Vestas V66 1.75 MW Wind Turbine

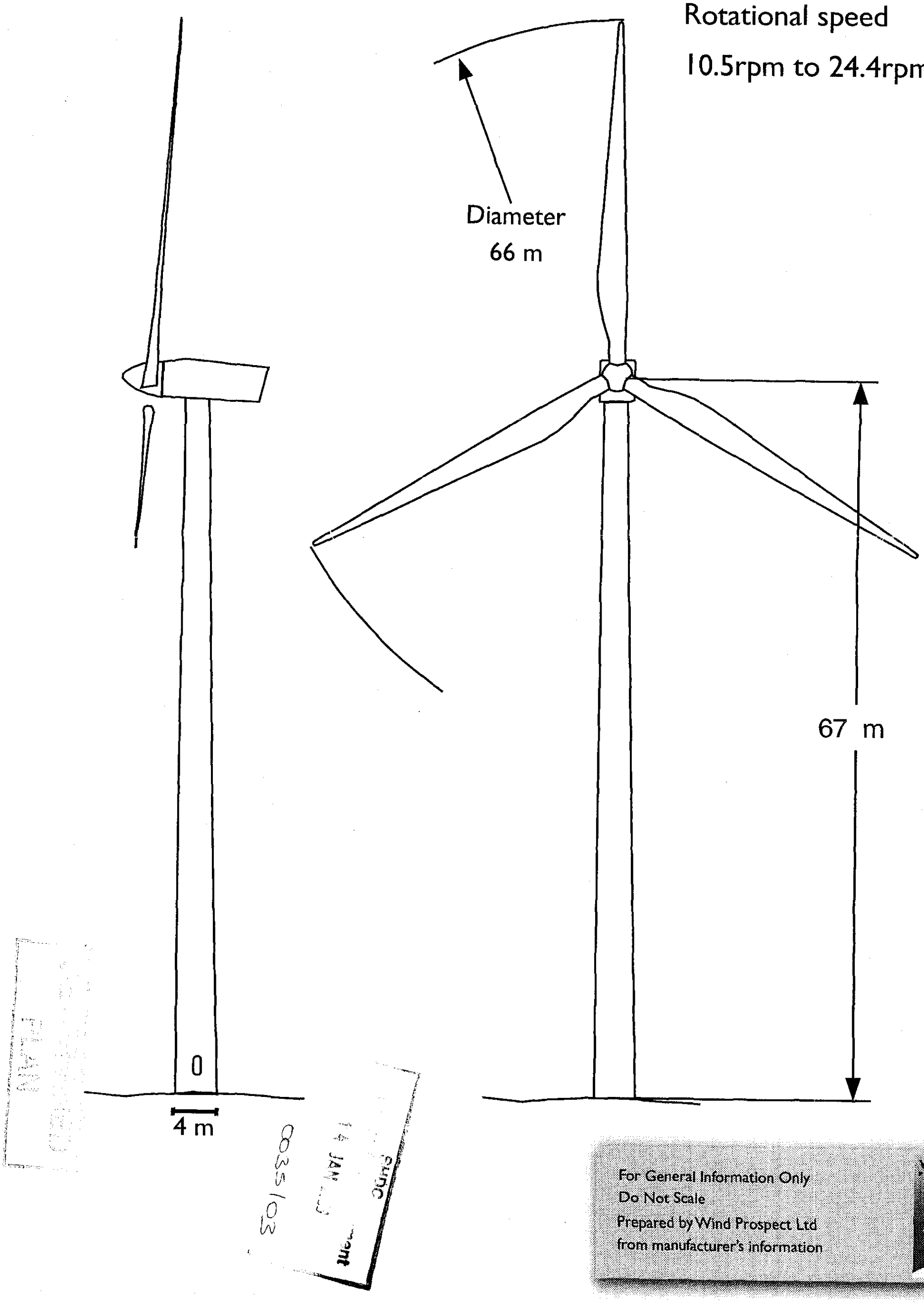
Rotor Diamater 66 m Tower Height 67 m

Operational wind speed

4m/s to 25m/s

Rotational speed

10.5rpm to 24.4rpm

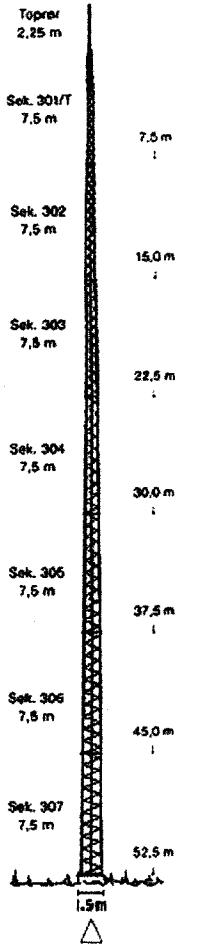


For General Information Only
Do Not Scale
Prepared by Wind Prospect Ltd
from manufacturer's information

Red House Farm
Windcluster

Elevation of Anemometry Mast and Switchgear Building

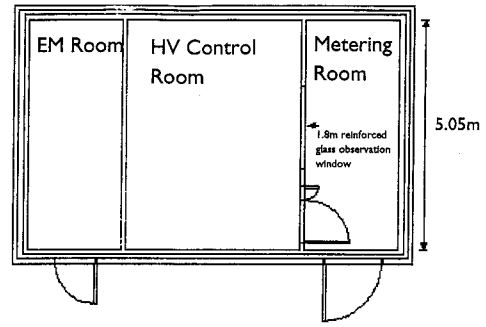
50m Anemometry Mast

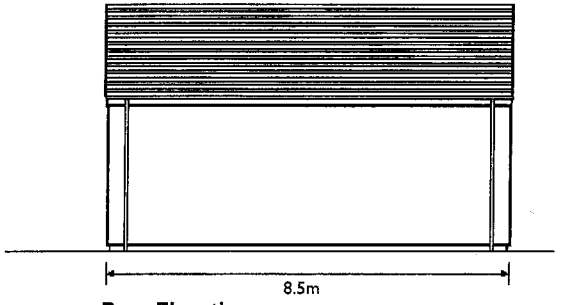


Self Supporting Lattice Towers SERIES (7.5 - 52.5m)

The lattice towers are constructed of sections which are equilateral triangular in cross section. The sections are fully welded with edgers and lattices of round bar steel.

Typical Switchgear Plan and Elevation

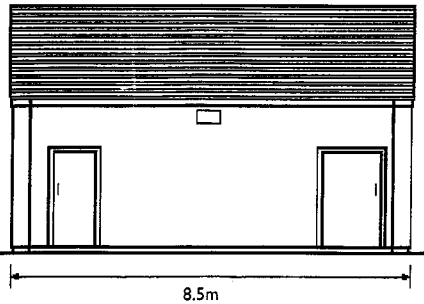




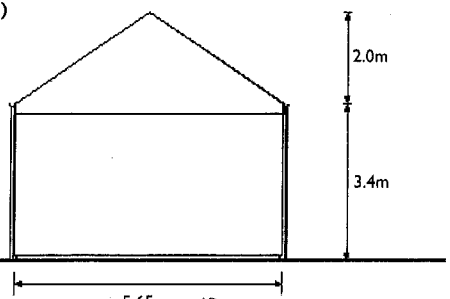
Rear Elevation



Scale (metres)

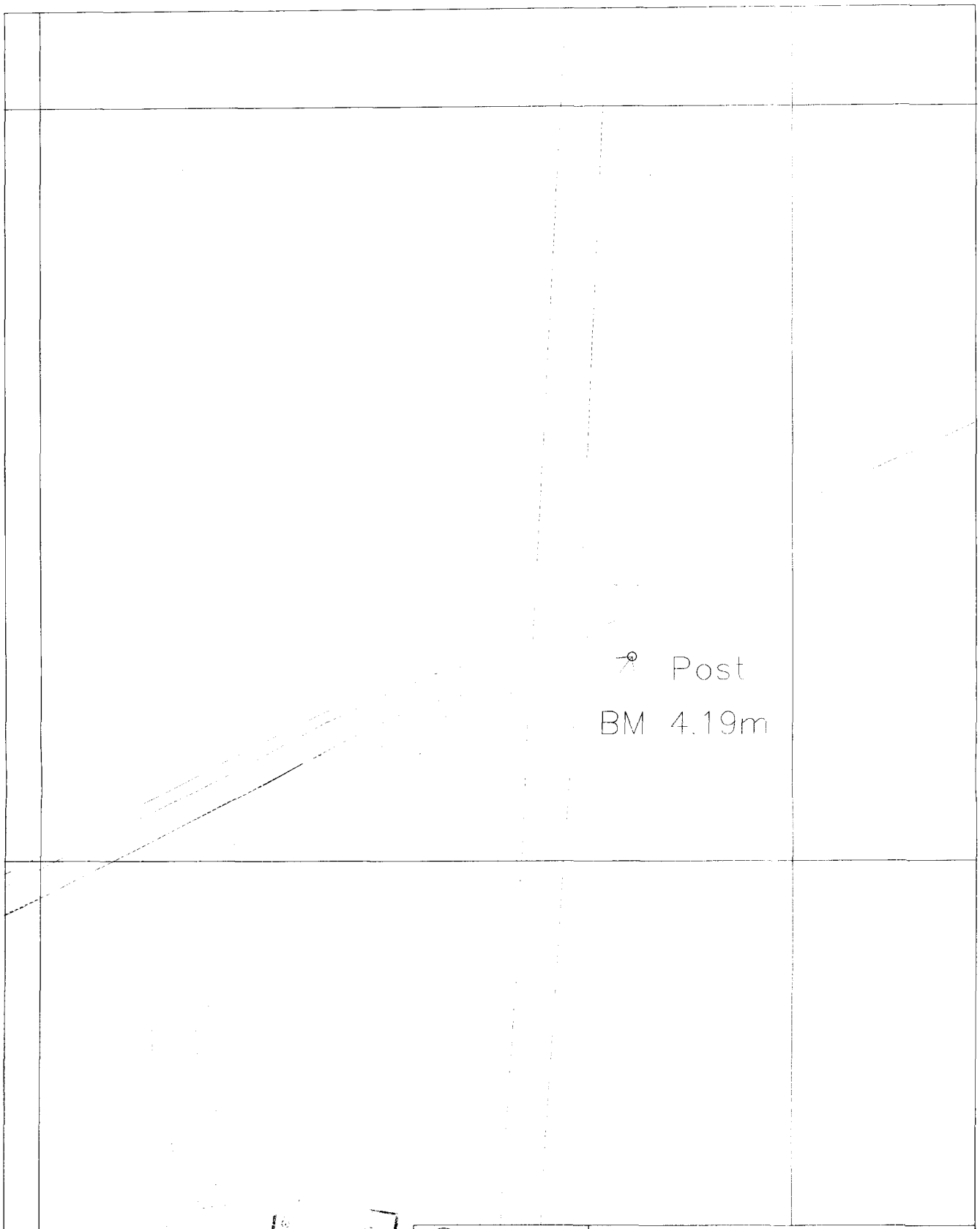


Front Elevation



Side Elevation (both)

