 9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB), 0, 0, 0, 0, 0
; iSEC, TYPE, SNAME, [OFFSET], bSD, 0(nCELL), 11(nCEL2) 7, DBUSER , Pier , CC,
S H A P E ; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), 0, 0, 0, 0, 0, 0, YES, SR , 2, 2.5, 0, 0, 0,
; 1st line - COMPOSITE-SI 6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB), 0, 0, 0, 0, 0, 0
; Hw, tw, B, Bf1, B2, tf2 0(nCELL), 18(nCEL2) *THICKNESS ; Thickness
; 2nd line ; [STIFF] : AREA, ASy, ASz, lxx, lyy, lzz ; iTHK, TYPE, bSAME, THIK-IN, THIK-OUT,
; SW, GN, CTC, Bc, Tc, Hh, EsEc, ; [SCHK] : bAUTO_Z1, Z1, bAUTO_Z3, Z3 bOFFSET, OFFTYPE, VALUE ; TYPE=VALUE
DsDc, Ps, Pc, bMulti, Elong, Esh ; [WT] : bAUTO_TOR, TOR ; iTHK, TYPE, SUBTYPE, RPOS, WEIGHT
3rd line bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, ; TYPE=STIFFENED,
; iSEC, TYPE, SNAME, [OFFSET], bSD, bAUTO_SHR3, SHR3 SUBTYPE=VALUE
S H A P E ; [CMPWEB] : EFD, LRF, A, B, H, T ; SHAPE, THIK-IN, THIK-OUT, HU, HL
; 1st line - COMPOSITE-CI/CT 1, PSC , PSC b-b , CB, ; ; for yz section
; OPT1, OPT2, [JOINT] 0, 0, 0, 0, 0, 0, YES, PSCI ; SHAPE, THIK-IN, THIK-OUT, HU, HL
; 2nd , , NO, NO, NO, NO, NO, NO, NO, NO ; ; for xz section
line NO, NO ; iTHK, TYPE, SUBTYPE, RPOS, PLATETHIK
; [SIZE-A] YES, YES, 1.43, YES, 0.39, NO, 0, ; TYPE=STIFFENED,
; 3rd line NO, 0, NO, 0, NO, 0, 0, YES, NO SUBTYPE=USER
; [SIZE-B] NO, , NO, , , , , ; bRIB {, SHAPE, DIST, SIZE1, SIZE2,
; 4th line 0, 0.18, 0.14, 0, 0, 1.04, 0.21, 0, 0, , , , , ; for yz section
; [SIZE-C] 0.18 ; bRIB {, SHAPE, DIST, SIZE2, SIZE2,
; 5th line 0.09, 0.28, 0, 0, 0.275, 0, 0 , , , , ; for xz section

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; ITHK, TYPE, SUBTYPE, RPOS, PLATETHIK, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
DBNAME ; 17, 1116, 1016, GEN , 0, 1000, 51, 1150, 1050, GEN , 0, 1000,
TYPE=STIFFENED, SUBTYPE=DB 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
; bRIB {, SHAPE, DIST, SNAME} 18, 1117, 1017, GEN , 0, 1000, 52, 1151, 1051, GEN , 0, 1000,
; ; for yz section 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
; bRIB {, SHAPE, DIST, SNAME} 19, 1118, 1018, GEN , 0, 1000, 53, 1152, 1052, GEN , 0, 1000,
; ; for xz section 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
1, VALUE, YES, 0.8, 0, YES, 0, 2 20, 1119, 1019, GEN , 0, 1000, 54, 1153, 1053, GEN , 0, 1000,
*THIK-COLOR 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
; ITHK, W_R, W_G, W_B, HF_R, HF_G, HF_B, 21, 1120, 1020, GEN , 0, 1000, 55, 1154, 1054, GEN , 0, 1000,
HE_R, HE_G, HE_B, bBLEND, FACT 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
1, 255, 0, 0, 0, 255, 0, 0, 22, 1121, 1021, GEN , 0, 1000, 56, 1155, 1055, GEN , 0, 1000,
0, 255, NO, 0.5 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
*STLDCASE ; Static Load Cases 23, 1122, 1022, GEN , 0, 1000, 57, 1156, 1056, GEN , 0, 1000,
; LCNAME, LCTYPE, DESC 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
고정하중, USER, 24, 1123, 1023, GEN , 0, 1000, 58, 1157, 1057, GEN , 0, 1000,
2차 고정하중, USER, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
Dead Load, D , Dead Load 25, 1124, 1024, GEN , 0, 1000, 59, 1158, 1058, GEN , 0, 1000,
*CONSTRAINT ; Supports 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), 26, 1125, 1025, GEN , 0, 1000, 60, 1159, 1059, GEN , 0, 1000,
GROUP 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
1000to1080by20 1019to1099by20 27, 1126, 1026, GEN , 0, 1000, 61, 1160, 1060, GEN , 0, 1000,
2223to2231, 111111, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
*ELASTICLINK 28, 1127, 1027, GEN , 0, 1000, 62, 1161, 1061, GEN , 0, 1000,
; INO, INODE1, INODE2, LINK, ANGLE, SDx, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
SDy, SDz, SRx, SRy, SRz, bSHEAR, DRy, 29, 1128, 1028, GEN , 0, 1000, 63, 1162, 1062, GEN , 0, 1000,
DRz, GROUP ; GEN 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
; INO, INODE1, INODE2, LINK, ANGLE, 30, 1129, 1029, GEN , 0, 1000, 64, 1163, 1063, GEN , 0, 1000,
bSHEAR, DRy, DRz, GROUP 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
; RIGID 31, 1130, 1030, GEN , 0, 1000, 65, 1164, 1064, GEN , 0, 1000,
; INO, INODE1, INODE2, LINK, ANGLE, SDx, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
bSHEAR, DRy, DRz, GROUP 32, 1131, 1031, GEN , 0, 1000, 66, 1165, 1065, GEN , 0, 1000,
; TENS,COMP 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
; INO, INODE1, INODE2, LINK, ANGLE, 33, 1132, 1032, GEN , 0, 1000, 67, 1166, 1066, GEN , 0, 1000,
(UN)SYM, NUM, DIST1, FORCE1 ... DIST10, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
FORCE10, DIR, bSHEAR, DRENDI, GROUP ; 34, 1133, 1033, GEN , 0, 1000, 68, 1167, 1067, GEN , 0, 1000,
MULTI LINEAR 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
1, 1100, 1000, GEN , 0, 1000, 35, 1134, 1034, GEN , 0, 1000, 69, 1168, 1068, GEN , 0, 1000,
1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
2, 1101, 1001, GEN , 0, 1000, 36, 1135, 1035, GEN , 0, 1000, 70, 1169, 1069, GEN , 0, 1000,
1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
3, 1102, 1002, GEN , 0, 1000, 37, 1136, 1036, GEN , 0, 1000, 71, 1170, 1070, GEN , 0, 1000,
1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
4, 1103, 1003, GEN , 0, 1000, 38, 1137, 1037, GEN , 0, 1000, 72, 1171, 1071, GEN , 0, 1000,
1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
5, 1104, 1004, GEN , 0, 1000, 39, 1138, 1038, GEN , 0, 1000, 73, 1172, 1072, GEN , 0, 1000,
1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
