

- Current ESP's on units 2, 3, and 4 will be retrofitted with PJFF technology.



- Units 1, 5, and 6 was retrofitted during the RTS starting in 2005.
- Units 2, 3, and 4 will be retrofitted starting with unit 3 in Feb 2014.

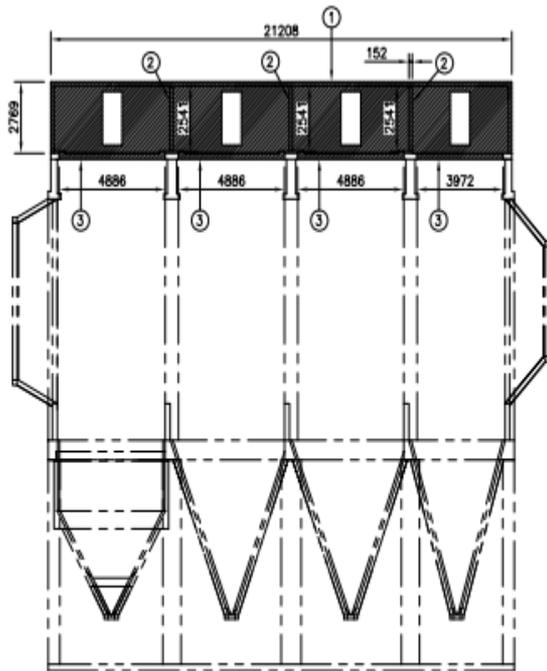
Grootvlei units 2, 3, and 4 ESP to FFP retrofit

- Existing casing will be re-used with minor modifications.
- Casing is built out of concrete and the top section will be taken off and will be replaced with a new clean gas chamber.



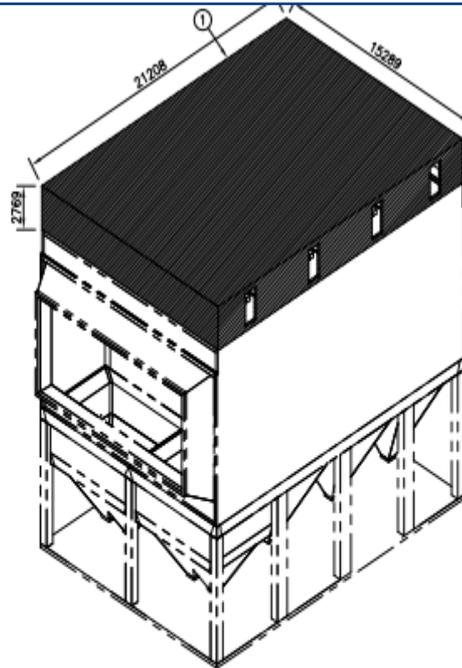
Grootvlei units 2, 3, and 4 ESP to FFP retrofit

- Concrete casing will be removed with about 2769mm of height before new clean gas chamber is installed.



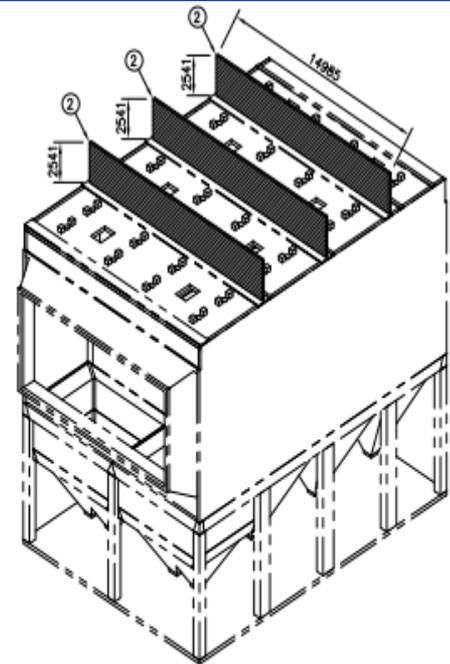
ELEVATION OF EXISTING CONCRETE
SCALE1 : 150