SHDC
14
0035/05



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SHDC
Planning Department
14 JAN 2003
08/51/03

Wind Turbine

Crane Hardstanding

Upgrade Tracks

COMPANY

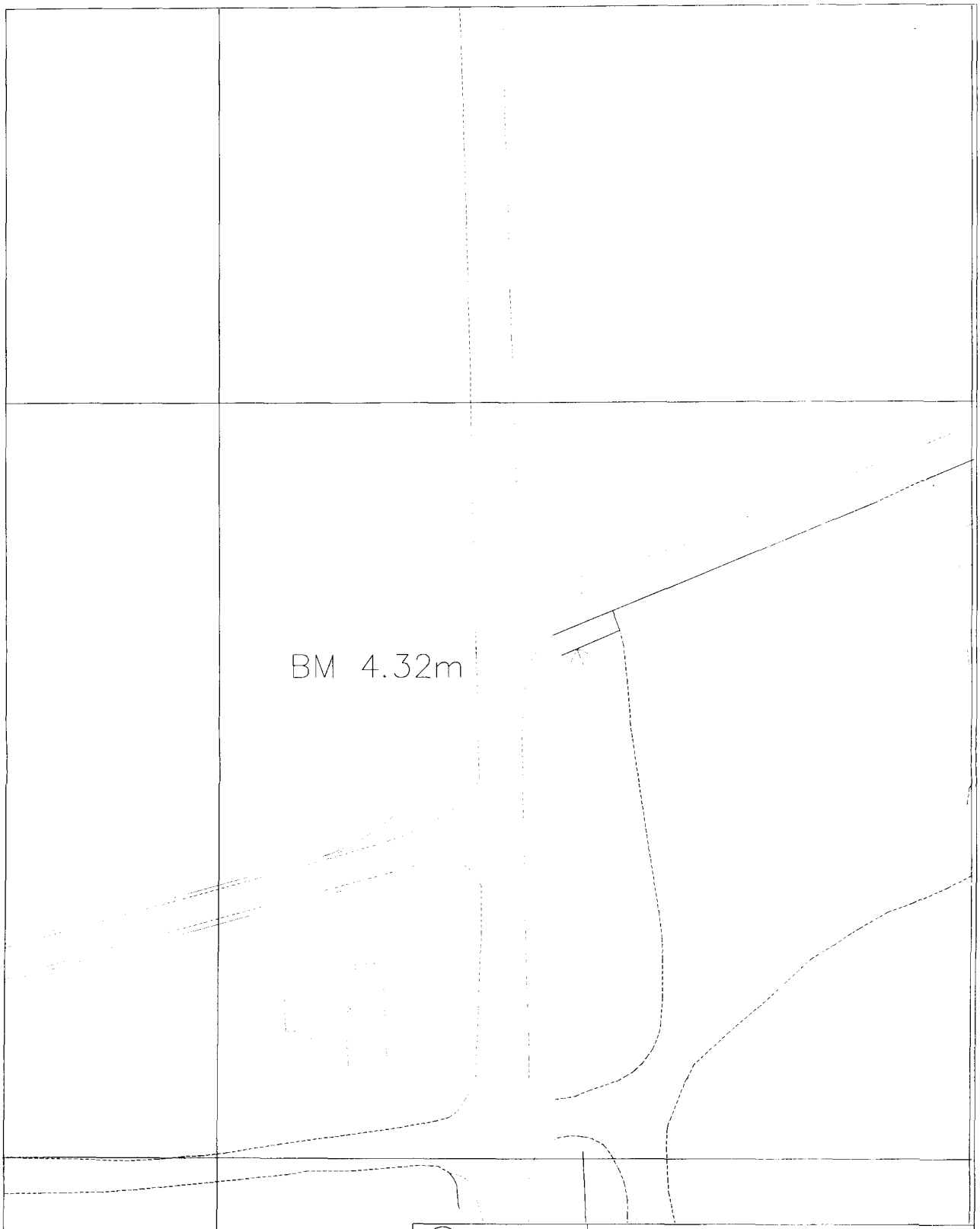
WIND PROSPECT DEVELOPMENTS LTD

TITLE

Corner 1

SIZE	CAGE CODE	DWG NO	REV
A3		T3-001	A

SCALE		SHEET
1:500		1



Wind Turbine

Crane
Hardstanding

Upgrade Tracks

COMPANY

WIND PROSPECT DEVELOPMENTS LTD

TITLE

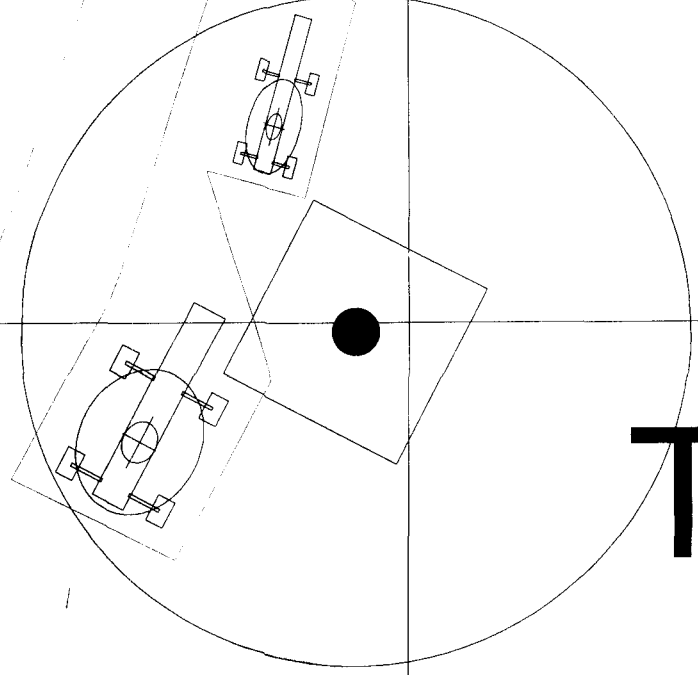
Corner 2

SIZE	CAGE CODE	DWG NO	REV
A3		T3-001	A

SCALE 1:500 SHEET 1

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14 JAN 2003
0035/03



T1

Wind Turbine

Crane Hardstanding

New Tracks

COMPANY

WIND PROSPECT DEVELPOPMENTS LTD

TITLE

TURBINE NO.1

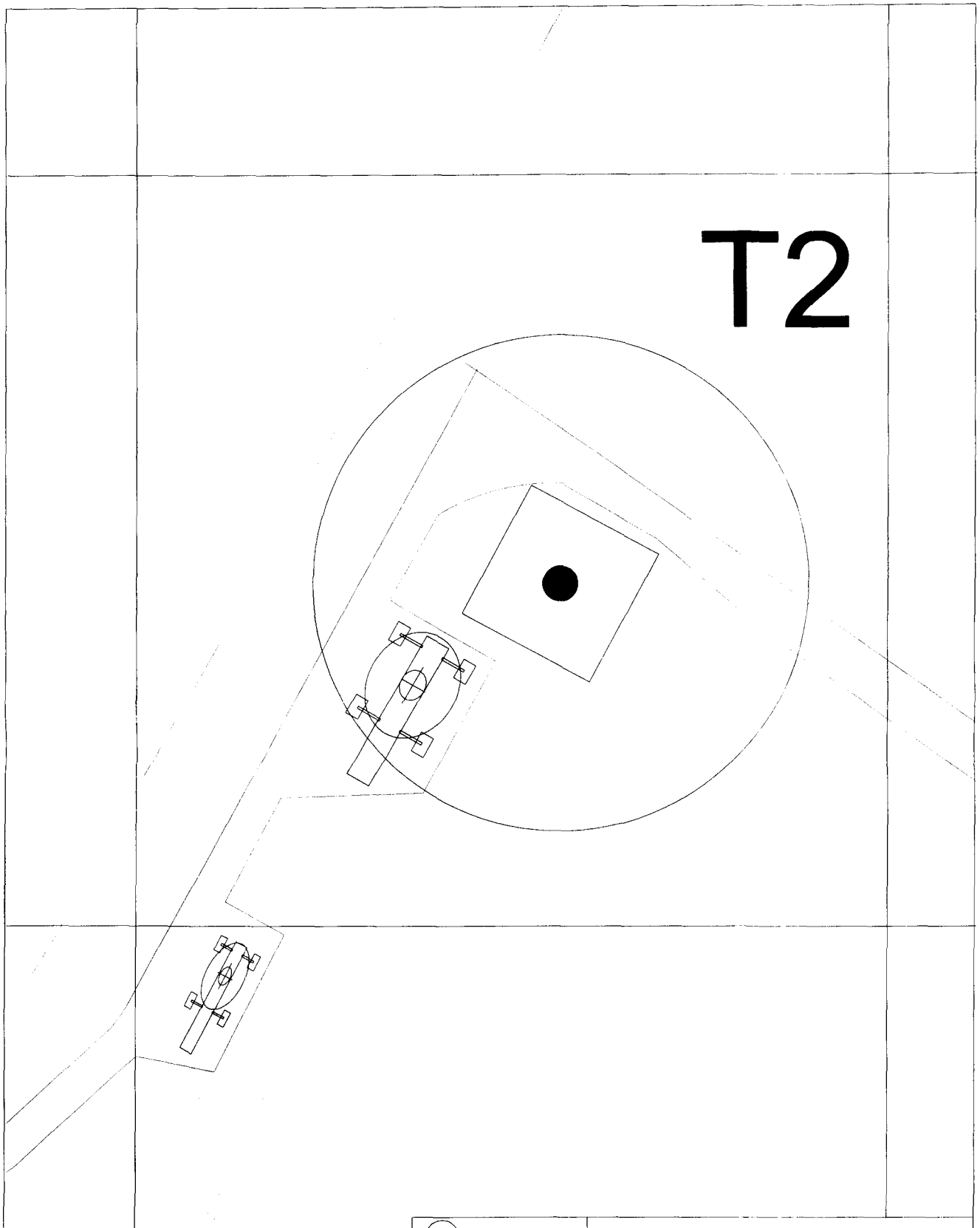
SIZE	CAGE CODE	DWG NO	REV
A3		T3-001	A

SCALE		SHEET
1:500		1

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Planning
14 JAN 2003
Received

