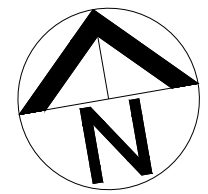


DISTANCE BETWEEN ROWS (NORTH OF 220kV TRANSMISSION LINE)
13.00m PILE TO PILE



VEGETATION SCREEN
20m WIDE

INTERNAL TRACK NETWORK

DARLINGTON CAMPERDOWN ROAD

ASSET PROTECTION ZONE (APZ)
10m WIDE APZ LOCATED AROUND THE INTERNAL TRACK NETWORK INCLUDING THE PERIMETER ACCESS TRACK

TRACKER LENGTH 56m

FARM ACCESS TO NORTH EAST FIELD OUTSIDE SITE

PROPOSED IMPROVEMENTS TO THE INTERSECTION OF MENINGOORT ROAD AND DARLINGTON-CAMPERDOWN ROAD

11kV OVERHEAD LINE (EXISTING, CONT.)

MENINGOORT ROAD (UPGRADE TO 7m WIDE)

MAIN ENTRY POINTS '1' AND '2' GATED 8m WIDE

6m GAP IN VEGETATION SCREENING

SITE ACCESS TO DRAIN
2 x 3m WIDE GATE ON EACH FENCE LINE

INVERTER STATION
CONTAINS 2 INVERTERS
INSTALLED ON 26x22m HARDSTAND

TEMPORARY CONSTRUCTION COMPOUND AND LAYDOWN AREA
1.44 ha WITH 10m APZ

POINT OF CONNECTION TO EXISTING TRANSMISSION LINE
186m FROM SITE BOUNDARY

SUBSTATION AREA
1.76 ha WITH 10m APZ
214m FROM SITE BOUNDARY

BATTERY AREA
0.91 ha WITH 10m APZ
102m FROM SITE BOUNDARY

NORTH SOUTH DRAIN
WITHIN DRAINAGE RESERVE 10m
OUTSIDE SITE BOUNDARY

CULVERT (12 x 300mm PIPES) AT DRAIN CROSSING
REMOVAL OF SEDGE

SECURITY FENCE (2.5m HIGH)
OFFSET 2m TO SCREEN

AGRICULTURAL FENCE (12m HIGH)

UNDERGROUND CABLE
HORIZONTAL BORE TO BE USED TO INSTALL CABLE UNDERNEATH EXISTING DRAIN WITHOUT DISTURBING AREA

CULVERT (2 x 300mm PIPES) AT DRAIN CROSSING

NORTH SOUTH DRAIN
LOCATED WITHIN 10m WIDE DRAINAGE RESERVE

CULVERT (1 x 300mm PIPE) AT DRAIN CROSSING

SITE BOUNDARY

DRAINAGE RESERVE EXCLUSION ZONE (10m)
TRACK AND CABLES ONLY.
HORIZONTAL BORE TO BE USED TO INSTALL CABLE UNDERNEATH DRAINAGE RESERVE WITHOUT DISTURBING AREA

WATER TANK
100kL
INSTALLED ON 16m x 26m HARDSTAND
WATER TANKS ARE LOCATED AT EACH ACCESS POINT

DISTANCE BETWEEN ROWS (SOUTH OF 220kV TRANSMISSION LINE)
12.75m PILE TO PILE

BILL OF MATERIALS (INDICATIVE)			
MATERIAL	DESCRIPTION	QUANTITY	UNITS
HV CABLE	240mm2 SINGLE CORE Al	285	km
DC CABLE	SUB-ARRAY (10mm2) TWIN Cu	120	km
DC CABLE	STRING (4mm2) TWIN Cu	34.00	km
INVERTER STATIONS	SMA MVPS 5500-EV	41	EA
MODULES	TYPICAL 440W	641088	EA
TRACKERS	NEXTRACKER GEMINI 2P	5724	EA
COMBINER BOXES	1000V 32-INPUT COMBINER BOX (IP65)	954	EA
PIER	NEXTRACKER PIER, 4m DEEP	57240	EA

OVERALL SYSTEM SPECIFICATION		
MODULE	641088	TYPICAL 440W
INVERTER STATION	41	SMA MVPS 5500-EV (CONTAINING 2x 2750kVA INVERTERS)
INVERTER	82	SMA SUNNY CENTRAL 2750-EV
BATTERY	100	MWh
DC CAPACITY	282.08	MWp
AC CAPACITY	200.00	MVA (LIMITED FROM 225.5MVA)
DC/AC RATIO	1.41	

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN MILLIMETRES UNLESS NOTED OTHERWISE. ALL DIMENSIONS TO BE VERIFIED ON SITE BY CONTRACTOR.
- PRINT IN COLOUR.
- THIS DRAWING IS BASED ON THE INFORMATION SUPPLIED TO THE DESIGNER FROM ITS CLIENTS OR SUBCONTRACTORS AND HAS BEEN PROVIDED IN ACCORDANCE WITH GSES' TERMS AND CONDITIONS.

