Sector 20 Shielding Wall

ROD

June 3rd, 2004
Field Activities: 20 Man Hours

- Drill and install 6 wall monuments
- 2 TC2002 set-ups to define the datum:
  - All newly installed monuments
  - 5 jack-points
  - 2 quadrupoles
  - 3 brass plates
- 2 reflectorless total station set-ups using the newly installed monuments to record walls and other features
- Drill and install 7 more wall monuments and 3 floor monuments for Summer

Office Activities: Estimated 15 Man Hours

- Adjust the 2 TC2002 set-ups and use the jack-points to define the accelerator line. Use quad Q901 as origin on this line
- Choose gravity vector at Q901 as y axis. The z axis is in the vertical plane of the accelerator at Q901 and perpendicular to the y axis in the direction of the accelerator. The x axis completes the triad to create a right-handed coordinate system. Derive coordinates for the 6 new 3D monuments and use these values for the 2 set-ups of the reflectorless total station
- Output all points shot by the reflectorless total station
Q901 Origin of Sector 20 Network
Setting Fixture to JackPoint 21-1
Fixture Set=> Point JP211ARM
Target on JP208ARM
Brass Plate Sector 21
New 3D Monumnetation
TC2002 Network - Accelerator Plane View

Linac Axis (meters)

Jack Points  Brass Plates  Q901  Q801  New 3D Monuments
152 Reflectorless Total Station Points