Update on Purity Monitors

Jianming Bian, Wenjie Wu

CALCI Consortium Meeting

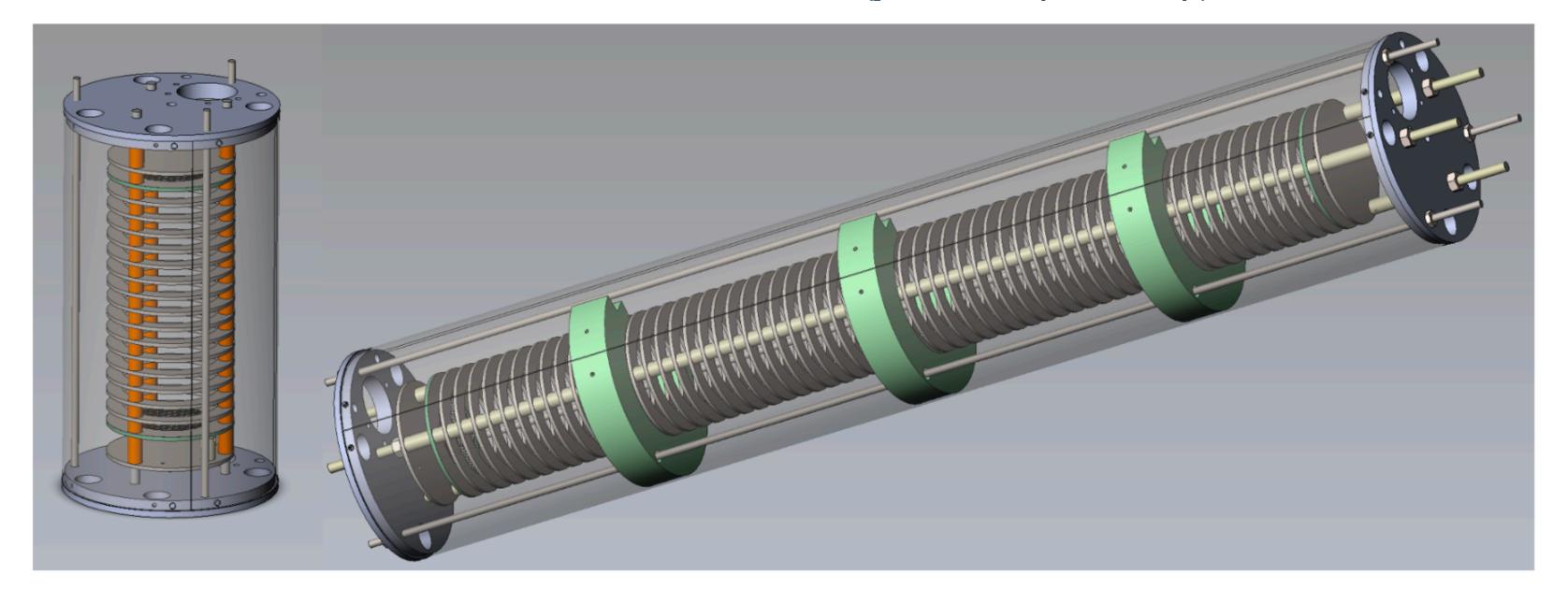
November 16, 2023



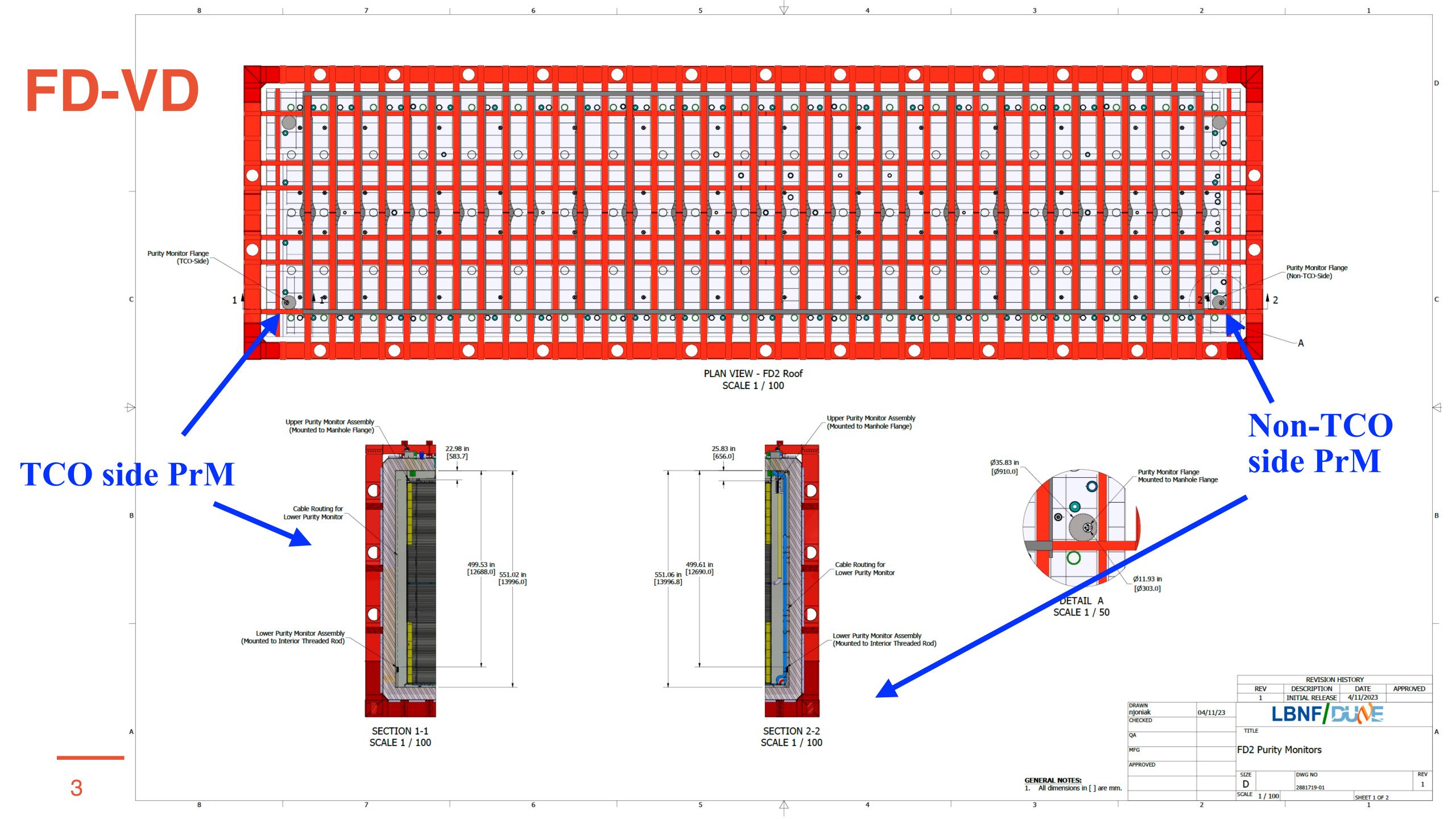


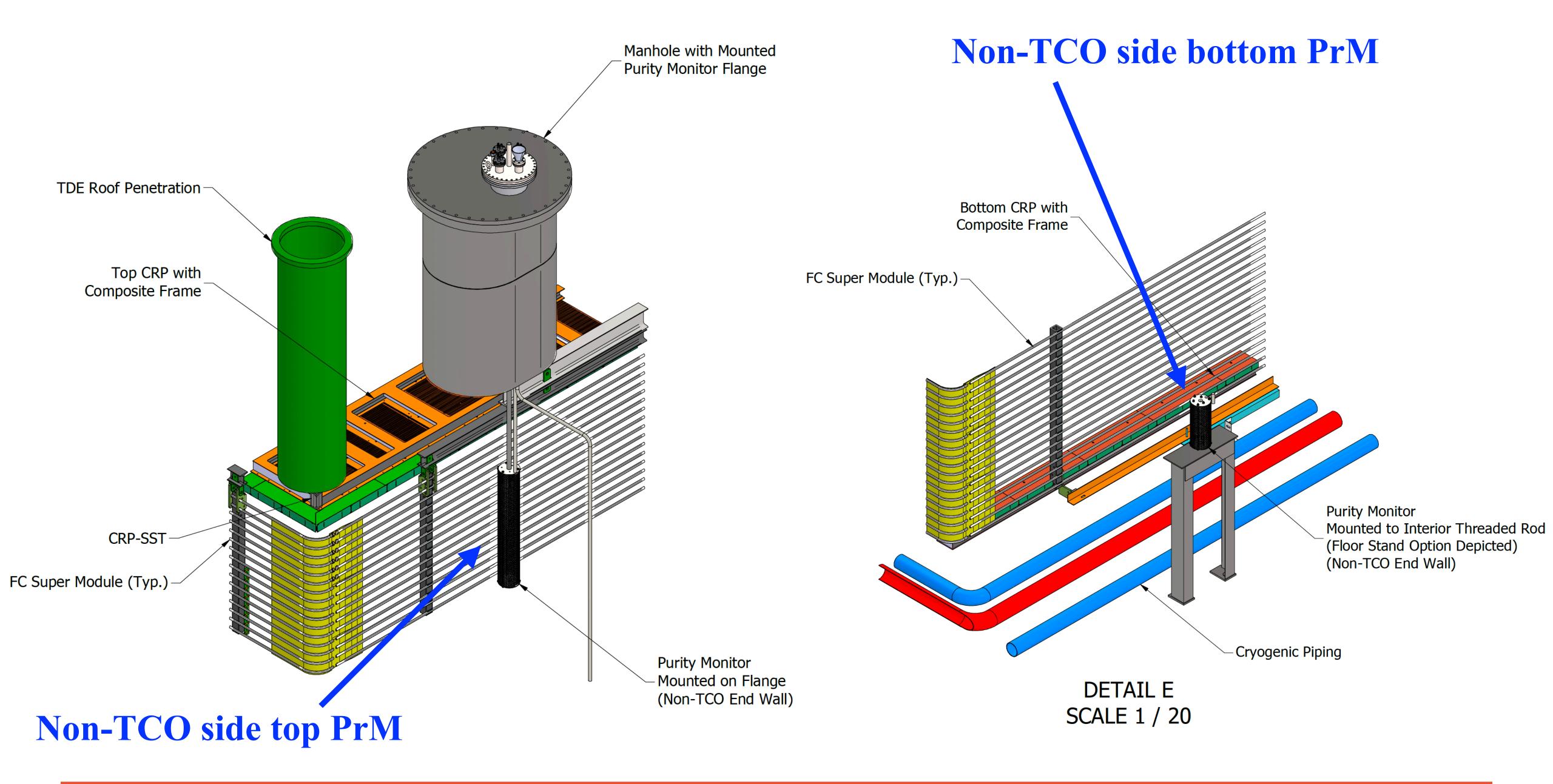
Purity monitors for far detectors

- Will build DUNE purity monitors in two different lengths: The standard purity monitor will have a length of 25 cm with a drift distance of 16 cm, and the long purity monitor will have a length of 75 cm with a drift distance of 64 cm.
- Build 4 PrMs in each FD cryostat, 2 standard and 2 long.
- Build 1 standard PrM within the recirculation system (inline), after LAr filter.

