

NOTE:
- CONSTRAINTS USED FOR LAYOUT DESIGN PAUSTwc064 WITH THE
ADDITION OF SUBSEQUENT ECOLOGY SURVEY RESULTS.



TWIN CREEK WIND FARM

**FIGURE 8B
SITE AND CONTEXT
ANALYSIS PLAN
WIND FARM**

SOURCE DATA © GOVERNMENT OF SOUTH AUSTRALIA
(DEPARTMENT FOR ENVIRONMENT & WATER).

- DEVELOPMENT AREA (2024)
- SITE BOUNDARY (2024)
- LOCAL GOVERNMENT AREA BOUNDARY
- SCATTERED TREES 2023 & 2024 SURVEYS
- VEGETATION CLASSIFICATION (EBS 14/4/2024)**
- AUSTRUSTIPA SPP. GRASSLAND
- CROPPING
- EUCALYPTUS LEUCOXYLON PRUINOSA OPEN GRASSY WOODLAND
- JUNCUS SPP. AND CYPERUS SPP. SEDGELAND
- LOMANDRA EFFUSA TUSSOCK GRASSLAND
- PASTURE GRASSLAND/ EXOTIC GRASSLAND
- PLANTED SPECIES
- TERRAIN SLOPE**
- Under 20%
- Over 20%



LAYOUT DWG 03498-RES-LAY-DR-TE-003 | LAYOUT NO. PAUSTwc064

DRAWING NUMBER

03498-RES-MAP-DR-TE-014

SCALE - 1:50,000 @ A3

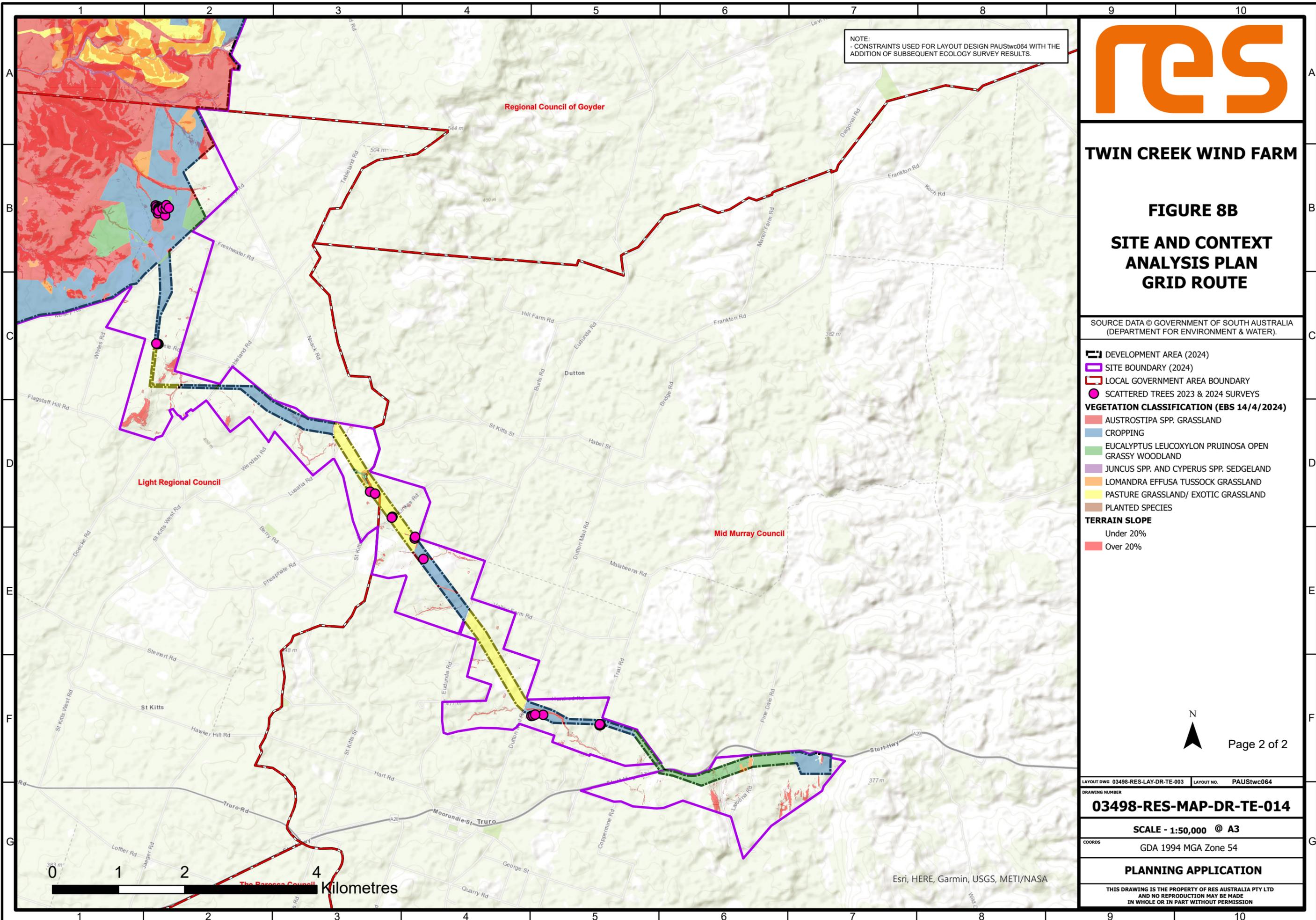
COORDS
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PLANNING APPLICATION

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0 1 2 4 Kilometres

ESRI, HERE, Garmin, USGS, METI/NASA



NOTE:
- CONSTRAINTS USED FOR LAYOUT DESIGN PAUSTwc064 WITH THE
ADDITION OF SUBSEQUENT ECOLOGY SURVEY RESULTS.



TWIN CREEK WIND FARM

FIGURE 8B
SITE AND CONTEXT
ANALYSIS PLAN
GRID ROUTE

SOURCE DATA © GOVERNMENT OF SOUTH AUSTRALIA
(DEPARTMENT FOR ENVIRONMENT & WATER).

- DEVELOPMENT AREA (2024)
- SITE BOUNDARY (2024)
- LOCAL GOVERNMENT AREA BOUNDARY
- SCATTERED TREES 2023 & 2024 SURVEYS
- VEGETATION CLASSIFICATION (EBS 14/4/2024)**
- AUSTRUSTIPA SPP. GRASSLAND
- CROPPING
- EUCALYPTUS LEUCOXYLON PRUINOSA OPEN GRASSY WOODLAND
- JUNCUS SPP. AND CYPERUS SPP. SEDGELAND
- LOMANDRA EFFUSA TUSSOCK GRASSLAND
- PASTURE GRASSLAND/ EXOTIC GRASSLAND
- PLANTED SPECIES
- TERRAIN SLOPE**
- Under 20%
- Over 20%



LAYOUT DWG 03498-RES-LAY-DR-TE-003 | LAYOUT NO. PAUSTwc064

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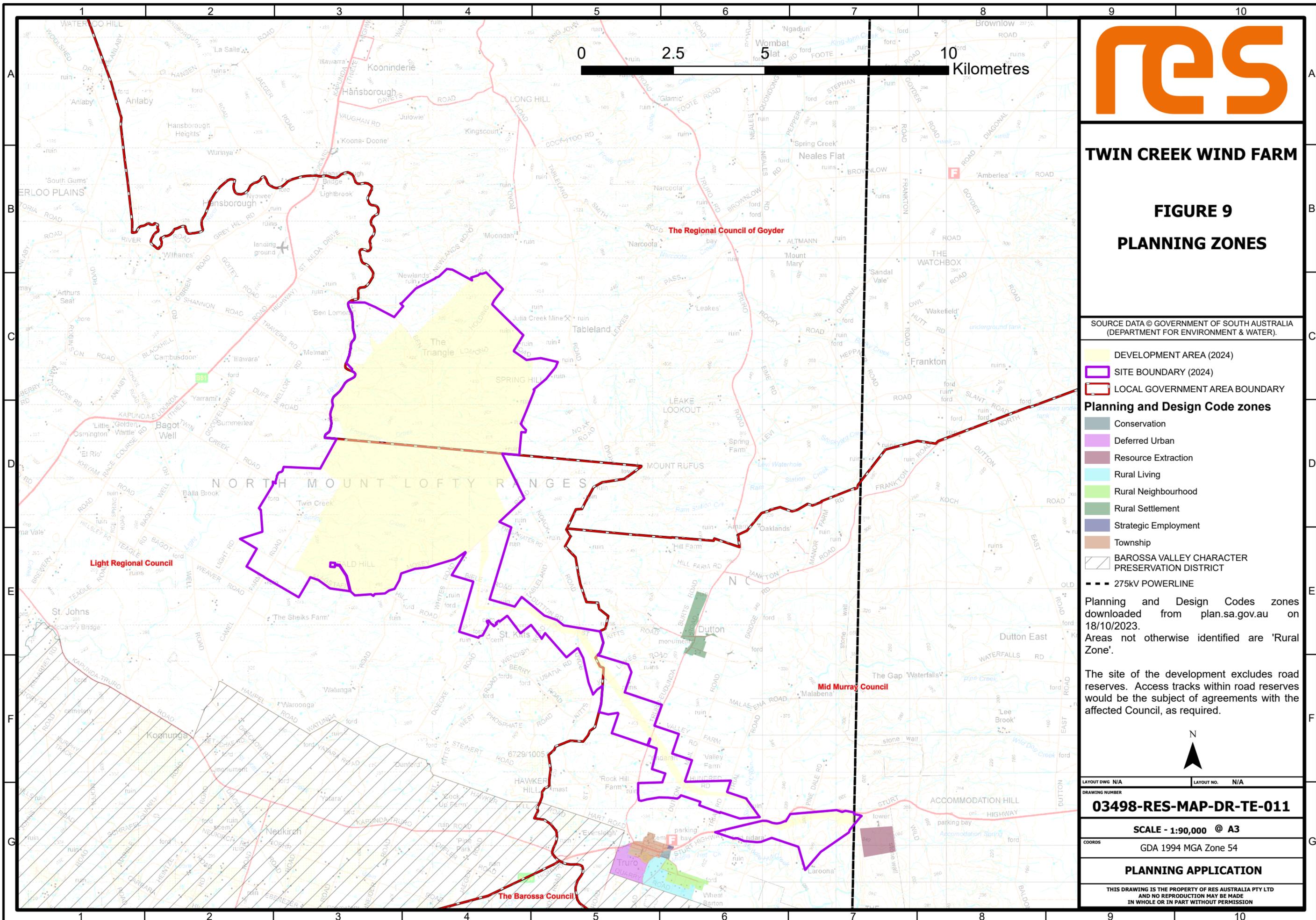
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TWIN CREEK WIND FARM

**FIGURE 9
PLANNING ZONES**

SOURCE DATA © GOVERNMENT OF SOUTH AUSTRALIA
(DEPARTMENT FOR ENVIRONMENT & WATER).

- DEVELOPMENT AREA (2024)
- SITE BOUNDARY (2024)
- LOCAL GOVERNMENT AREA BOUNDARY

Planning and Design Code zones

- Conservation
- Deferred Urban
- Resource Extraction
- Rural Living
- Rural Neighbourhood
- Rural Settlement
- Strategic Employment
- Township
- BAROSSA VALLEY CHARACTER PRESERVATION DISTRICT

--- 275kV POWERLINE

Planning and Design Codes zones downloaded from plan.sa.gov.au on 18/10/2023.

Areas not otherwise identified are 'Rural Zone'.

The site of the development excludes road reserves. Access tracks within road reserves would be the subject of agreements with the affected Council, as required.



LAYOUT DWG: N/A LAYOUT NO.: N/A

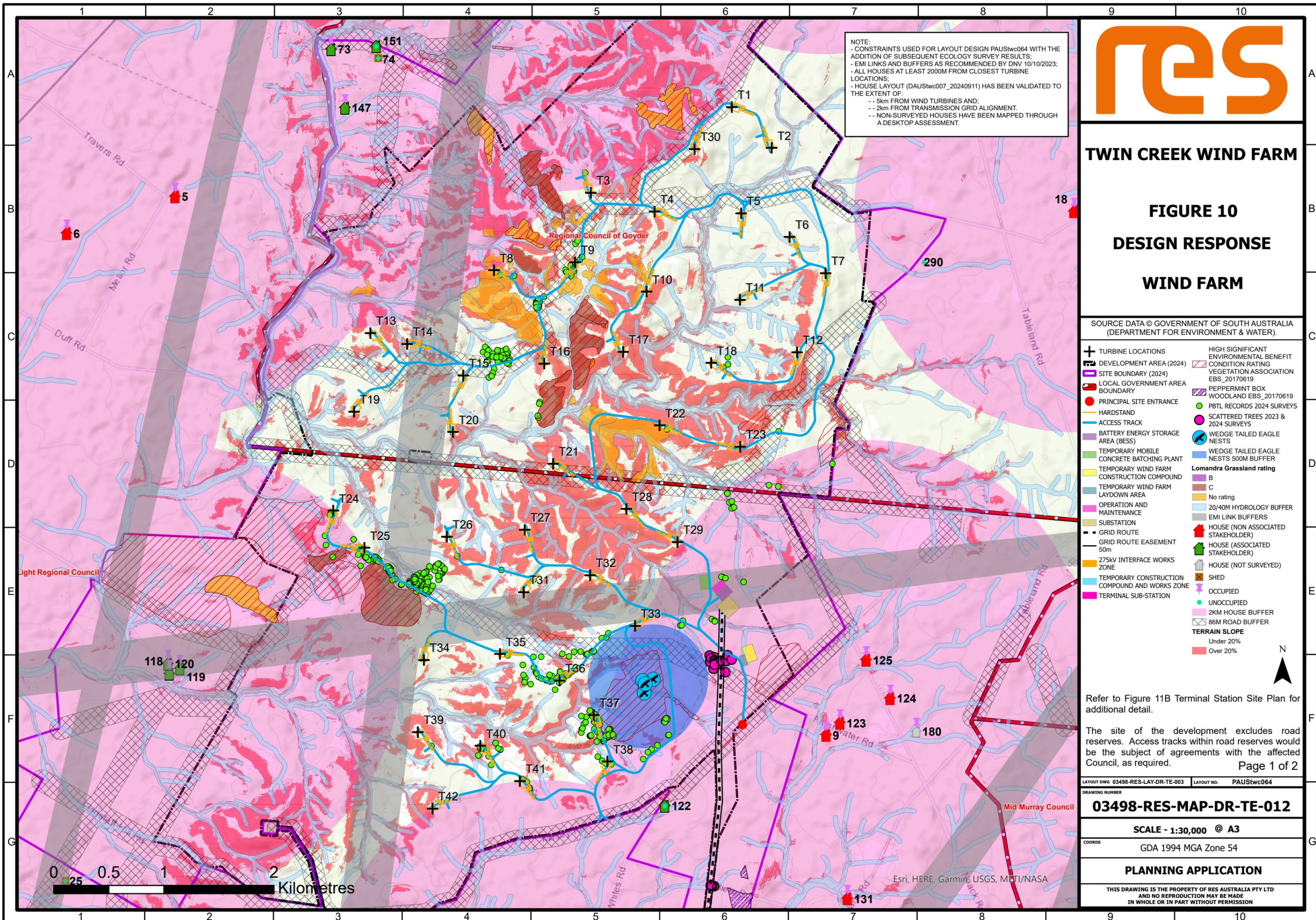
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SCALE - 1:90,000 @ A3

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NOTE:
 - CONSTRAINTS USED FOR LAYOUT DESIGN PAUSTwc064 WITH THE ADDITION OF SUBSEQUENT ECOLOGY SURVEY RESULTS;
 - EMI LINKS AND BUFFERS AS RECOMMENDED BY DNV 10/10/2023;
 - ALL HOUSES AT LEAST 2000M FROM CLOSEST TURBINE LOCATIONS;
 - HOUSE LAYOUT (DAUSTwc007_20240911) HAS BEEN VALIDATED TO THE EXTENT OF:
 -- 5km FROM WIND TURBINES AND;
 -- 2km FROM TRANSMISSION GRID ALIGNMENT.
 - NON-SURVEYED HOUSES HAVE BEEN MAPPED THROUGH A DESKTOP ASSESSMENT.



