

NOTES

LEGEND

--- ROUTE FROM NEWTOWN TO SSA B (SOUTH)

REV	AMENDMENTS	BY	CHKD	APPD	DATE

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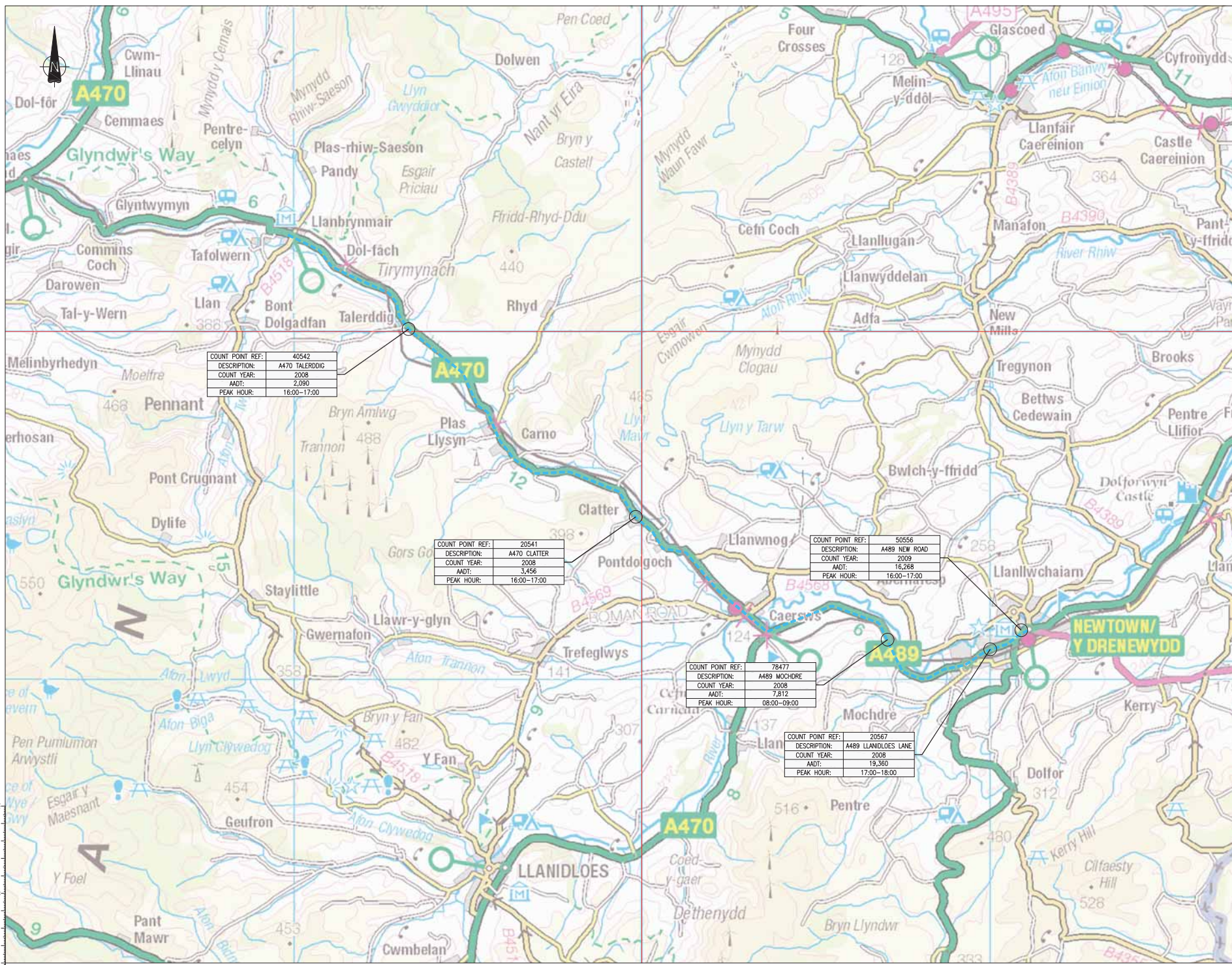
PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 5-1
 ROUTE FROM NEWTOWN TO SSA B (SOUTH)**

STATUS
FOR INFORMATION

DRAWN	CHECKED	APPROVED
AR	DH	STW
DATE 16.08.11	DATE 16.08.11	DATE 16.08.11
DRAWING SCALE 1:50000 at A1	ORIGINAL DRAWING SIZE 594 x 841 - A1	
	1:100000 at A3	

DRAWING NO: **108526-FIG 5-1** REV: **P2**



NOTES

LEGEND

--- ROUTE FROM NEWTOWN TO SSA B (SOUTH)

NOTES

1. AADT = ANNUAL AVERAGE DAILY TRAFFIC, THE NUMBER OF VEHICLES PASSING A POINT ON THE ROAD NETWORK EACH DAY AVERAGED OVER A YEAR, FACTORED TO 2010 BY THE DEPARTMENT OF TRANSPORT.
2. PEAK HOUR TAKEN FROM 12 MANUAL CLASSIFIED COUNTS FROM 07:00-19:00.
3. POWS ATC SITES PROVIDE HOURLY DATA FOR 2008

