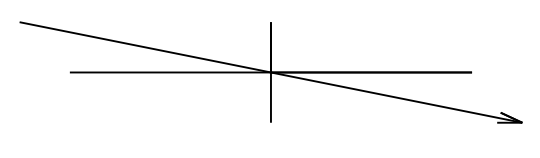
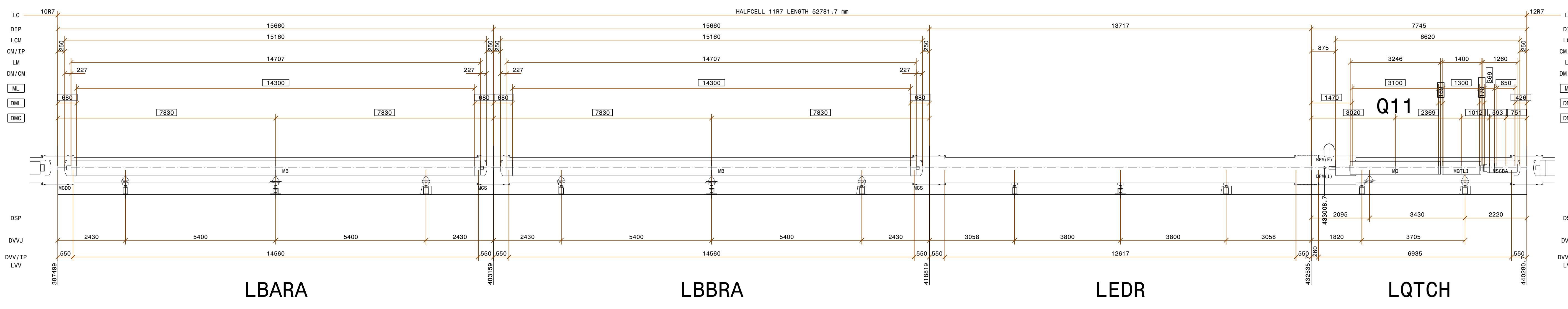
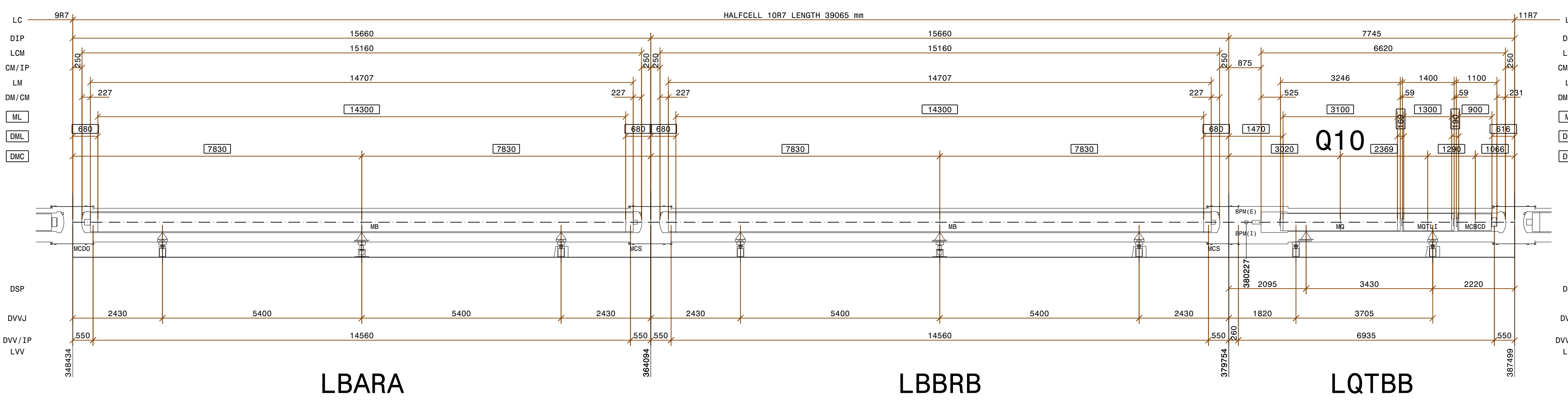