6, 1105, 1005, GEN , 0, 1000, 40, 1139, 1039, GEN , 0, 1000, 74, 1173, 1073, GEN , 0, 1000,
1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
7, 1106, 1006, GEN , 0, 1000, 41, 1140, 1040, GEN , 0, 1000, 75, 1174, 1074, GEN , 0, 1000,
1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
8, 1107, 1007, GEN , 0, 1000, 42, 1141, 1041, GEN , 0, 1000, 76, 1175, 1075, GEN , 0, 1000,
1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
9, 1108, 1008, GEN , 0, 1000, 43, 1142, 1042, GEN , 0, 1000, 77, 1176, 1076, GEN , 0, 1000,
1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
10, 1109, 1009, GEN , 0, 1000, 44, 1143, 1043, GEN , 0, 1000, 78, 1177, 1077, GEN , 0, 1000,
1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
11, 1110, 1010, GEN , 0, 1000, 45, 1144, 1044, GEN , 0, 1000, 79, 1178, 1078, GEN , 0, 1000,
1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
12, 1111, 1011, GEN , 0, 1000, 46, 1145, 1045, GEN , 0, 1000, 80, 1179, 1079, GEN , 0, 1000,
1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
13, 1112, 1012, GEN , 0, 1000, 47, 1146, 1046, GEN , 0, 1000, 81, 1180, 1080, GEN , 0, 1000,
1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
14, 1113, 1013, GEN , 0, 1000, 48, 1147, 1047, GEN , 0, 1000, 82, 1181, 1081, GEN , 0, 1000,
1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
15, 1114, 1014, GEN , 0, 1000, 49, 1148, 1048, GEN , 0, 1000, 83, 1182, 1082, GEN , 0, 1000,
1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5, 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,
16, 1115, 1015, GEN , 0, 1000, 50, 1149, 1049, GEN , 0, 1000, 84, 1183, 1083, GEN , 0, 1000,

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|                                     |                                     |                                     |  |
|-------------------------------------|-------------------------------------|-------------------------------------|--|
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 85, 1184, 1084, GEN , 0, 1000,      | 119, 1021, 1041, RIGID, 0, NO, 0.5, | 153, 1057, 1077, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 86, 1185, 1085, GEN , 0, 1000,      | 120, 1022, 1042, RIGID, 0, NO, 0.5, | 154, 1058, 1078, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 87, 1186, 1086, GEN , 0, 1000,      | 121, 1023, 1043, RIGID, 0, NO, 0.5, | 155, 1061, 1081, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 88, 1187, 1087, GEN , 0, 1000,      | 122, 1024, 1044, RIGID, 0, NO, 0.5, | 156, 1062, 1082, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 89, 1188, 1088, GEN , 0, 1000,      | 123, 1025, 1045, RIGID, 0, NO, 0.5, | 157, 1063, 1083, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 90, 1189, 1089, GEN , 0, 1000,      | 124, 1026, 1046, RIGID, 0, NO, 0.5, | 158, 1064, 1084, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 91, 1190, 1090, GEN , 0, 1000,      | 125, 1027, 1047, RIGID, 0, NO, 0.5, | 159, 1065, 1085, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 92, 1191, 1091, GEN , 0, 1000,      | 126, 1028, 1048, RIGID, 0, NO, 0.5, | 160, 1066, 1086, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 93, 1192, 1092, GEN , 0, 1000,      | 127, 1029, 1049, RIGID, 0, NO, 0.5, | 161, 1067, 1087, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 94, 1193, 1093, GEN , 0, 1000,      | 128, 1030, 1050, RIGID, 0, NO, 0.5, | 162, 1068, 1088, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 95, 1194, 1094, GEN , 0, 1000,      | 129, 1031, 1051, RIGID, 0, NO, 0.5, | 163, 1069, 1089, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 96, 1195, 1095, GEN , 0, 1000,      | 130, 1032, 1052, RIGID, 0, NO, 0.5, | 164, 1070, 1090, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 97, 1196, 1096, GEN , 0, 1000,      | 131, 1033, 1053, RIGID, 0, NO, 0.5, | 165, 1071, 1091, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 98, 1197, 1097, GEN , 0, 1000,      | 132, 1034, 1054, RIGID, 0, NO, 0.5, | 166, 1072, 1092, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 99, 1198, 1098, GEN , 0, 1000,      | 133, 1035, 1055, RIGID, 0, NO, 0.5, | 167, 1073, 1093, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 100, 1199, 1099, GEN , 0, 1000,     | 134, 1036, 1056, RIGID, 0, NO, 0.5, | 168, 1074, 1094, RIGID, 0, NO, 0.5, |  |
| 1000, 1000, 0, 0, 0, NO, 0.5, 0.5,  | 0.5,                                | 0.5,                                |  |
| 101, 1001, 1021, RIGID, 0, NO, 0.5, | 135, 1037, 1057, RIGID, 0, NO, 0.5, | 169, 1075, 1095, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 102, 1002, 1022, RIGID, 0, NO, 0.5, | 136, 1038, 1058, RIGID, 0, NO, 0.5, | 170, 1076, 1096, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 103, 1003, 1023, RIGID, 0, NO, 0.5, | 137, 1041, 1061, RIGID, 0, NO, 0.5, | 171, 1077, 1097, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 104, 1004, 1024, RIGID, 0, NO, 0.5, | 138, 1042, 1062, RIGID, 0, NO, 0.5, | 172, 1078, 1098, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 105, 1005, 1025, RIGID, 0, NO, 0.5, | 139, 1043, 1063, RIGID, 0, NO, 0.5, | 173, 1041, 2196, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 106, 1006, 1026, RIGID, 0, NO, 0.5, | 140, 1044, 1064, RIGID, 0, NO, 0.5, | 174, 2196, 1042, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 107, 1007, 1027, RIGID, 0, NO, 0.5, | 141, 1045, 1065, RIGID, 0, NO, 0.5, | 175, 1043, 2197, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 