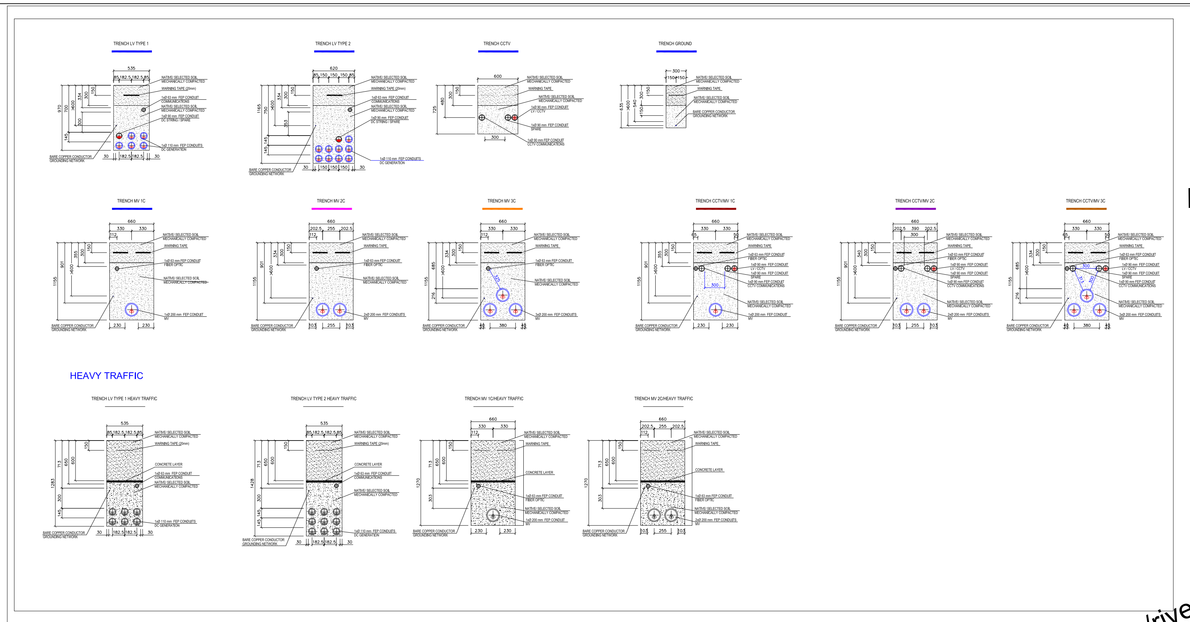


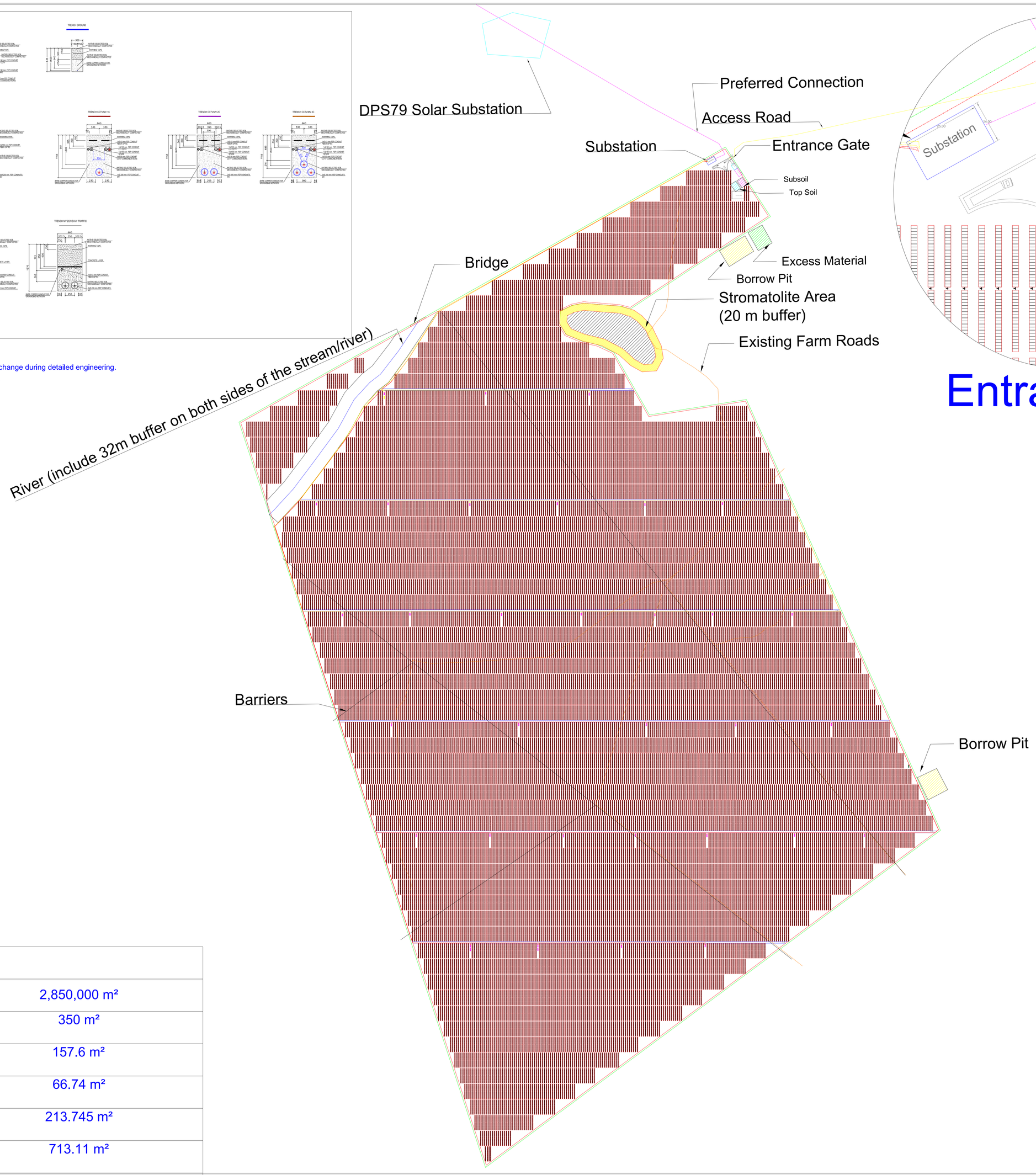
TRENCH DETAILS (Illustrative Purpose)