TWIN CREEK WIND FARM
FIGURE 10
DESIGN RESPONSE
WIND FARM

SOURCE DATA © GOVERNMENT OF SOUTH AUSTRALIA (DEPARTMENT FOR ENVIRONMENT & WATER).

- | | | | |
|---|--|---|--|
| + | TURBINE LOCATIONS | + | HIGH SIGNIFICANT ENVIRONMENTAL BENEFIT |
| ■ | DEVELOPMENT AREA (2024) | ▨ | CONDITION RATING VEGETATION ASSOCIATION EBS_20170619 |
| ▭ | SITE BOUNDARY (2024) | ▨ | PEPPERMINT BOX WOODLAND EBS_20170619 |
| ▭ | LOCAL GOVERNMENT AREA BOUNDARY | ● | PBTL RECORDS 2024 SURVEYS |
| ● | PRINCIPAL SITE ENTRANCE | ● | SCATTERED TREES 2023 & 2024 SURVEYS |
| ○ | HARDSTAND | ○ | WEDGE TAILED EAGLE NESTS |
| — | ACCESS TRACK | ○ | WEDGE TAILED EAGLE NESTS 500M BUFFER |
| ■ | BATTERY ENERGY STORAGE AREA (BESS) | ■ | Lomandra Grassland rating |
| ■ | TEMPORARY MOBILE CONCRETE BATCHING PLANT | ■ | B |
| ■ | TEMPORARY WIND FARM CONSTRUCTION COMPOUND | ■ | C |
| ■ | TEMPORARY WIND FARM LAYDOWN AREA | ■ | No rating |
| ■ | OPERATION AND MAINTENANCE | ■ | 20/40M HYDROLOGY BUFFER |
| ■ | SUBSTATION | ■ | EMI LINK BUFFERS |
| — | GRID ROUTE | ■ | HOUSE (NON ASSOCIATED STAKEHOLDER) |
| — | GRID ROUTE EASEMENT 50m | ■ | HOUSE (ASSOCIATED STAKEHOLDER) |
| ■ | 275KV INTERFACE WORKS ZONE | ■ | HOUSE (NOT SURVEYED) |
| ■ | TEMPORARY CONSTRUCTION COMPOUND AND WORKS ZONE | ■ | SHED |
| ■ | TERMINAL SUB-STATION | ■ | OCCUPIED |
| | | ● | UNOCCUPIED |
| | | ■ | 2KM HOUSE BUFFER |
| | | ■ | 86M ROAD BUFFER |
| | | | TERRAIN SLOPE |
| | | ■ | Under 20% |
| | | ■ | Over 20% |

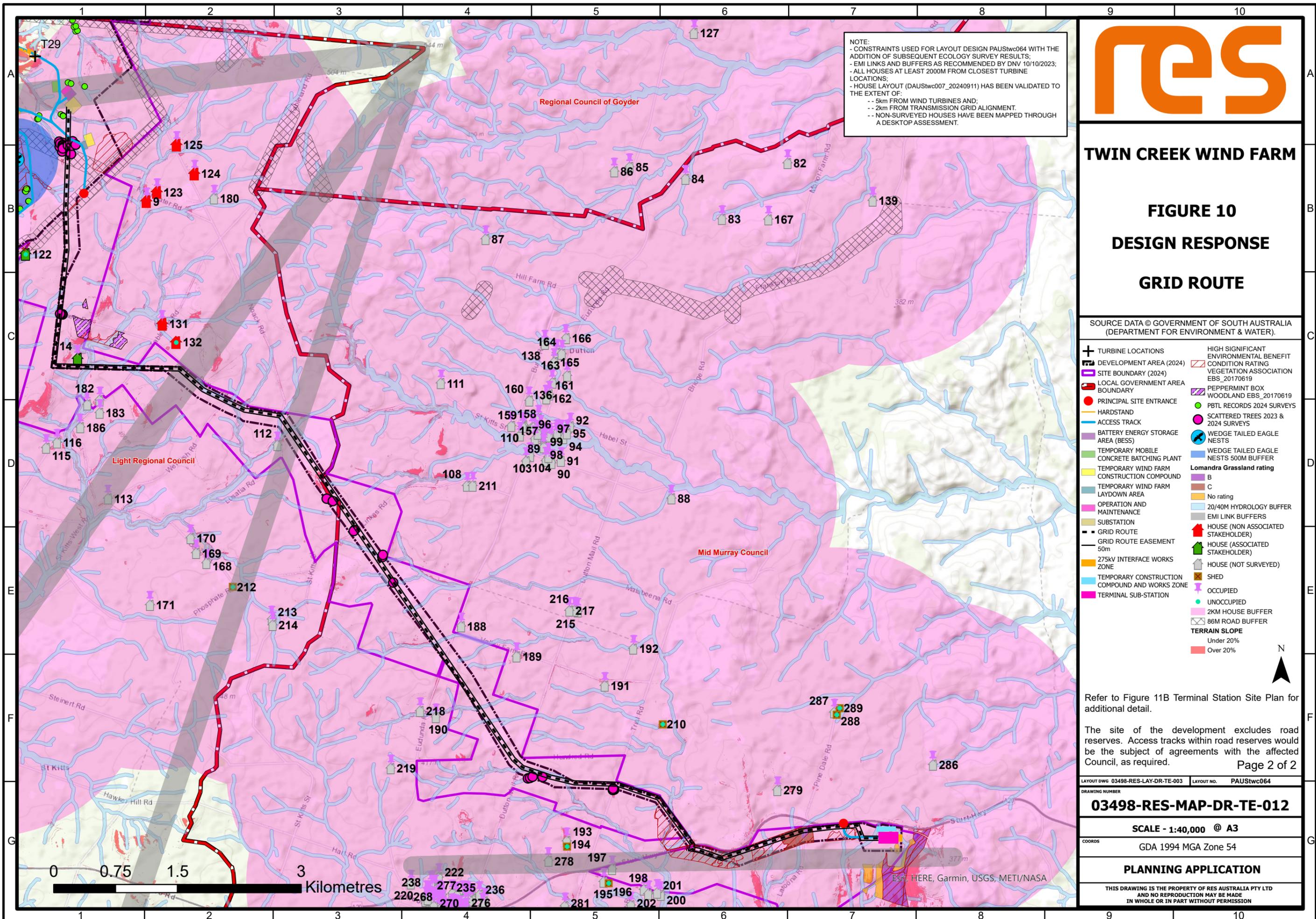
Refer to Figure 11B Terminal Station Site Plan for additional detail.

The site of the development excludes road reserves. Access tracks within road reserves would be the subject of agreements with the affected Council, as required.

LAYOUT DWG 03498-RES-LAY-DR-TE-003 | LAYOUT NO. PAUSTwc064
 DRAWING NUMBER **03498-RES-MAP-DR-TE-012**
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0 0.5 1 2 Kilometres

Esri, HERE, Garmin, USGS, METI/NASA



NOTE:
 - CONSTRAINTS USED FOR LAYOUT DESIGN PAUStwc064 WITH THE ADDITION OF SUBSEQUENT ECOLOGY SURVEY RESULTS;
 - EMI LINKS AND BUFFERS AS RECOMMENDED BY DNV 10/10/2023;
 - ALL HOUSES AT LEAST 2000M FROM CLOSEST TURBINE LOCATIONS;
 - HOUSE LAYOUT (DAUStwc007_20240911) HAS BEEN VALIDATED TO THE EXTENT OF:
 -- 5km FROM WIND TURBINES AND;
 -- 2km FROM TRANSMISSION GRID ALIGNMENT.
 -- NON-SURVEYED HOUSES HAVE BEEN MAPPED THROUGH A DESKTOP ASSESSMENT.



TWIN CREEK WIND FARM

**FIGURE 10
 DESIGN RESPONSE
 GRID ROUTE**

SOURCE DATA © GOVERNMENT OF SOUTH AUSTRALIA (DEPARTMENT FOR ENVIRONMENT & WATER).

- | | | |
|---|--|--|
| + | TURBINE LOCATIONS | High Significant Environmental Benefit |
| ⬜ | DEVELOPMENT AREA (2024) | CONDITION RATING VEGETATION ASSOCIATION EBS_20170619 |
| ⬜ | SITE BOUNDARY (2024) | PEPPERMINT BOX WOODLAND EBS_20170619 |
| ⬜ | LOCAL GOVERNMENT AREA BOUNDARY | PBTL RECORDS 2024 SURVEYS |
| ● | PRINCIPAL SITE ENTRANCE | SCATTERED TREES 2023 & 2024 SURVEYS |
| — | HARDSTAND | WEDGE TAILED EAGLE NESTS |
| — | ACCESS TRACK | WEDGE TAILED EAGLE NESTS 500M BUFFER |
| — | BATTERY ENERGY STORAGE AREA (BESS) | Lomandra Grassland rating |
| — | TEMPORARY MOBILE CONCRETE BATCHING PLANT | B |
| — | TEMPORARY WIND FARM CONSTRUCTION COMPOUND | C |
| — | TEMPORARY WIND FARM LAYDOWN AREA | No rating |
| — | OPERATION AND MAINTENANCE SUBSTATION | 20/40M HYDROLOGY BUFFER |
| — | GRID ROUTE | EMI LINK BUFFERS |
| — | GRID ROUTE EASEMENT 50m | HOUSE (NON ASSOCIATED STAKEHOLDER) |
| — | 275KV INTERFACE WORKS ZONE | HOUSE (ASSOCIATED STAKEHOLDER) |
| — | TEMPORARY CONSTRUCTION COMPOUND AND WORKS ZONE | HOUSE (NOT SURVEYED) |
| — | TERMINAL SUB-STATION | SHED |
| ● | | OCCUPIED |
| ● | | UNOCCUPIED |
| ⬜ | | 2KM HOUSE BUFFER |
| ⬜ | | 86M ROAD BUFFER |
| — | | TERRAIN SLOPE |
| — | | Under 20% |
| — | | Over 20% |

Refer to Figure 11B Terminal Station Site Plan for additional detail.

The site of the development excludes road reserves. Access tracks within road reserves would be the subject of agreements with the affected Council, as required.

LAYOUT DWG 03498-RES-LAY-DR-TE-003 LAYOUT NO. PAUStwc064

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TWIN CREEK WIND FARM

FIGURE 11A

CONSTRUCTION OPERATIONS, MAINTENANCE AND SUBSTATION AREAS

SOURCE DATA © GOVERNMENT OF SOUTH AUSTRALIA (DEPARTMENT FOR ENVIRONMENT & WATER).

LEGEND

- ACCESS TRACK
- - - GRID ROUTE
- GRID ROUTE EASEMENT 50m

INFRASTRUCTURE

- BATTERY ENERGY STORAGE AREA (BESS)
- TEMPORARY MOBILE CONCRETE BATCHING PLANT
- OPERATION AND MAINTENANCE
- SUBSTATION

NOTE:

ACCESS TRACKS WITHIN EXISTING ROADS AND ROAD RESERVES WILL BE THE SUBJECT OF AGREEMENTS WITH THE AFFECTED COUNCIL.

- REFER TO FIGURE 12 FOR TYPICAL OPERATIONS AND MAINTENANCE AREA

- REFER TO FIGURE 13 FOR TYPICAL TEMPORARY CONSTRUCTION AND COMPOUND

- REFER TO FIGURE 14 FOR TYPICAL CONCRETE BATCHING PLANT



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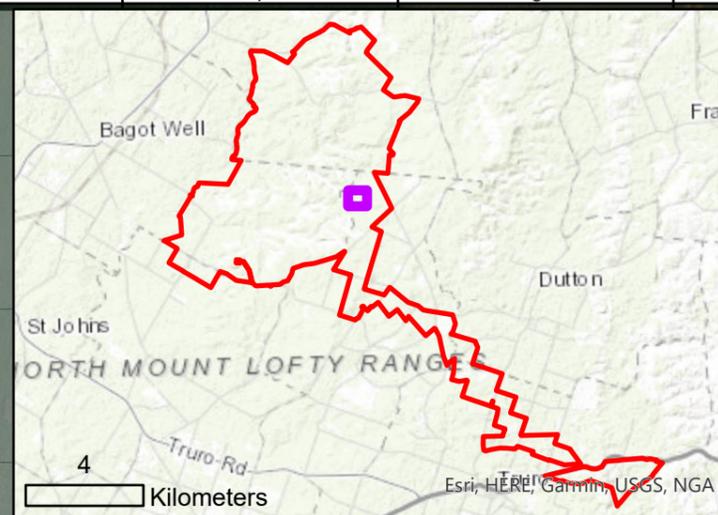
03498-RES-LAY-DR-PT-004

SCALE - 1:2,000 @ A3

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BATCHING PLANT
AREA~1Ha
80m x 131m

OPERATION AND MAINTENANCE
AREA ~0.8 Ha
125m x 65m

BATTERY STORAGE
FOOTPRINT
AREA~1.1 Ha
87m x 130m

WIND FARM SUBSTATION
AREA~2.2 Ha
150m x 150m

PAGE 2 SHOWS CONSTRUCTION COMPOUND & LAYDOWN AREA

NOTES:
LAYOUTS AND DIMENSIONS ARE INDICATIVE ONLY TO SHOW GENERAL ARRANGEMENT CONCEPTS AND ALL DETAILS ARE SUBJECT TO FINAL DESIGN.

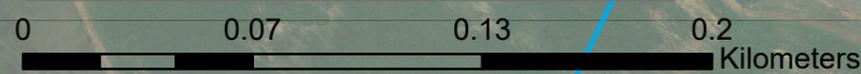
SECURITY FENCING MAY BE PLACED;

RES INTERNAL
Infrastructures_PAUStwc064_unlocked_DESIGN_FREEZE_20240830
SHOWN IN THIS DRAWING;

RES INTERNAL
GRIDROUTE09_APPROVED_20200827
SHOWN IN THIS DRAWING;

OPERATION AND MAINTENANCE COMPOUND IS LOCATED 1.8KM FROM MOSEY ROAD;

INFRASTRUCTURE IS LOCATED IN LOT SECTION 278 HUNDRED OF BELVIDERE IN THE AREA NAMED ST KITTS CERTIFICATE OF TITLE - VOLUME 5618 FOLIO 693.



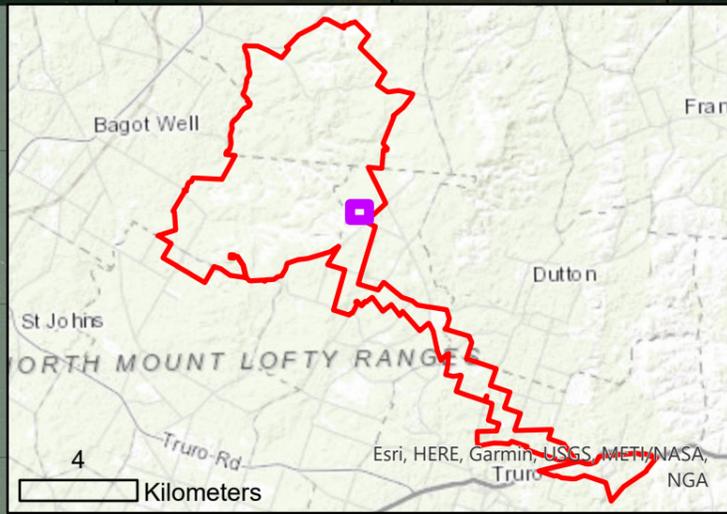
NOTES:
 LAYOUTS AND DIMENSIONS ARE INDICATIVE ONLY
 TO SHOW GENERAL ARRANGEMENT CONCEPTS AND
 ALL DETAILS ARE SUBJECT TO FINAL DESIGN.