108, 1008, 1028, RIGID, 0, NO, 0.5, | 142, 1046, 1066, RIGID, 0, NO, 0.5, | 176, 2197, 1044, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 109, 1009, 1029, RIGID, 0, NO, 0.5, | 143, 1047, 1067, RIGID, 0, NO, 0.5, | 177, 1045, 2198, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 110, 1010, 1030, RIGID, 0, NO, 0.5, | 144, 1048, 1068, RIGID, 0, NO, 0.5, | 178, 2198, 1046, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 111, 1011, 1031, RIGID, 0, NO, 0.5, | 145, 1049, 1069, RIGID, 0, NO, 0.5, | 179, 1047, 2199, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 112, 1012, 1032, RIGID, 0, NO, 0.5, | 146, 1050, 1070, RIGID, 0, NO, 0.5, | 180, 2199, 1048, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 113, 1013, 1033, RIGID, 0, NO, 0.5, | 147, 1051, 1071, RIGID, 0, NO, 0.5, | 181, 1049, 2200, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 114, 1014, 1034, RIGID, 0, NO, 0.5, | 148, 1052, 1072, RIGID, 0, NO, 0.5, | 182, 2200, 1050, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 115, 1015, 1035, RIGID, 0, NO, 0.5, | 149, 1053, 1073, RIGID, 0, NO, 0.5, | 183, 1051, 2201, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 116, 1016, 1036, RIGID, 0, NO, 0.5, | 150, 1054, 1074, RIGID, 0, NO, 0.5, | 184, 2201, 1052, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 117, 1017, 1037, RIGID, 0, NO, 0.5, | 151, 1055, 1075, RIGID, 0, NO, 0.5, | 185, 1053, 2202, RIGID, 0, NO, 0.5, |  |
| 0.5,                                | 0.5,                                | 0.5,                                |  |
| 118, 1018, 1038, RIGID, 0, NO, 0.5, | 152, 1056, 1076, RIGID, 0, NO, 0.5, | 186, 2202, 1054, RIGID, 0, NO, 0.5, |  |

```

0.5,
187, 1055, 2203, RIGID, 0, NO, 0.5,
0.5,
188, 2203, 1056, RIGID, 0, NO, 0.5,
0.5,
189, 1057, 2204, RIGID, 0, NO, 0.5,
0.5,
190, 2204, 1058, RIGID, 0, NO, 0.5,
0.5,
: *LOADTOMASS, DIR, bNODAL, bBEAM,
bFLOOR, bPRES, GRAV
: LCNAME1, FACTOR1, LCNAME2,
FACTOR2, ... : from line 1
*LOADTOMASS, XYZ, YES, YES, YES, YES,
9.806
2차 고정하중, 1, Dead Load, 1
*USE-STLD, 고정하중
*SELFWEIGHT, X, Y, Z, GROUP
: *SELFWEIGHT, 0, 0, -1,
: End of data for load case [고정하중]
-----
*USE-STLD, 2차 고정하중
*BEAMLOAD : Element Beam Loads
: ELEM_LIST, CMD, TYPE, DIR, bPROJ,
[ECCEN], [VALUE], GROUP
: ELEM_LIST, CMD, TYPE, TYPE, DIR, VX,
VY, VZ, bPROJ, [ECCEN], [VALUE], GROUP
: [VALUE] : D1, P1, D2, P2, D3, P3,
D4, P4
: [ECCEN] : bECCEN, ECCDIR, I-END,
J-END, bJ-END
: [ADDITIONAL] : bADDITIONAL,
ADDITIONAL_I-END, ADDITIONAL_J-END,
bADDITIONAL_J-END
1, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
2, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
5, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
6, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
7, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
8, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
11, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
12, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
13, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
14, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
17, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
18, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
19, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
20, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
23, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
24, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
25, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
26, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
29, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
30, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
31, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
32, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
34, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
35, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
36, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
37, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
39, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
40, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
41, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
42, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
43, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
44, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
45, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
46, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
47, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
48, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
49, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
50, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
51, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
52, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
53, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
54, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
55, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
1253, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
1254, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
1255, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
1256, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
1257, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
1343, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
1344, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
1345, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
