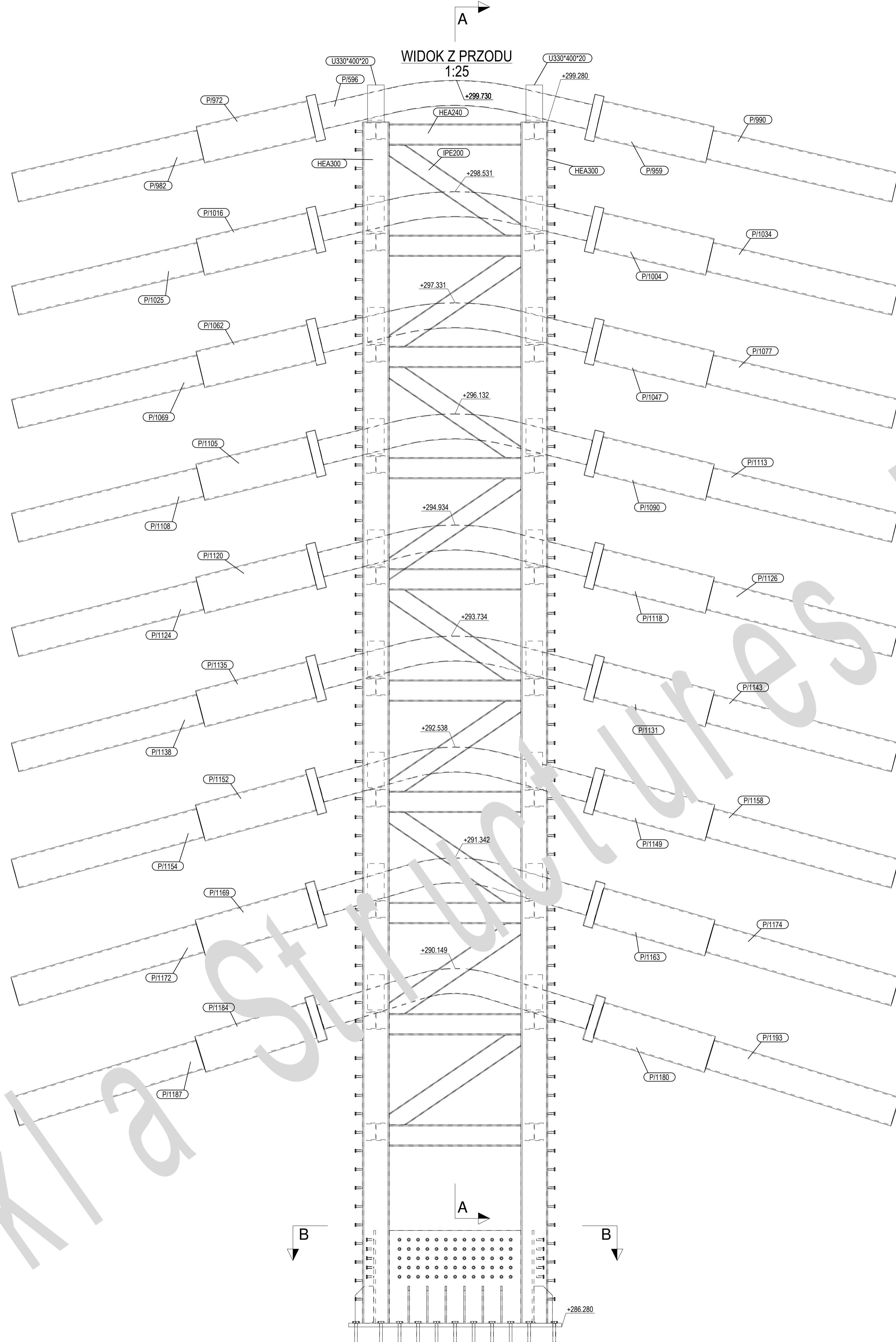
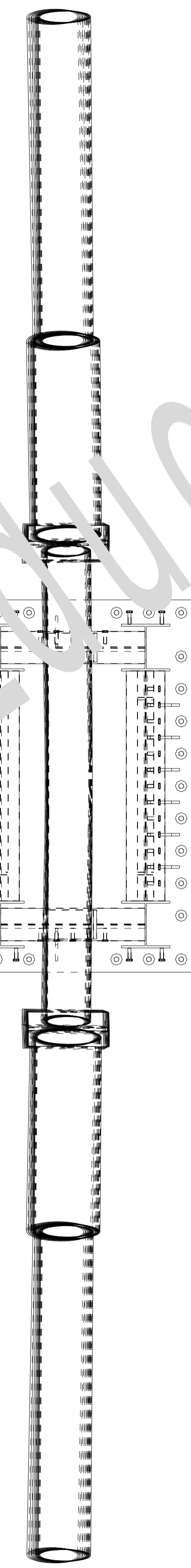


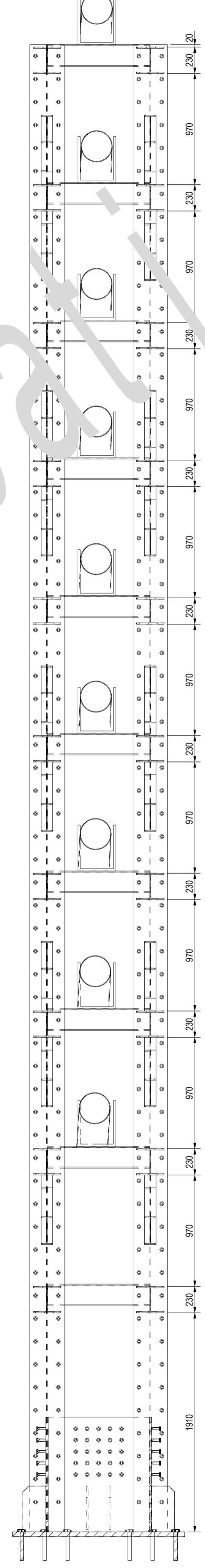
| SHOP MATERIAL LIST FOR 1 ASSEMBLY |                  |        |     |               |                        |             |
|-----------------------------------|------------------|--------|-----|---------------|------------------------|-------------|
| Mark                              | Size             | Grade  | No. | Length (m)    | Area (m <sup>2</sup> ) | Weight (kg) |
| 1001                              | PL40*1500        | S235JR | 1   | 2300          | 7.204                  | 1083.3      |
| 1002                              | PL20*1000        | S235JR | 2   | 1420          | 5.874                  | 445.9       |
| 1003                              | PL20*892         | S235JR | 2   | 1000          | 3.717                  | 279.9       |
| 1004                              | PL16*200         | S235JR | 6   | 400           | 1.054                  | 59.2        |
| 1005                              | PL10*33          | S235JR | 692 | 33            | 2.005                  | 49.0        |
| 1006                              | PL20*66          | S235JR | 30  | 66            | 0.348                  | 17.0        |
| 1008                              | PL16*200         | S235JR | 2   | 400           | 0.335                  | 18.8        |
| P/583                             | rTD9GHkSD0qT***  | S235JR | 1   | 2981          | 5.051                  | 98.4        |
| P/584                             | rTD9GHkSD0qT***  | S235JR | 1   | 2988          | 5.086                  | 99.2        |
| P/585                             | rTD9GHkSD0qT***  | S235JR | 1   | 2973          | 5.014                  | 97.8        |
| P/586                             | rTD9GHkSD0qT***  | S235JR | 1   | 2978          | 5.032                  | 98.0        |
| P/595                             | rTD9GHkSD0qT***  | S235JR | 1   | 2967          | 4.984                  | 97.2        |
| P/596                             | rTD9GHkSD0qT***  | S235JR | 1   | 2970          | 4.988                  | 97.2        |
| P/597                             | rTD9GHkSD0qT***  | S235JR | 1   | 2970          | 4.997                  | 97.6        |
| P/598                             | rTD9GHkSD0qT***  | S235JR | 1   | 2970          | 4.994                  | 97.4        |