P2	SCALES AMENDED	ACR	FT	DUP	06/03/12
REV	AMENDMENTS	BY	CHKD	APPD	DATE

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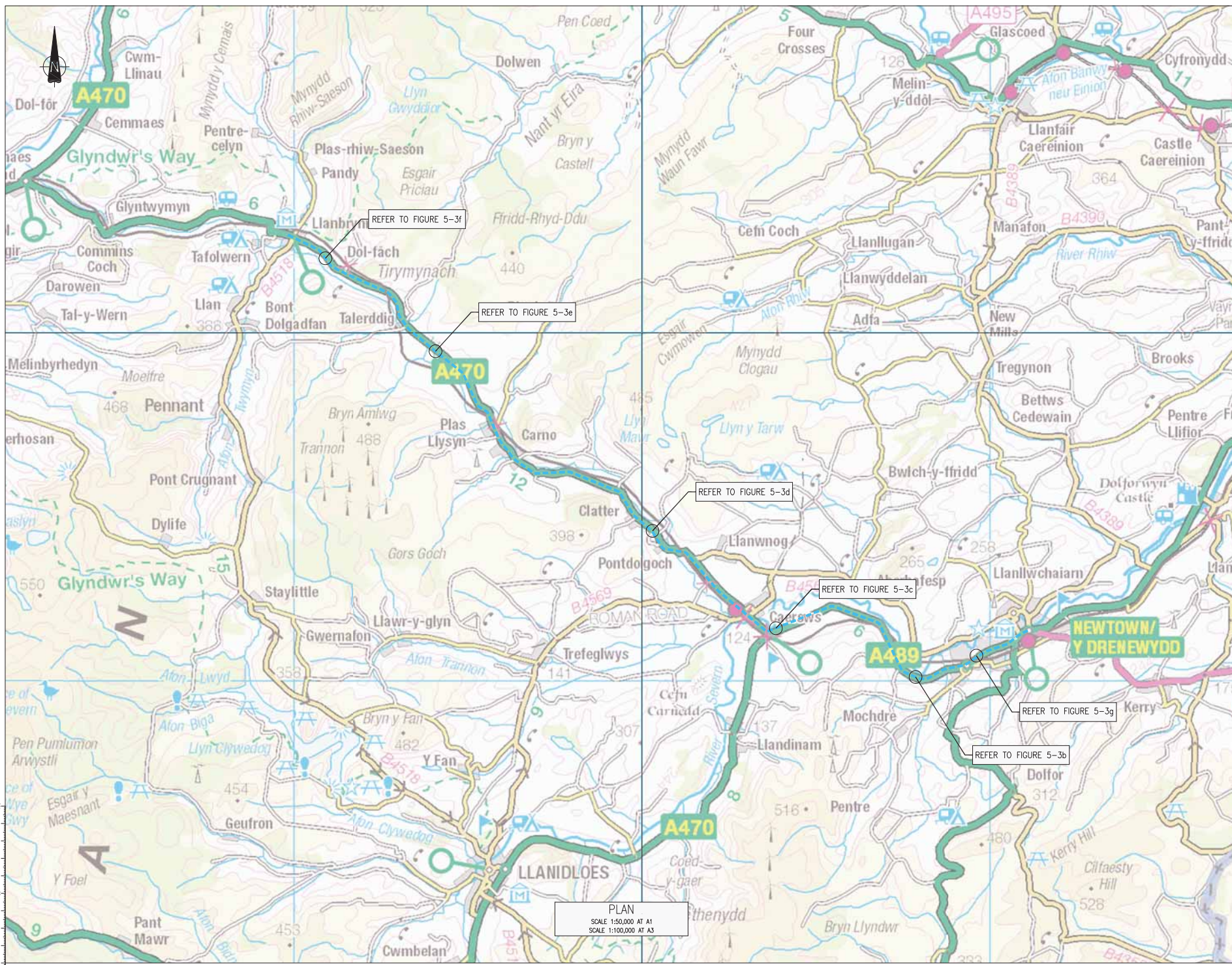
Client: **RENEWABLEUK CYMRU**

Project: **STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS**

Title: **FIGURE 5-2 TRAFFIC FLOWS ALONG ROUTE FROM NEWTOWN TO SSA B (SOUTH)**

Status: **FOR INFORMATION**

DRAWN	CHECKED	APPROVED
AR	DH	STW
DATE	DATE	DATE
16.08.11	16.08.11	16.08.11
DRAWING SCALE	1:50000 at A1	ORIGINAL DRAWING SIZE
	1:100000 at A3	594 x 841 - A1
DRAWINGS NO:	108526-FIG 5-2	REV:
		P2



PLAN
 SCALE 1:50,000 AT A1
 SCALE 1:100,000 AT A3

NOTES

LEGEND

--- ROUTE FROM NEWTOWN TO SSA B (SOUTH)

P1	PASSING PLACE 500 RELOCATED	PSM	RRS	DLP	02/04/13
P2	SCALE NOTES AMENDED	PIF	MC	DLP	20/03/12
REV	AMENDMENTS	BY	CHKD	APPRD	DATE