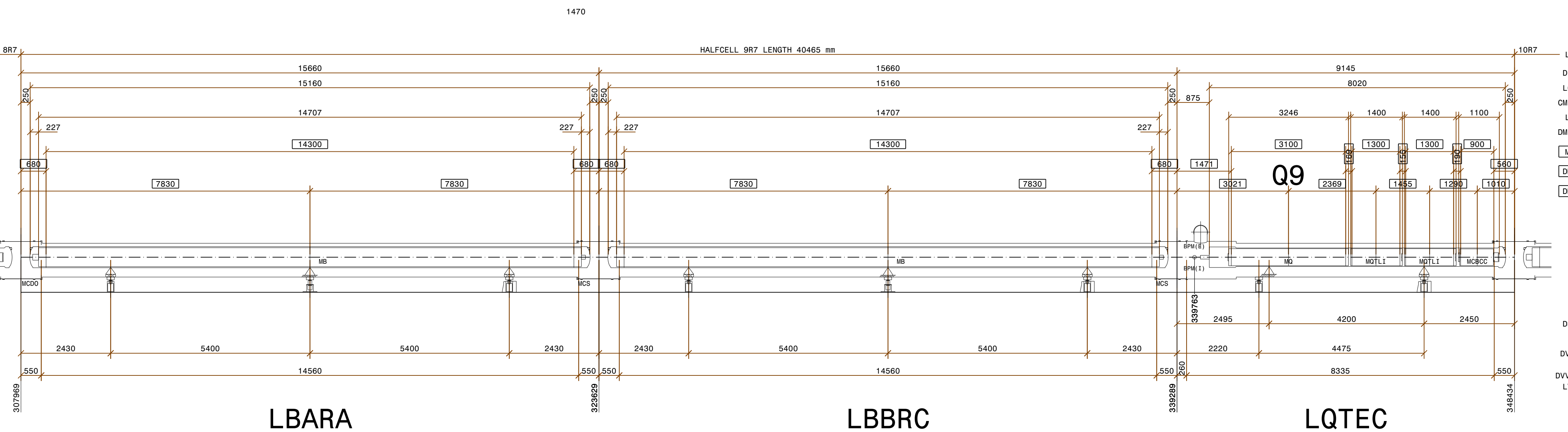
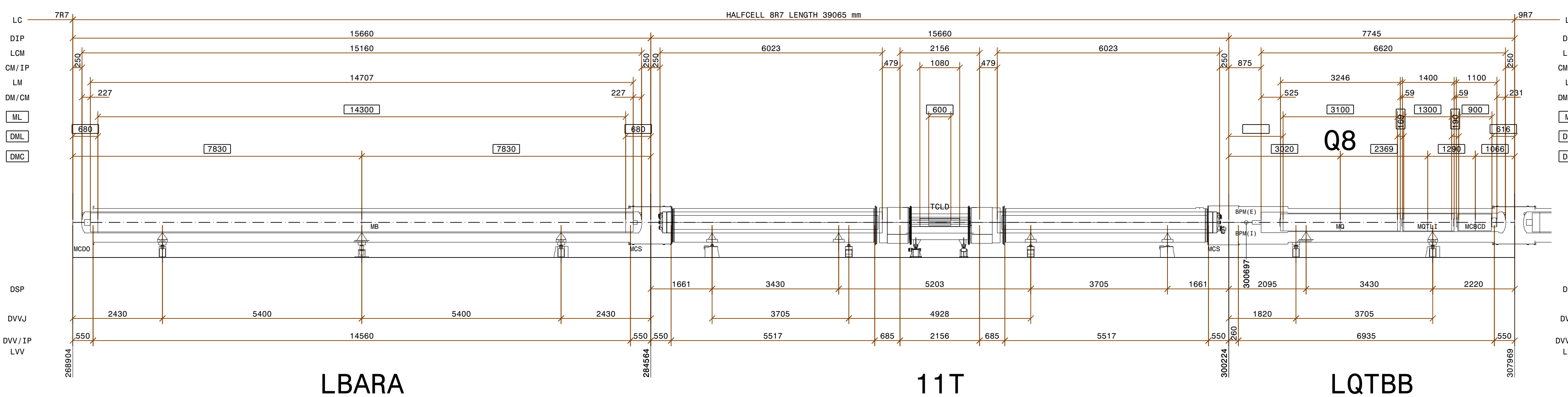