1346, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
1347, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
1348, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
1349, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
1350, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO
1351, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -25.215, 1, -25.215, 0, 0,
0, 0, , NO, 0, 0, NO

```











|                                              |                                              |                                            |
|----------------------------------------------|----------------------------------------------|--------------------------------------------|
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | *PRESSURE : Pressure Loads                 |
| 1836, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | : ELEM_LIST, CMD, ETYP, LTYP, DIR, VX,     |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1859, BEAM , UNILoad, GZ, NO , NO,           | VY, VZ, bPROJ, PU, P1, P2, P3, P4, GROUP   |
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | : ETYP=PLATE, LTYP=FACE                    |
| 1837, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | : ELEM_LIST, CMD, ETYP, LTYP, IEDGE, DIR,  |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1860, BEAM , UNILoad, GZ, NO , NO,           | VX, VY, VZ, PU, P1, P2, GROUP ;            |
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | : ETYP=PLATE, LTYP=EDGE                    |
| 1838, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | : ELEM_LIST, CMD, ETYP, IEDGE, DIR, VX,    |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1861, BEAM , UNILoad, GZ, NO , NO,           | VY, VZ, PU, P1, P2, GROUP ;                |
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | : ETYP=PLANE                               |
| 1839, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | : ELEM_LIST, CMD, ETYP, iFACE, DIR, VX,    |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1862, BEAM , UNILoad, GZ, NO , NO,           | VY, VZ, bPROJ, PU, P1, P2, P3, P4, GROUP   |
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | : ETYP=SOLID                               |
| 1840, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | : [PLATE] : plate, plane stress, [PLANE] : |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1863, BEAM , UNILoad, GZ, NO , NO,           | axisymmetric, plane strain                 |
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1912, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| 1841, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | NO, -18.2186, 0, 0, 0, 0,                  |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1864, BEAM , UNILoad, GZ, NO , NO,           | 1913, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | NO, -1.80442, 0, 0, 0, 0,                  |
| 1842, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | 1914, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1865, BEAM , UNILoad, GZ, NO , NO,           | NO, -1.80442, 0, 0, 0, 0,                  |
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1915, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| 1843, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | NO, -1.80442, 0, 0, 0, 0,                  |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1866, BEAM , UNILoad, GZ, NO , NO,           | 1916, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | NO, -1.80442, 0, 0, 0, 0,                  |
| 1844, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | 1917, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1891, BEAM , UNILoad, GZ, NO , NO,           | NO, -1.80442, 0, 0, 0, 0,                  |
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1918, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| 1845, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | NO, -1.80442, 0, 0, 0, 0,                  |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1892, BEAM , UNILoad, GZ, NO , NO,           | 1919, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | NO, -1.80442, 0, 0, 0, 0,                  |
| 1846, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | 1920, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1893, BEAM , UNILoad, GZ, NO , NO,           | NO, -1.80442, 0, 0, 0, 0,                  |
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1921, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| 1847, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | NO, -1.80442, 0, 0, 0, 0,                  |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1894, BEAM , UNILoad, GZ, NO , NO,           | 1922, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | NO, -1.80442, 0, 0, 0, 0,                  |
| 1848, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | 1923, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1895, BEAM , UNILoad, GZ, NO , NO,           | NO, -18.2186, 0, 0, 0, 0,                  |
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1924, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| 1849, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | NO, -18.2186, 0, 0, 0, 0,                  |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1896, BEAM , UNILoad, GZ, NO , NO,           | 1925, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | NO, -1.80442, 0, 0, 0, 0,                  |