SECURITY FENCING MAY BE PLACED;

RES INTERNAL
 Infrastructures_PAUStwc064_unlocked_DESIGN_FREEZE_20240830
 SHOWN IN THIS DRAWING;

INFRASTRUCTURE IS LOCATED IN LOT SECTION 248
 HUNDRED OF BELVIDERE IN THE AREA NAMED ST KITS
 CERTIFICATE OF TITLE - VOLUME 5618 FOLIO 688.

PAGE 1 SHOWS BATCHING PLANT, WIND FARM SUBSTATION, OPERATION
 AND MAINTENANCE & BATTERY ENERGY STORAGE.



TWIN CREEK WIND FARM

FIGURE 11A
CONSTRUCTION
OPERATIONS,
MAINTENANCE AND
SUBSTATION AREAS

SOURCE DATA © GOVERNMENT OF SOUTH AUSTRALIA
 (DEPARTMENT FOR ENVIRONMENT & WATER).

LEGEND

- ACCESS TRACK
- GRID ROUTE
- GRID ROUTE EASEMENT 50m

INFRASTRUCTURE

- PROPOSED TEMPORARY WIND FARM CONSTRUCTION COMPOUND
- TEMPORARY WIND FARM LAYDOWN AREA

NOTE:

- ACCESS TRACKS WITHIN EXISTING ROADS AND ROAD RESERVES WILL BE THE SUBJECT OF AGREEMENTS WITH THE AFFECTED COUNCIL.
- REFER TO FIGURE 12 FOR TYPICAL OPERATIONS AND MAINTENANCE AREA
- REFER TO FIGURE 13 FOR TYPICAL TEMPORARY CONSTRUCTION AND COMPOUND
- REFER TO FIGURE 14 FOR TYPICAL CONCRETE BATCHING PLANT



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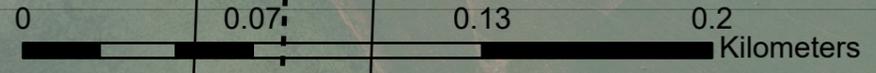
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CONSTRUCTION COMPOUND
 AREA~1.5 Ha
 100m x 150m

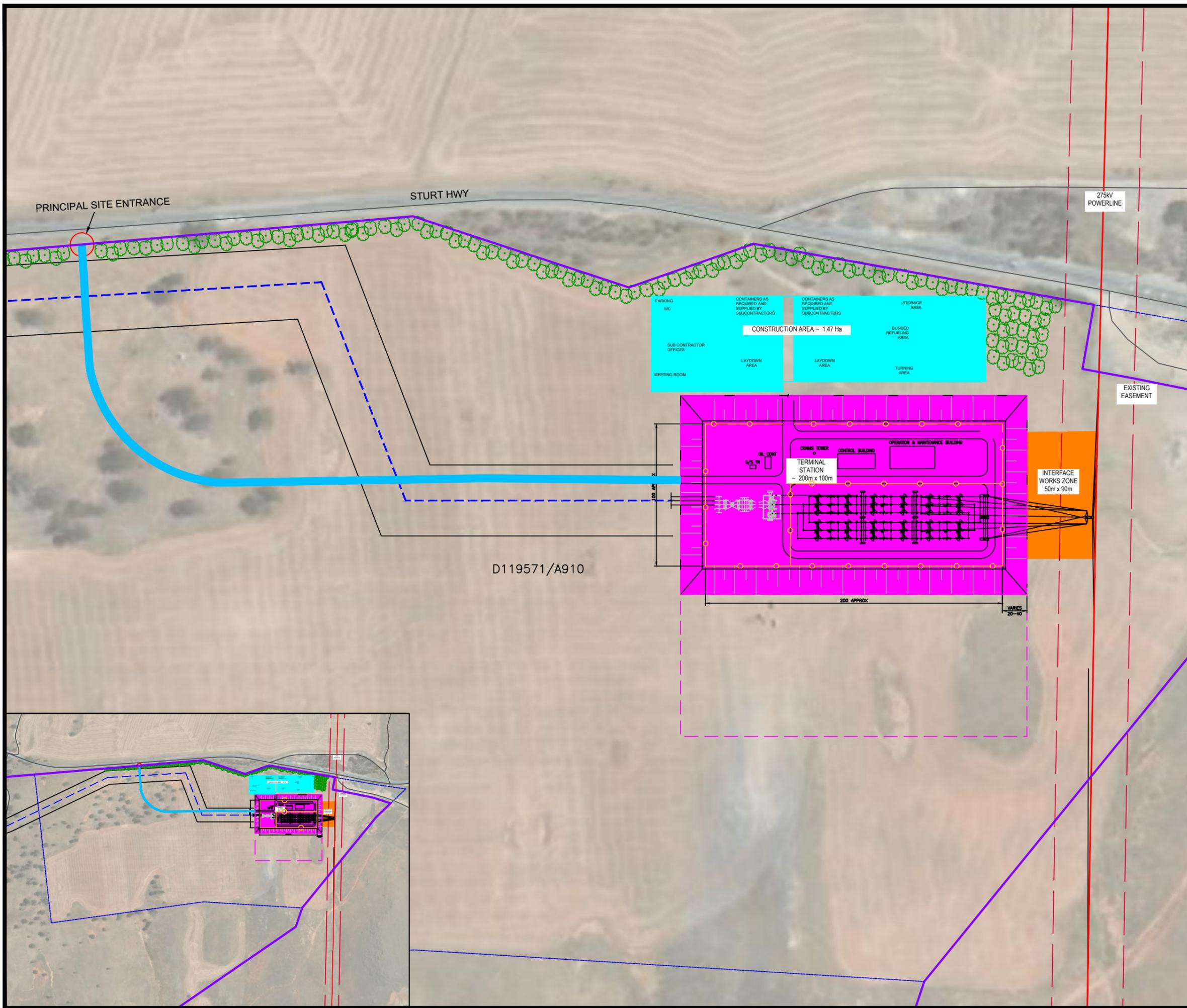
LAYDOWN
 AREA~0.5 Ha
 100m x 50m



TWIN CREEK WIND FARM

FIGURE 11B

**TERMINAL STATION
SITE PLAN**



LEGEND

- CONNECTION ASSET GRID ROUTE
- ROADS
- CADASTRAL BOUNDARY
- SITE BOUNDARY
- CONNECTION ASSET EASEMENT 50m
- EXISTING 275KV POWERLINE
- EXISTING 275KV POWERLINE 50m EASEMENT
- PROPOSED TERMINAL SUB-STATION
- PROPOSED TEMPORARY CONSTRUCTION COMPOUND AND WORKS ZONE
- PROPOSED 275KV INTERFACE WORKS ZONE
- TERMINAL STATION ACCESS ROADS
- LAND BOUNDARY
- INDICATIVE PERMANENT FENCE LOCATIONS
- SITE ENTRANCE
- PROPOSED VEGETATION SCREENING (A) POST CONSTRUCTION



NOTES:

LAYOUTS AND DIMENSIONS ARE INDICATIVE ONLY TO SHOW GENERAL ARRANGEMENT CONCEPTS AND ALL DETAILS ARE SUBJECT TO FINAL DESIGN;

RES INTERNAL GRIDROUTE09_APPROVED_20200827_TRIMMED_20241016 SHOWN IN THIS DRAWING;

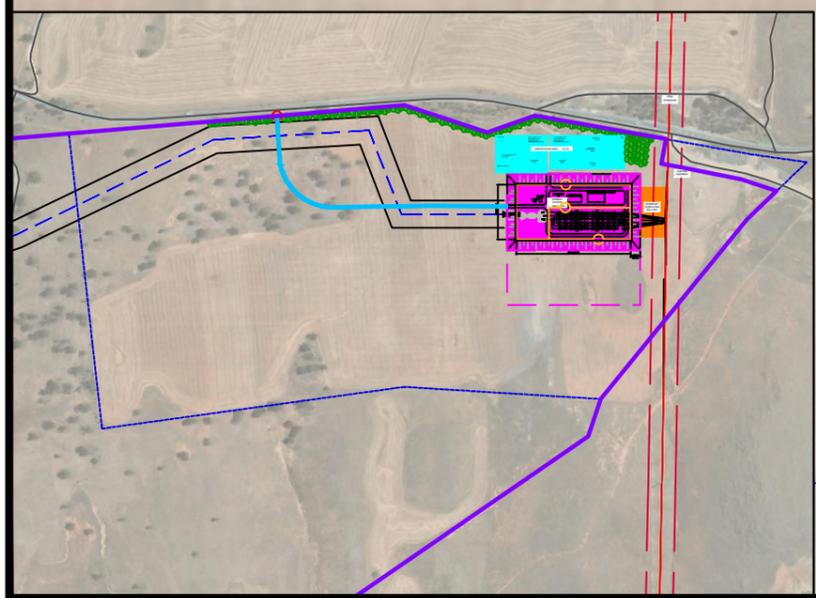
RES INTERNAL ACCESSTRACKS_CL_PAUSTWC064_UNLOCKED_DESIGN_FREEZE_20240830 SHOWN IN THIS DRAWING;

FINAL LOCATIONS OF CONSTRUCTION AREA AND TERMINAL SUB-STATION AREA ARE SUBJECT TO DETAILED DESIGN;

ALLOTMENT 910 PLAN 119571 IN THE AREA NAMED STURT HIGHWAY, CERTIFICATE OF TITLE - VOLUME 6221 FOLIO 131.

LANDSCAPING/SCREEN PLANTING TO BE UNDERTAKEN WHERE PRACTICABLE WITH APPROPRIATE SEPARATION DISTANCES TO THE EXISTING OVERHEAD TRANSMISSION LINE;

THE SITE ENTRANCE HAS BEEN LOCATED WITH ADVICE FROM MFY TRAFFIC AND TRANSPORT CONSULTANTS TO ENSURE APPROPRIATE VEHICLE SIGHTLINES ARE MET.

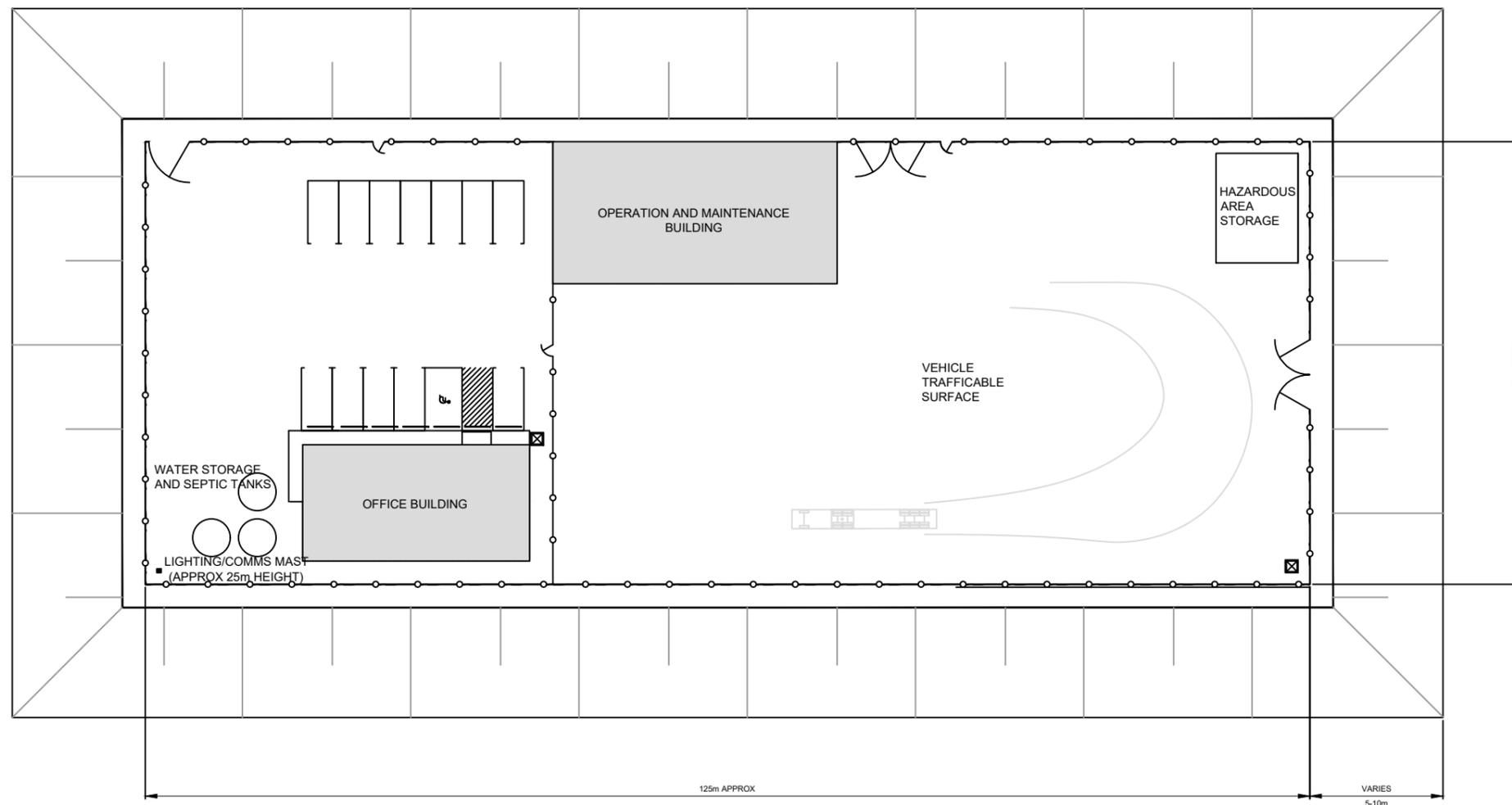


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SCALE - AS SHOWN @ A3	
PLANNING APPLICATION	
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TWIN CREEK WIND FARM

FIGURE 12

TYPICAL OPERATIONS AND MAINTENANCE AREA



NOTES:
 LAYOUTS AND DIMENSIONS ARE INDICATIVE ONLY TO SHOW GENERAL ARRANGEMENT CONCEPTS AND ALL DETAILS ARE SUBJECT TO FINAL DESIGN;

LANDSCAPING TO BE UNDERTAKEN IN ACCORDANCE WITH LANDSCAPE AND VISUAL IMPACT ASSESSMENT REPORT;

BUILDINGS TO COMPLY WITH AUSTRALIAN STANDARDS, BCA AND LOCAL COUNCIL REQUIREMENTS;

OFFICE AND MAINTENANCE BUILDING ROOF AREA TO BE UTILIZED FOR RAINWATER CATCHMENT;

BUILDING ARE NOT WITHIN A FLOOD ZONE BUT THE SURROUNDING GROUND DRAINAGE NETWORK SHALL BE DESIGNED TO WITHSTAND A 1:100 YEAR STORM FLOW AT THE SITE;

TO BE LOCATED IN A SECURED FENCED AREA;

BUILDING COLOUR MUST NOT UNREASONABLY CONTRAST WITH SURROUNDING LANDSCAPE.

