

| HOLE TABLE |          |         |
|------------|----------|---------|
| HOLE       | XDIM     | YDIM    |
| A1         | -1725,49 | -280,42 |
| A2         | -1554,65 | -902,37 |
| A3         | 0,00     | 0,00    |

MORFEO Reference frame

A ( 1 : 22 )

LGSO reference frame

Rail axis for integration

3197,91 from the 1st lens

1059,00

$\phi 810,55$

Entrance pupil plane

3136,30 from the volume

Rail axis for integration

B ( 1 : 22 )

1040,50

1976,69

1738,14

110,00

134,39

200,00

93,00

59,08

80,65°

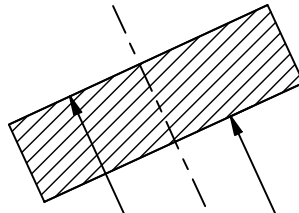
A1

A2

200,00

1976,69

1738,14



B

1457,98

1209,98

200,00

A3

644,82

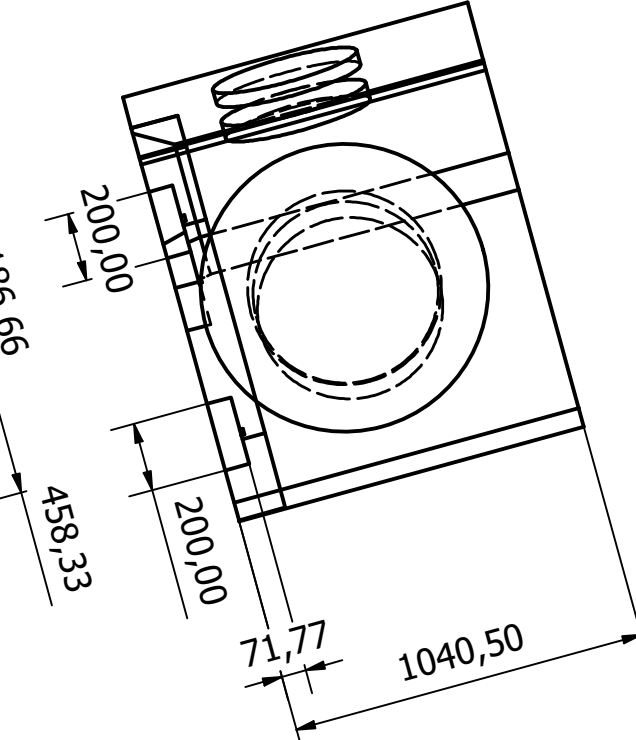
186,66

200,00



200,00

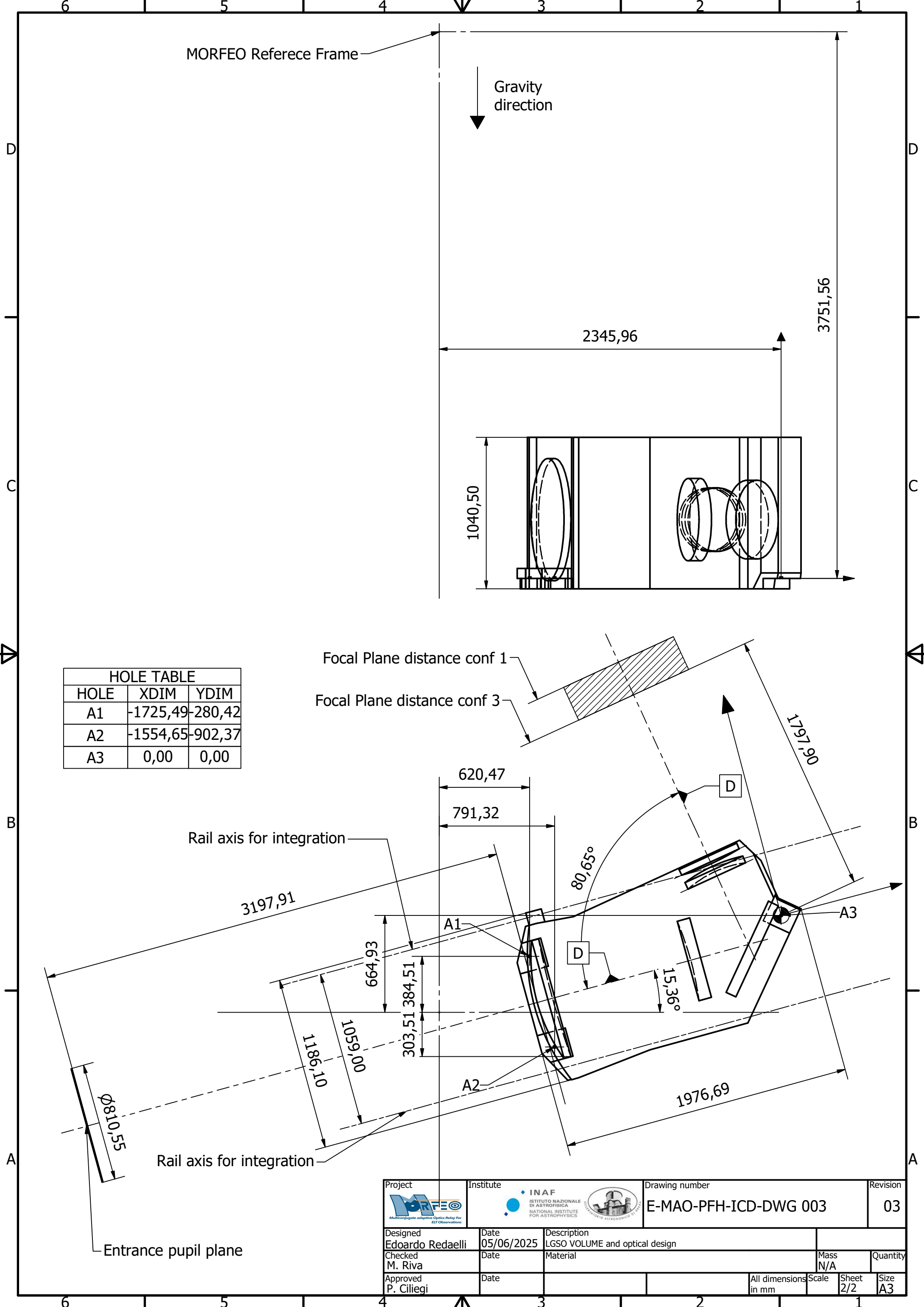
71,77

1040,50



On the external structure of the LGSO must be located at least 5 SMRs, referenced to the optical parameters, to be able to align the module

|                                                                                                                                                               |                                                                                                                                                                                    |                                               |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------|
| Project<br><br>Multicomponent adaptive Optics Relay For ELT Observations | Institute<br> INAF<br>ISTITUTO NAZIONALE DI ASTRONOMIA<br>NATIONAL INSTITUTE FOR ASTROPHYSICS | Drawing number<br>E-MAO-PFH-ICD-DWG 003       | Revision<br>03 |
| Designed<br>Edoardo Redaelli                                                                                                                                  | Date<br>05/06/2025                                                                                                                                                                 | Description<br>LGSO VOLUME and optical design |                |
| Checked<br>M. Riva                                                                                                                                            | Date                                                                                                                                                                               | Material                                      | Mass<br>N/A    |
| Approved<br>P. Ciliegi                                                                                                                                        | Date                                                                                                                                                                               |                                               | Quantity       |
|                                                                                                                                                               |                                                                                                                                                                                    | All dimensions in mm                          | Scale<br>1     |
