

| Road (INTERNAL) | Value | units |
|---------------------|-------------------|-------------|
| total length | 29,836.00 | m |
| width | 4 | m |
| depth (assumed) | 0.2 | m |
| Total Area | 119,344.00 | sq.m |
| Total Volume | 23,868.80 | cu.m |

| Road Cut and Fill | Value | units |
|--|-----------------|-------------|
| total length | 29,836.00 | m |
| assumed cut 20% of the total length of road | 5,967.20 | cu.m |
| assumed fill 10% of the total length of road | 2,983.60 | cu.m |
| Total Area to be cut | 2,983.60 | sq.m |

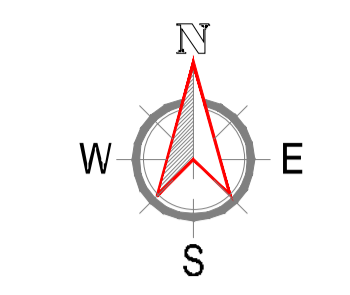
| Cable Trench | Value | units |
|---------------------|------------------|-------------|
| Total Legth | 30,000.00 | m |
| width (average) | 1.3 | m |
| depth (average) | 1 | m |
| Total Area | 30,000.00 | sq.m |
| Total Volume | 39,000.00 | cu.m |

| SI.No | HARDSTANDS | VOLUME(CU.M) | AREA (SQ.M) |
|-------|--------------------------------------|-----------------|------------------|
| 1 | SINGLE INV | 60 | 200 |
| 2 | TWIN INV | 91.8 | 306 |
| 3 | FIRE FIGHTING TRUCK W/ WATER TANK | 168 | 560 |
| 4 | FIRE FIGHTING TRUCK SWITCHYARD | 135 | 450 |
| | | 4,041.32 | 10,500.00 |
| 1 | SINGLE INV STN QTY (NOS) | 0 | 0 |
| 2 | TWIN INV STN QTY (NOS) | 3,763.80 | 12,546.00 |
| 3 | FIRE FIGHTING TRUCK W/TANK QTY (NOS) | 2,520.00 | 8,400.00 |
| 4 | FIRE FIGHTING TRUCK QTY (NOS) | 1,890.00 | 6,300.00 |
| | TOTAL | 6,418.80 | 37,746.00 |

| SI.No | Description | Volume(m³) | Area (m²) |
|-------|---|------------------|-------------------|
| 1 | Earthworks to create the access through the site (INTERNAL) | 23,868.80 | 119,344.00 |
| 2 | Hardstands for the inverters, and Hardstand for Fire Fighting truck | 6,418.80 | 30,490.92 |
| 3 | Mounting posts for solar panels | 4800 | 1600 |
| 4 | Contingency (20%) | 7,017.52 | 30,286.98 |
| | Total | 42,105.12 | 181,721.90 |

| PV SYSTEM DETAILS | |
|----------------------------|-------------------------------|
| SITE COORDINATES | Lat: -44.340°S, Lon:170.201°E |
| MODULE TYPE | TRINA TRACKER |
| MODULE POWER (Wp) | 625 |
| MODULE QTY. | 720,048 |
| MOUNTING STRUCTURE TYPE | TRACKER |
| TRACKING LIMIT | (+/-)55° |
| PITCH | 6.2 m |
| TABLE ARRANGEMENT | 1 x 28 |
| No. OF MODULE PER STRING | 28 |
| NOMINAL POWER (kWp) | 450030 |
| INVERTER | SMA |
| INV. Nom. POWER (kWac) | 4200 |
| INVERTER QTY. | 82 |
| AC POWER (kWac) | 344400 |
| MODULE AREA | 197 ha |

PRELIMINARY DESIGN



GENERAL NOTES

1. ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE SPECIFIED.

LEGEND

- SITE BOUNDARY
- TRANSMISSION LINE
- SECURITY FENCE
- STOCK FENCE
- HARDSTAND WITH WATER TANK (FIRE FIGHTING)
- PV MODULE (625Wp) (1 x 28 MODULE TABLE)
- SECURITY FENCE GATE
- FARM STOCK FENCE GATE
- TWIN INVERTER STATION
- HARDSTAND/LAYBY AREA
- PLANT ROAD
- PV MODULE PILING

REFERENCE DRAWINGS

| No. | DRAWING TITLE | DRAWING No. | |
|-----|---|-------------------------|---------|
| G | 23-02-2026 REVISED PREDATOR PROOF RESERVE AREAS ADVISED BY WILDLANDS | | |
| F | 10-02-2026 REVISED PREDATOR PROOF RESERVE AREAS | | |
| E | 29-04-2025 REVISED RESERVE AREAS | | |
| D | 02-04-2025 ADDITIONAL RESERVE AREAS | | |
| C | 09-10-2024 ADDITIONAL FARM ROAD AND FARM STOCK FENCE GATE | | |
| B | 02-10-2024 ADDITIONAL ACCESS GATE ON PERIMETER AND STOCK FENCE | | |
| A | 30-09-2024 SITE BOUNDARY, ROAD WIDTH, HARDSTANDS, INVERTER AND FIRE FIGHTING TANKS LOCATION | | |
| D | 26-09-2024 DRAFT | | |
| R | DATE | DESCRIPTION OF REVISION | REMARKS |

PROJECT NAME :

**THE POINT - 450MWp SOLAR FARM
NEW ZEALAND**

DRAFTING ENGINEER :



GENERAL CONTRACTOR :



Powering New Zealand's Renewable Future.
A: Level 1, 65 KUMIEU ROAD, AUCKLAND E: engineering@fnrd.co.nz

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| | | |
|---------------------------|--------|--|
| DESIGNED & DRAWN BY: JROD | R.J.L. | TITLE: |
| CHECKED BY: PAREEK | P.P. | MODULE GENERAL ARRANGEMENT LAYOUT |
| APPROVED BY: JOHN T. | J.T. | |

DRAWING No: **FNSF_THEPOINT_450MWp_230226_DW0_MGAL**

| | | | |
|-----------------------|----------------------|----------------------|---------------|
| SHEET SIZE: A1 | SHEET: 1 OF 2 | SCALE: 1:8500 | REV: G |
|-----------------------|----------------------|----------------------|---------------|