MAX OPERATION AND MAINTENANCE BUILDING DIMENSIONS

- W = 15 m
- L = 25 m
- H = 7.5 m

MAX OFFICE DIMENSIONS

- W = 10 m
- L = 20 m
- H = 7.5 m

HARDSTAND AREA CONSISTING OF COMPACTED SANDSTONE TO PROVIDE A CLEAN AND FIRM SURFACE SUITABLE FOR CABINS AND HEAVY TRAFFIC.

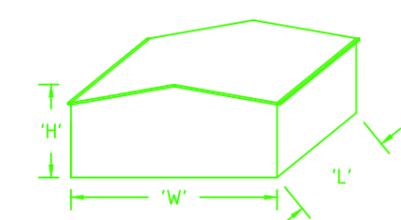
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SCALE - N.T.S @ A3

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TWIN CREEK WIND FARM

FIGURE 12

TYPICAL OPERATIONS AND MAINTENANCE AREA

NOTES:

LAYOUTS AND DIMENSIONS ARE INDICATIVE ONLY TO SHOW GENERAL ARRANGEMENT CONCEPTS AND ALL DETAILS ARE SUBJECT TO FINAL DESIGN;

LANDSCAPING TO BE UNDERTAKEN IN ACCORDANCE WITH LANDSCAPE AND VISUAL IMPACT ASSESSMENT REPORT;

BUILDINGS TO COMPLY WITH AUSTRALIAN STANDARDS, BCA AND LOCAL COUNCIL REQUIREMENTS;

OFFICE AND MAINTENANCE BUILDING ROOF AREA TO BE UTILIZED FOR RAINWATER CATCHMENT;

BUILDING ARE NOT WITHIN A FLOOD ZONE BUT THE SURROUNDING GROUND DRAINAGE NETWORK SHALL BE DESIGNED TO WITHSTAND A 1:100 YEAR STORM FLOW AT THE SITE;

TO BE LOCATED IN A SECURED FENCED AREA;

BUILDING COLOUR MUST NOT UNREASONABLY CONTRAST WITH SURROUNDING LANDSCAPE.

MAX OPERATION AND MAINTENANCE BUILDING DIMENSIONS

- W = 15 m
- L = 25 m
- H = 7.5 m

HARDSTAND AREA CONSISTING OF COMPACTED SANDSTONE TO PROVIDE A CLEAN AND FIRM SURFACE SUITABLE FOR CABINS AND HEAVY TRAFFIC.

PAGE 2 OF 3

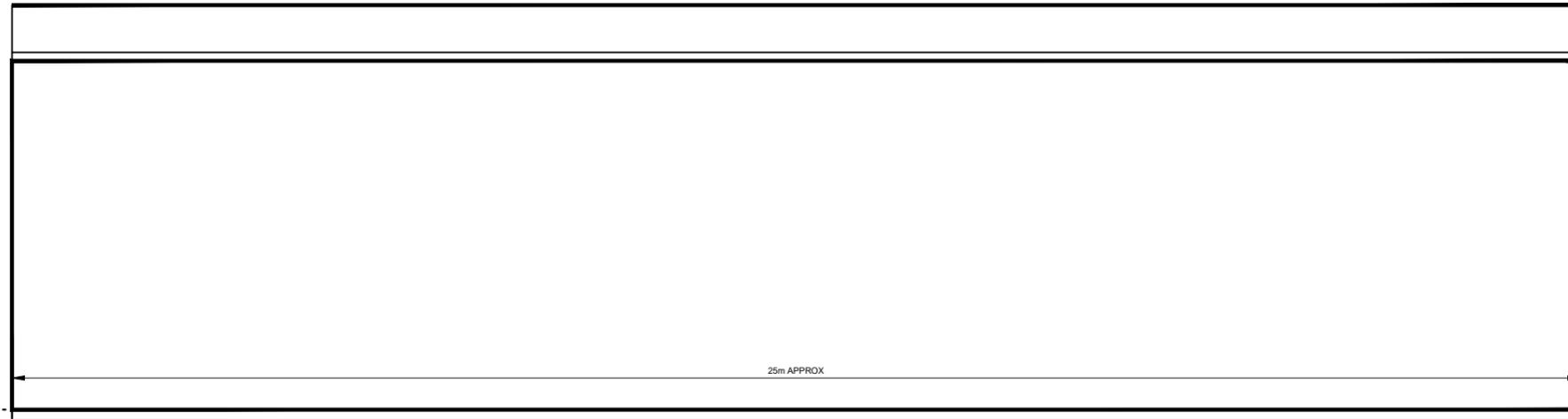
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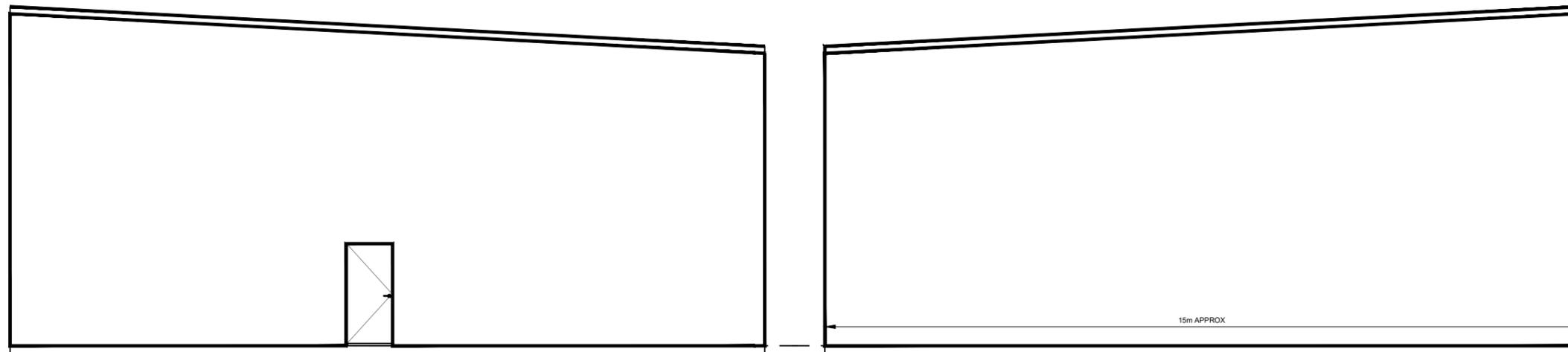
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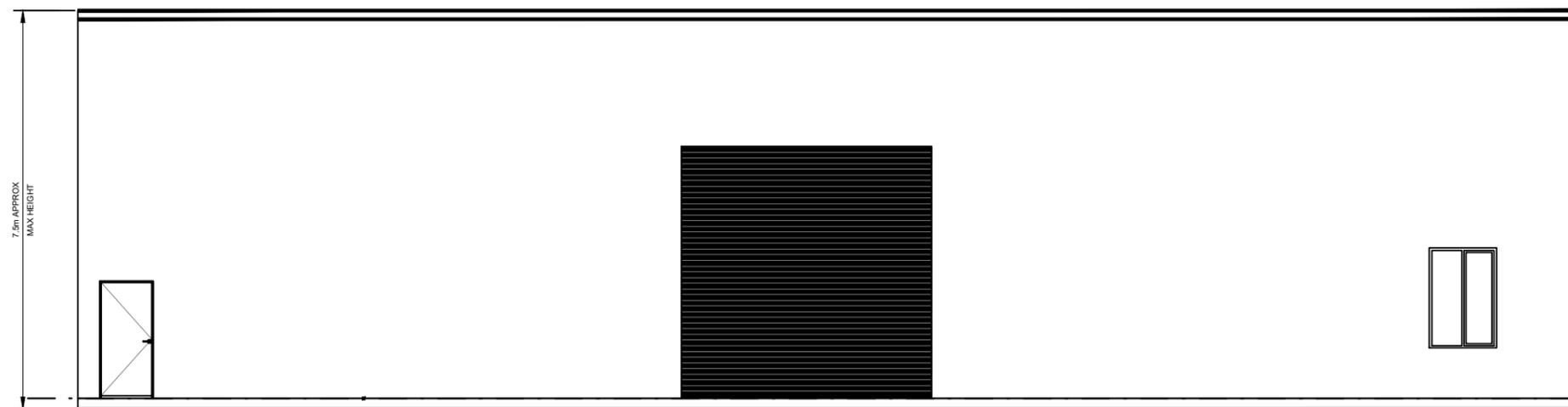


REAR ELEVATION



RIGHT ELEVATION

LEFT ELEVATION



FRONT ELEVATION

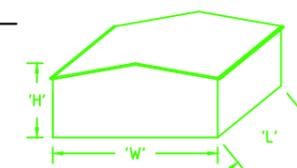
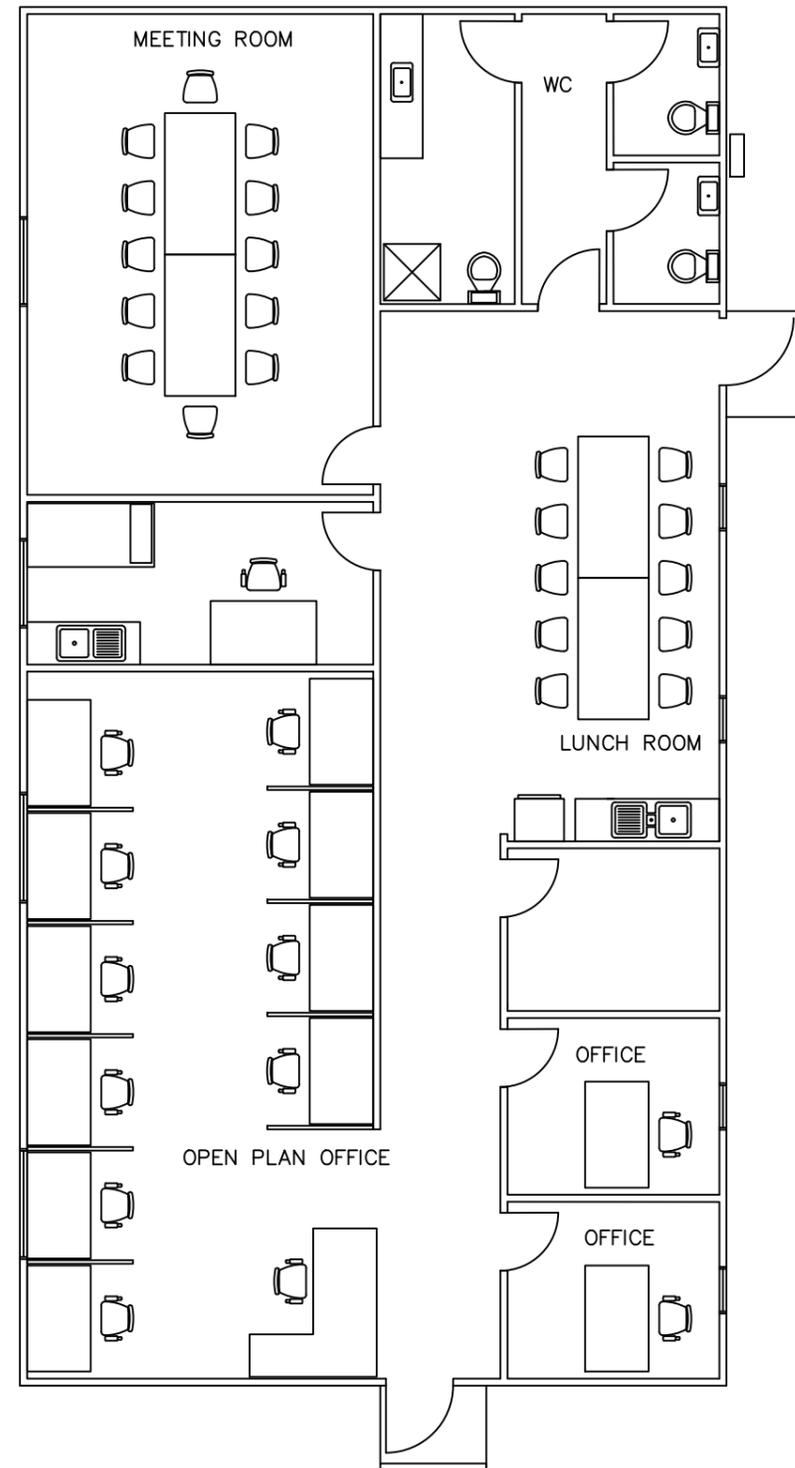


FIGURE 12

TYPICAL OPERATIONS AND MAINTENANCE AREA

FLOOR PLAN
OFFICE



NOTES:

LAYOUTS AND DIMENSIONS ARE INDICATIVE ONLY TO SHOW GENERAL ARRANGEMENT CONCEPTS AND ALL DETAILS ARE SUBJECT TO FINAL DESIGN;

LANDSCAPING TO BE UNDERTAKEN IN ACCORDANCE WITH LANDSCAPE AND VISUAL IMPACT ASSESSMENT REPORT

BUILDINGS TO COMPLY WITH AUSTRALIAN STANDARDS, BCA AND LOCAL COUNCIL REQUIREMENTS;

OFFICE AND MAINTENANCE BUILDING ROOF AREA TO BE UTILIZED FOR RAINWATER CATCHMENT;

BUILDING ARE NOT WITHIN A FLOOD ZONE BUT THE SURROUNDING GROUND DRAINAGE NETWORK SHALL BE DESIGNED TO WITHSTAND A 1:100 YEAR STORM FLOW AT THE SITE;

TO BE LOCATED IN A SECURED FENCED AREA;

BUILDING COLOUR MUST NOT UNREASONABLY CONTRAST WITH SURROUNDING LANDSCAPE.