| 1850, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | 1926, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1897, BEAM , UNILoad, GZ, NO , NO,           | NO, -1.80442, 0, 0, 0, 0,                  |
| 0, 0, , NO, 0, 0, NO                         | aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1927, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| 1851, BEAM , UNILoad, GZ, NO , NO,           | 0, 0, , NO, 0, 0, NO                         | NO, -1.80442, 0, 0, 0, 0,                  |
| aDir[1], , , , 0, -25.215, 1, -25.215, 0, 0, | 1898, BEAM , UNILoad, GZ, NO , NO,           | 1928, PRES , PLATE, FACE, LZ, 0, 0, 0,     |
| 0, 0, , NO, 0,                               |                                              |                                            |





|                                        |                                          |                           |                 |
|----------------------------------------|------------------------------------------|---------------------------|-----------------|
| NO, -1.8, 0, 0, 0, 0,                  | NO, -18.2, 0, 0, 0, 0,                   | 1.400 R = 1.000, 1.000000 |                 |
| 2145, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2179, PRES , PLATE, FACE, LZ, 0, 0, 0,   | KS_BRG                    |                 |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 0.000000,                 | 0.385,          |
| 2146, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2180, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 0.100000,                 | 0.385           |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 0.200000,                 | 0.385,          |
| 2147, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2181, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 0.300000,                 | 0.385           |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 0.400000,                 | 0.385,          |
| 2148, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2182, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 0.437153,                 | 0.385           |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 0.500000,                 | 0.35202205728,  |
| 2149, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2183, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 0.600000,                 | 0.3117327131    |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 0.700000,                 | 0.28128798775,  |
| 2150, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2184, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 0.800000,                 | 0.25732968494   |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 0.900000,                 | 0.23789658437,  |
| 2151, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2185, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 1.000000,                 | 0.22176         |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 1.100000,                 | 0.20810767128,  |
| 2152, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2186, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 1.200000,                 | 0.19637930358   |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 1.300000,                 | 0.18617483519,  |
| 2153, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2187, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 1.400000,                 | 0.17720032843   |
| NO, -18.2, 0, 0, 0, 0,                 | NO, -1.8, 0, 0, 0, 0,                    | 1.500000,                 | 0.16923455362,  |
| 2154, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2188, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 1.600000,                 | 0.16210754341   |
| NO, -18.2, 0, 0, 0, 0,                 | NO, -1.8, 0, 0, 0, 0,                    | 1.700000,                 | 0.15568637214,  |
| 2155, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2189, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 1.800000,                 | 0.14986545717   |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -18.2, 0, 0, 0, 0,                   | 1.900000,                 | 0.14455978012,  |
| 2156, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2190, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 2.000000,                 | 0.13970004601   |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -18.2, 0, 0, 0, 0,                   | 2.100000,                 | 0.13522915982,  |
| 2157, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2191, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 2.200000,                 | 0.13109961784   |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 2.300000,                 | 0.12727154677,  |
| 2158, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2192, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 2.400000,                 | 0.12371120918   |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 2.500000,                 | 0.12038985013,  |
| 2159, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2193, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 2.600000,                 | 0.11728279691   |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 2.700000,                 | 0.11436874886,  |