- HATCHED REGIONS INDICATE CONCRETE TO BE REMOVED
- (1) PENTHOUSE
- (2) DIVIDING WALLS
- (3) CONCRETE FLOOR



(1) PENTHOUSE
SCALE1 : 200

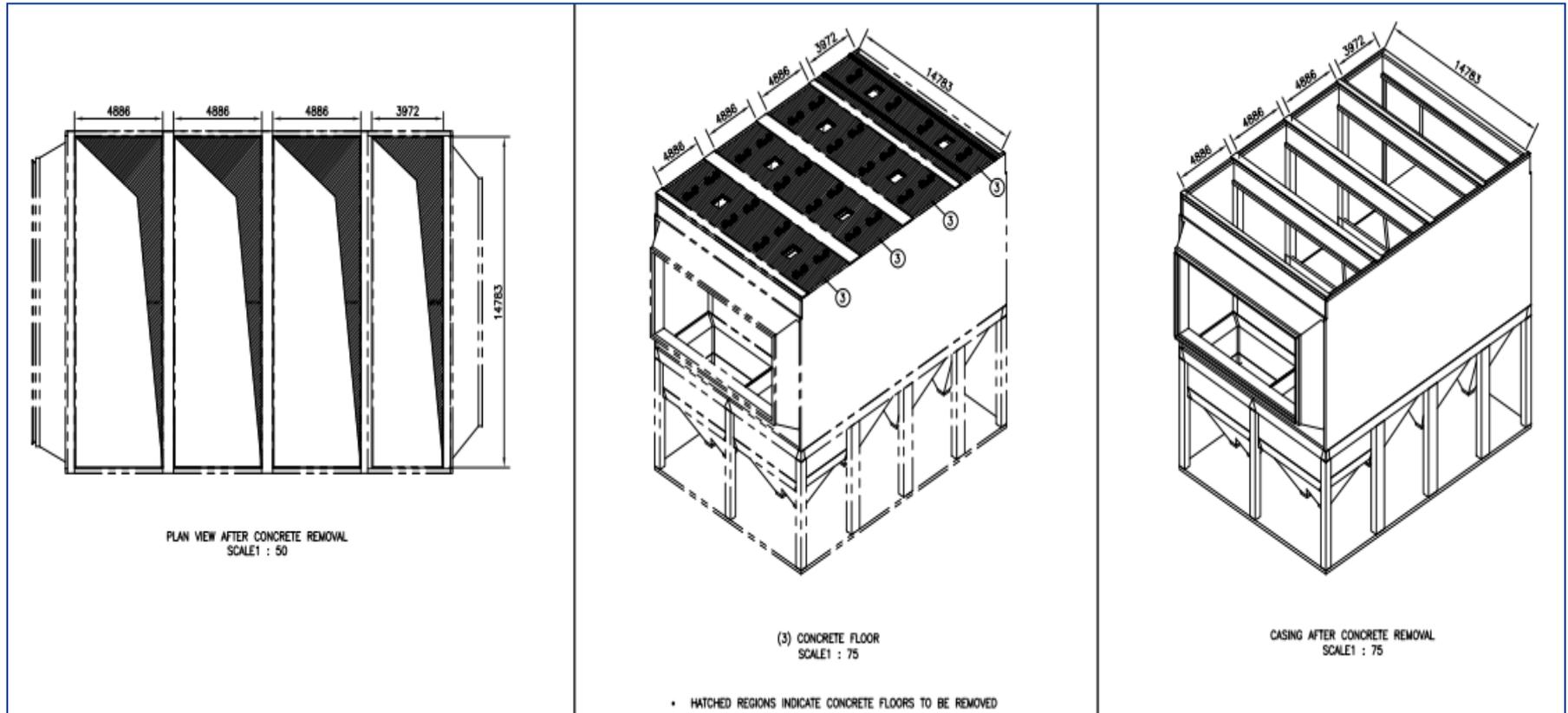
- HATCHED REGIONS INDICATE CONCRETE PENTHOUSE TO BE REMOVED



(2) DIVIDING WALLS
SCALE1 : 75