MAX OFFICE DIMENSIONS

- W = 10 m
- L = 20 m
- H = 7.5 m

HARDSTAND AREA TO CONSISTING OF COMPACTED SANDSTONE TO PROVIDE A CLEAN AND FIRM SURFACE SUITABLE FOR CABINS AND HEAVY TRAFFIC

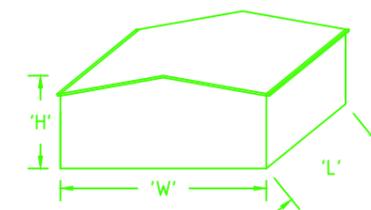
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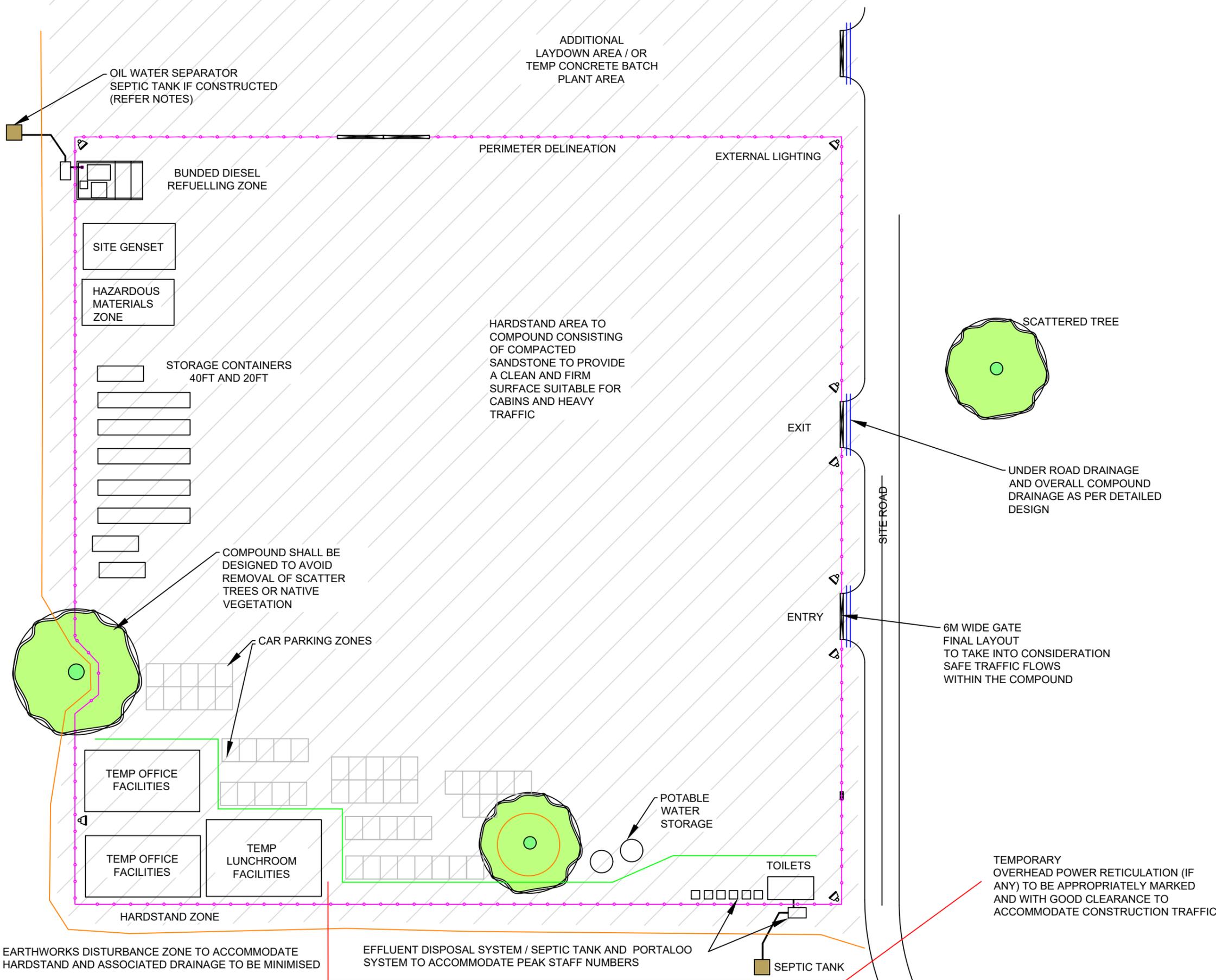
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TWIN CREEK WIND FARM

FIGURE 13

TYPICAL TEMPORARY CONSTRUCTION COMPOUND



- LEGEND**
- OPTIONAL SECURITY FENCE
 - HARDSTAND / SANDSTONE GRAVEL AREA
 - POSSIBLE SEPTIC TANK
 - TEMP OVERHEAD POWER LINE
- NOTES:**

COMPOUND EQUIPMENT AND FACILITIES ARE INDICATIVE, BUT SHALL BE CONSTRUCTED ACCORDING TO THE PRINCIPLES NOTED ON THIS PLAN AND AS PER THE APPROVED MANAGEMENT PLANS, INCLUDING:

1. SEDIMENT AND EROSION MANAGEMENT PLAN
2. HAZARDOUS WASTE MANAGEMENT PLAN
3. ENVIRONMENTAL MANAGEMENT PLAN

REFUELLING ZONE FOR STAFF VEHICLES SHALL BE BUND PROTECTED AND RUN OFF AREA SHALL BE TREATED VIA SEPARATOR AND / OR BY CERTIFIED TANKER REMOVAL AS PER MANAGEMENT PLANS, STATUTORY REQUIREMENTS AND OTHER BEST PRACTICE GUIDELINES.

FOR INDICATIVE LOCATION OF TEMPORARY CONSTRUCTION COMPOUND REFERS TO FIGURE 2;

TEMPORARY COMPOUNDS IS LOCATED ON: SECTION 284 HUNDRED OF BELVIDERE IN THE AREA NAMED ST KITTS CERTIFICATE OF TITLE - VOLUME 5618 FOLIO 688;

- CONSTRUCTION COMPOUND ~ 1.5 Ha (100m x 150m)
- LAYDOWN AREA ~ 0.5 Ha (100m x 50m)

LAYOUT DWG	N/A	T-LAYOUT NO.	N/A
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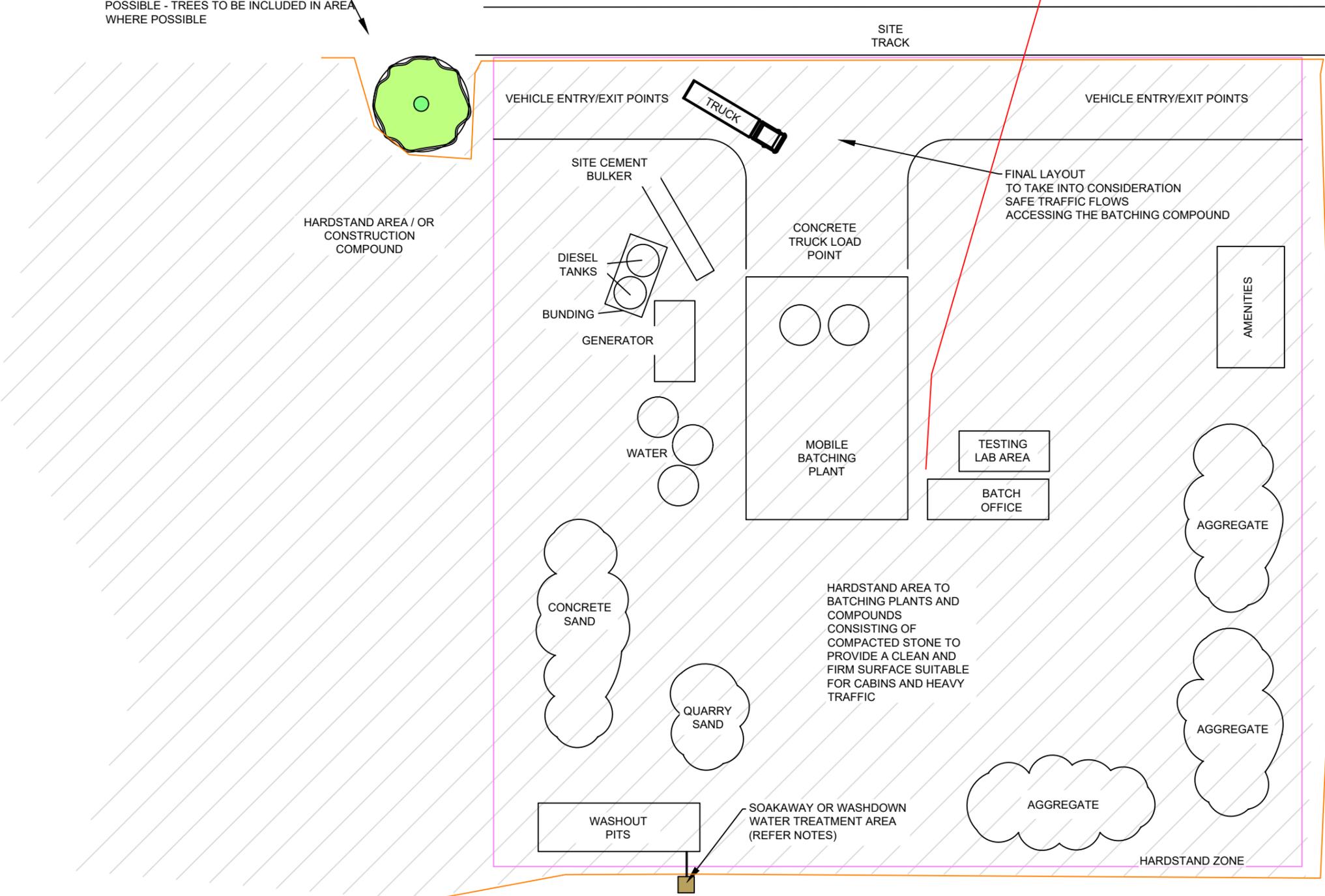
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FIGURE 14

TYPICAL CONCRETE BATCHING PLANT

TEMPORARY OVERHEAD POWER RETICULATION (IF ANY) TO BE APPROPRIATELY MARKED AND WITH SUFFICIENT CLEARANCE TO ACCOMMODATE CONSTRUCTION TRAFFIC

HARDSTAND SHALL BE DESIGNED TO AVOID REMOVAL OF SCATTER TREES WHERE POSSIBLE - TREES TO BE INCLUDED IN AREA WHERE POSSIBLE



LEGEND

- TYPICAL BATCHING AREA
- HARDSTAND / GRAVEL AREA
- TEMP OVERHEAD POWER LINE

NOTES:

COMPOUND EQUIPMENT AND FACILITIES ARE INDICATIVE, BUT SHALL BE CONSTRUCTED ACCORDING TO THE PRINCIPALS NOTED ON THIS PLAN AND AS PER THE APPROVED MANAGEMENT PLANS, INCLUDING:

1. SEDIMENT AND EROSION MANAGEMENT PLAN
2. CONSTRUCTION AND ENVIRONMENTAL MANAGEMENT PLAN
3. ENVIRONMENTAL MANAGEMENT PLAN

CONCRETE TRUCK WASHOUT ZONE RUN OFF SHALL BE TREATED VIA RETENTION SETTLEMENT POND AS PER MANAGEMENT PLANS, STATUTORY REQUIREMENTS OR OTHER BEST PRACTICE GUIDELINES.

FOR LOCATION OF BATCHING PLANT COMPOUND REFERS TO FIGURE 2;

THE CONCRETE BATCHING COMPOUND IS LOCATED ON: SECTION 278 HUNDRED OF BELVIDERE IN THE AREA NAMED ST KITTS CERTIFICATE OF TITLE VOLUME 5618 FOLIO 693.

INDICATIVE SIZE:

TYPICAL BATCHING AREA 80m X 131m



LAYOUT DWG	N/A	T-LAYOUT NO.	N/A
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03498-RES-LAY-DR-PT-001	1

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TWIN CREEK WIND FARM

FIGURE 15

**TYPICAL SUBSTATION
AND
CONTROL BUILDING**

PHOTO OF A TYPICAL SUBSTATION



PHOTO OF A TYPICAL CONTROL BUILDING



NOTES:

- SUBJECT TO DETAILED DESIGN;
- FACILITY LOCATED IN A SECURED COMPOUND WITH FENCING TO APPROX. 2.5m HEIGHT.
- INFRASTRUCTURE IS LOCATED IN LOT SECTION 278, HUNDRED OF BELVIDERE IN THE AREA NAMED ST KITTS, CERTIFICATE OF TITLE - VOLUME 5618 FOLIO 693.
- WIND FARM SUBSTATION (150m x 150m)
- TERMINAL STATION (200m x 100M)
- REFER TO FIGURE 11A AND 11B FOR INFRASTRUCTURE DETAILS.

LAYOUT DWG	N/A	T-LAYOUT NO.	N/A
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DRAWING NUMBER	03498-RES-UTI-DR-PT-001	REV	1
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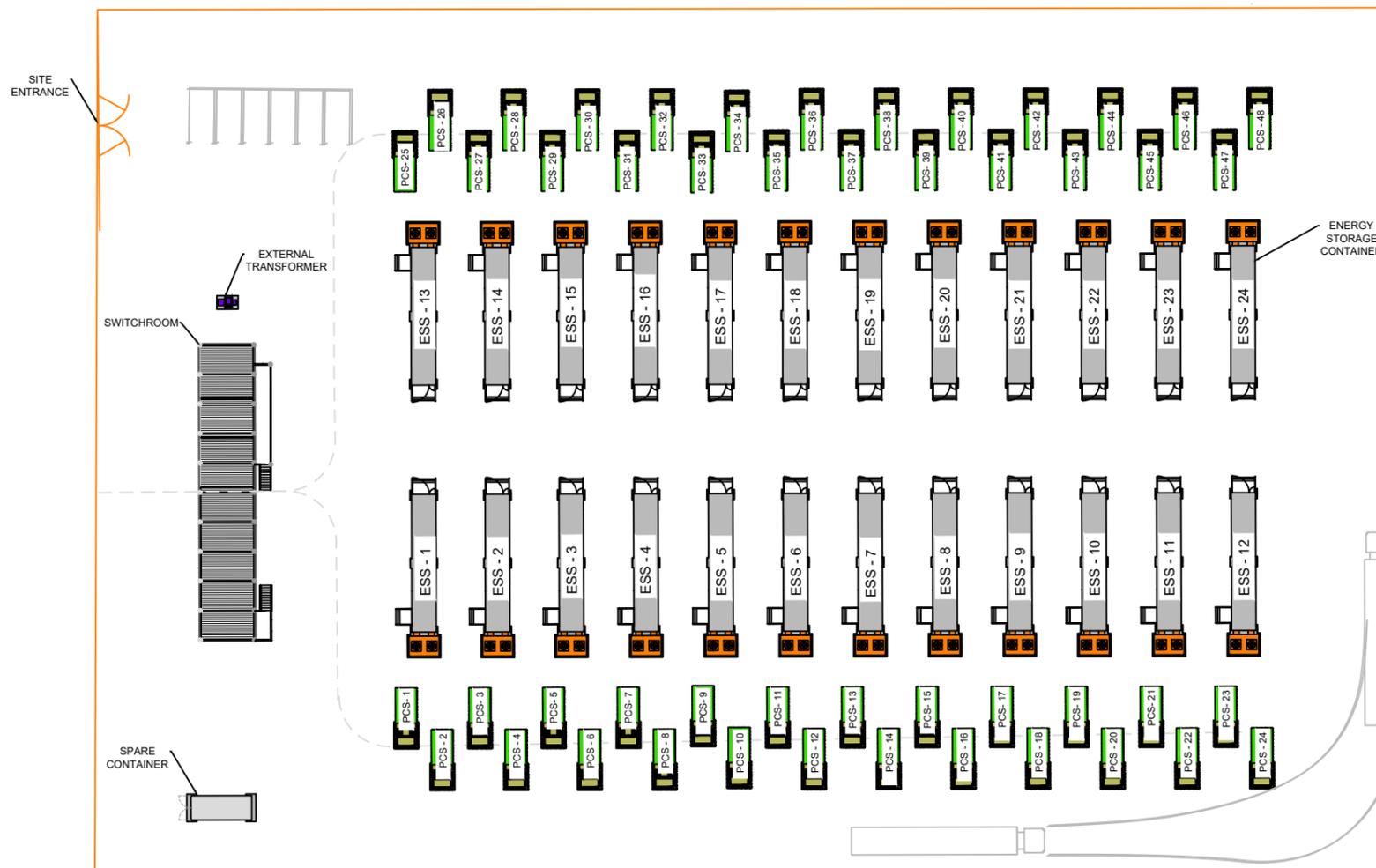
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TWIN CREEK WIND FARM