| 2160, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2194, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 2.800000,                 | 0.11162921192   |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 2.900000,                 | 0.10904804424,  |
| 2161, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2195, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 3.000000,                 | 0.10661108824   |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 3.100000,                 | 0.10430587013,  |
| 2162, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2196, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 3.200000,                 | 0.10212135314   |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 3.300000,                 | 0.10004773316,  |
| 2163, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2197, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 3.400000,                 | 0.098076268722  |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 3.500000,                 | 0.096199138629, |
| 2164, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2198, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 3.600000,                 | 0.094409322071  |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -1.8, 0, 0, 0, 0,                    | 3.700000,                 | 0.092700497213, |
| 2165, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2199, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 3.800000,                 | 0.091066954968  |
| NO, -18.2, 0, 0, 0, 0,                 | NO, -1.8, 0, 0, 0, 0,                    | 3.900000,                 | 0.089503525352, |
| 2166, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2200, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 4.000000,                 | 0.088005514321  |
| NO, -18.2, 0, 0, 0, 0,                 | NO, -1.8, 0, 0, 0, 0,                    | 4.100000,                 | 0.084484702539, |
| 2167, PRES , PLATE, FACE, LZ, 0, 0, 0, | 2201, PRES , PLATE, FACE, LZ, 0, 0, 0,   | 4.200000,                 | 0.08181334844   |
| NO, -1.8, 0, 0, 0, 0,                  | NO, -18.2, 0, 0, 0, 0,                   | 4.300000,                 | 0.079286384484, |
| 2168, PRES , PLATE, FACE, LZ, 0, 0, 0, | ; End of data for load case [Dead Load]  | 4.400000,                 | 0.076892914002  |
| NO, -1.8, 0, 0, 0, 0,                  | -----                                    | 4.500000,                 | 0.074623085679, |
| 2169, PRES , PLATE, FACE, LZ, 0, 0, 0, | *SFUNCTION ; Spectrum Function           | 4.600000,                 | 0.072467972808  |
| NO, -1.8, 0, 0, 0, 0,                  | ; FUNC=NAME, ITYPE, IMETHOD,             | 4.700000,                 | 0.070419468744, |
| 2170, PRES , PLATE, FACE, LZ, 0, 0, 0, | SCALE/MAX, GRAV, DRATIO, DESC, RMF       | 4.800000,                 | 0.068470196111  |
| NO, -1.8, 0, 0, 0, 0,                  | ; line 1                                 | 4.900000,                 | 0.066613427703, |
| 2171, PRES , PLATE, FACE, LZ, 0, 0, 0, | ; SPEC_CODE, [CODE_DATA]                 | 5.000000,                 | 0.064843017363  |
| NO, -1.8, 0, 0, 0, 0,                  | ; line 2                                 | 5.100000,                 | 0.06315339425,  |
| 2172, PRES , PLATE, FACE, LZ, 0, 0, 0, | ; PERIOD1, VALUE1, PERIOD2, VALUE2,      | 5.200000,                 | 0.061539235506  |
| NO, -1.8, 0, 0, 0, 0,                  | ... ; from line 3                        | 5.300000,                 | 0.05999596763,  |
| 2173, PRES , PLATE, FACE, LZ, 0, 0, 0, | :[CODE_DATA] : NSC, SFI, SC, EQ, TG      | 5.400000,                 | 0.058519176842  |
| NO, -1.8, 0, 0, 0, 0,                  | ; CH2001                                 | 5.500000,                 | 0.057104846562, |
| 2174, PRES , PLATE, FACE, LZ, 0, 0, 0, | :[CODE_DATA] : SFI, SC, EQ, TG           | 5.600000,                 | 0.055749270082  |
| NO, -1.8, 0, 0, 0, 0,                  | ; CHSH2003                               | 5.700000,                 | 0.054449021654, |
| 2175, PRES , PLATE, FACE, LZ, 0, 0, 0, | :[CODE_DATA] : DIV, SC, SFI, EQ, TG, G   | 5.800000,                 | 0.053200930731  |
| NO, -1.8, 0, 0, 0, 0,                  | ; GB50111-2006                           | 5.900000,                 | 0.052002058968, |
| 2176, PRES , PLATE, FACE, LZ, 0, 0, 0, | :[CODE_DATA] : BT, ZM, ST, SI, SC, TG,   | 6.000000,                 | 0.050849679633  |
| NO, -1.8, 0, 0, 0, 0,                  | CI, CS, CD, EPA, SMAX, PERIOD ; JTG/T    | 6.100000,                 | 0.049741259164, |
| 2177, PRES , PLATE, FACE, LZ, 0, 0, 0, | B02-01-2008                              | 6.200000,                 | 0.048674440592  |
| NO, -18.2, 0, 0, 0, 0,                 | FUNC=KS-Bridge, 1, 0, 1, 9.806, 0.05,    | 6.300000,                 | 0.047647028634, |
| 2178, PRES , PLATE, FACE, LZ, 0, 0, 0, | KS-Bridge : Soil = 1.20 Area = 0.110 I = | 6.400000,                 | 0.046656976256  |

|                                       |                 |                                             |                                         |
|---------------------------------------|-----------------|---------------------------------------------|-----------------------------------------|
| 6.500000,                             | 0.045702372536, | 1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,   | FRMIN, FRMAX, bSTRUM ; TYPE=EIGEN       |