|                                                                                                                                                               |                                                                                                                                                                                    |                                               | Sheet<br>1/2   |
|                                                                                                                                                               |                                                                                                                                                                                    |                                               | Size<br>A3     |



MORFEO Referece Frame

Gravity direction

2345,96

3751,56

1040,50

| HOLE TABLE |          |         |
|------------|----------|---------|
| HOLE       | XDIM     | YDIM    |
| A1         | -1725,49 | -280,42 |
| A2         | -1554,65 | -902,37 |
| A3         | 0,00     | 0,00    |

Focal Plane distance conf 1

Focal Plane distance conf 3

Rail axis for integration

3197,91

620,47

791,32

1797,60

80,65°

A3

A1

15,36°



A2

1976,69

∅810,55

Rail axis for integration

Entrance pupil plane

|                                                                                                 |                                                                                                    |                                                |                       |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------|
| Project<br> | Institute<br> | Drawing number<br><b>E-MAO-PFH-ICD-DWG 003</b> | Revision<br><b>03</b> |
| Designed<br><b>Edoardo Redaelli</b>                                                             | Date<br><b>05/06/2025</b>                                                                          | Description<br>LGSO VOLUME and optical design  |                       |
| Checked<br><b>M. Riva</b>                                                                       | Date                                                                                               | Material                                       | Mass<br>N/A           |
| Approved<br><b>P. Ciliegi</b>                                                                   | Date                                                                                               | All dimensions<br>in mm                        | Scale<br>Sheet<br>2/2 |
|                                                                                                 |                                                                                                    |                                                | Size<br>A3            |