FIGURE 16

BATTERY ENERGY STORAGE FACILITY



LEGEND

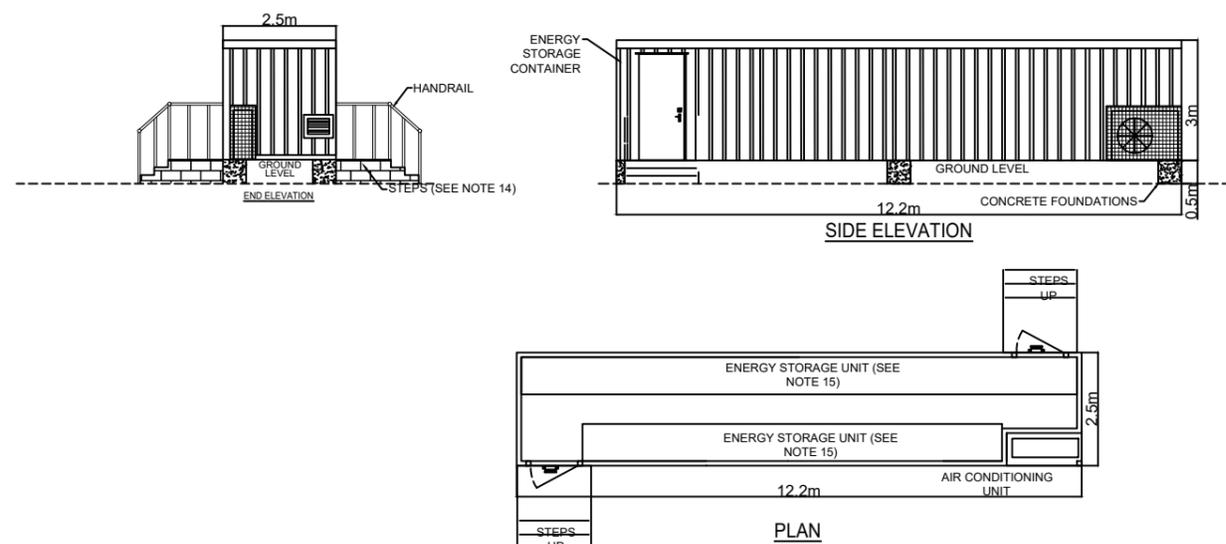
- POWER CONVERSION SYSTEM - PCS
- TRANSFORMER
- AUXILIARY TRANSFORMER
- STORAGE AREA
- DOOR
- PASSIVE INFRARED LIGHTING (PLAN)
- PASSIVE INFRARED LIGHTING (ELEVATION)

NOTES:

1. BATTERY STORAGE SITE BOUNDARY APPROXIMATE 1.1 HAS;
2. SUBJECT TO FINAL DESIGN AND LICENCING REQUIREMENTS
3. SITE TO BE ENCLOSED AROUND PERIMETER BY 2m SECURITY FENCING;
4. CAR PARK FOR UP TO SIX VEHICLES TO BE PROVIDED;
5. ALL DIMENSIONS ARE APPROXIMATE;
10. ALL CABLING TO BE UNDERGROUND OR ON CABLING TRAY;
11. FOUNDATIONS ARE INDICATIVE AND SUBJECT TO ACTUAL ELECTRICAL EQUIPMENT DETAILS;
12. DOOR AND STEPS POSITIONS ARE INDICATIVE AND SUBJECT TO DETAILED DESIGN;
13. APPROXIMATE FINISHED FLOOR LEVEL 0.5m ABOVE EXISTING GROUND LEVEL;
14. STEPS TO BE EITHER CONSTRUCTED ON SITE FROM MASS CONCRETE OR MASONRY BLOCKS OR PREFABRICATED OFF SITE AND INSTALLED ON SITE FOLLOWING POSITIONING OF THE STORAGE UNIT;
15. THE LOCATION AND SIZE OF ENERGY STORAGE UNIT WITHIN THE CONTAINER TO BE DETERMINED AT DETAILED DESIGN STAGE;
16. EXTERNAL COLOUR OF ENERGY STORAGE UNIT MUST NOT UNREASONABLY CONTRAST WITH SURROUNDING LANDSCAPE;
17. FIRE SUPPRESSION SYSTEM INTERNAL TO CONTAINER;
18. ENERGY STORAGE FACILITY LOCATED WITHIN SECTION 278 HUNDRED OF BELVIDERE IN THE AREA NAMED ST KITTS CERTIFICATE OF TITLE - VOLUME 5618 FOLIO 693;
19. CONTAINER-INVERTER CONFIGURATION WILL BE DEFINED DURING THE DETAILED DESIGN. ENERGY STORAGE CAPACITY SUBJECT TO LICENCING REQUIREMENTS.

TYPICAL ENERGY STORAGE CONTAINER

TYPICAL ENERGY STORAGE CONTAINER



LAYOUT DWG	N/A	T-LAYOUT NO.	N/A
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TWIN CREEK WIND FARM

FIGURE 17 CABLE RETICULATION LAYOUT

SOURCE DATA © GOVERNMENT OF SOUTH AUSTRALIA
(DEPARTMENT FOR ENVIRONMENT & WATER).

- TURBINE LOCATIONS
- PRINCIPAL SITE ENTRANCE
- ACCESS TRACK
- BATTERY ENERGY STORAGE AREA (BESS)
- TEMPORARY MOBILE CONCRETE BATCHING PLANT
- TEMPORARY WIND FARM CONSTRUCTION COMPOUND
- TEMPORARY WIND FARM LAYDOWN AREA
- OPERATION AND MAINTENANCE
- SUBSTATION
- DISTURBANCE FOOTPRINT
- PLANNING CORRIDOR
- RETICULATION LAYOUT
- GRID ROUTE
- GRID ROUTE EASEMENT 50m
- SITE BOUNDARY (2024)
- DEVELOPMENT AREA (2024)



LAYOUT DWG 03498-RES-LAY-DR-TE-003 | LAYOUT NO. PAUSTwc064

DRAWING NUMBER

03498-RES-CBL-DR-TE-001

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COORDS
GDA 1994 MGA Zone 54

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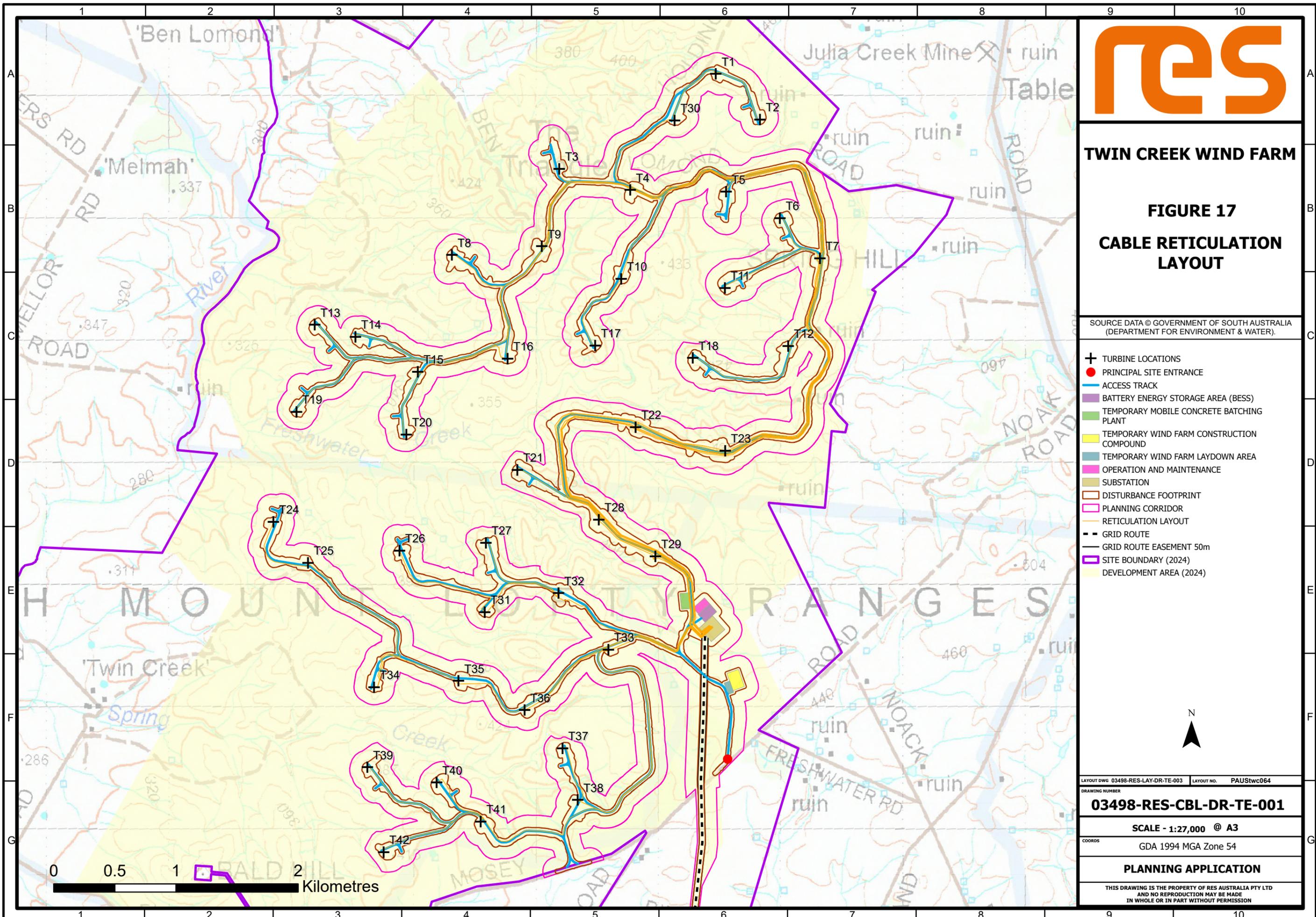
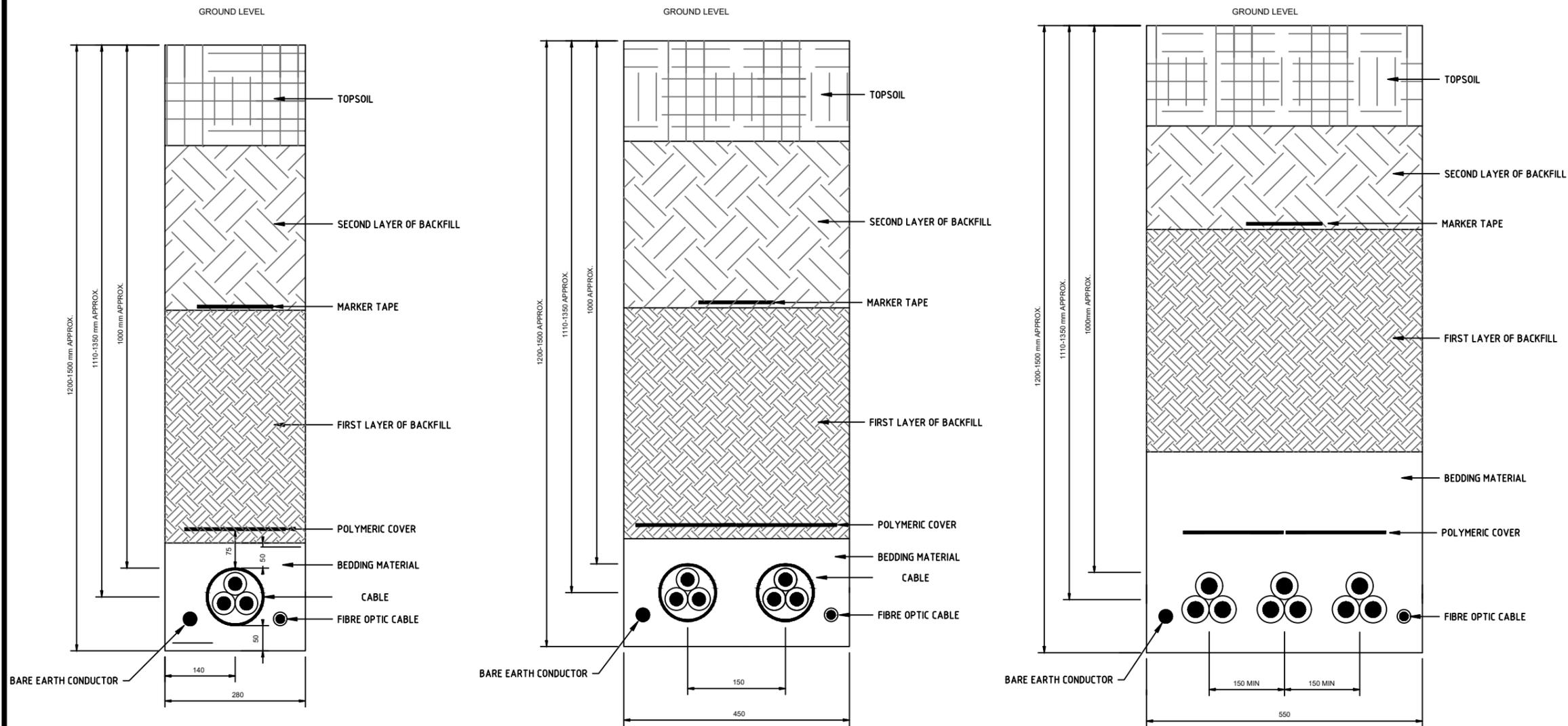


FIGURE 18

ONSITE CABLE TRENCH TYPICAL SECTIONS



NOTES:

1. NUMBER OF CABLES PER TRENCH AND ASSOCIATED TRENCH DEPTHS AND WIDTHS WILL BE SUBJECT TO DETAILED DESIGN;
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

LAYOUT DWG	N/A	T-LAYOUT NO.	N/A
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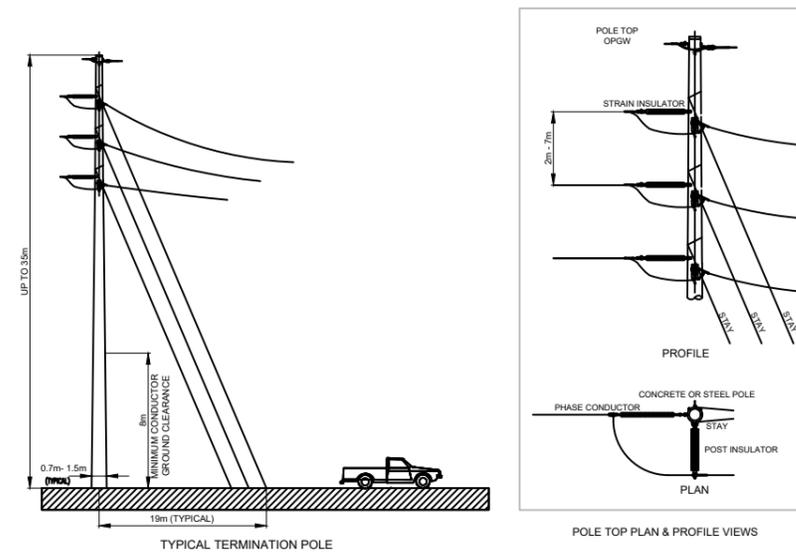
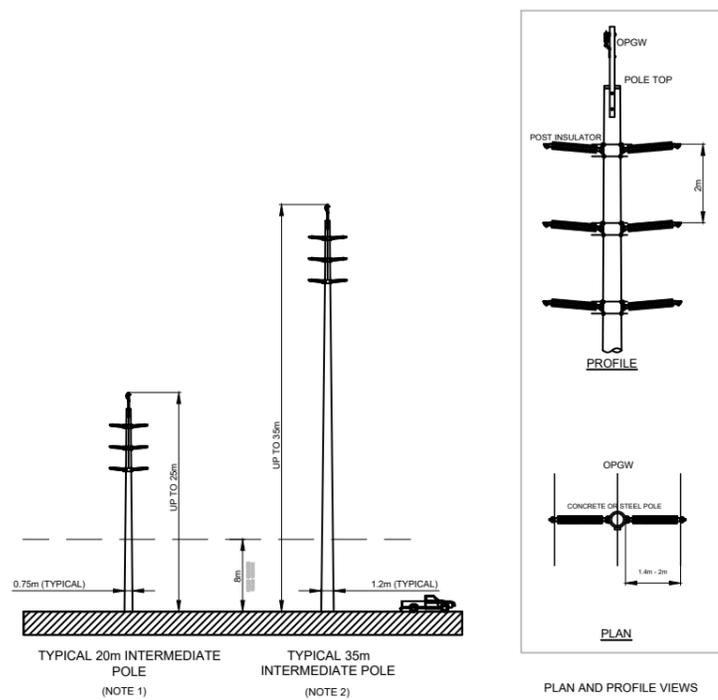
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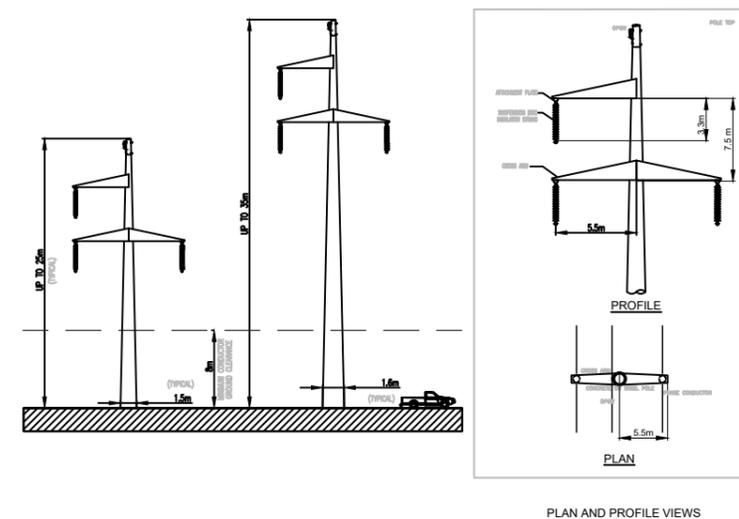
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TWIN CREEK WIND FARM