| 6.600000, 0.044781431699              |                 | 1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,   | ; TYPE, bINCNL, IGNU                    |
| 6.700000,                             | 0.043892483175, | 1,YES, 1,YES, 1,YES, 1                      | ; TYPE=RITZ(line 1)                     |
| 6.800000, 0.043033962591              |                 | NAME=Y-dir, XY, 90, 1, 1, NO, NO, LOG,      | ; KIND1, CASE1/GROUND1, INOG1, ...      |
| 6.900000,                             | 0.042204403576, | SRSS, NO, 0, YES                            | ; TYPE=RITZ(from                        |
| 7.000000, 0.041402430319              |                 | KS-Bridge                                   | line2)                                  |
| 7.100000,                             | 0.040626750779, | YES, 1,YES, 1,YES, 1,YES, 1,YES,            | RITZ, NO, 0                             |
| 7.200000, 0.039876150493              |                 | 1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,   | GROUND, ACCX, 25, GROUND, ACCY, 25      |
| 7.300000,                             | 0.039149486926, | 1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,   | *DGN-MATL ; Modify Steel(Concrete)      |
| 7.400000, 0.038445684293              |                 | 1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,   | Material                                |
| 7.500000,                             | 0.037763728828, | 1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,   | ; iMAT, TYPE, MNAME, [DATA1]            |
| 7.600000, 0.03710266444               |                 | 1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,   | ; STEEL                                 |
| 7.700000,                             | 0.036461588724, | 1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,   | ; iMAT, TYPE, MNAME, [DATA2], [R-DATA], |
| 7.800000, 0.035839649302              |                 | 1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,   | FCI, bSERV, SHORT, LONG ; CONC          |
| 7.900000,                             | 0.035236040451, | 1,YES, 1,YES, 1,YES, 1                      | ; iMAT, TYPE, MNAME, [DATA3], [DATA2],  |
| 8.000000,                             | 0.03465         | *MVLDCODE ; Moving Load Code                | [R-DATA] ; SRC                          |
| 8.100000,                             | 0.034080806468, | ; CODE=CODE                                 | ; iMAT, TYPE, MNAME, [DATA5]            |
| 8.200000, 0.033527776421              |                 | CODE=NONE                                   | ; STEEL(None) &                         |
| 8.300000,                             | 0.032990262037, | *LOADCOMB ; Combinations                    | KSCE-ASD05                              |
| 8.400000, 0.032467648845              |                 | ; NAME=NAME, KIND, ACTIVE, bES, iTYPE,      | ; [DATA1] : 1, DB, CODE, NAME or 2,     |
| 8.500000,                             | 0.031959353636, | DESC, iSERV-TYPE, nLCOMTYPE ; line 1        | ELAST, POISN, FU, FY1, FY2, FY3, FY4    |
| 8.600000, 0.031464822534              |                 | ; ANAL1, LCNAME1, FACT1, ...                | ; FY5, FY6, AFT, AFT2, AFT3, FY,        |
| 8.700000,                             | 0.030983529195, | ; from line 2                               | AFV, AFV2, AFV3                         |
| 8.800000, 0.030514973144              |                 | NAME=고정하중, GEN, ACTIVE, 0, 0, , 0,          | ; [DATA2] : 1, DB, CODE, NAME or 2, FC, |
| 8.900000,                             | 0.030058678228, | 0                                           | CHK, LAMBDA                             |
| 9.000000, 0.029614191177              |                 | ST, 고정하중, 1, ST, 2차 고정하중, 1,                | ; [DATA3] : 1, DB, CODE, NAME or 2,     |
| 9.100000,                             | 0.029181080266, | ST, Dead Load, 1,2                          | ELAST, FU, FY1, FY2, FY3, FY4           |
| 9.200000, 0.028758934067              |                 | NAME=X-dir, GEN, ACTIVE, 0, 0, , 0, 0       | ; FY5, FY6, AFT, AFT2, AFT3,            |
| 9.300000,                             | 0.028347360289, | RS, X-dir, 1                                | FY, AFV, AFV2, AFV3                     |
| 9.400000, 0.027945984691              |                 | NAME=Y-dir, GEN, ACTIVE, 0, 0, , 0, 0       | ; [DATA4] : 1, DB, CODE, NAME or 2, FC  |
| 9.500000,                             | 0.027554450074, | RS, Y-dir, 1                                | ; [DATA5] : 3, ELAST, POISN, AL1, AL2,  |
| 9.600000, 0.027172415334              |                 | NAME=com1, GEN, ACTIVE, 0, 0, , 0, 0        | AL3, AL4, AL5, AL6, AL7, AL8, AL9, AL10 |
| 9.700000,                             | 0.026799554579, | RS, X-dir, 1, RS, Y-dir, 0,3                | ; MIN1, MIN2, MIN3                      |
| 9.800000, 0.026435556303              |                 | NAME=com2, GEN, ACTIVE, 0, 0, , 0, 0        | ; [R-DATA]: RBCODE, RBMAIN, RBSUB,      |
| 9.900000,                             | 0.02608012261,  | RS, X-dir, 0,3, RS, Y-dir, 1                | FY(R), FYS                              |
| 10.000000, 0.025732968494             |                 | *LC-COLOR ; Diagram Color for Load          | 1, CONC , C40 , 1,                      |
| *SPLDCASE ; Spectrum Load Cases       |                 | Case                                        | KSCE-LSD12(RC), ,C40                    |