T2



Wind Turbine

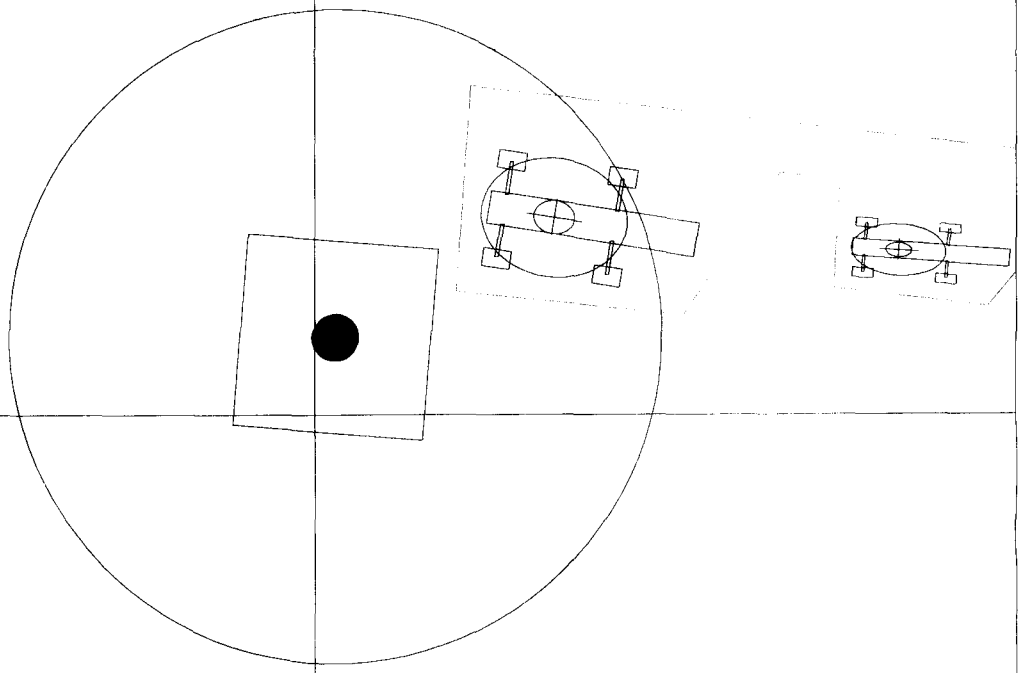
Crane Hardstanding

New Tracks

COMPANY: WIND PROSPECT DEVELOPMENTS LTD			
TITLE: TURBINE NO.2			
SIZE: A3	CAGE CODE	DWG NO: T3-001	REV: A
SCALE: 1:500		SHEET: 1	

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Planning Dept
14 JAN 2003
Ref 8/2/51/03



T3

Wind Turbine

Crane Hardstanding

New Tracks

COMPANY

WIND PROSPECT DEVELOPMENTS LTD

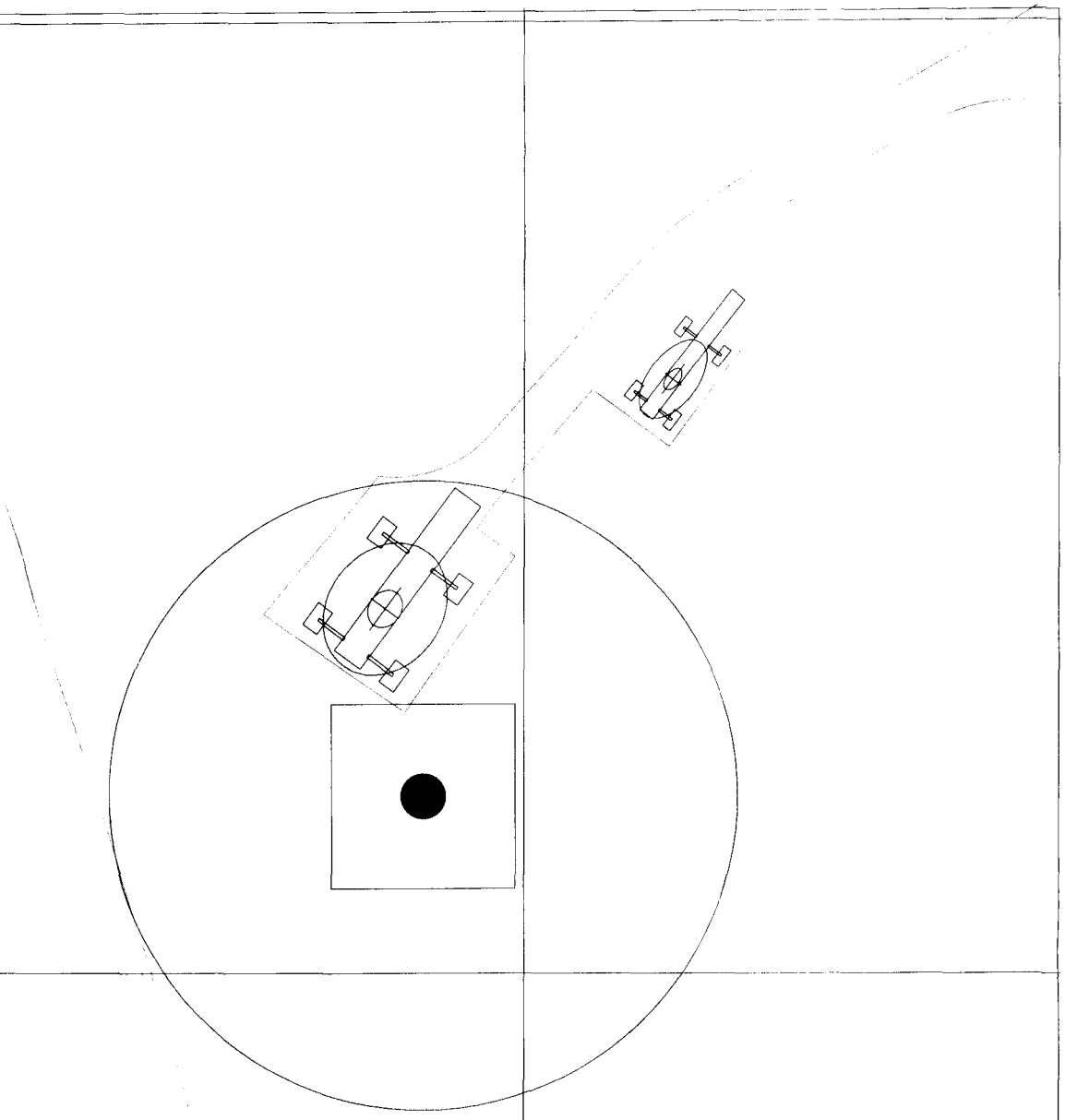
TITLE

TURBINE NO.3

SIZE	CAGE CODE	DWG NO	REV
A3		T3-001	A

SCALE 1:500 SHEET 1

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T4

Wind Turbine

Crane Hardstanding

New Tracks

COMPANY

WIND PROSPECT DEVELOPMENTS LTD

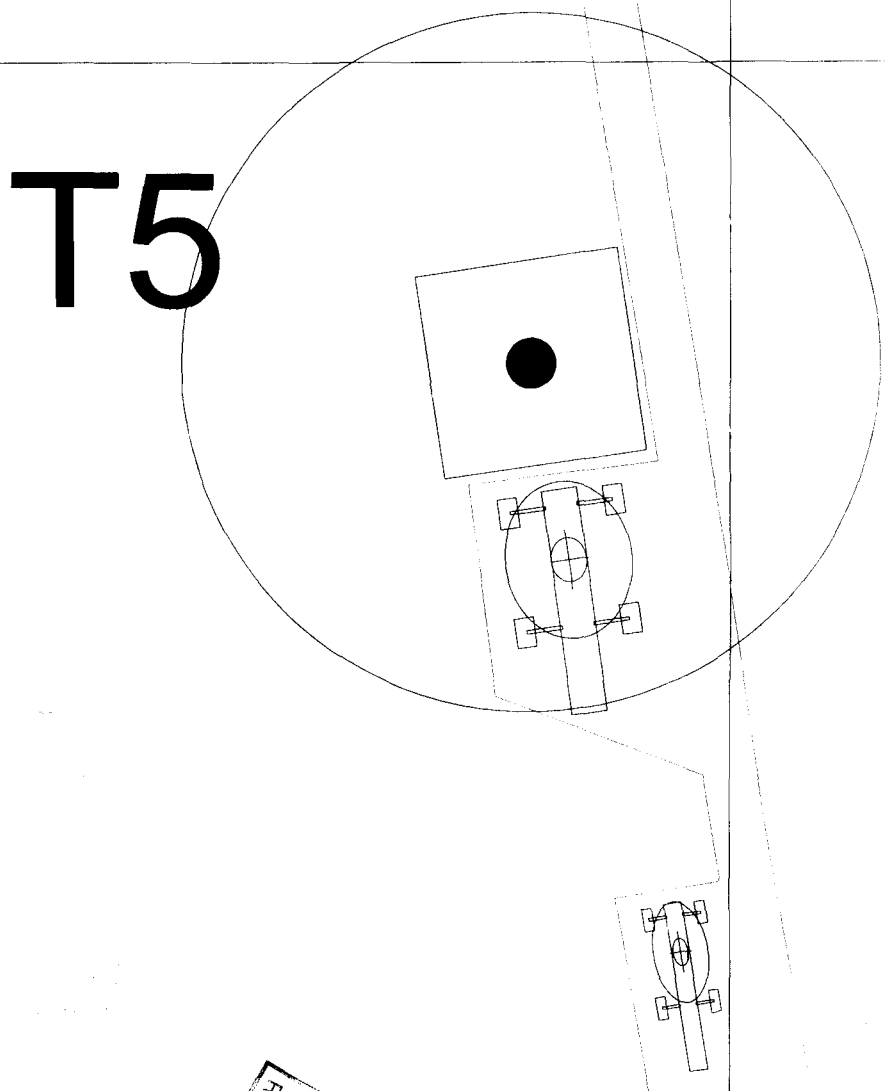
TITLE

TURBINE NO.4

SIZE	CAGE CODE	DWG NO	REV
A3		T3-001	A

SCALE 1:500 SHEET 1

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Received
14 JAN 2003
Planning Section