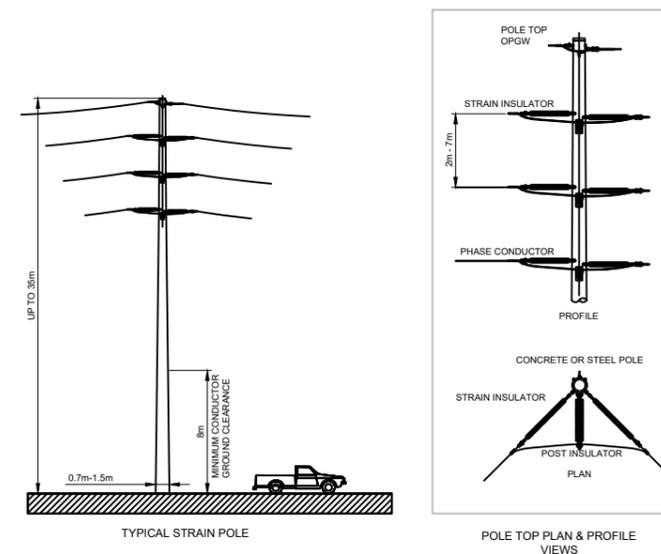
**FIGURE 19
TYPICAL OVERHEAD
LINE POLES**



2 TYPICAL TERMINATION POLE



1 INTERMEDIATE POLE



3 TYPICAL STRAIN POLE

LEGEND

GROUND LEVEL

NOTES:

- POLE HEIGHT BASED UPON TYPICAL SPAN LENGTH OF 200m UP TO 25m;
- POLE HEIGHT BASED UPON TYPICAL SPAN LENGTH OF 400m UP TO 35m;
- SPAN LENGTH, OTHER MEASUREMENTS, ANGLE AND INSULATOR LOCATION, POLE WIDTH AND HEIGHT INCLUDING POLE MATERIALS USED ARE INDICATIVE ONLY AND MAY VARY ACCORDING TO DETAILED DESIGN;
- OPTICAL FIBRE GROUNDWIRE (OPGW) IS SHOWN. OPGW IS AN EARTHING WIRE COMBINED WITH COMMUNICATION CABLES;
- NUMBER OF POLES, CIRCUITS AND INSULATORS ARE SUBJECT TO DETAILED DESIGN.



LAYOUT DWG	N/A	T-LAYOUT NO.	N/A
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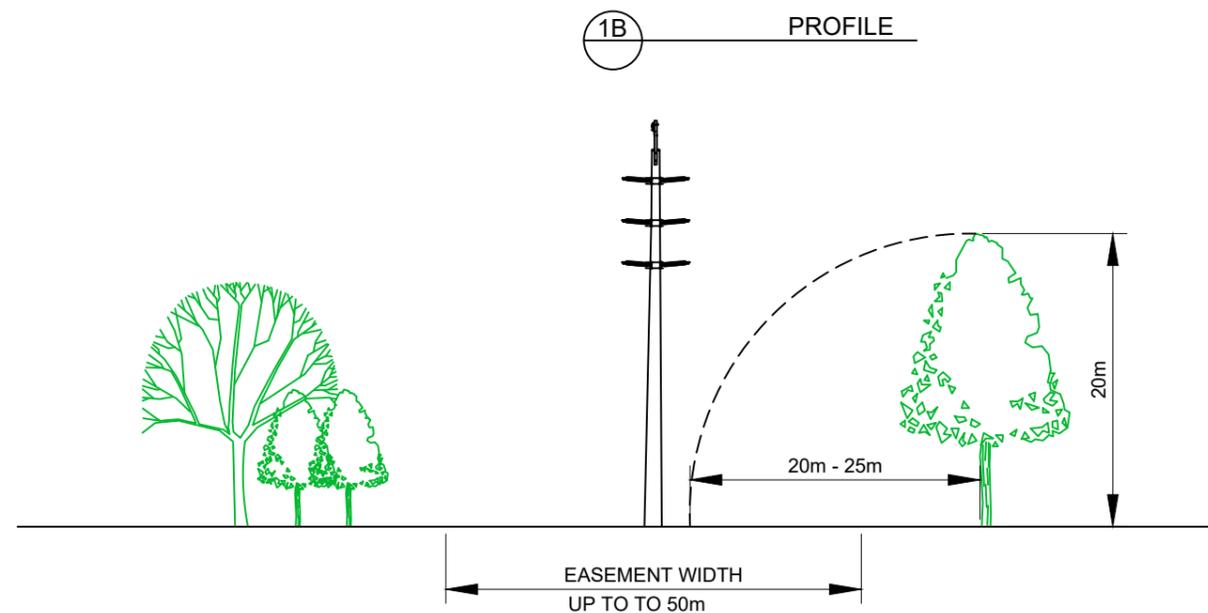
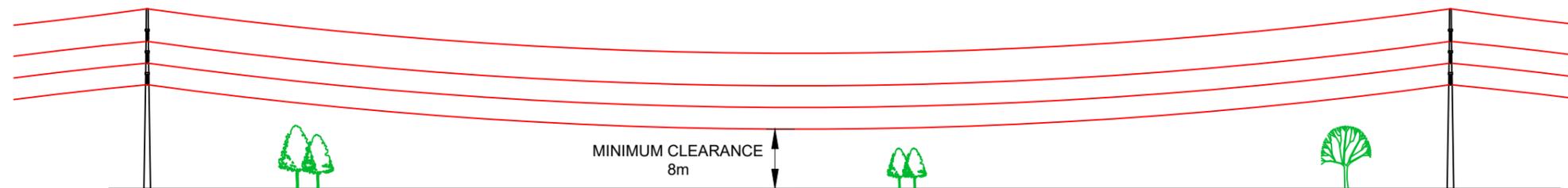
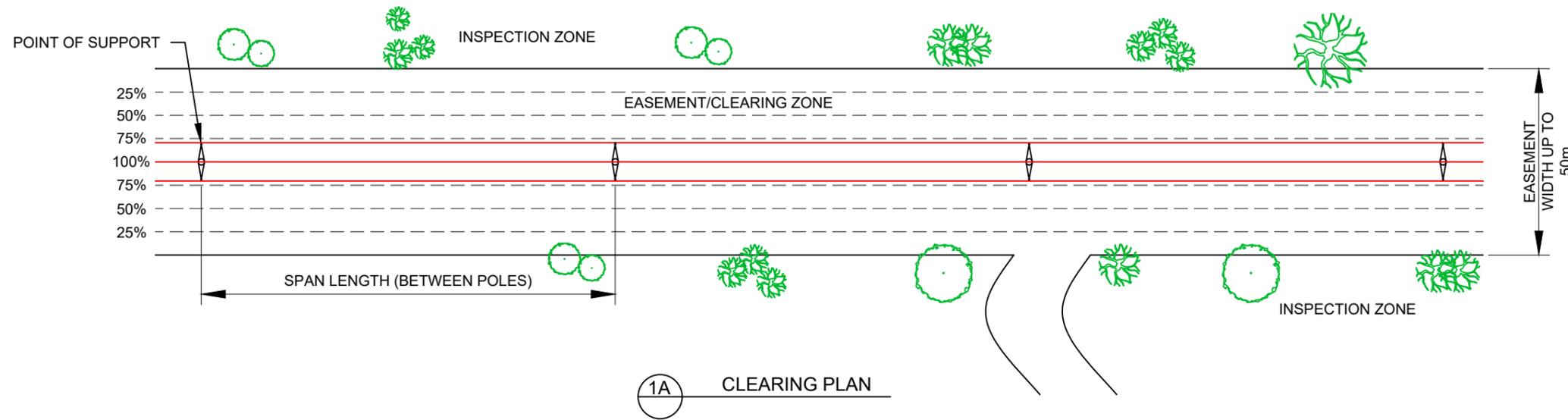
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TWIN CREEK WIND FARM

FIGURE 20

TYPICAL OVERHEAD LINE EASEMENT AND VEGETATION CLEARANCE



NOTES:

1. CLEARING OF TREES AND OTHER VEGETATION FROM TRANSMISSION LINE EASEMENTS IS REQUIRED TO PROTECT THE SECURITY OF THE LINES AND PREVENT BUSHFIRE HAZARDS.
2. WITHIN THE INSPECTION ZONE, ON EACH SIDE OF THE CLEARING ZONE, REMOVAL IS REQUIRED OF ALL PLANTS THAT ARE LIABLE TO BREAK OR BE BLOWN ONTO THE LINE. TALL TREES ARE TO BE NO CLOSER TO POWERLINES THAN A DISTANCE EQUAL TO THEIR MATURE HEIGHTS [REF 2] ;
3. ALL DETAILS SUBJECT TO FINAL DESIGN;
4. VEGETATION AROUND TRANSMISSION LINES CAN CAUSE POWER OUTAGES, DAMAGE TO THE LINES, OR THE RISK OF FIRE START.

2 TALL TREES OUTSIDE THE EASEMENT - SEE NOTE 4

3 TYPICAL PHOTO - EASEMENT CLEARANCE

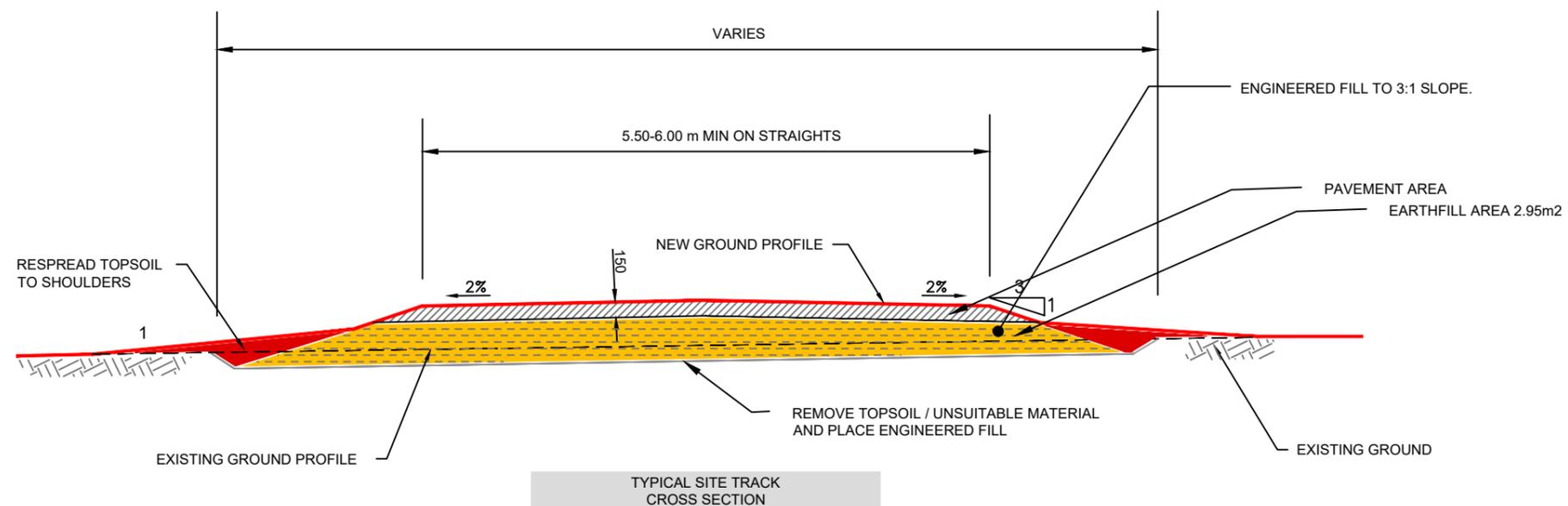
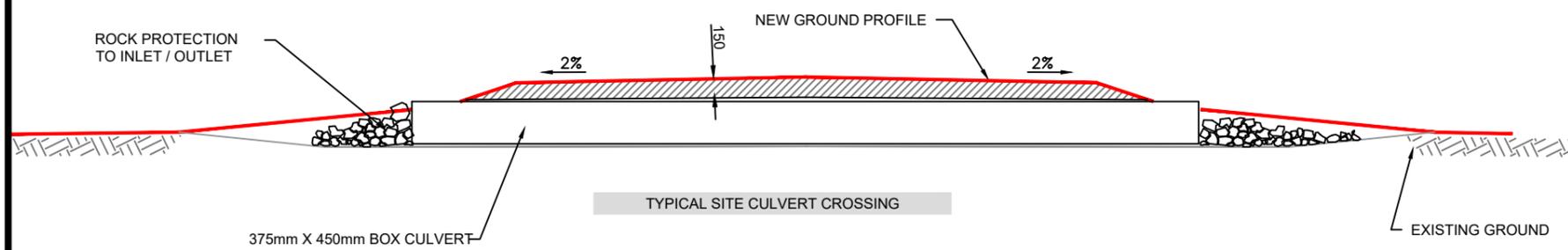
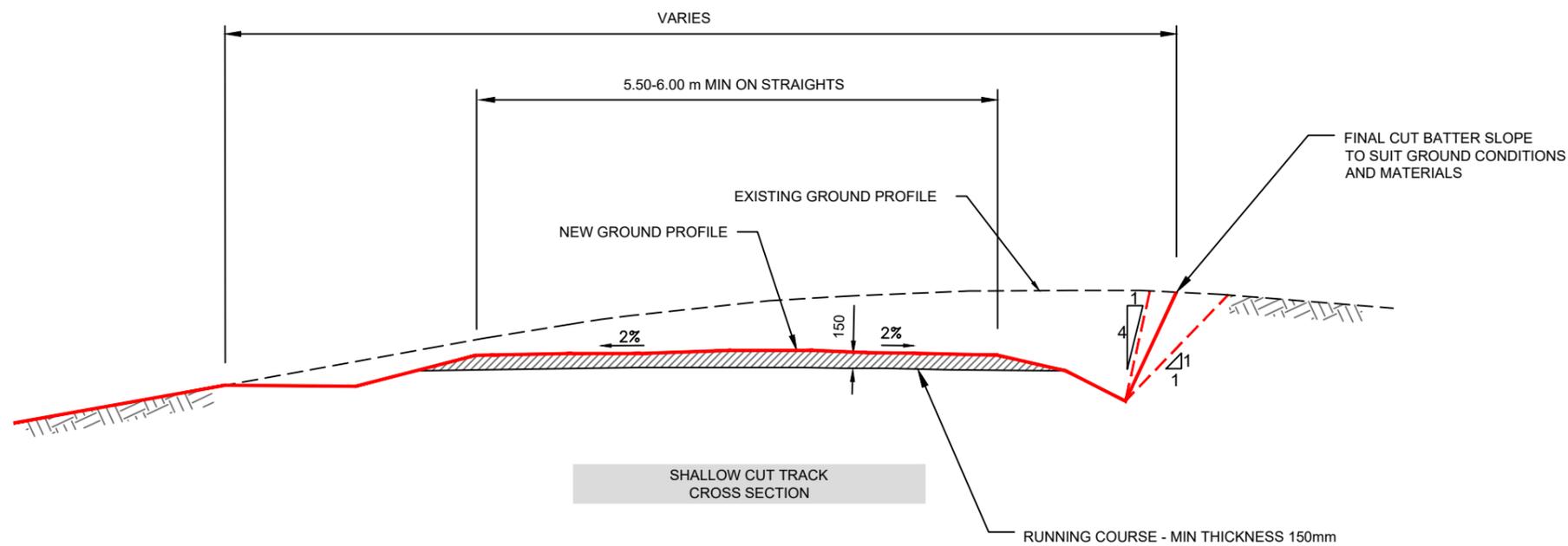
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LEGEND

- EXISTING GROUND PROFILE
- FINISHED GROUND PROFILE
- FINISHED GROUND ALTERNATIVES
- ENGINEERED FILL
- CRUSHED STONE PAVEMENT
- EXISTING GROUND
- RESPREAD TOPSOIL

NOTES:

GENERAL SITE ROAD DETAILS SHOWN, WHERE POSSIBLE AREAS OF FILL TO BE AVOIDED, ADDITIONAL WIDENING OF TRACK REQUIRED ON CORNERS AND PASSING BAYS TO ACCOMMODATE TRAFFIC;

ADDITIONAL TEMPORARY TRACK WIDENING MAY BE REQUIRED FOR CRANE MOVEMENTS. WIDENED ZONES TO BE REMOVED AT THE DISCRETION OF THE REGULATING AUTHORITY;

ALL MEASUREMENTS ARE INDICATIVE BUT FINAL DESIGN WILL BE IN ACCORDANCE WITH WHAT IS SHOWN.