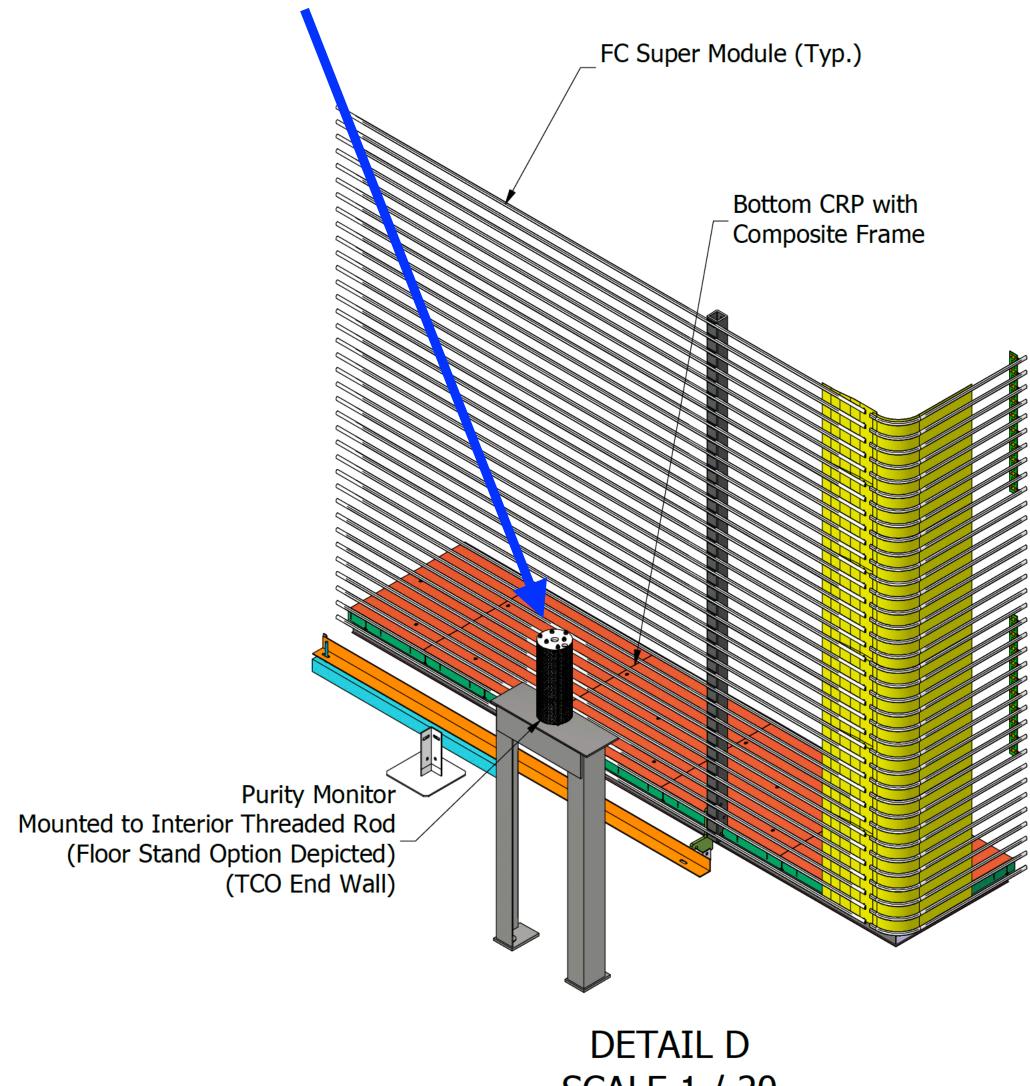




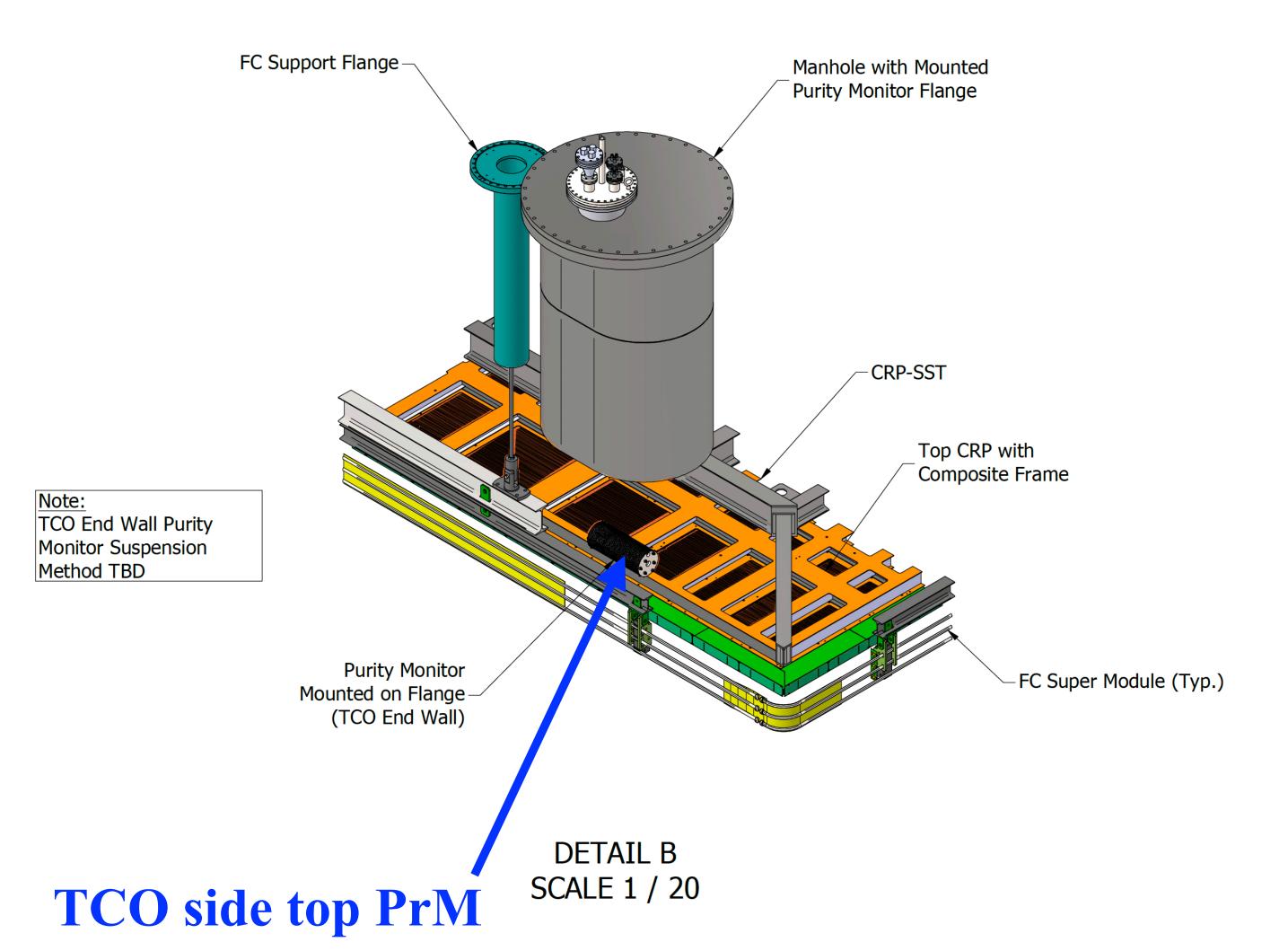




TCO side bottom PrM