| ; TYPE, bADDSIGN, iSIGNTYPE           |                 | ; ANAL, LCNAME, iR1(ALL), iG1(ALL),         | , NO, 1, , , , 0, 0, 28000, NO, 0, 0    |
| ; NAME=NAME, DIR, ANGLE, SCALE, PMFT, |                 | iB1(ALL), iR2(MIN), iG2(MIN), iB2(MIN),     | 2, CONC , C21 , 1,                      |
| bDAMP, bECC, INTERP, DESC, ; line 1   |                 | iR3(MAX), iG2(MAX), iB2(MAX)                | KSCE-LSD12(RC), ,C21                    |
| ; COMTYPE, bADDSIGN, iSIGNTYPE,       |                 | ST, 고정하중, 210, 210, 210, 128, 192, 0,       | , NO, 1, , , , 0, 0, 14700, NO, 0, 0    |
| bMODE ; line 2                        |                 | 0, 128, 255                                 | 4, CONC , C27 , 1,                      |
| ; FUNC1, FUNC2, FUNC3, ...            |                 | RS, X-dir, 192, 72, 0, 163, 160, 255, 148,  | KSCE-LSD12(RC), ,C27                    |
| ; line 3                              |                 | 87, 255                                     | , NO, 1, , , , 0, 0, 18900, NO, 0, 0    |
| ; bUSE1, dFACTOR1, bUSE2,             |                 | RS, Y-dir, 163, 160, 255, 255, 87, 87, 255, | *SECTION MANAGER-GROUP & PART ;         |
| dFACTOR2, ..., bUSEn, dFACTORn ;      |                 | 87, 128                                     | Section Manager - Group & Part          |
| line 4 (bMODE=YES)                    |                 | CB, 고정하중, 255, 128, 0, 163, 160, 255,       | ; SECT = NO, bSAMEJ                     |
| ; bCDR, [DR-DC]                       |                 | 210, 210, 210                               | ; line                                  |
| ; line 5                              |                 | ST, 2차 고정하중, 192, 0, 192, 192, 0, 192,      | 1                                       |
| (bDAMP=YES)                           |                 | 192, 128, 0                                 | ; GRPDISIZE, GRPDJSIZE, PARTISIZE,      |
| ; [DR-DC] : iMDTYPE, DALL, iMODE1,    |                 | CB, X-dir, 0, 192, 192, 160, 255, 255, 0,   | PARTJSIZE ;                             |
| DAMPING1, iMODE2, DAMPING2, ... ;     |                 | 128, 192                                    | line 2                                  |
| iMDTYPE=1                             |                 | CB, Y-dir, 255, 0, 192, 0, 128, 128, 0,     | ; .....                                 |
| ; iMDTYPE, iCOEF, bMASSP,             |                 | 192, 192                                    | ..... ;                                 |
| MASSC, bSTIFFP, STIFFC ;              |                 | CB, com1, 160, 255, 255, 192, 128, 0,       | ; LOOP UTIL (GRPDISIZE,                 |
| iMDTYPE=2, iCOEF=1                    |                 | 146, 0, 255                                 | G R P D J S I Z E )                     |
| ; iMDTYPE, iCOEF, iCALC,              |                 | CB, com2, 192, 0, 192, 0, 128, 192, 78, 0,  | ; .....                                 |
| bMASSP, FP1, DR1, bSTIFFP, FP2, DR2 ; |                 | 255                                         | ; GROUPID, GROUPNAME,                   |
| iMDTYPE=2, iCOEF=2                    |                 | ST, Dead Load, 93, 255, 87, 255, 87, 128,   | G R O U P T Y P E                       |
| NAME=X-dir, XY, 0, 1, 1, NO, NO, LOG, |                 | 255, 255, 255                               | ; line n                                |
| SRSS, NO, 0, YES                      |                 | *ANAL-CTRL                                  | ; .....                                 |
| KS-Bridge                             |                 | ; bARDC, bANRC, iITER, TOL, bCSECF,         | ; LOOP UTIL (PARTISIZE, PARTJSIZE)      |
| YES, 1,YES, 1,YES, 1,YES, 1,YES,      |                 | bTRS, bCRBAR, bTPPF, bCSO, bSCS, bCLATS     | ; .....                                 |
| 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,    |                 | YES, YES, 20, 0.001, YES, YES, YES, NO,     | ; PARTTYPE, GROUPID, PARTNAME,          |
| 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,    |                 | NO, NO, NO                                  | PARTSHAPE, bSTIFFENER                   |
| 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,    |                 | *EIGEN-CTRL ; Eigenvalue Analysis           |                                         |
| 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,    |                 | Control                                     |                                         |
| 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,    |                 | ; TYPE, iFREQ, iITER, iDIM, TOL, bMINMAX,   |                                         |

```

; line n
;          LINESIZE, LINEINDEX[i].....
;                               ; line n
;
.....
..... ;
    SECT=3, YES
    0, 0, 0, 0
    SECT=6, YES
    0, 0, 0, 0
*SECTION  MANAGER-STIFFENER          ;
Section Manager - Stiffener
;      SECT      =      NO,      bSAMEJ
;                               ; line
1
;          STFNISIZE, STFNJSIZE
;                               ; line 2
;
.....
..... ;
;      LOOP UTIL (STFNISIZE, STFNJSIZE)
;
;          TYPE, Z, STANDREF, POSLINE,
STANDREFL,      NUM,      CTC
; line n
;          STIFFTYPE, dSIZE(0 ~ 20)
;                               ; line n
;          LINESIZE, LINEINDEX[i].....
;                               ; line n
;
.....
..... ;
    SECT=3, YES
    0, 0
    SECT=6, YES
    0, 0
*ENDDATA

```