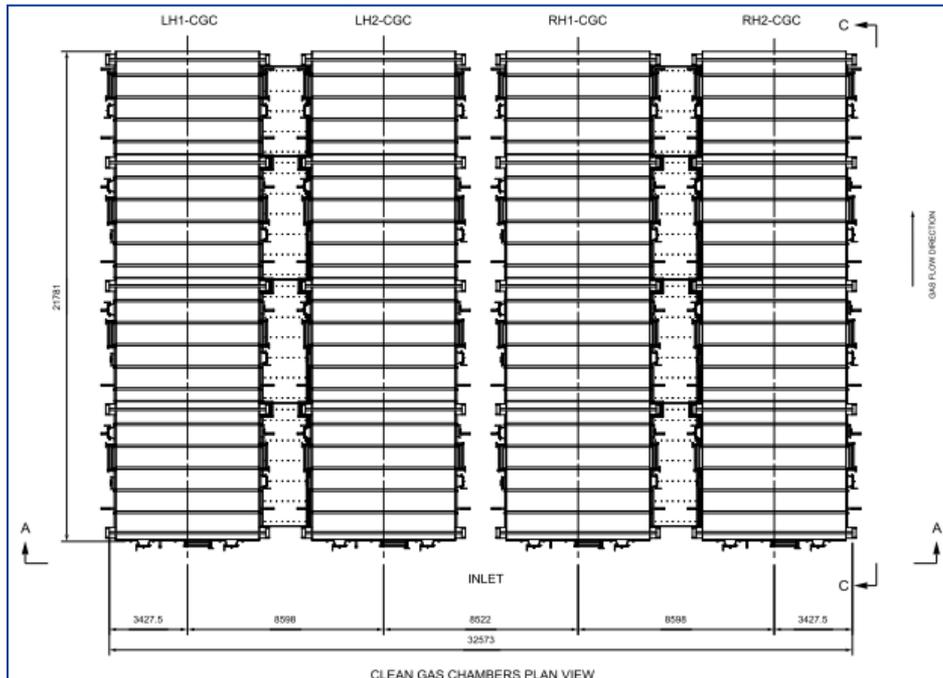
- HATCHED REGIONS INDICATE CONCRETE WALLS TO BE REMOVED

- Concrete casing that will be removed.

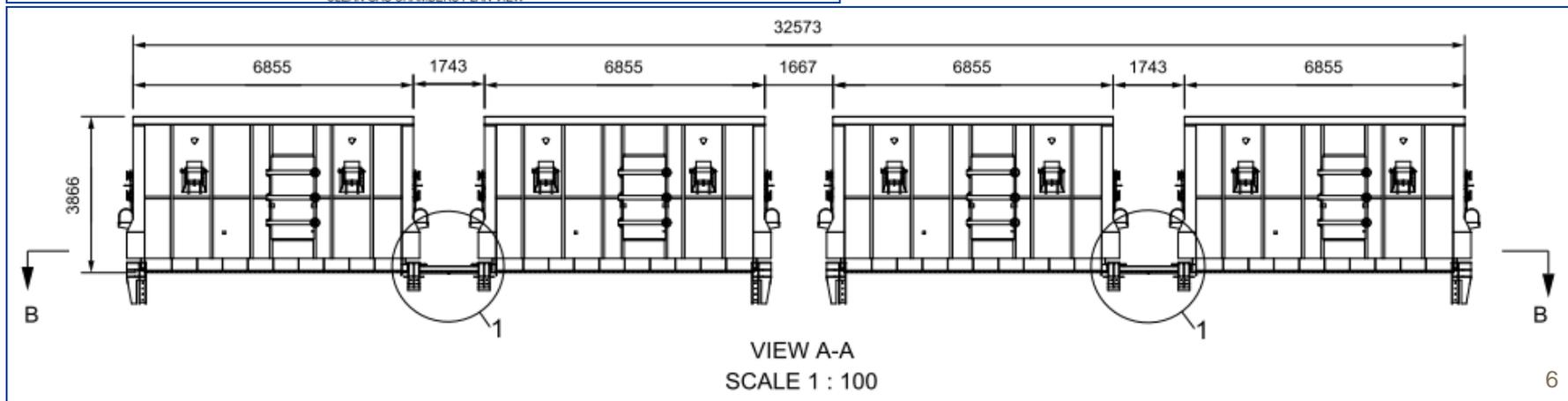


Grootvlei units 2, 3, and 4 ESP to FFP retrofit

- New clean gas chamber that will be installed.