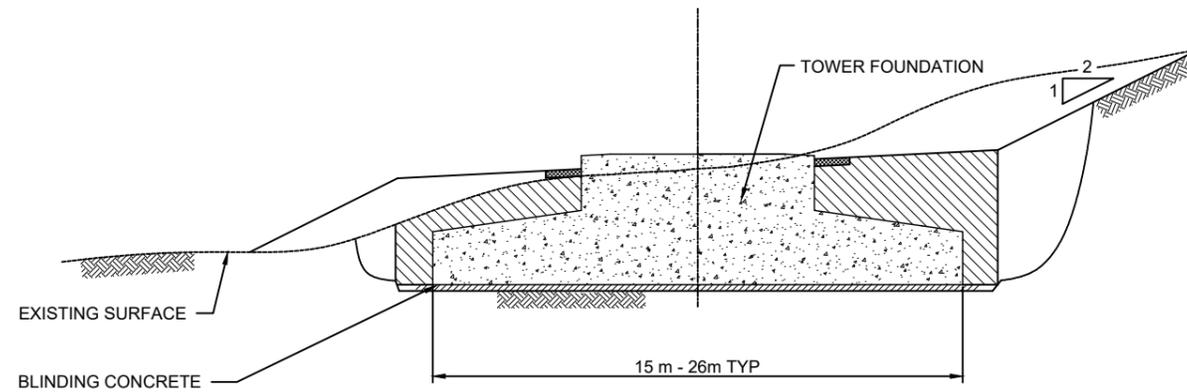
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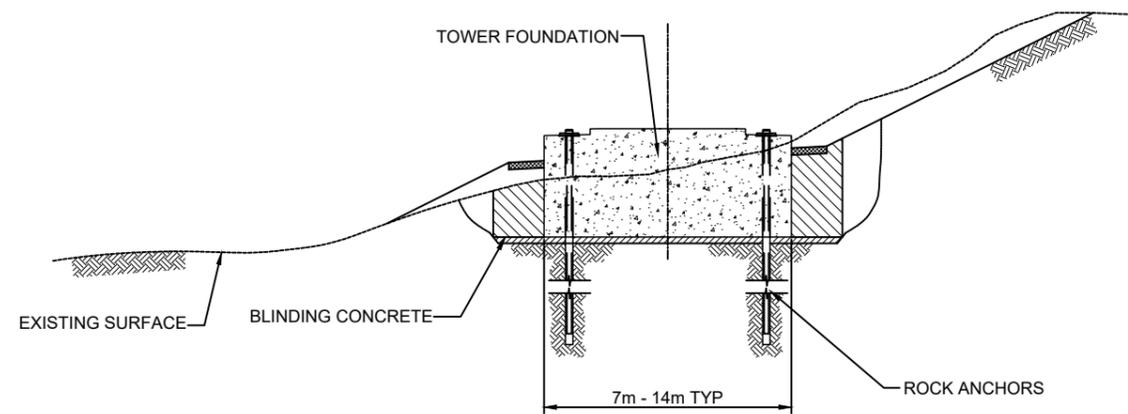
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**FIGURE 22
TYPICAL TURBINE
FOUNDATION**



TYPICAL GRAVITY FOUNDATION
N.T.S



TYPICAL ROCK ANCHORED FOUNDATION
N.T.S

NOTES:

DIMENSIONS AND DETAILS ARE INDICATIVE ONLY AND MAY VARY DUE TO SPECIFIC TURBINE OR GROUND CONDITIONS;

PRELIMINARY DESIGN ONLY. SUBJECT TO CHANGE FOLLOWING GEOTECHNICAL INVESTIGATION AND DETAILED DESIGN;

INDICATIVE DIMENSIONS ARE IN METRES;

BACKFILL MAY BE RAISED TO PROVIDE ADDITIONAL SUPPORT TO FOUNDATION DEPENDING ON FINAL DESIGN REQUIREMENT.



LAYOUT DWG	N/A	T-LAYOUT NO.	N/A
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TWIN CREEK WIND FARM

**FIGURE 23
TYPICAL FRONT & SIDE
ELEVATION
OF A WIND TURBINE**

NOTES:

1. TIP HEIGHT WILL NOT EXCEED 220m FROM TOP OF FOUNDATION LEVEL;
2. TOWERS WILL BE TUBULAR;
3. NUMBER OF ROTOR BLADES IS THREE;
4. TOWERS, NACELLES AND ROTOR BLADES TO BE A NON REFLECTIVE FINISH AND COLOUR;
5. EXTERNAL STAIRS SUBJECT TO FINAL DESIGN.



LAYOUT DWG N/A LAYOUT NO. N/A

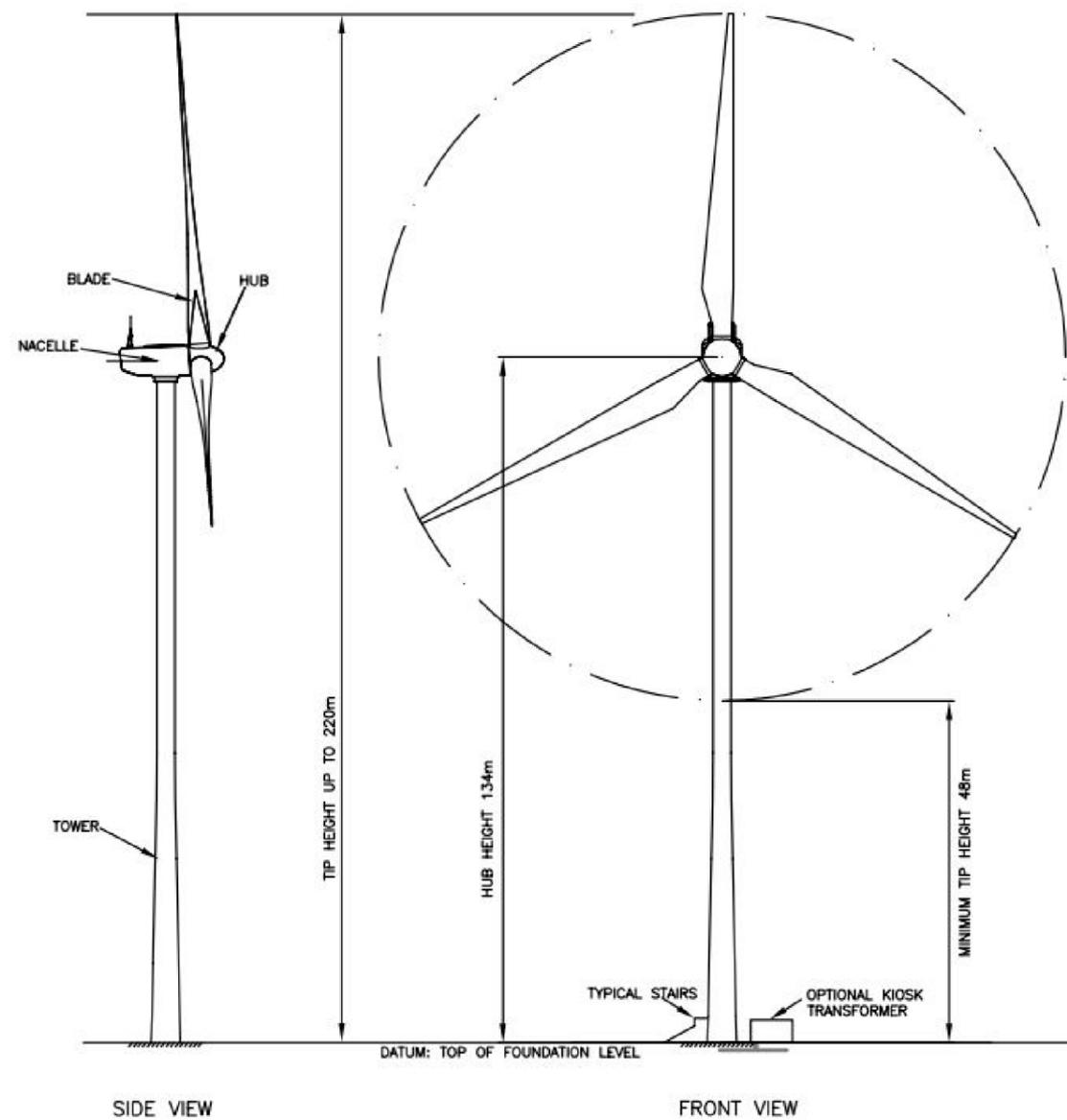
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COORDS
N/A

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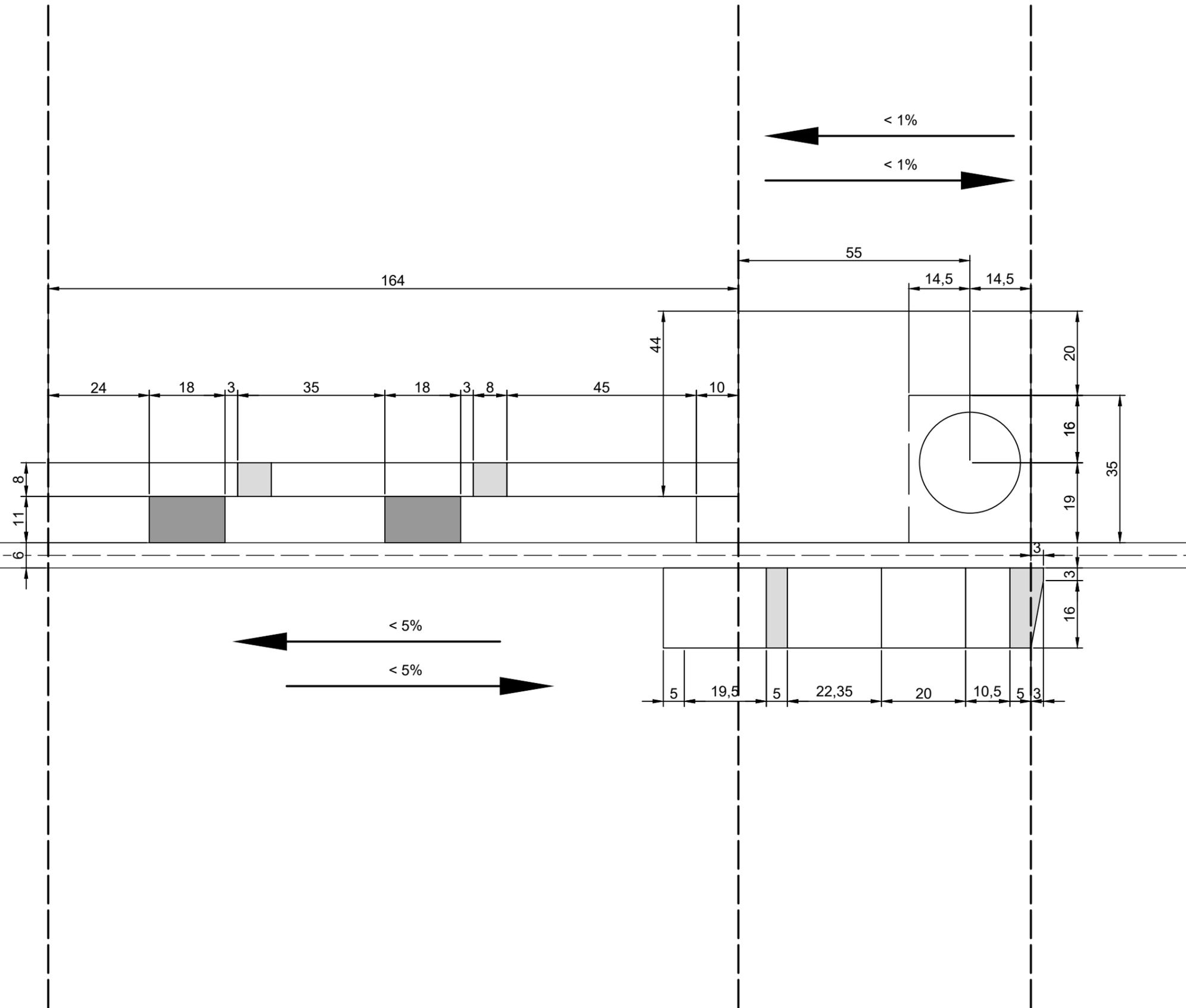
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PHOTOGRAPH OF TYPICAL TURBINE

TWIN CREEK WIND FARM

FIGURE 24
TYPICAL CRANE/TURBINE HARDSTAND



NOTES:

SUBJECT TO FINAL DESIGN;

EXAMPLE CRANE ARRANGEMENT INDICATIVE - FINAL SIZE AND SHAPE OF PAD TO SUIT PROJECT SPECIFIC CRANE. TOTAL AREA OF HARDSTAND AND EARTHWORKS WORKING ZONE TO BE MINIMISED TO REDUCE IMPACTS, ANY ADDITIONAL HARDSTAND AREA BEYOND PERMITTED 3,400m² MAY REQUIRE REMOVAL POST CONSTRUCTION;

ALL HARDSTANDS TO BE CONSTRUCTED IN CRUSHED ROCK / SANDSTONE;

ALL HARD STANDING AREAS TO BE BUILT UP FROM HARD UNDERLYING MATERIAL TO BE SUITABLE TO SUPPORT CRANE OUTRIGGERS.

GRADE LIMITATION OF CRANE BOOM AREA MAY POTENTIALLY INCREASE TO +-13% ON COMPLEX AREAS.

LAYOUT DWG	N/A	T-LAYOUT NO.	N/A
DRAWING NUMBER	03498-RES-LAY-DR-PT-002	REV	2
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