| P/600                             | rTD9GHkSD0qT***  | S235JR | 1   | 2970          | 5.002                  | 97.4        |
| P/823                             | UIKZEP55HGKIK*** | S235JR | 1   | 213           | 0.700                  | 196.2       |
| P/866                             | UIKZEP55HGKIK*** | S235JR | 1   | 213           | 0.700                  | 196.2       |
| P/906                             | UIKZEP55HGKIK*** | S235JR | 1   | 215           | 0.700                  | 196.2       |
| P/941                             | UIKZEP55HGKIK*** | S235JR | 1   | 215           | 0.700                  | 196.2       |
| P/957                             | UIKZEP55HGKIK*** | S235JR | 1   | 218           | 0.700                  | 196.2       |
| P/959                             | Hb1WeFh-80Wjr*** | S235JR | 1   | 1290          | 3.086                  | 120.0       |
| P/961                             | UIKZEP55HGKIK*** | S235JR | 1   | 218           | 0.700                  | 196.3       |
| P/964                             | UIKZEP55HGKIK*** | S235JR | 1   | 220           | 0.700                  | 196.3       |
| P/969                             | UIKZEP55HGKIK*** | S235JR | 1   | 220           | 0.700                  | 196.2       |
| P/972                             | Hb1WeFh-80Wjr*** | S235JR | 1   | 1290          | 3.086                  | 120.0       |
| P/975                             | UIKZEP55HGKIK*** | S235JR | 1   | 224           | 0.700                  | 196.2       |
| P/980                             | UIKZEP55HGKIK*** | S235JR | 1   | 224           | 0.700                  | 196.2       |
| P/982                             | Hb1WeFh-80Wjr*** | S235JR | 1   | 2073          | 4.061                  | 157.9       |
| P/986                             | UIKZEP55HGKIK*** | S235JR | 1   | 228           | 0.700                  | 196.3       |
| P/990                             | Hb1WeFh-80Wjr*** | S235JR | 1   | 2073          | 4.061                  | 157.9       |
| P/991                             | UIKZEP55HGKIK*** | S235JR | 1   | 228           | 0.700                  | 196.2       |
| P/995                             | UIKZEP55HGKIK*** | S235JR | 1   | 234           | 0.700                  | 196.3       |
| P/1000                            | UIKZEP55HGKIK*** | S235JR | 1   | 234           | 0.700                  | 196.3       |