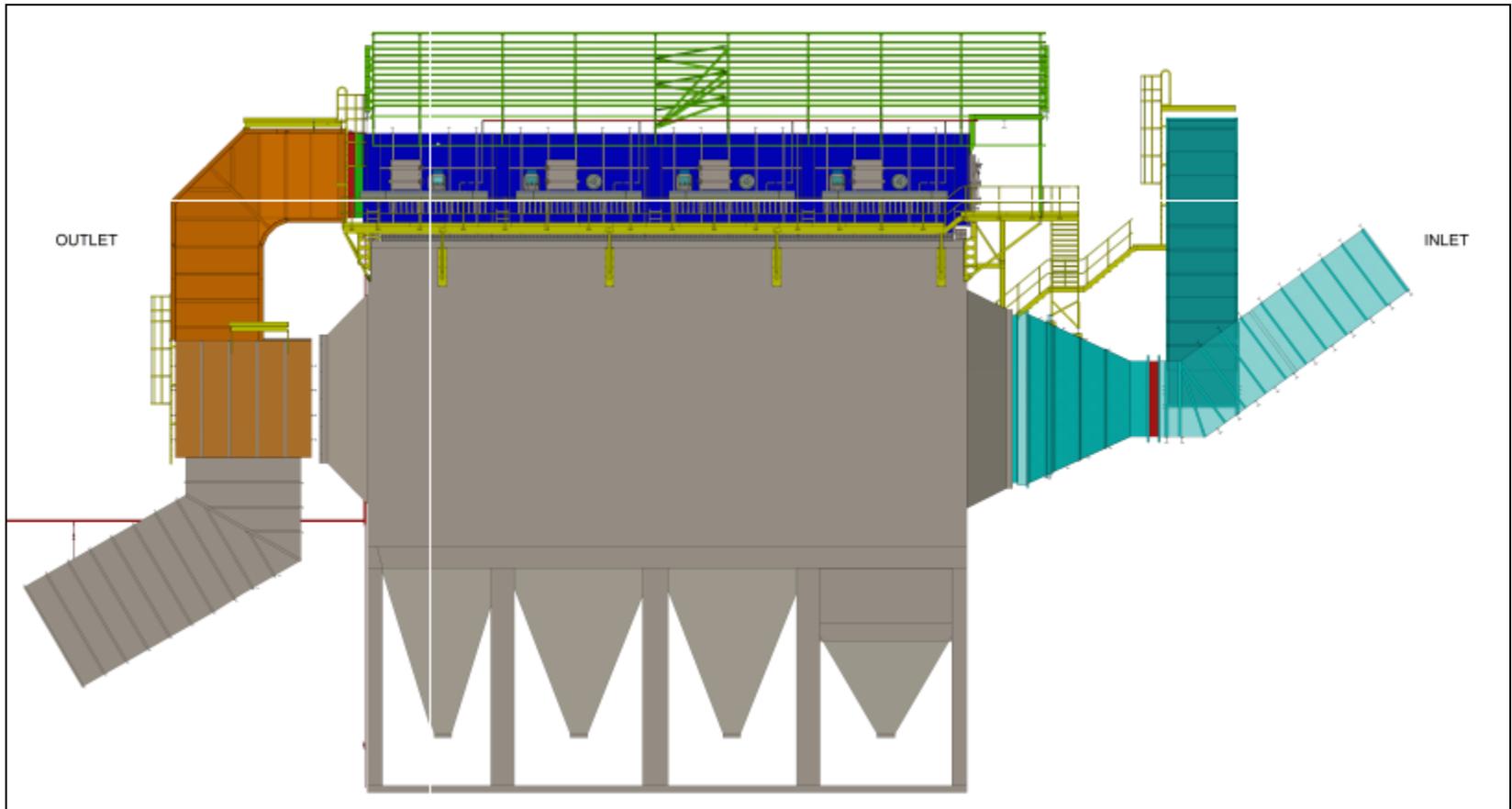


New height to be added in clean gas chamber on top of concrete casing: 3866mm

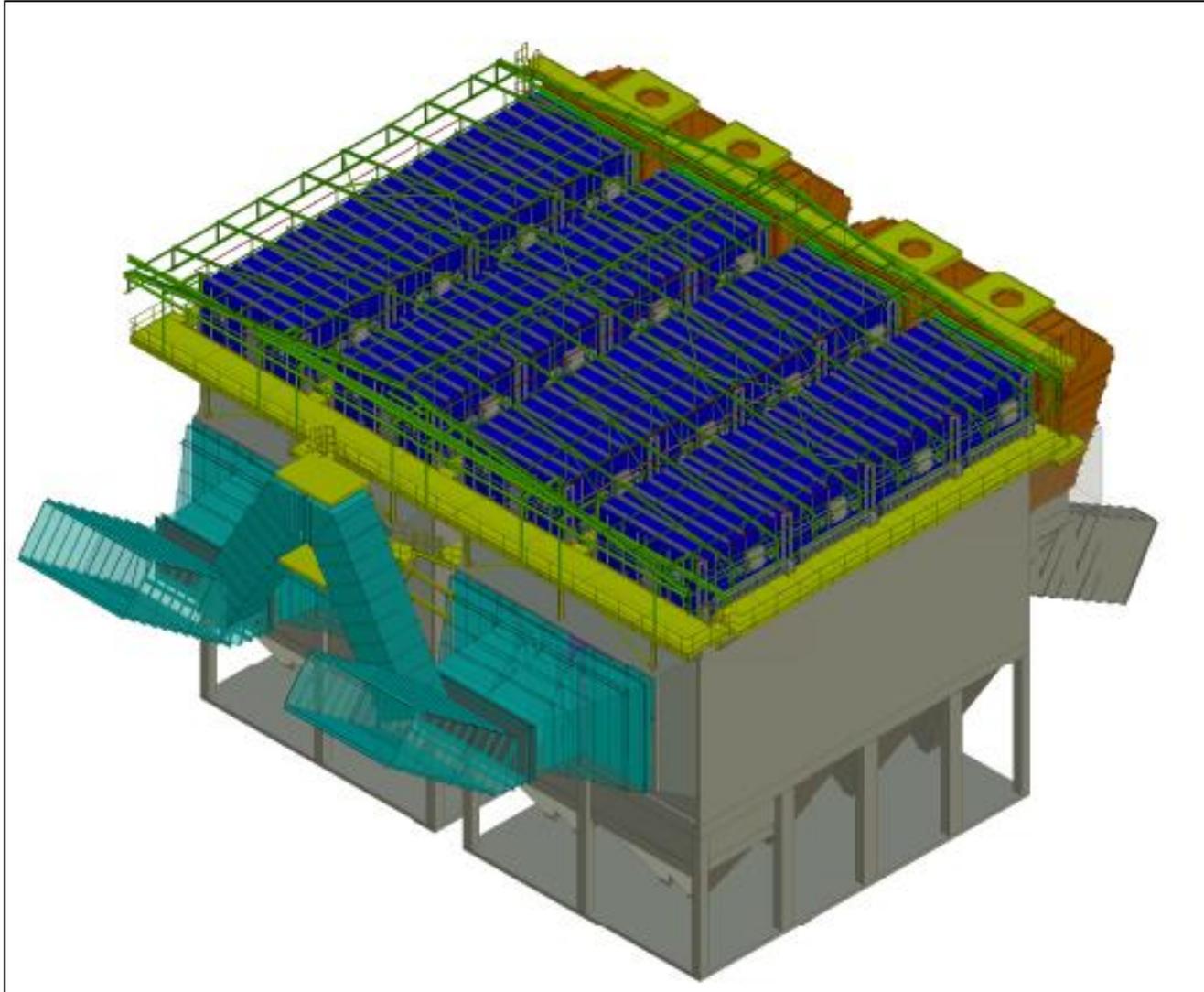


Grootvlei units 2, 3, and 4 ESP to FFP retrofit

- All colour parts are new ductings and structures.
- All grey areas are existing structures.