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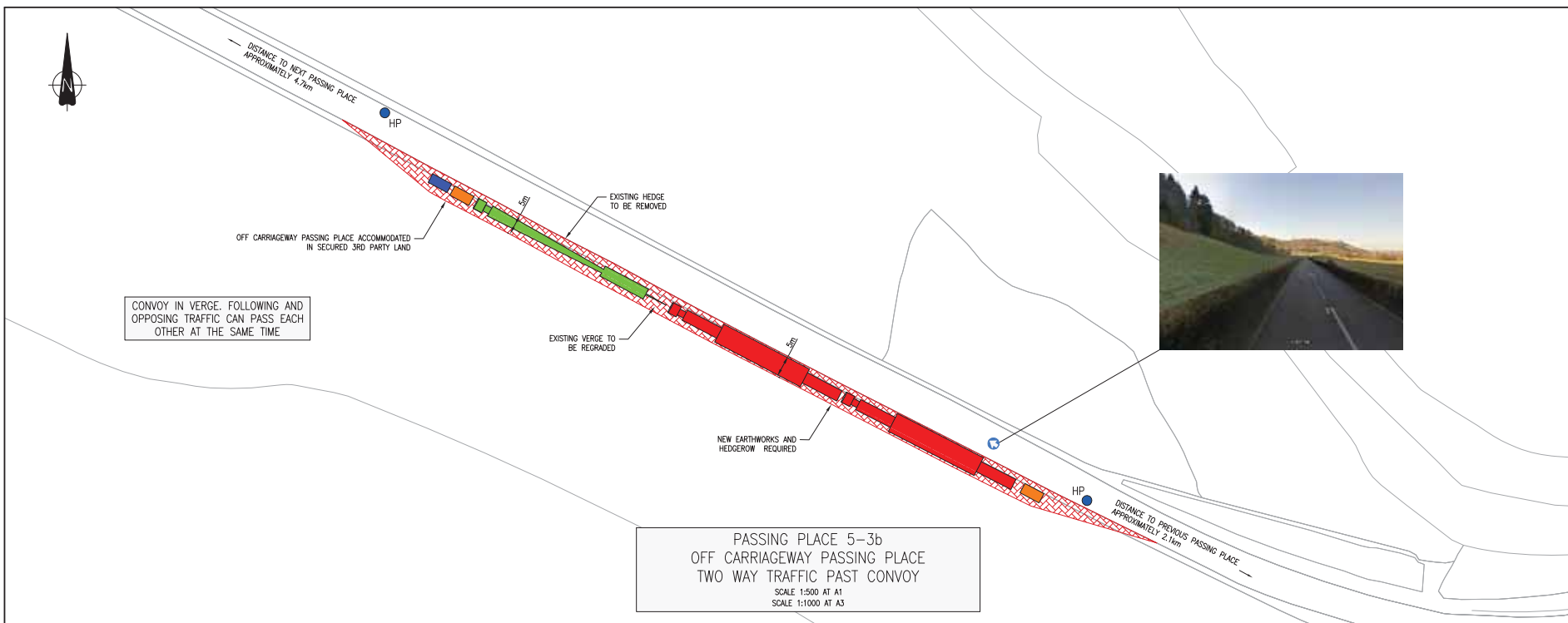
PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 5-3a
 PASSING PLACES ALONG
 ROUTE FROM NEWTOWN TO
 SSA B (SOUTH)**