| P/1003                            | UIKZEP55HGKIK*** | S235JR | 1   | 241           | 0.700                  | 196.3       |
| P/1004                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1293          | 3.095                  | 120.3       |
| P/1007                            | UIKZEP55HGKIK*** | S235JR | 1   | 241           | 0.700                  | 196.2       |
| P/1014                            | UIKZEP55HGKIK*** | S235JR | 1   | 250           | 0.700                  | 196.3       |
| P/1016                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1293          | 3.095                  | 120.3       |
| P/1017                            | UIKZEP55HGKIK*** | S235JR | 1   | 250           | 0.700                  | 196.3       |
| P/1025                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2074          | 4.065                  | 158.0       |
| P/1034                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2074          | 4.065                  | 158.4       |
| P/1047                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1294          | 3.096                  | 120.4       |
| P/1062                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1294          | 3.096                  | 120.4       |
| P/1069                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2076          | 4.070                  | 158.2       |
| P/1077                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2076          | 4.070                  | 158.2       |
| P/1090                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1298          | 3.103                  | 120.6       |
| P/1105                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1298          | 3.103                  | 120.7       |
| P/1108                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2077          | 4.075                  | 158.4       |
| P/1113                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2077          | 4.075                  | 158.4       |
| P/1118                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1301          | 3.111                  | 121.0       |
| P/1120                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1301          | 3.111                  | 121.0       |
| P/1124                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2080          | 4.082                  | 158.7       |