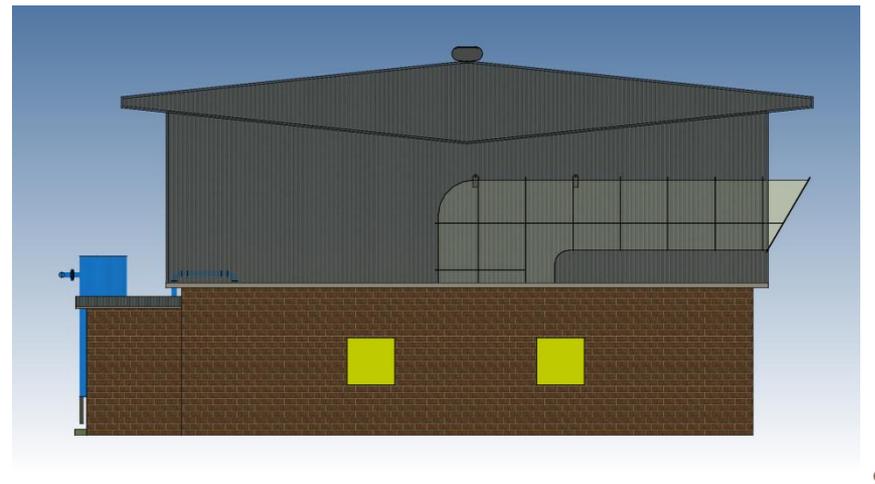
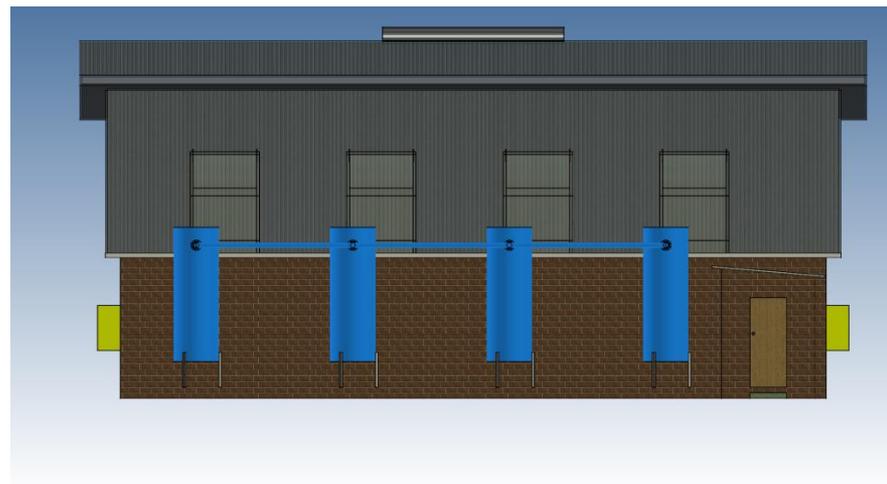
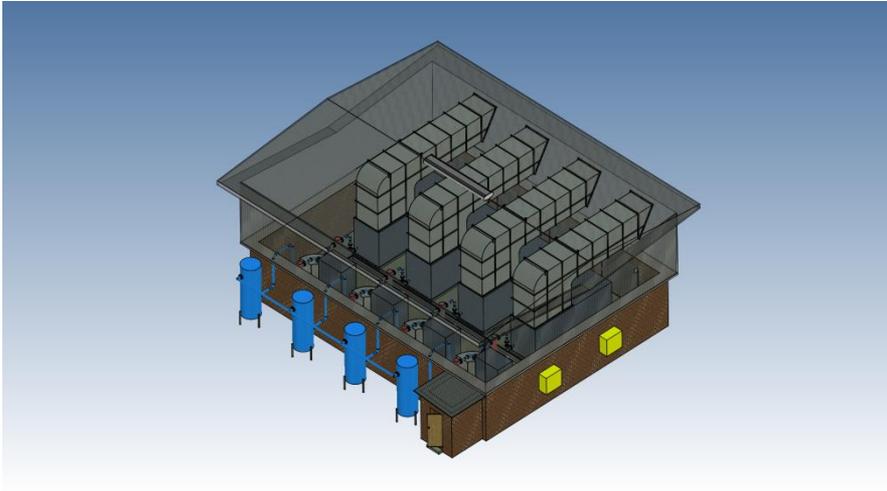