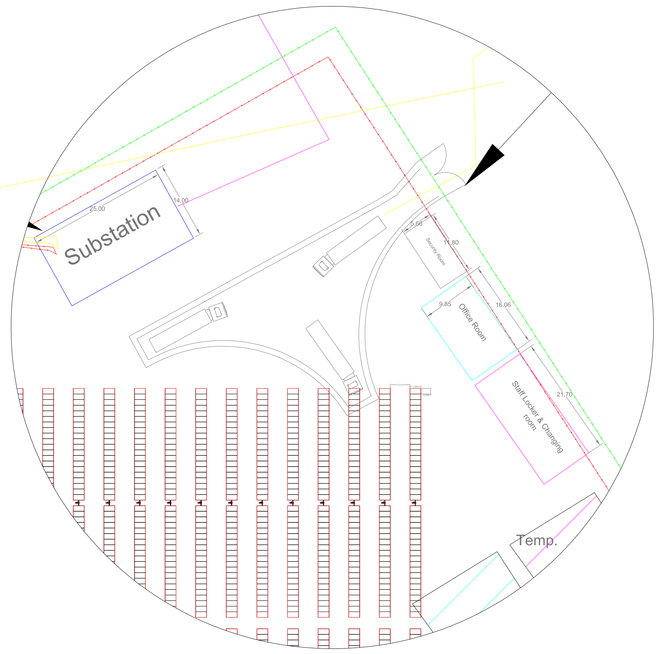
Note: The trench details are for only for illustrative purpose. Actual parameters may change during detailed engineering.

Note: The MV cable route is subject to change if needed during detailed engineering.

Note: Total Earth Works (preliminary rough estimation) = 40,000 m3

This may change during detailed engineering as the project proceeds.





Entrance Area

Foot Print

Site	2,850,000 m²
Substation	350 m²
Office Room	157.6 m²
Security Room	66.74 m²
Staff changing and locker room	213.745 m²
Temp. laydown area	713.11 m²

General Notes

SCENARIO "A" (With 250 Wp module)

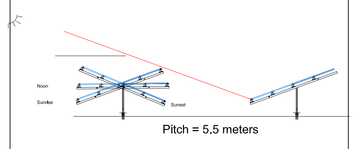
* 110,08 MWp - 95,2 MW AC
* 440,320 Modules of 250 Wp
* 34 Inverter Transformer Stations of 2,8 MWAC (1,4 MW x 2)
* 11,008 PV Structures of 40 * 1 Type

SCENARIO "B" (With 350 Wp module)

* 154,112 MWp - 100 MW AC
* 440,320 Modules of 350 Wp
* 35 Inverter Transformer Stations of 2,8 MW (1,4 MW x 2)
* 1 Inverter Transformer Station of 2 MW AC (1MW x2)
* 11,008 PV Structures of 40 * 1 Portrait Type

Legends

* PV Structures of 40 * 1 Portrait Type
* Scenario "A" Inverter Stations
* 2,8 MW AC (1,4MW x 2)
* Additional Inverter Station Required for Scenario "B"
* 2,8 MW AC (1,4MW x 2)
* Additional Inverter Station Required for Scenario "B"
* 2 MW AC (1MW x 2)
* Site Boundary
* Construction Limiting Boundary
* Internal Roads 5 meters wide
* 132 KV Line
* 132 KV Line
* Perimeter Roads 5 meters wide
* Existing Farm Roads
* Farm Barriers
* Security Room (11,8 x 5,6 meters)
* Temp Laydown Area (35,45 x 20,12 meters)
* 132 KV Substation (25 x 14 meters)
* Office Room (16,06 x 9,85 meters)
* Staff Locker and Changing Room (21,75 x 9,85 meters)
* Borrow Pits
* Excess Material
* Subsoil
* Top Soil
* MV Cable route (subject to revise during detailed engineering)
* MV Cable route (subject to revise during detailed engineering)
* Total length of internal roads = ~15 km



No.	Revision/Issue	Date

Firm Name and Address

Subsolar Energy

2nd Floor, West Tower

Maude Street, Nelson Mandela Square

Sandton 2196, South Africa

Project Name and Address

Gama Solar Power Plant

Project

Sheet

Date 06.06.2016

Scale