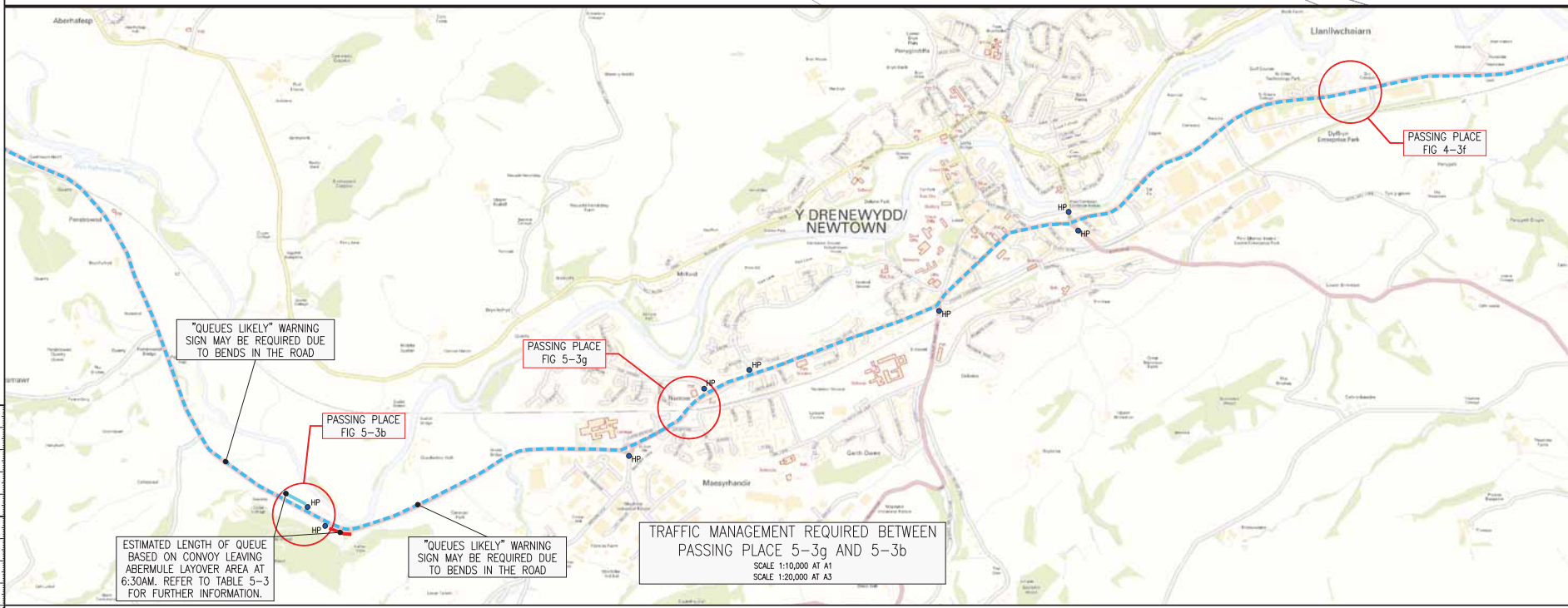
STATUS
FOR INFORMATION

DRAWN AR	CHECKED DH	APPROVED STW
DATE 16.08.11	DATE 16.08.11	DATE 16.08.11
DRAWING SCALE AS SHOWN		ORIGINAL DRAWING SIZE 594 x 841 - A1

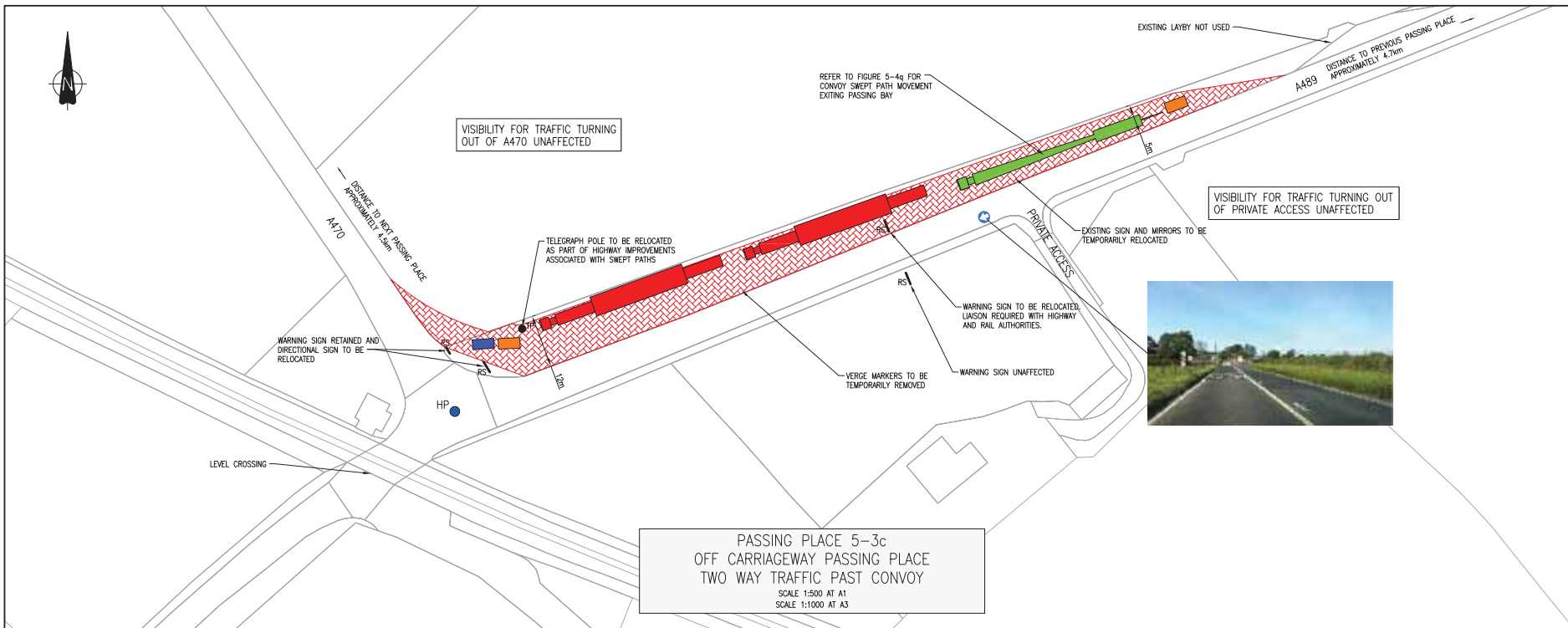
108526-FIG 5-3a P3



NOTES	
LEGEND	
	ROUTE FROM NEWTOWN TO SSA B (SOUTH)
	POLICE HOLDING POINT
	ROAD SIGN
	TELEGRAPH POLE
	HARDENED VERGE
	RETAINING STRUCTURE
	SAFETY BARRIER
	ESTIMATED FOLLOWING TRAFFIC QUEUE
	ESTIMATED OPPOSING TRAFFIC QUEUE
	PHOTOGRAPH LOCATION AND DIRECTION
	NEW CARRIAGEWAY SURFACE
VEHICLES LEGEND	
	TOWER BASE SECTION VEHICLE
	45m BLADE VEHICLE
	CIVILIAN ESCORT VEHICLE
	POLICE ESCORT VEHICLE
NOTES	
1. REFER TO FIGURE 1-4a FOR FURTHER INFORMATION ON ASSUMED DELIVERY VEHICLES.	
2. BLADE DELIVERY VEHICLE ASSUMED TO LEAD AS IT WILL SET THE CONVOY SPEED.	
3. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.	
4. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA MAY BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.	
5. ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.	