Wind Turbine

Crane Hardstanding

New Tracks

COMPANY

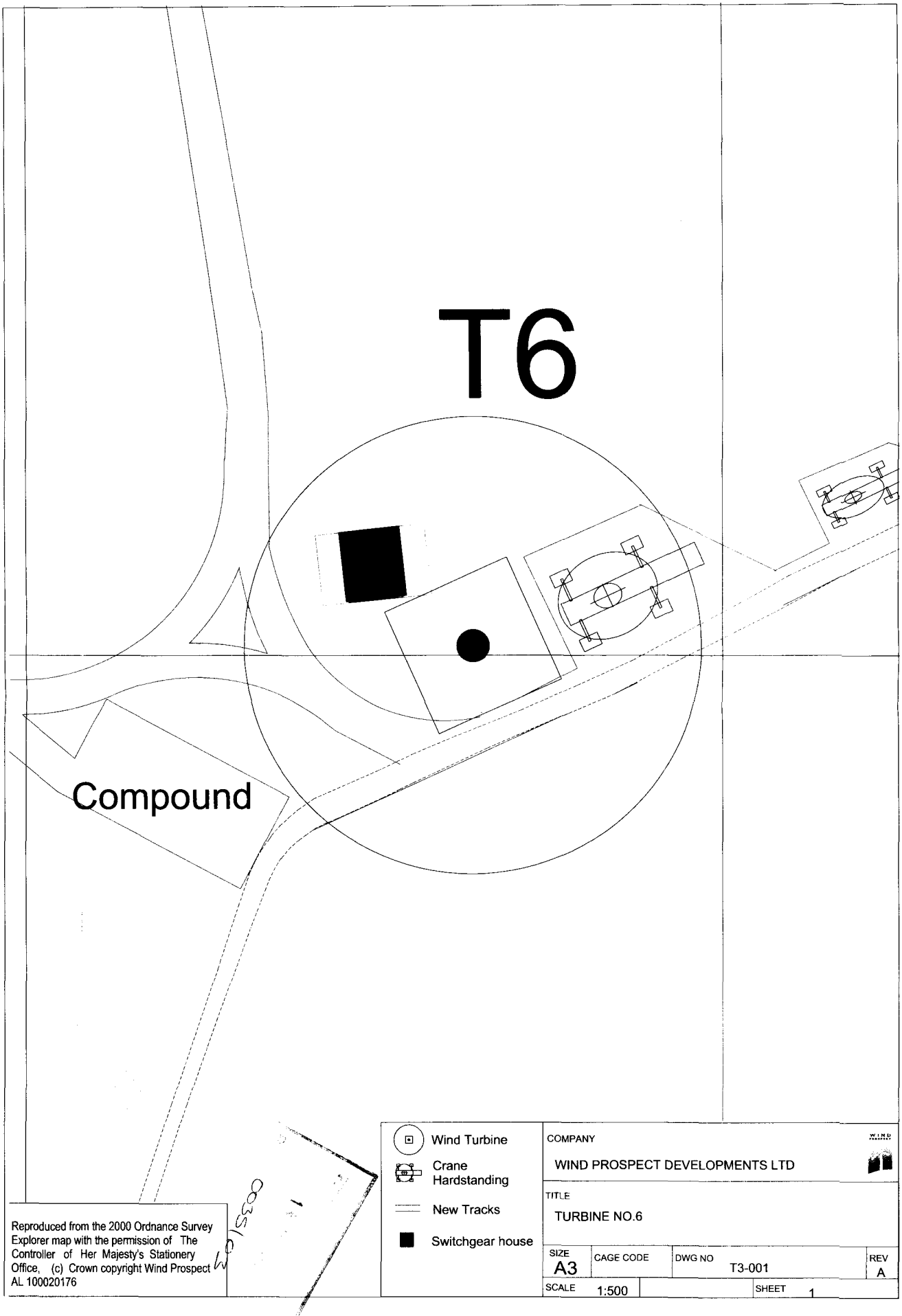
WIND PROSPECT DEVELOPMENTS LTD

TITLE

TURBINE NO.5

SIZE	CAGE CODE	DWG NO	REV
A3		T3-001	A

SCALE 1:500 SHEET 1



Wind Turbine

Crane Hardstanding

New Tracks

Switchgear house

COMPANY

WIND PROSPECT DEVELOPMENTS LTD

TITLE

TURBINE NO.6

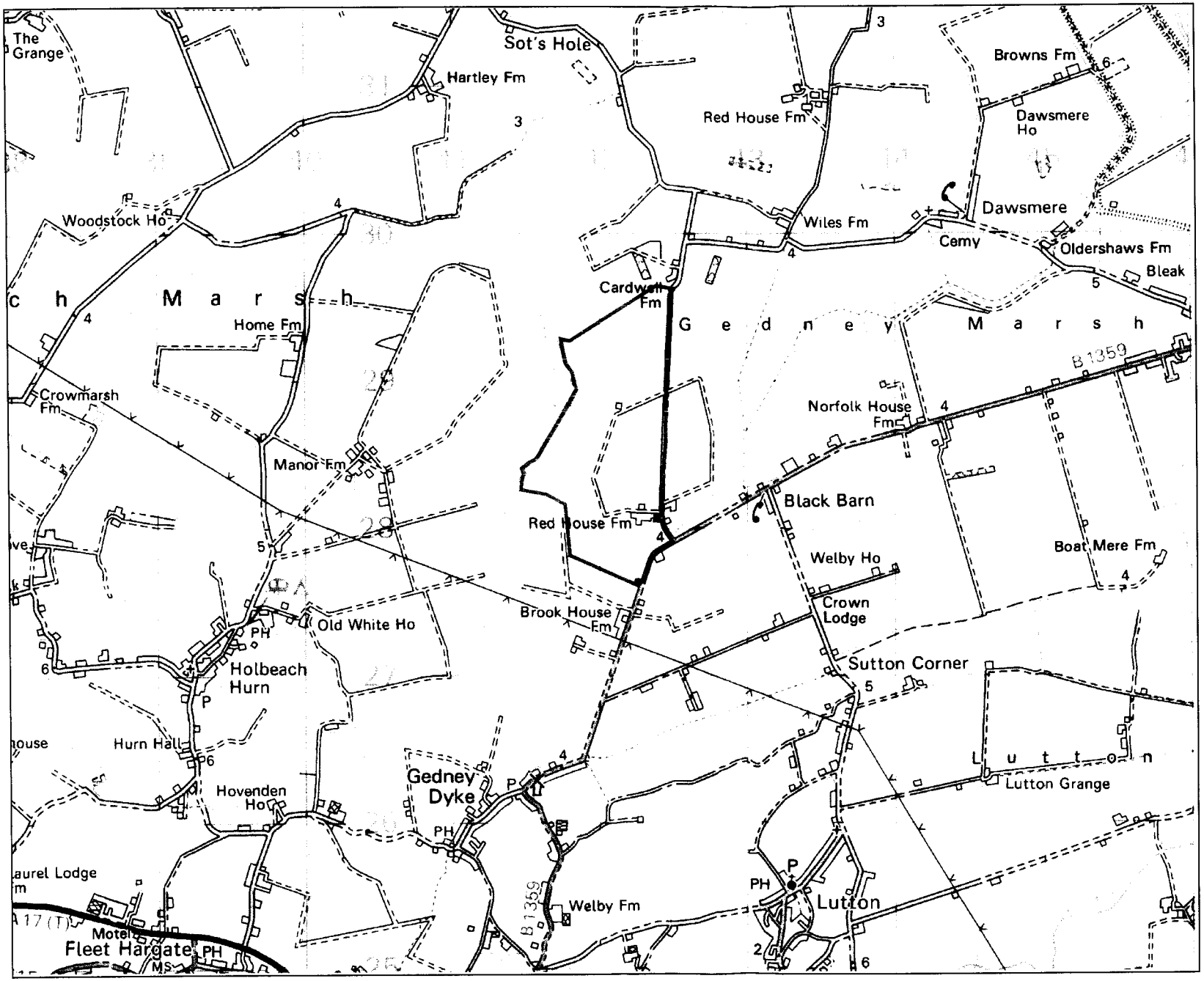
SIZE	CAGE CODE	DWG NO	REV
A3		T3-001	A

SCALE 1:500 SHEET 1

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Red House Farm, Gedney Marsh,Windcluster

Planning Application Boundary



Legend

Application Boundary

Scale

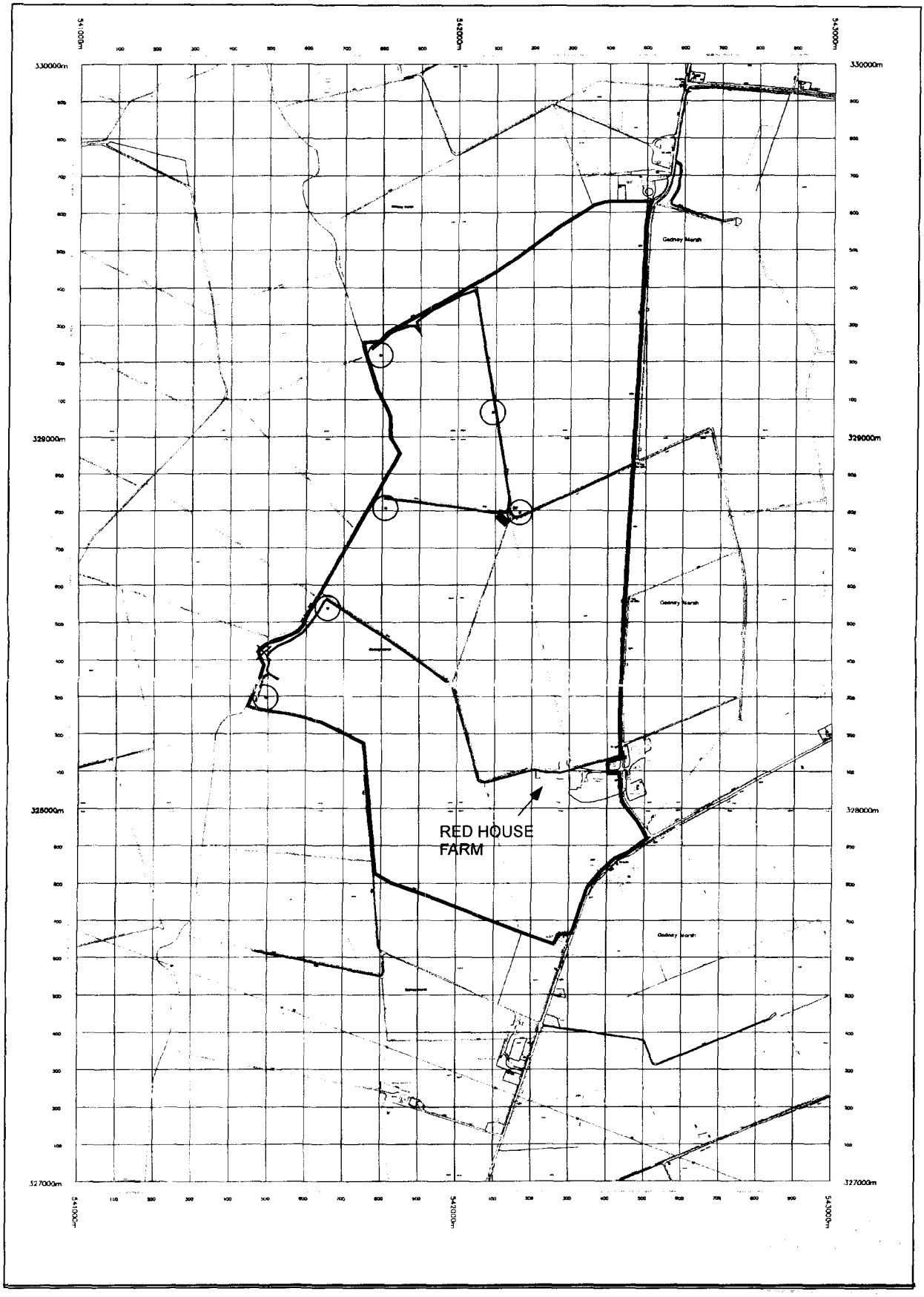
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SHDC
Planning
14 JAN
Ref
0035/03