DISPLACEMENTS FROM WARM TO COLD ARE NOT YET COUNTED IN THE FINAL DIMENSIONS AT OPERATIONAL CONDITIONS

Slope -0.72% Tilt 1.17%



LENGTH OF CELL
 DISTANCE BETWEEN INTERCONNECT VIRTUAL PLANES
 LENGTH OF COLDMASS
 DISTANCE COLD MASS/INTERCONNECT VIRTUAL PLANE
 LENGTH OF MAGNET
 DISTANCE MAGNET/COLD MASS
 MAGNETIC LENGTH (OPERATING CONDITIONS)
 DISTANCE BETWEEN MAGNETIC LENGTHS, OR BETWEEN MAGNETIC LENGTHS AND INTERCONNECT VIRTUAL PLANES (OPERATING CONDITIONS)
 DISTANCE BETWEEN MAGNETIC CENTERLINES OR INTERCONNECT VIRTUAL PLANES (OPERATING CONDITIONS)



| | | | | | |
|-------|-------|--------------|-------|-------|---------------|
| LBARA | MB | 276.734 m/IP | LBARA | MB | 356.264 m/IP |
| LBBRB | MB | 292.394 m/IP | LBBRB | MB | 371.924 m/IP |
| LOTBB | BPM | 300.697 m/IP | LOTBB | BPM | 380.227 m/IP |
| LOTBB | BPM | 300.697 m/IP | LOTBB | BPM | 380.227 m/IP |
| LOTBB | MQ | 303.244 m/IP | LOTBB | MQ | 382.774 m/IP |
| LOTBB | MQTLI | 305.613 m/IP | LOTBB | MQTLI | 385.143 m/IP |
| LOTBB | MCBCD | 306.903 m/IP | LOTBB | MCBCD | 386.433 m/IP |
| LBARA | MB | 315.799 m/IP | LBARA | MB | 395.329 m/IP |
| LBBRC | MB | 331.459 m/IP | LBBRA | MB | 410.989 m/IP |
| LQTEC | BPM | 339.763 m/IP | LOTCH | BPM | 433.0087 m/IP |
| LQTEC | BPM | 339.763 m/IP | LOTCH | BPM | 433.0087 m/IP |
| LQTEC | MQ | 342.31 m/IP | LOTCH | MQ | 435.5557 m/IP |
| LQTEC | MQTLI | 344.879 m/IP | LOTCH | MQTLI | 437.9247 m/IP |
| LQTEC | MQTLI | 346.134 m/IP | LOTCH | MSCRA | 438.6997 m/IP |
| LQTEC | MCBCC | 347.424 m/IP | LOTCH | MS | 438.9367 m/IP |
| | | | LOTCH | MCBH | 439.5297 m/IP |

Beam 1 EXTERNAL
Beam 2 INTERNAL

OPTICS VERSION 1.3

| | | | |
|---|-------|-------------------------|------------------------|
| IR7 RIGHT, CELLS C8.R7 TO C11.R7 | SCALE | DESIGN | DMU LAYOUTS 02/12/2016 |
| IR7 RIGHT, CELLS C8.R7 TO C11.R7 | 1/75 | CONTROLLED | |
| IR7 DROIT, CELLULES C7.R7 TO C10.R7 | | RELEASED | |
| IR7 DROIT, CELLULES C7.R7 TO C10.R7 | | APPROVED | |
| | | LHCLSSH_01/LHCLSSH_0030 | |
| | | REPLACES | |
| NON VALABLE POUR EXECUTION NOT VALID FOR EXECUTION | | A | LHCLSSH_0030 |