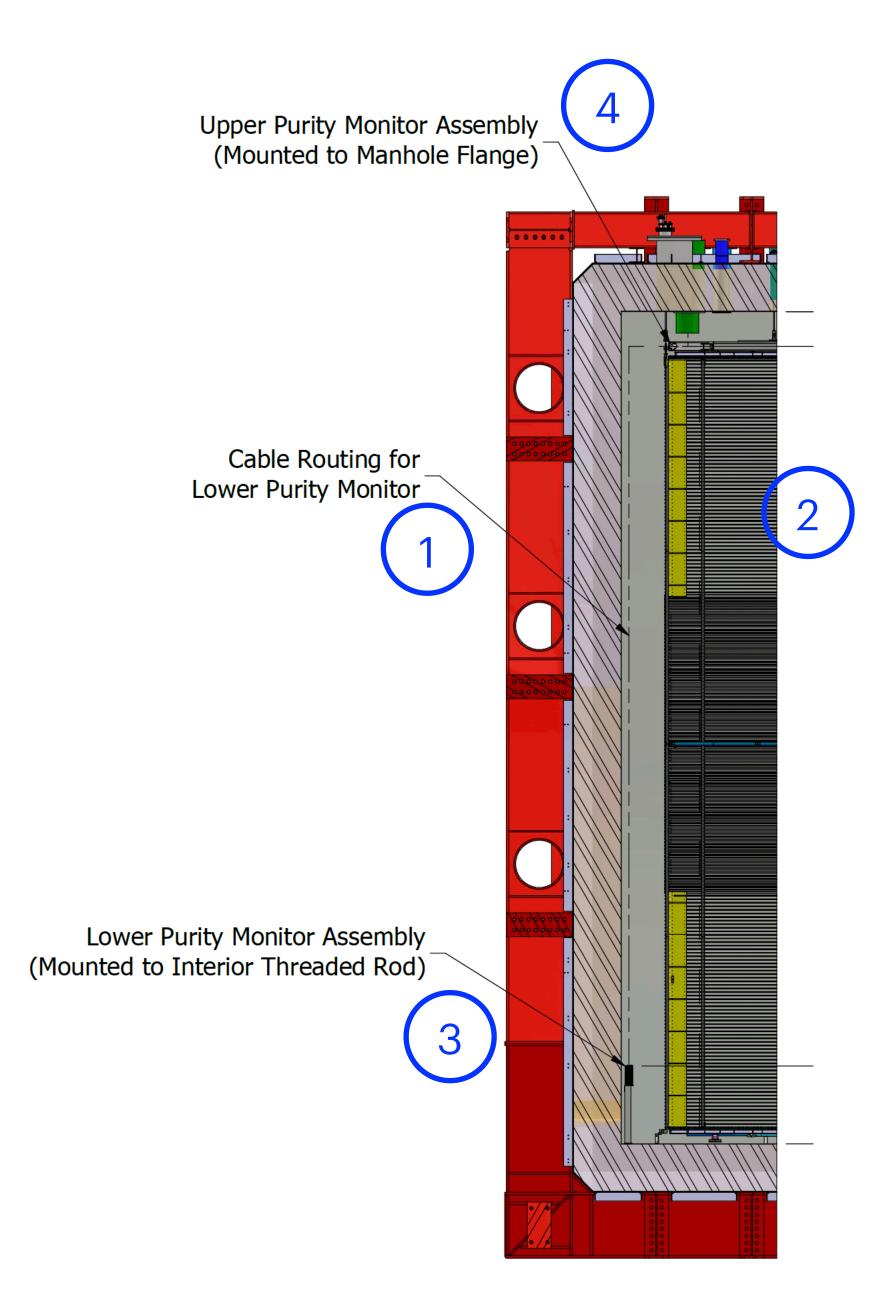
SCALE 1 / 20



Installation plan

TCO side PrM Assembly

- Route the fibers and cables for the bottom PrM
- 2. TPC installation
- Install bottom PrM, connect fibers and cables to the bottom PrM
- Install top PrM







Thanks