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Wind Prospect AL 100020176

WIND PROSPECT

Red House Farm, Gedney Marsh, Windcluster
Planning Application Boundary



Legend

- Planning Application Boundary
- Wind Turbine
- Anemometer Mast
- Switchgear Building
- Compound Area
- Upgrade Track
- New Track

Scale
1:10000

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Wind Prospect AL 100020176

SHDC
Planning & Development
2[illegible]03
Ref 0035/03

WIND PROSPECT

[redacted]

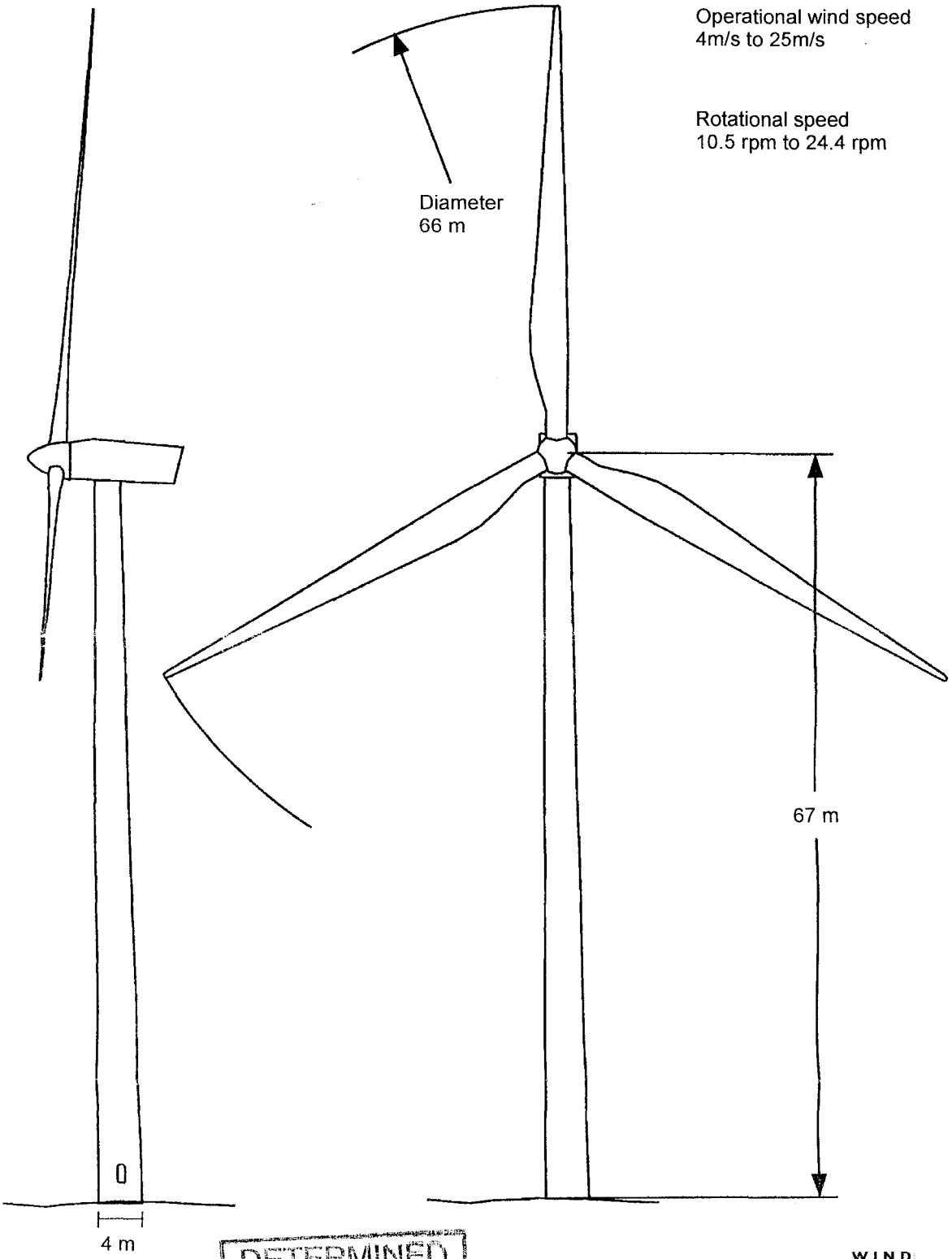
Planning Department
14 FEB 2002
Ref 0161/02

Vestas V66 1.75 MW Wind Turbine

Rotor Diameter 66 m Tower Height 67 m

Operational wind speed
4m/s to 25m/s

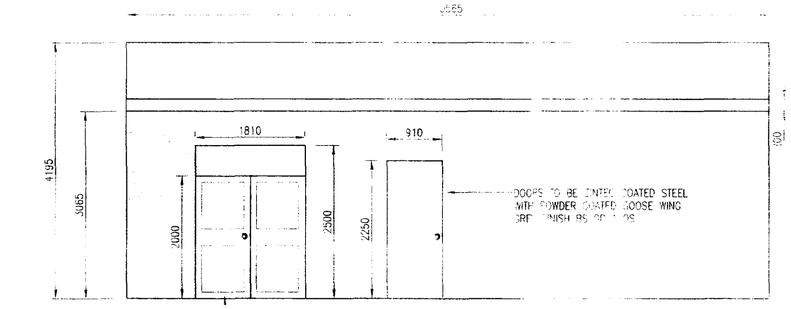
Rotational speed
10.5 rpm to 24.4 rpm



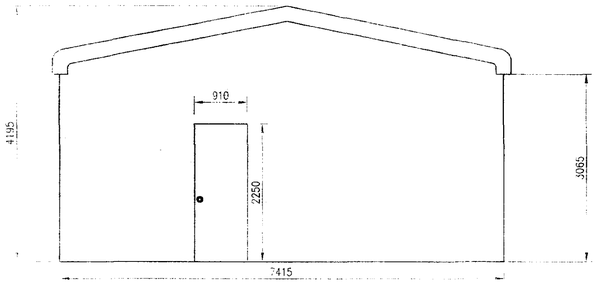
DETERMINED
PLAN

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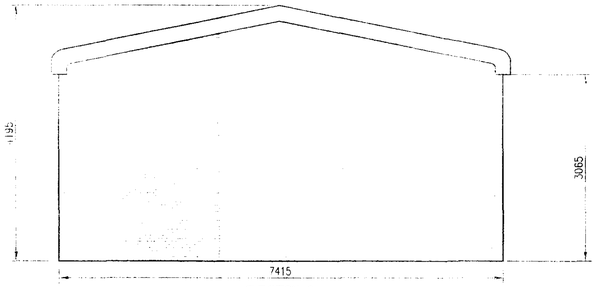
WIND PROSPECT



