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Mechanical standards for design Beamline

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Owners:	Paweł Nowak pawel.jacek.nowak@uj.edu.pl
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Author:

Paweł Nowak

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1. Description of the subject matter

This document describes specific assumptions for design and construction of the experimental beamline and front end in sector BL-ID03, not included in mechanical appendix MECH1.

All descriptions refer to the following DWG files:

- “Appendix MECH4 - Dimensions of the ID03 Beamline area.dwg”,

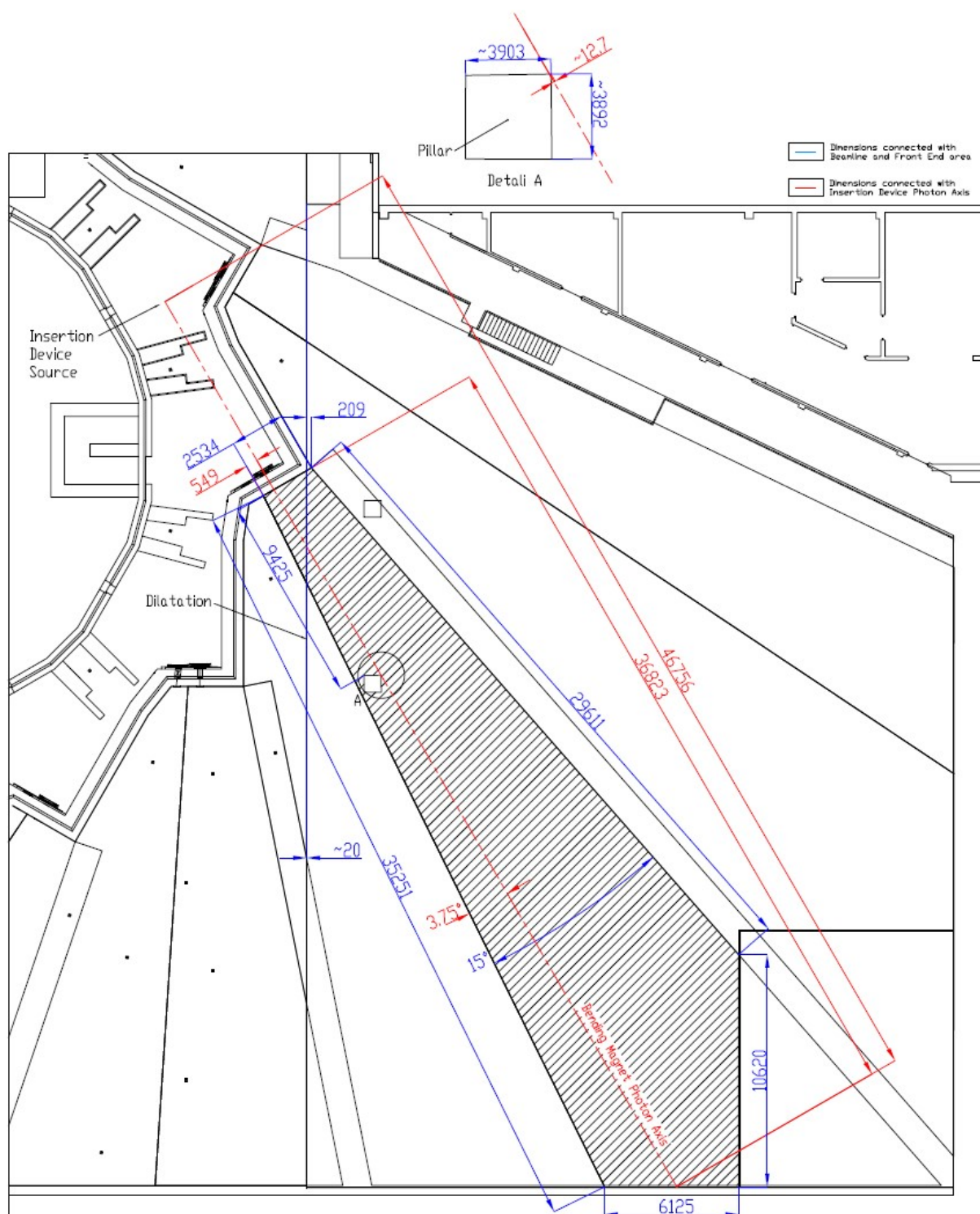
2. Description of the areas respect to the machine supports and infrastructure

2.1. Beamline area description


Experimental hall – the area is available for the users during the synchrotron operation. The components of the beamline equipment used in the transmission of the photon beam to the end stations including the end stations are to be situated here. The experimental beamline is situated at the extension of straight section 03ID of the storage ring and the entire research beamline infrastructure from the ratchet wall of the storage ring to the remotest point of beamline may be maximum 46750 mm in length.

Detailed dimensions of the experimental beamline are given in the drawing number 1.

Beamline and Front End areas are marked in the drawing ANSI31 rectangle. Dimensions in red colour are connected with Insertion Device Photon Axis, dimensions in blue colour are describing beamline and front end area.



Drawing 1. Projection of the storage ring and experimental hall with the characteristic dimensions

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For more details of Drawing 1, please refer to a .dwg file “Appendix MECH4 - Dimensions of the ID03 Beamline area.dwg”

IMPORTANT! If there will be necessary to put instruments outside of dedicated area, Contractor has to send, as soon as possible, a 3D STEP (and/or IGES) model and a DWG drawing in order to check for potential collision!