- Isometric view of plant



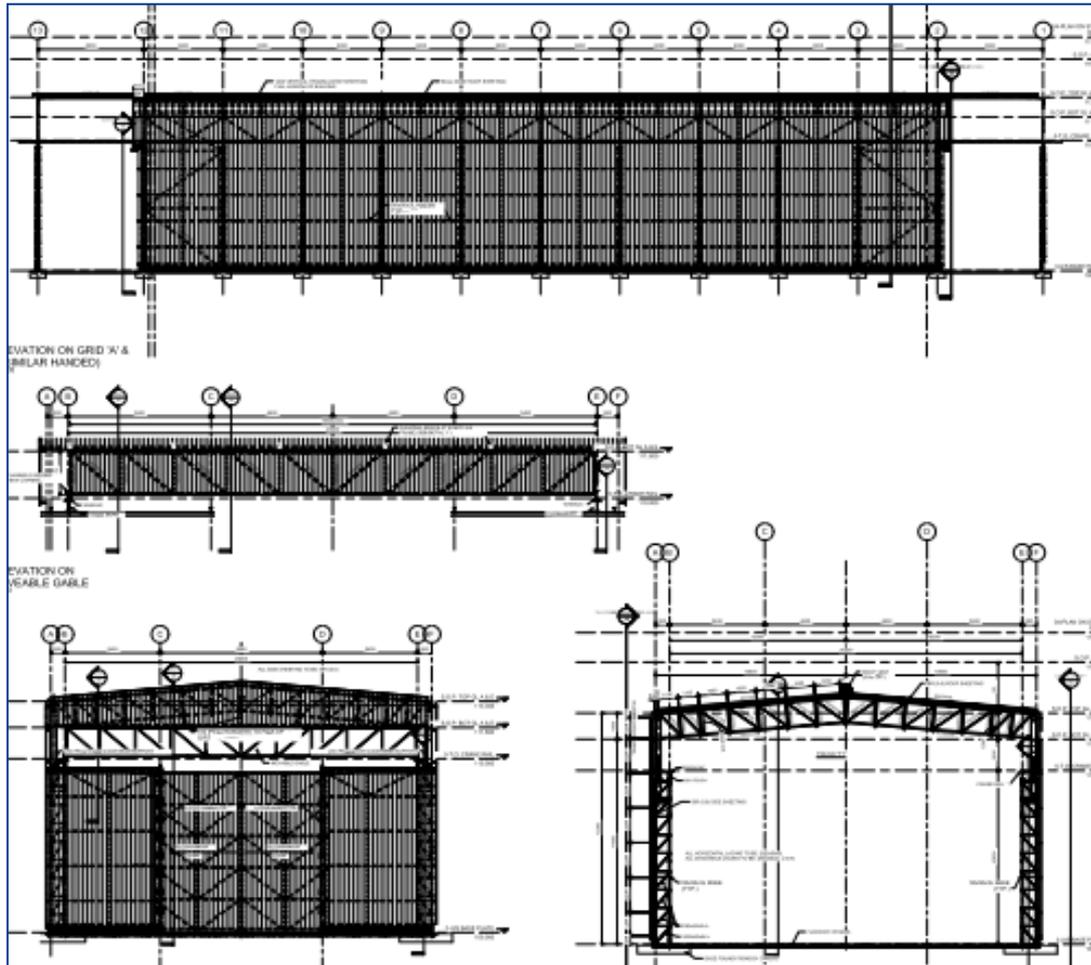
Grootvlei units 2, 3, and 4 ESP to FFP retrofit

- New compressor house behind unit 3 that will host four compressors with it's air driers.