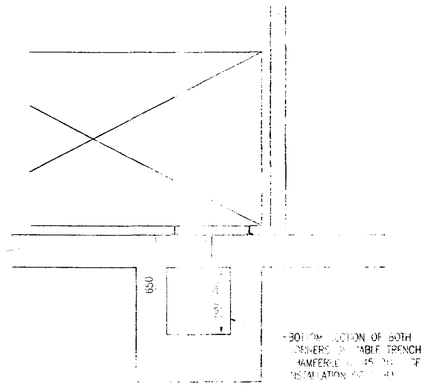
ELEVATION D

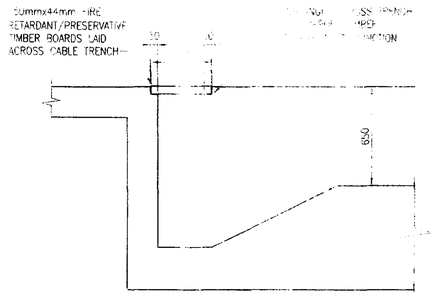


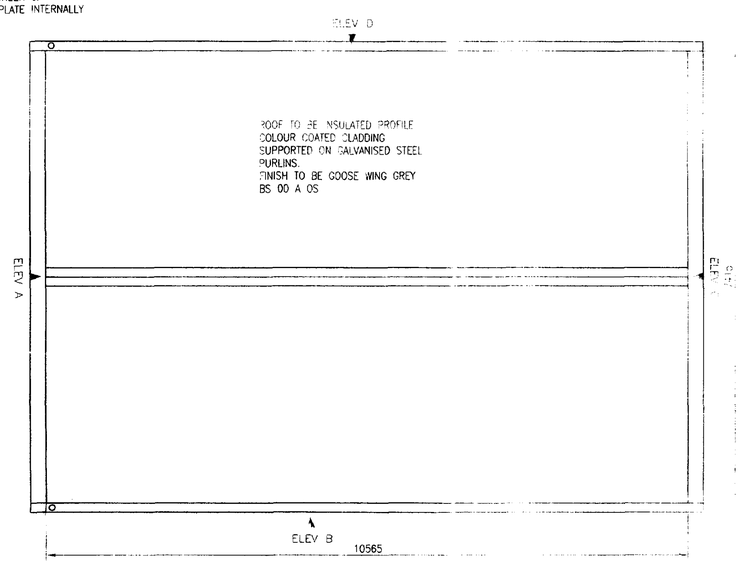
ELEVATION A



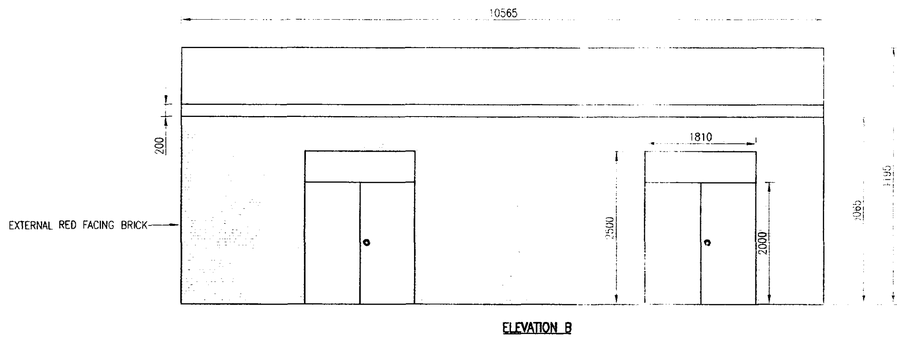
ELEVATION C



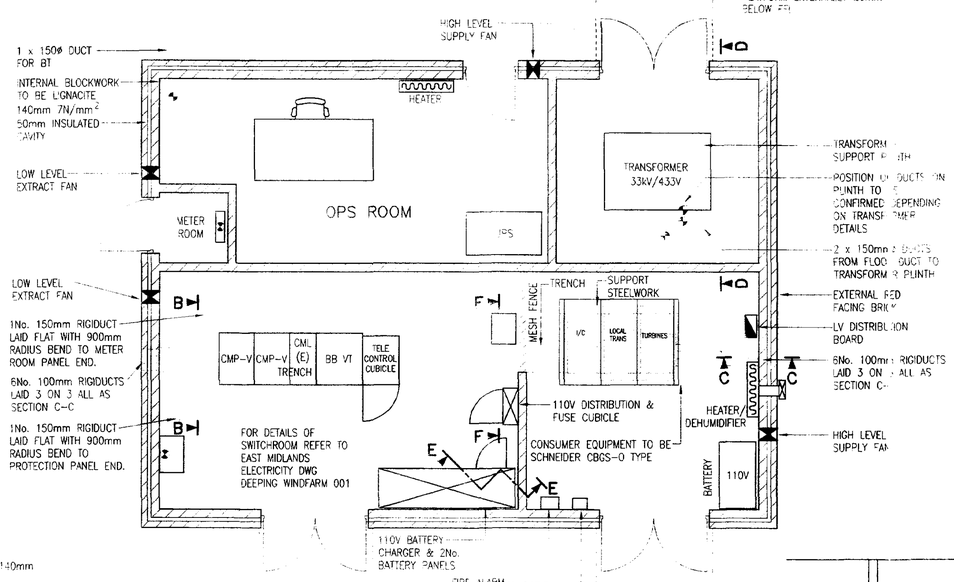




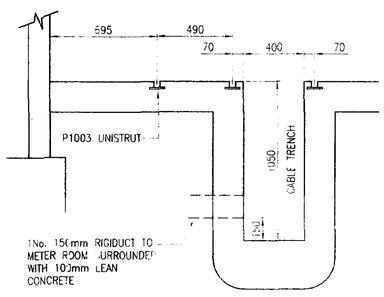
ROOF PLAN



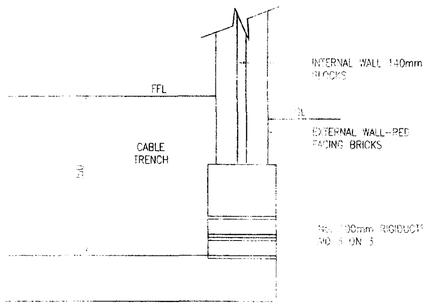
ELEVATION B



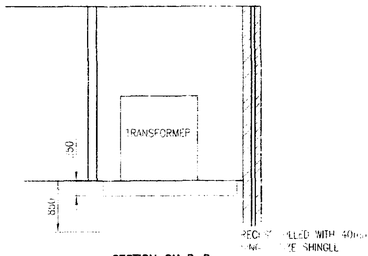
PLAN



SECTION B–B
SCALE 1:20



SECTION C–C
SCALE 1:20



SECTION ON D–D

10 0 10 20 50 100mm NATURAL SCALE

NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED
2. ALL DIMENSIONS MUST BE CHECKED ON SITE BEFORE WORK COMMENCES
3. TRADITIONAL FOUNDATION LAYOUT SHOWN AS A RAFT TYPE BASED ON PREVIOUS CONSTRUCTION METHOD BUT STRIP FOUNDATIONS MAY BE EMPLOYED - GROUND CONDITIONS PERMITTING.
4. ALL BRICKWORK BELOW GROUND LEVEL (UNLESS RC CONSTRUCTION) TO BE CLASS 'B' SEMI-ENGINEERING, ONE BRICK THICK TO ALL CABLE TRENCHES.
5. GENERAL PLAN AND SETTING DIMENSIONS ARE TO BE ADHERRED TO. CONSTRUCTION/DETAIL ETC. TO ENGINEERS DESIGN.

   STRUCTURAL PIERS AND WINDPOSTS, ETC. MUST NOT RESTRICT MIN. INTERNAL PLAN DIMENSIONS AND STEEL SECTION FLANGES SHOULD BE FLUSH OR HAVE MIN. PROJECTION FROM BLOCKWORK FACE.
6. SWITCH HOUSE FLOOR FINISH TOLERANCES:

   SWITCH GEAR SUPPORTS STEELWORKS TO BE +/- 5mm & FLOOR SLAB (POWER FLOATED OR MODIFIED GRANITE AGGREGATE SCREED) TO BE +/- 5mm OVER 3m LONG STRAIGHT EDGE IN ANY DIRECTION.
7. CABLE DUCT POSITIONS AND SIZE IN ACCORDANCE WITH ELECTRICAL CABLE LAYOUT. IF THRO' RC CONCRETE THEN CONSIDERATION SHOULD BE GIVEN TO FORMING 'HOLES' RATHER THAN CASTING IN DUCTS.

   DUCT BANKS FORMED THROUGH BRICKWORK SHOULD USE VITRIFIED CLAY DUCTS, SURROUNDED WITH AND BEDDED ON FINE CONCRETE WITH INTL & EXTL FACES TROWELLED HARD AND SMOOTH. DUCT BANKS MAY ALSO BE GROUTED IN.
8. ALL DUCT BANKS TO HAVE P.C. LINTELS OVER.
9. BUILDING IS REQUIRED TO BE WATER AND AIRTIGHT
10. ALL STRUCTURAL STEELWORK (ROOF BEAMS, JOISTS, BRACING, WALL AND POSTS ETC.) TO BE GALVANISED
11. WHERE WIND POSTS ARE UTILISED TO STIFFEN SWITCH HOUSE WALLS, FLANGES SHOULD BE POSITIONED IN THE CAVITY. WHERE FLANGES ARE REQUIRED TO BE POSITIONED INTERNALLY, THESE SHOULD BE AS FLUSH AS POSSIBLE TO ADJOINTING BLOCKWORK.
12. SWITCHGEAR TYPE NOMINALLY ORMAZABAL FOR DNO AND SCHNEIDER TYPE CBGS–O FOR CONSUMER.
13. REAR ACCESS DUCTS CAN BE REPOSITIONED TO FRONT ACCESS TO FACILITATE DIFFERING LOCATIONS.
14. DOUBLE DOORS FITTED WITH REMOVABLE TRANSOM PANEL ABOVE DOOR.
15. WORKMANSHIP AND COMPONENTS TO BE IN ACCORDANCE WITH EAST MIDLANDS ELECTRICITY (CENTRAL NETWORKS) STANDARD SPECIFICATION FOR BUILDING AND CIVIL ENGINEERING WORKS 1998 INCORPORATING AMENDMENTS 1–10.

Rev	Drn	Chk	Appd	Date	Description
C	JAE		TB	27.7.05	LARGER SWITCHROOM INCORPORATED AS CENTRAL NETWORKS REQUIREMENTS
B	NCH	MJR	TB	21.7.05	CENTRAL NETWORKS COMMENTS INCORPORATED REVISION CLOUDED
A	JAE	GR	TB	16.6.05	LOUVRED DOORS ADDED TO AUX. TRANS. ROOM. DUCTWIDTH & SCHNEIDER SWITCHGEAR POSITION AMENDED. SECTION D–D ADDED.

McNICHOLAS
CONSTRUCTION SERVICES
Lismirrane Industrial Park, Elstree Road,
Elstree, Herts. WD6 3EA
Telephone: +44(0)20 8953 4144
Facsimile: +44(0)20 8953 1860
Website: http://www.mcnicholas.co.uk

Client: REpower Systems

Project: FENLAND SITES WIND FARMS

Drawing Title: DEEPING SUB-STATION SUB-STATION BUILDING LAYOUT

Gifford
30 Nicholas Street, Chester, CH1 2NX
Tel 01244 311855 Fax 01244 314580 www.gifford.uk.com