LEGEND:

- INVERTER STATION (ON HARDSTAND)
- AC TRENCH
- WATER TANK WITH HARDSTAND
- SITE ACCESS GATE (MAIN & EMERGENCY)
- INTERNAL TRACK NETWORK
- ASSET PROTECTION ZONE (APZ)
- ACCESS ROAD (EXISTING)
- EXISTING VEGETATION
- PROPOSED VEGETATION
- OVERHEAD HV TRANSMISSION LINE
- OVERHEAD HV TRANSMISSION LINE (EXISTING)
- OVERHEAD 11kV LINE (EXISTING)
- UNDERGROUND 11kV LINE
- TRANSMISSION LINE EASEMENT
- SECURITY FENCE
- DRAINAGE RESERVE
- PROJECT BOUNDARY
- ARRAY AREA BOUNDARY
- LAYDOWN AREA
- OPERATIONS AREA
- BATTERY AREA
- SUBSTATION AREA
- 1.2m HIGH AGRICULTURAL-STYLE FENCE
- ACCESS GATE TO VEGETATION SCREEN & DRAIN (3m)
- PV ARRAY (NORTH OF 220kV TRANSMISSION LINE)
- PV ARRAY (SOUTH OF 220kV TRANSMISSION LINE)

MENINGOORT RD
UNFORMED WITHIN SITE BOUNDARY

ARRAY AREA BOUNDARY

EMERGENCY ACCESS GATE '1' 8m WIDE

20m OFFSET FROM EXISTING ROAD TO FENCE BOUNDARY

MAIN ENTRY POINTS '3' AND '4' GATED 8m WIDE

PORTION OF EXISTING 11kV LINE TO BE BURIED UNDERGROUND

UNDERGROUND CABLES TO BE INSTALLED UNDER MENINGOORT RD

FLOOD CONSTRAINT
INFRASTRUCTURE LIMITED TO FENCE, TRACK AND ARRAYS

OPERATIONS BUILDINGS
SEE 'APPENDIX D, OPERATIONS BUILDINGS PLAN' FOR DETAIL
97m FROM SITE BOUNDARY

EMERGENCY ACCESS GATE '2' 8m WIDE

220kV OVERHEAD TRANSMISSION LINE (EXISTING)

EXISTING VEGETATION
WITHIN THE PROJECT BOUNDARY

VEGETATION BUFFER
5m BETWEEN EXISTING AND VEGETATION SCREENS

FLOOD CONSTRAINT
INFRASTRUCTURE LIMITED TO TRACK AND FENCE

CULVERT (3 x 600mm PIPES) AT DRAIN CROSSING
SEDEGE REMOVAL

15m FLOOD EXCLUSION ZONE
(17.5m EITHER SIDE OF THE CENTRE OF THE DRAIN)

EAST WEST DRAIN
CONTAINS NATIVE SEDGE

EMERGENCY ACCESS GATE '3' 8m WIDE

ARRAY AREA BOUNDARY

CULVERT (2 x 600mm PIPES) AT DRAIN CROSSING

EMERGENCY ACCESS GATE '4' 8m WIDE

SITE PLAN APPENDIX LIST				
•	APPENDIX A	BATTERY AND SUBSTATION PLAN		
•	APPENDIX B	SUBSTATION ELEVATION		
•	APPENDIX C	BATTERY ELEVATION		
•	APPENDIX D	OPERATIONS BUILDINGS ELEVATION		
•	APPENDIX E	GATE ELEVATION		
•	APPENDIX F	TRACKER ELEVATION		
•	APPENDIX G	INVERTER ELEVATION		
•	APPENDIX H	INVERTER MAX. ELEVATION		
•	APPENDIX I	PILE EXAMPLE		
•	APPENDIX J	DETAIL OF ARRAY AREAS		
•	APPENDIX K	BOUNDARY DETAIL EXAMPLES		
•	APPENDIX L	CABLE ROUTES		
•	APPENDIX M	TEMPORARY CONSTRUCTION COMPOUND LAYOUT		

SITE PLAN VIEW
SCALE 1:15000

REVISION PANEL				DESIGN PANEL			
REV	DATE	DRN	DETAILS	APR'D	CURRENT REV AUTHORIZED	DESIGNED	AUTHORIZED
2	14/12/20	H.S.	UPDATED APPENDIX LIST	A.B.	A BONANNO	H.SMITH	A BONANNO
1	22/10/20	H.S.	PLANNING SUBMISSION	A.B.		H.SMITH	
0	29/05/20	H.S.	ISSUED FOR CLIENT APPROVAL	A.B.		B.COOK	



BOOKAAR 200MW SOLAR FARM
520 MENINGOORT ROAD, BOOKAAR VIC 3260
SOLAR GENERATION
SITE PLAN VIEW

A1	TOTAL SHEETS	2
SHT SIZE	PROJECT No: P1017	REVISION
MAXIMO ID:		
SUPERSEDES:		
DRAWING NUMBER	P1017-01-001-01	

NOT FOR CONSTRUCTION