P6	VIEWPOINT TITLE AMENDED	SPR	FT	LC	16/08/11
P5	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	SPR	FT	DLP	09/08/11
P4	NOTES AMENDED	SB	FT	DLP	27/04/11
P3	PASSING PLACE RELOCATED FURTHER WEST	PSN	RS	DLP	03/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSN	RS	DLP	22/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE
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<p>RENEWABLEUK CYMRU</p>					
<p>PROJECT</p> <p>STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS</p>					
<p>TITLE</p> <p>FIGURE 5-3b PASSING PLACE LLANIDLOES ROAD</p>					
<p>STATUS</p> <p>FOR INFORMATION</p>					
DRAWN	AR	CHECKED	DH	APPROVED	STW
DATE	16.08.11	DATE	16.08.11	DATE	16.08.11
DRAWING SCALE	AS SHOWN			ORIGINAL DRAWING SIZE	594 x 841 - A1
DRAWING NO	108526-FIG 5-3b				REV
					P6



NOTES

LEGEND

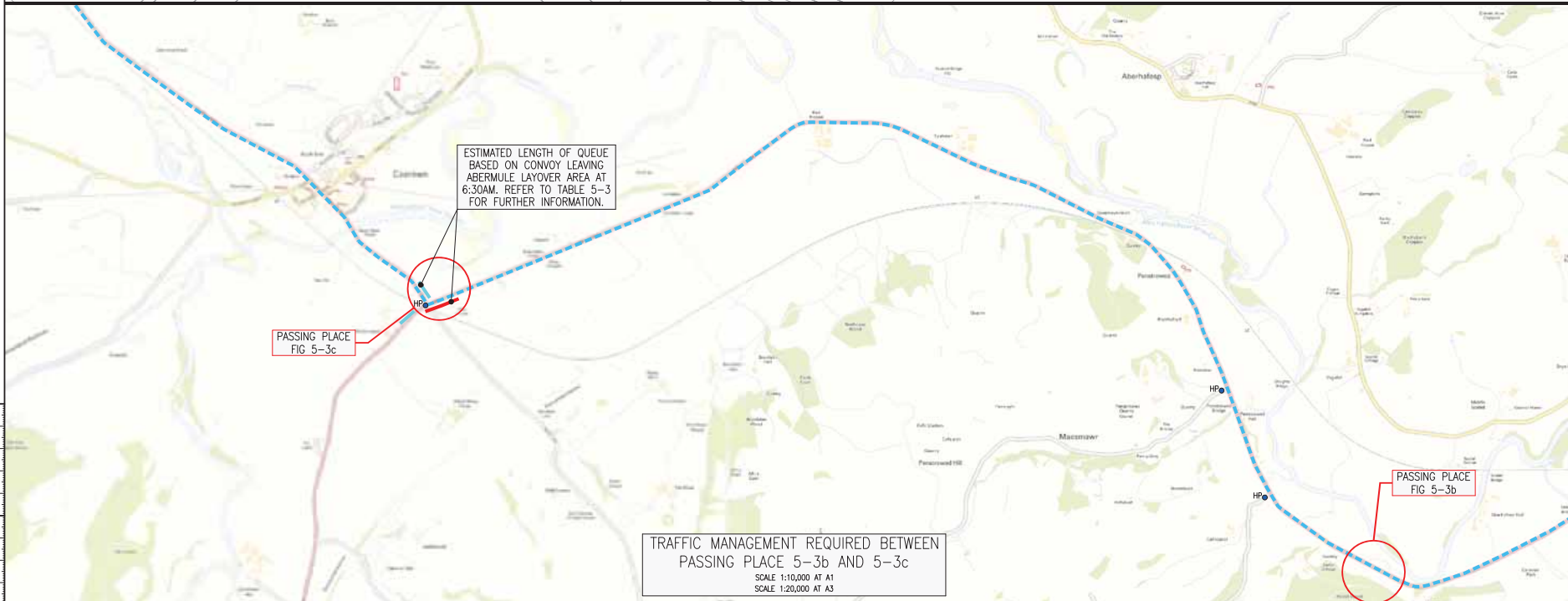
- ROUTE FROM NEWTOWN TO SSA B (SOUTH)
- HP POLICE HOLDING POINT
- RS ROAD SIGN
- TP TELEGRAPH POLE
- HARDENED VERGE
- RETAINING STRUCTURE
- SAFETY BARRIER
- ESTIMATED FOLLOWING TRAFFIC QUEUE
- ESTIMATED OPPOSING TRAFFIC QUEUE
- PHOTOGRAPH LOCATION AND DIRECTION
- NEW CARRIAGEWAY SURFACE

VEHICLES LEGEND

- TOWER BASE SECTION VEHICLE
- 45m BLADE VEHICLE
- CIVILIAN ESCORT VEHICLE
- POLICE ESCORT VEHICLE

NOTES

- REFER TO FIGURE 1-4a FOR FURTHER INFORMATION ON ASSUMED DELIVERY VEHICLES.
- BLADE DELIVERY VEHICLE ASSUMED TO LEAD AS IT WILL SET THE CONVOY SPEED.
- ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
- THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA MAY BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.
- ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.