Scale (at A1)	Date	Drawn
1:50 @ A1	19.5.05	JAE

Drg. no. 11908/SR/E/P/110 Rev. C

ORIGINAL DRAWING SIZE 841 x 594

RED_AMEND 1B

WIND PROSPECT

Red House Wind Farm

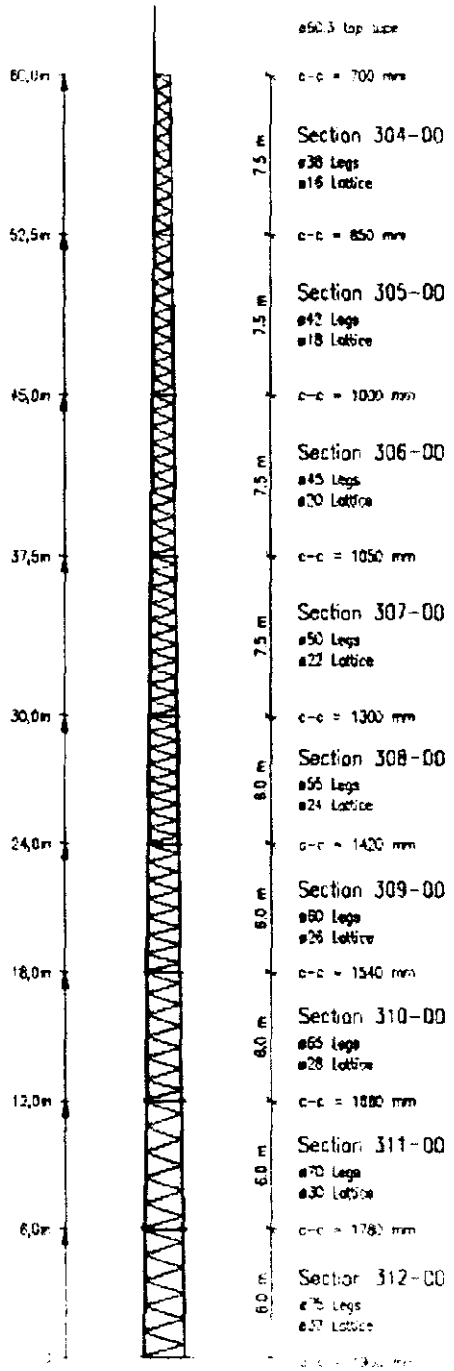
Amended Height of Anemometry Mast

60m Anemometry Mast

Self Supporting lattice Tower

SHDC
Planning & Development
18 AUG 2004
Ref: 0035/03

AMENDED PLAN
Ref. A2





RED_AMEND_1A

AMENDED PLAN

Ref. A2

SHDC
Planning & Development
18 AUG 2004
Ref: 0035/03

T1

T2

T3

T4

T5

T6

Gedney Marsh

Gedney Marsh

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Wind Turbine

Crane Hardstanding

New Tracks

Upgrade Tracks

Switchgear house

Anemometer Mast

COMPANY

WIND PROSPECT DEVELOPMENTS LTD

TITLE

Figure 3

RED HOUSE FARM WINDCLUSTER PROPOSAL

SIZE	CAGE CODE	DWG NO	REV
A3		RH001	A

SCALE 1:5200 SHEET 1

REVISION 1 - CONSTRUCTION LAYOUT

Gedney Marsh

Turbine 4

Turbine 5

Turbine 6

Turbine 3

Turbine 2

Met Mast

Turbine 1

Construction Compound

Switchgear House

Gas Main Easement

Gedney Marsh

AMENDED PLAN
Ref. A1

Planning & Development
27 FEB 2004
Ref 0035/03

Planning & Development
25 FEB 2004
Ref

SCALE 1:2500

KEY

- Road Centreline
- Road Edge / Crane Base
- Cable Route
- Landowner Boundary
- Construction Compound
- Switchgear House

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Wind Prospect AL 100020176

Wind Prospect Ltd
Sutton House
Doverby Hall Estate
Doverby, Cockermouth
Cumbria, CA13 0PN
tel 01900 898100
fax 01900 898108
email cumbria@windprospect.com

SITE LAYOUT

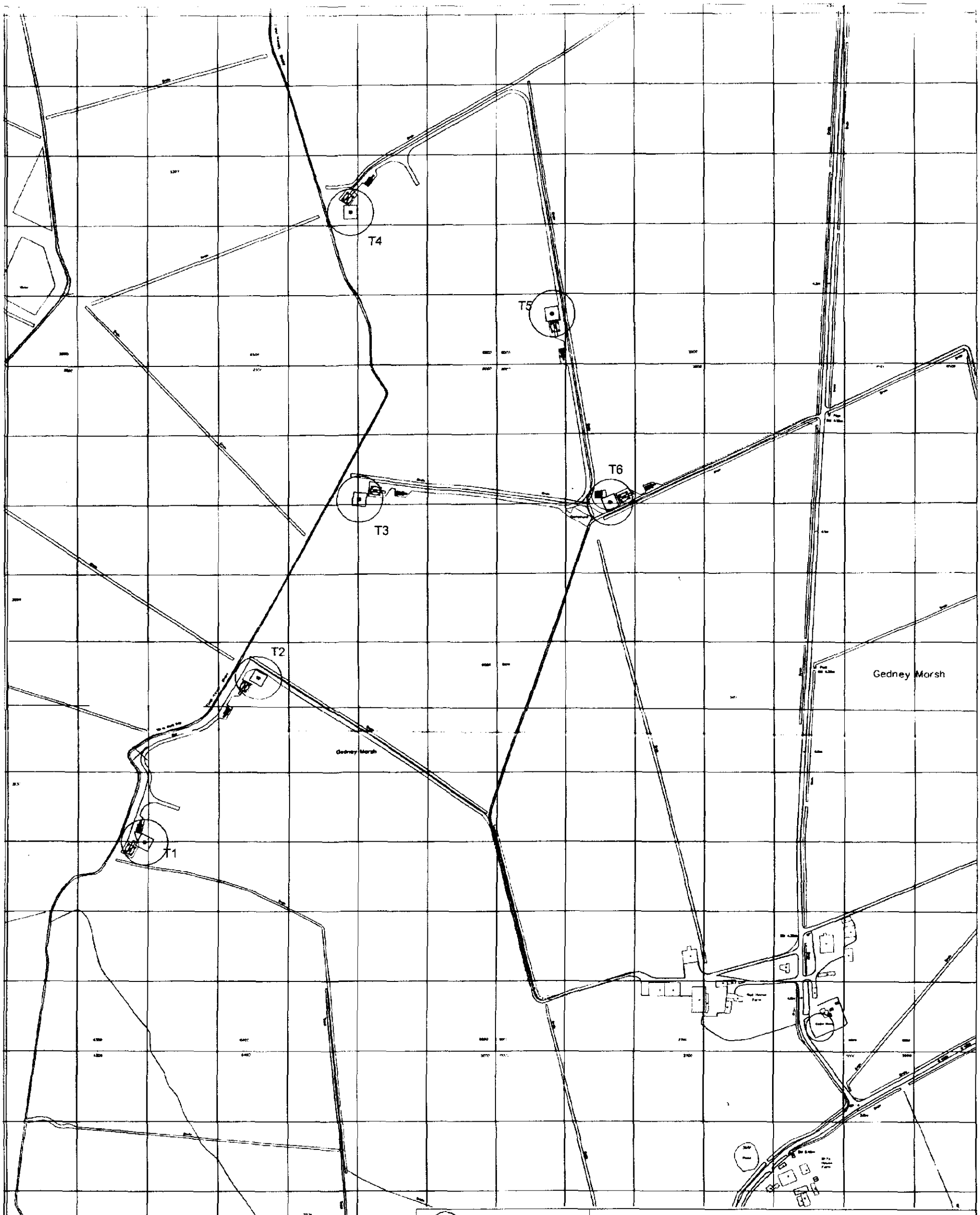
RED HOUSE WIND CLUSTER
GEDNEY MARSH, LINCS

FOR CONSULTATION

C D AIMERS	B ALLAN
22/12/03	22/12/03

REDHd010 A

SITE LAYOUT FROM GEDNEY MARSH APPLICATION E5.



Wind Turbine

Crane Hardstanding

New Tracks

Upgrade Tracks

Switchgear house

Anemometer Mast

COMPANY

WIND PROSPECT DEVELOPMENTS LTD

TITLE

Figure 3

RED HOUSE FARM WINDCLUSTER PROPOSAL

SIZE	CAGE CODE	DWG NO	REV
A3		RH001	A

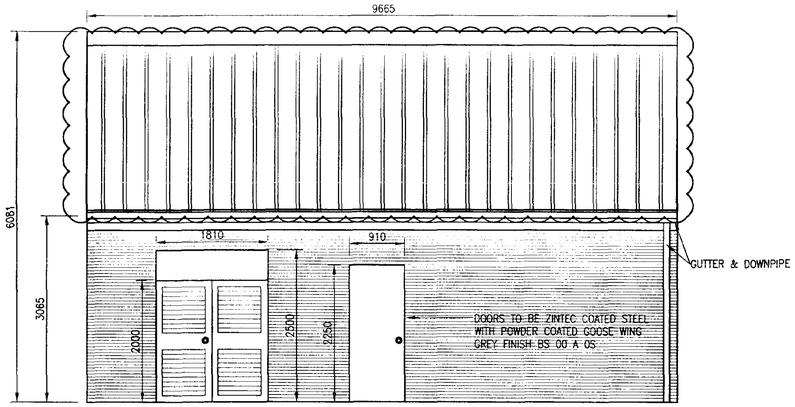
SCALE 1:5200 SHEET 1

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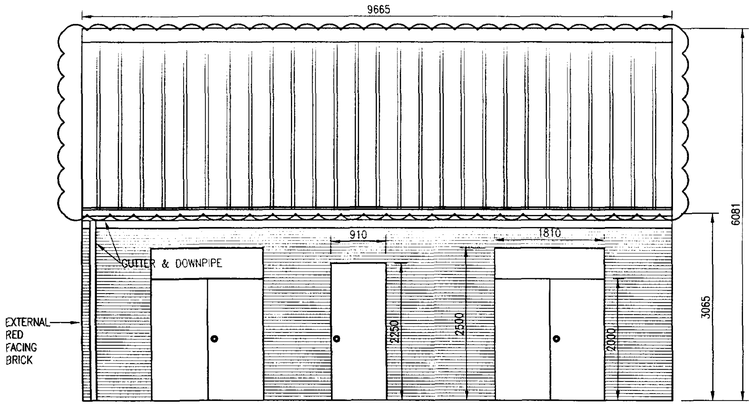
Planning & Development
25 FEB 2004
Ref

AMENDED PLAN
Ref. A1

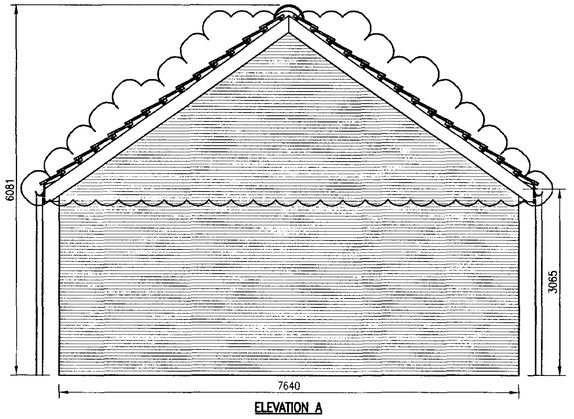
Planning Department
27 FEB 2004
Ref 0035/03