| P/1126                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2080          | 4.082                  | 158.7       |
| P/1131                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1305          | 3.117                  | 121.2       |
| P/1135                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1305          | 3.117                  | 121.2       |
| P/1138                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2082          | 4.091                  | 159.1       |
| P/1143                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2082          | 4.091                  | 158.6       |
| P/1149                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1308          | 3.124                  | 121.5       |
| P/1152                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1308          | 3.124                  | 121.5       |
| P/1154                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2086          | 4.103                  | 159.5       |
| P/1158                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2086          | 4.103                  | 159.5       |
| P/1163                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1314          | 3.139                  | 122.1       |
| P/1169                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1314          | 3.139                  | 122.1       |
| P/1172                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2090          | 4.119                  | 160.1       |
| P/1174                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2090          | 4.119                  | 160.1       |
| P/1180                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1321          | 3.154                  | 122.7       |
| P/1184                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 1321          | 3.154                  | 122.7       |
| P/1187                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2096          | 4.142                  | 161.0       |
| P/1193                            | Hb1WeFh-80Wjr*** | S235JR | 1   | 2096          | 4.142                  | 161.0       |
| b/1                               | HEA300           | S235JR | 4   | 12960         | 91.479                 | 4324.6      |
| b/2                               | HEA200           | S235JR | 20  | 892           | 21.012                 | 714.5       |
| b/3                               | U330*400*20      | S235JR | 18  | 180           | 7.978                  | 554.5       |
| b/4                               | HEA240           | S235JR | 20  | 1420          | 40.194                 | 1628.6      |
| b/5                               | IPE200           | S235JR | 17  | 1720          | 21.108                 | 565.2       |
| b/6                               | IPE200           | S235JR | 1   | 1788          | 1.302                  | 35.0        |
| b/7                               | D20              | S235JR | 692 | 70            | 3.357                  | 107.6       |
| b/8                               | D30              | S235JR | 30  | 250           | 0.739                  | 39.7        |
| b/9                               | 400*200          | S235JR | 2   | 16            | 0.335                  | 18.8        |
| b/10                              | 400*200          | S235JR | 6   | 16            | 1.054                  | 59.2        |
| <b>Total</b>                      |                  |        |     | <b>396.51</b> | <b>1945.4</b>          |             |



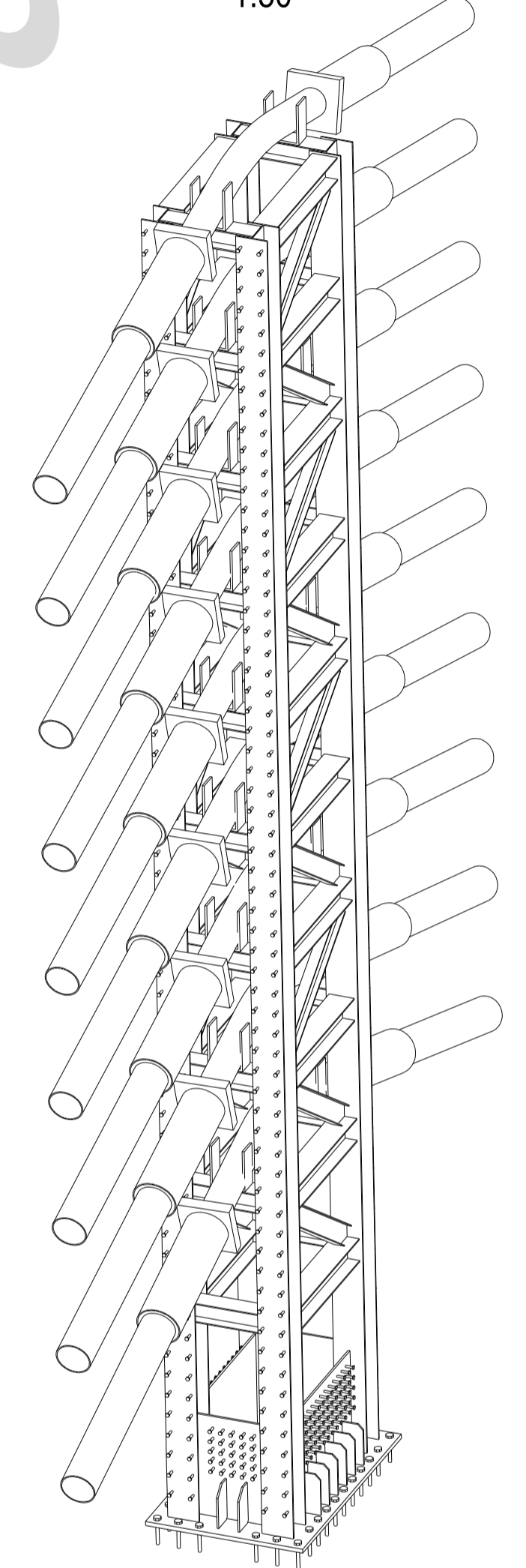
WIDOK Z GÓRY  
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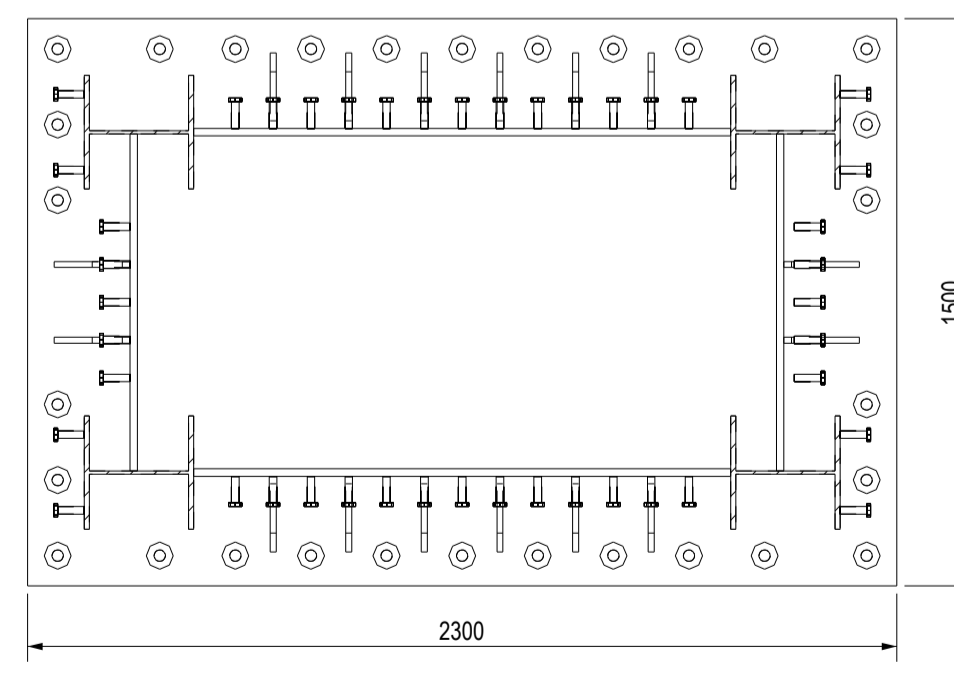
PRZEKRÓJ A - A  
1:25



ISOMETRIA  
1:50



PRZEKRÓJ B - B  
1:20



|  |  |            |          |                |
|--|--|------------|----------|----------------|
| Politechnika Warszawska<br>WYDZIAŁ INŻYNIERII ŁĄDOWEJ                              |  |            |          | Powered by<br> |
| INSTYTUT DRÓG I MOSTÓW<br>ZAKŁAD GEOTECHNIKI, MOSTÓW I BUDOWLI PODZIEMNYCH (ZGMBP) |  |            |          |                |
| SPECJALNOŚĆ  | KONSTRUKCJE BUDOWLANE I INŻYNIERSKIE   |            |          |                |
| TYTUŁ PRACY  | ANALIZA NUMERYCZNA MOSTU EXTRADOSED PRZEZ<br>DUNAJEC W KUROWIE Z ASPEKTAMI TECHNOLOGII BrM |            |          |                |
| FAZA OPRACOWANIA   | PRACA DYPLOMOWA MAGISTERSKA  | SKALA      | 1:20     |                |
| NAZWA RYSUNKU  | KONSTRUKCJA WSPORCZA POD SIODŁA KABLI EX-D   | DATA       | MAY 2020 |                |
| DYPLOMANT  | INŻ. MATEUSZ ŁAPIŃSKI  | NR RYSUNKU | 3        |                |
| PROMOTOR   | DR HAB. INŻ. WOJCIECH TRACHYMIAK   |            |          |                |