P5	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	SPL	FT	DLP	09/08/11
P4	NOTES AMENDED	SB	FT	DLP	27/04/11
P3	DISTANCE TO PREVIOUS PASSING PLACE AMENDED TO SUIT REVISED JOURNEY TIMES	PSN	RS	DLP	03/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDER REVIEW	PSN	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHGD	APRD	DATE

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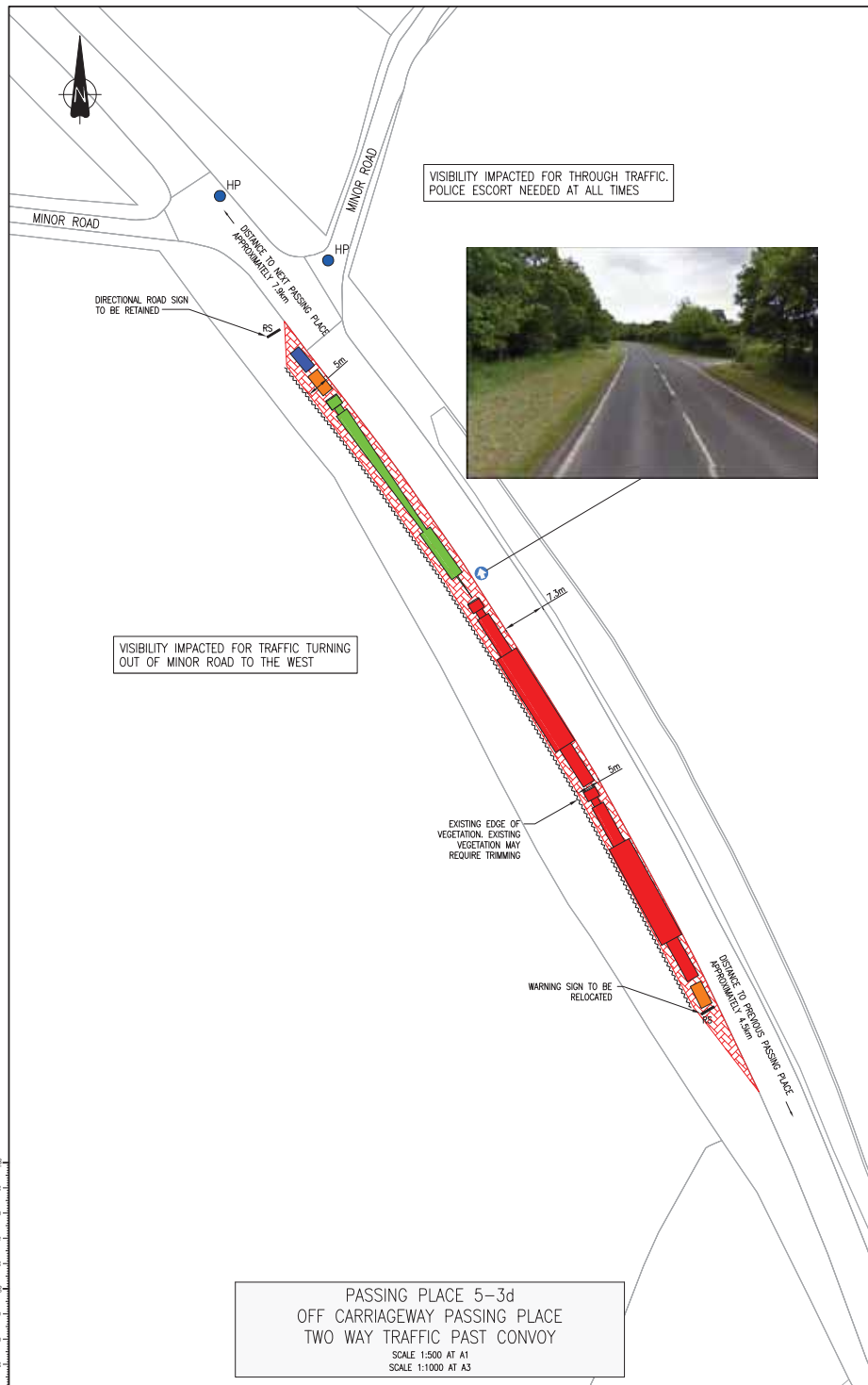
PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
FIGURE 5-3c
PASSING PLACE
CAERSWS