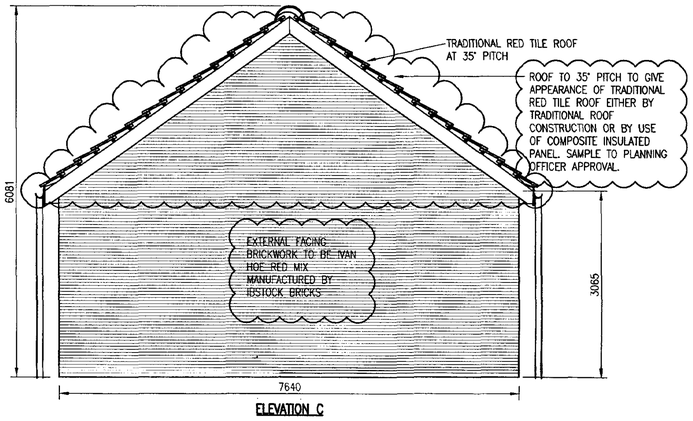
ELEVATION D



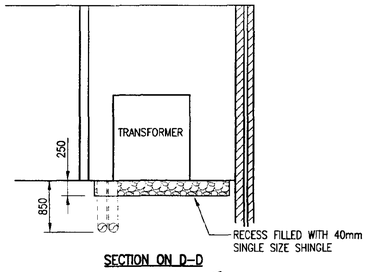
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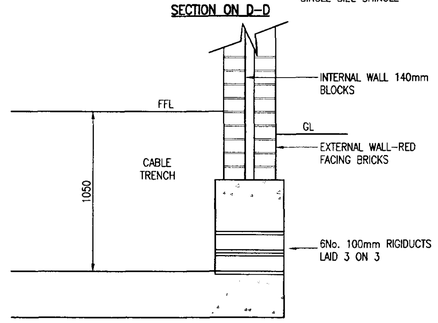
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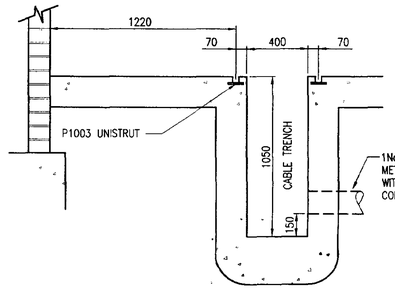
ELEVATION C



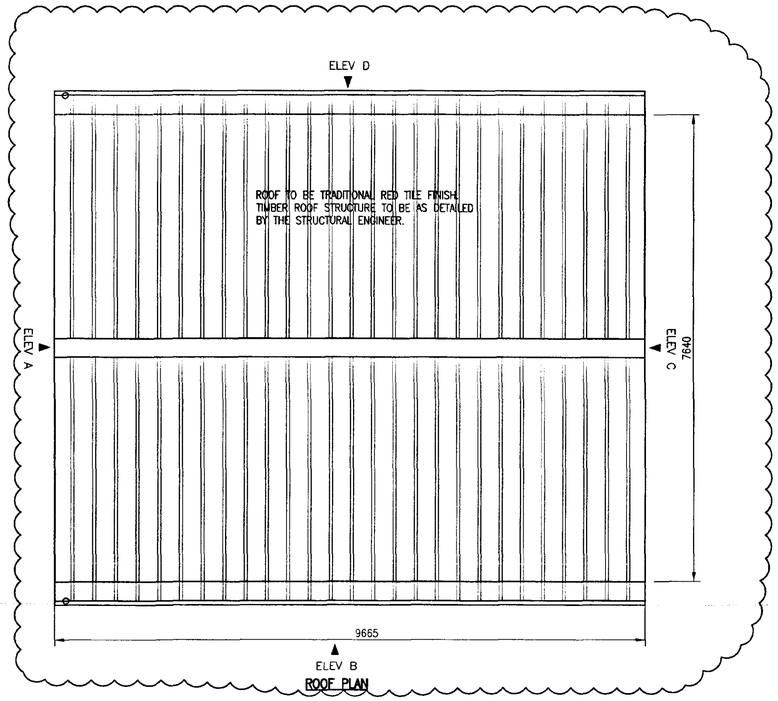
SECTION ON D–D



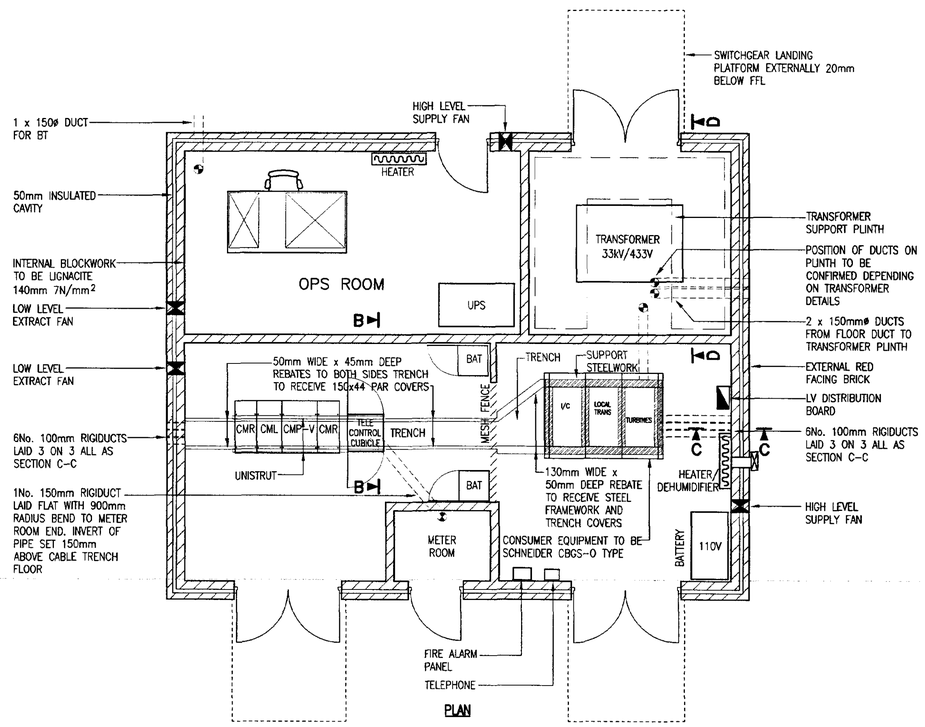
SECTION C–C
SCALE 1:20



SECTION B–B
SCALE 1:20



ROOF PLAN



PLAN

NOTES

1. ALL DIMENSIONS ARE IN mms UNLESS OTHERWISE STATED.
2. ALL DIMENSIONS MUST BE CHECKED ON SITE BEFORE WORK COMMENCES.
3. TRADITIONAL FOUNDATION LAYOUT SHOWN AS A RAFT TYPE BASED ON PREVIOUS CONSTRUCTION METHOD BUT STRIP FOUNDATIONS MAY BE EMPLOYED – GROUND CONDITIONS PERMITTING.
4. ALL BRICKWORK BELOW GROUND LEVEL (UNLESS RC CONSTRUCTION) TO BE CLASS 'B' SEMI–ENGINEERING, ONE BRICK THICK TO ALL CABLE TRENCHES.
5. GENERAL PLAN AND SETTING DIMENSIONS ARE TO BE ADHERRED TO. CONSTRUCTION/DETAIL, ETC. TO ENGINEERS DESIGN.

   STRUCTURAL PIERS AND WINDPOSTS, ETC. MUST NOT RESTRICT MIN. INTERNAL PLAN DIMENSIONS AND STEEL SECTION FLANGES SHOULD BE FLUSH OR HAVE MIN. PROJECTION FROM BLOCKWORK FACE.
6. SWITCH HOUSE FLOOR FINISH TOLERANCES:

   SWITCH GEAR SUPPORTS STEELWORKS TO BE +/– 1.5mm & FLOOR SLAB (POWER FLOATED OR MODIFIED GRANITE AGGREGATE SCREED) TO BE +/– 1.5mm OVER 3m LONG STRAIGHT EDGE IN ANY DIRECTION.
7. CABLE DUCT POSITIONS AND SIZE IN ACCORDANCE WITH ELECTRICAL CABLE LAYOUT. IF THRO' RC CONCRETE THEN CONSIDERATION SHOULD BE GIVEN TO FORMING 'HOLES' RATHER THAN CASTING IN DUCTS.

   DUCT BANKS FORMED THROUGH BRICKWORK SHOULD USE VITRIFIED CLAY DUCTS, SURROUNDED WITH AND BEDDED ON FINE CONCRETE WITH INTL & EXTL. FACES TROWELLED HARD AND SMOOTH. DUCT BANKS MAY ALSO BE GROUTED IN.
8. ALL DUCT BANKS TO HAVE P.C LINTELS OVER.
9. BUILDING IS REQUIRED TO BE WATER AND AIRTIGHT.
10. ALL STRUCTURAL STEELWORK (ROOF BEAMS, JOISTS RACING, WALL WIND POSTS ETC.) TO BE GALVANISED.
11. WHERE WIND POSTS ARE UTILISED TO STIFFEN SWITCH HOUSE WALLS, FLANGES SHOULD BE POSITIONED IN THE CAVITY. WHERE FLANGES ARE REQUIRED TO BE POSITIONED INTERNALLY, THESE SHOULD BE AS FLUSH AS POSSIBLE TO ADJOINTING BLOCKWORK.
12. SWITCHGEAR TYPE NOMINALLY ORMAZABAL FOR DNO AND SCHNEIDER TYPE CBGS–O FOR CONSUMER.
13. REAR ACCESS DUCTS CAN BE REPOSITIONED TO FRONT ACCESS TO FACILITATE DIFFERING LOCATIONS.
14. DOUBLE DOORS FITTED WITH REMOVABLE TRANSOM PANEL ABOVE DOOR.
15. WORKMANSHIP AND COMPONENTS TO BE IN ACCORDANCE WITH EAST MIDLANDS ELECTRICITY (CENTRAL NETWORKS) STANDARD SPECIFICATION FOR BUILDING AND CIVIL ENGINEERING WORKS 1998 INCORPORATING AMENDMENTS 1–10.

Rev.	Drawn	Chkd	Approd	Date	Description
E	MJR		TB	26-9-05	PRELIMINARY ISSUE ROOF CHANGED TO TRADITIONAL RED TILE PITCHED ROOF APPEARANCE FACING BRICK SPECIFIED
D	MJR	MJR	TB	19.09.05	SECTION B–B AMENDED. UNISTRUT AND TRENCH REBATES ADDED TO PLAN VIEW
C	MJR	MJR	TB	7.9.05	ORMAZABAL SWITCHGEAR ADDED SCHNEIDER SWITCHGEAR ADDED TRENCH AMENDED

McNICHOLAS
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Website: http://www.mcnicholas.co.uk

Client: Repower Systems

Project: FENLAND SITES WIND FARMS

Drawing Title: RED HOUSE SUB-STATION BUILDING LAYOUT

SHDC Planning & Development 29 SEP 2005 Ref: 0035/03

MENDED PLAN A3

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Scale (at A1)	Date	Drawn
1:50 @ A1	19.5.05	JAE

Drg. no. 11908/SR/E/P/120 Rev. E

10 0 10 20 50 100mm NATURAL SCALE

ORIGINAL DRAWING SIZE 841 x 594