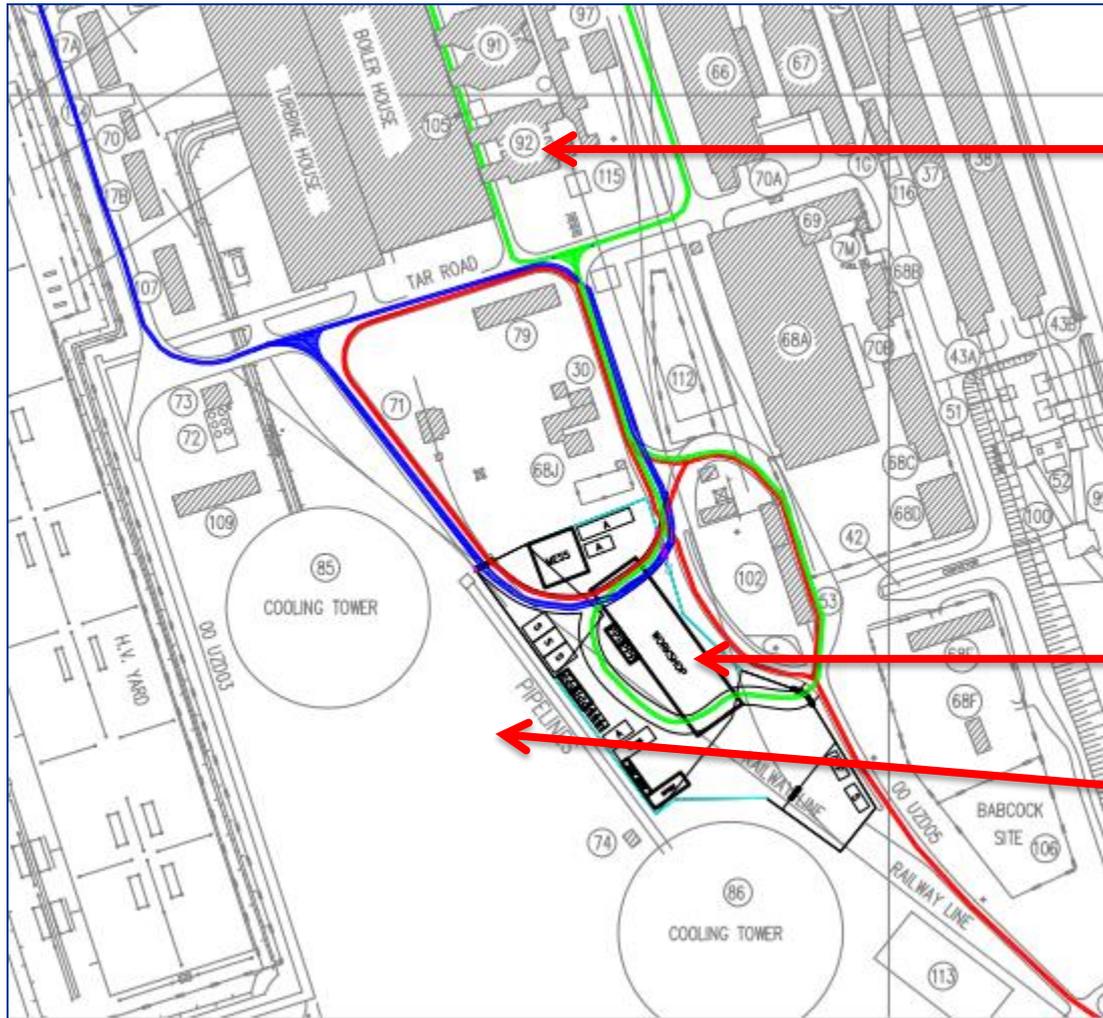
Grootvlei units 2, 3, and 4 ESP to FFP retrofit

- New Site Workshop
 - 76m long x 20m wide x 10m high



Grootvlei units 2, 3, and 4 ESP to FFP retrofit

- New Site Workshop location.



Unit 6

Will have temporary roads, but will get permanent roads after construction

New Workshop

Actom site office with ablation facilities