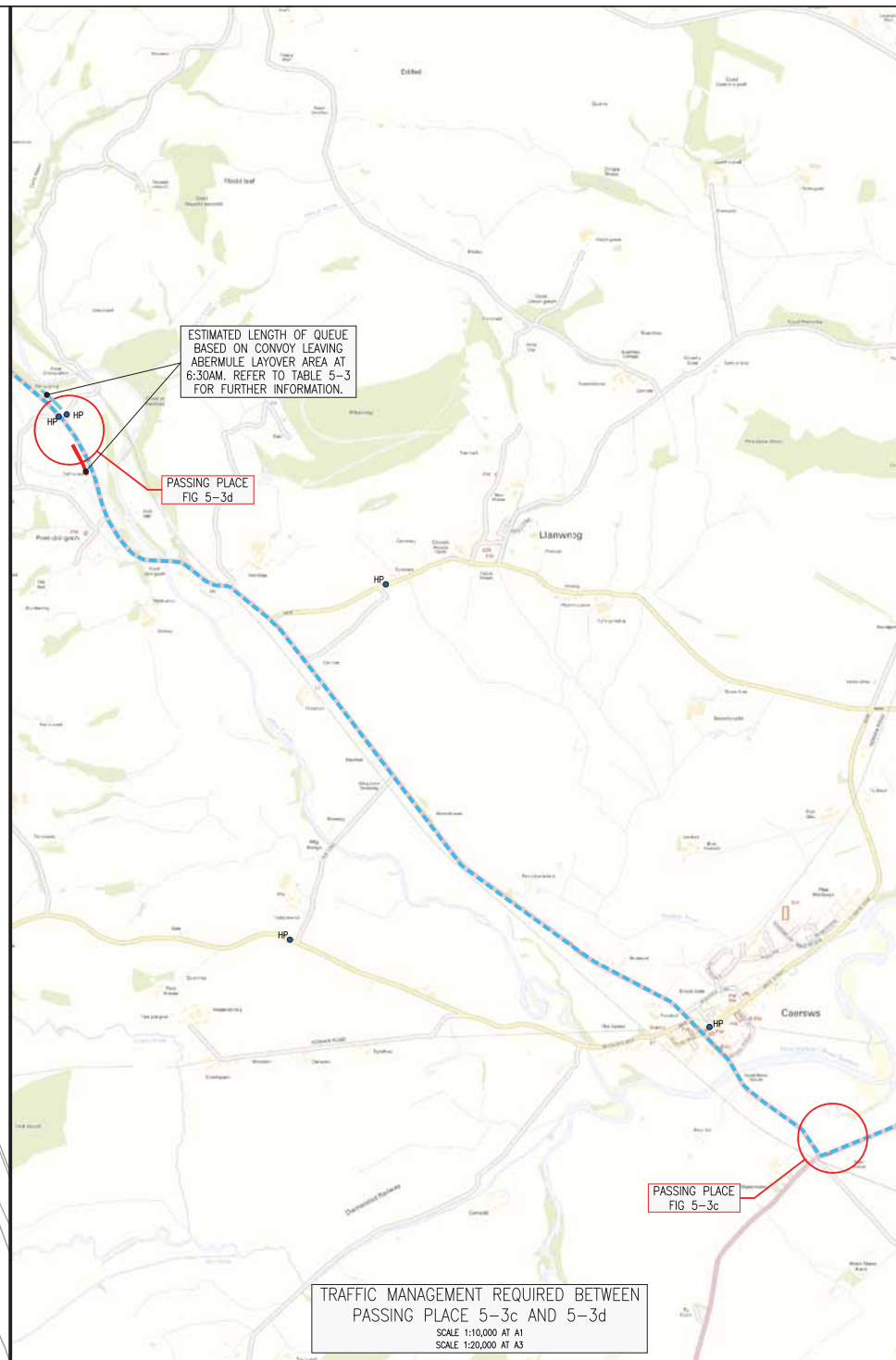
STATUS
FOR INFORMATION

DRAWN AR	CHECKED DHI	APPROVED STW
DATE 16.08.11	DATE 16.08.11	DATE 16.08.11
DRAWING SCALE AS SHOWN		ORIGINAL DRAWING SIZE 594 x 841 - A1

DRAWING NO: **108526-FIG 5-3c** REV: **P5**



PASSING PLACE 5-3d
OFF CARRIAGEWAY PASSING PLACE
TWO WAY TRAFFIC PAST CONVOY
SCALE 1:500 AT A1
SCALE 1:1000 AT A3



TRAFFIC MANAGEMENT REQUIRED BETWEEN
PASSING PLACE 5-3c AND 5-3d
SCALE 1:10,000 AT A1
SCALE 1:20,000 AT A3

NOTES

LEGEND

- ROUTE FROM NEWTOWN TO SSA B (SOUTH)
- HP POLICE HOLDING POINT
- RS ROAD SIGN
- TP TELEGRAPH POLE
- Hardened Verge
- Retaining Structure
- Safety Barrier
- Estimated Following Traffic Queue
- Estimated Opposing Traffic Queue
- Photograph Location and Direction
- New Carriageway Surface

VEHICLES LEGEND

- TOWER BASE SECTION VEHICLE
- 45m BLADE VEHICLE
- CIVILIAN ESCORT VEHICLE
- POLICE ESCORT VEHICLE

NOTES

- REFER TO FIGURE 1-4a FOR FURTHER INFORMATION ON ASSUMED DELIVERY VEHICLES.
- BLADE DELIVERY VEHICLE ASSUMED TO LEAD AS IT WILL SET THE CONVOY SPEED.
- ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
- THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA MAY BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.
- ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.

P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	SRL	IFT	DLP	09/08/11
P3	NOTES AMENDED	SB	IFT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSM	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE

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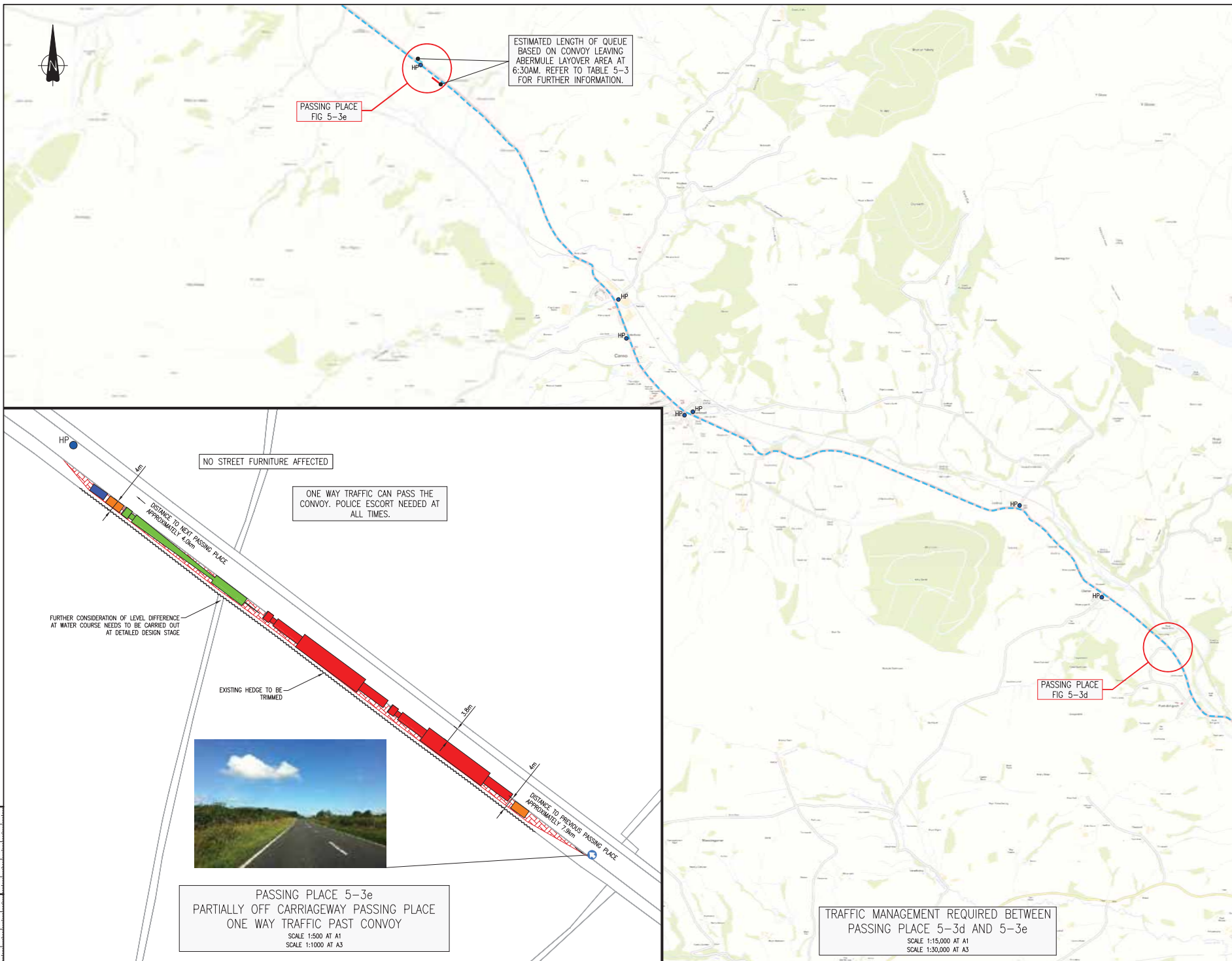
PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
FIGURE 5-3d
PASSING PLACE
PONTDOLGOCH

STATUS
FOR INFORMATION

DRAWN	AR	CHECKED	DH	APPROVED	STW
DATE	16.08.11	DATE	16.08.11	DATE	16.08.11
DRAWING SCALE	AS SHOWN	ORIGINAL DRAWING SIZE	594 x 841 - A1		

DRAWING NO: **108526-FIG 5-3d** REV: **P4**



ESTIMATED LENGTH OF QUEUE BASED ON CONVOY LEAVING ABERMULE LAYOVER AREA AT 6:30AM. REFER TO TABLE 5-3 FOR FURTHER INFORMATION.

PASSING PLACE FIG 5-3e

NO STREET FURNITURE AFFECTED

ONE WAY TRAFFIC CAN PASS THE CONVOY. POLICE ESCORT NEEDED AT ALL TIMES.

FURTHER CONSIDERATION OF LEVEL DIFFERENCE AT WATER COURSE NEEDS TO BE CARRIED OUT AT DETAILED DESIGN STAGE



PASSING PLACE 5-3e
PARTIALLY OFF CARRIAGEWAY PASSING PLACE
ONE WAY TRAFFIC PAST CONVOY
SCALE 1:500 AT A1
SCALE 1:1000 AT A3

TRAFFIC MANAGEMENT REQUIRED BETWEEN
PASSING PLACE 5-3d AND 5-3e
SCALE 1:15,000 AT A1
SCALE 1:30,000 AT A3

NOTES

- LEGEND
- ROUTE FROM NEWTON TO SSA B (SOUTH)
 - HP POLICE HOLDING POINT
 - RS ROAD SIGN
 - TP TELEGRAPH POLE
 - [Hatched Box] HARDENED VERGE
 - RETAINING STRUCTURE
 - SAFETY BARRIER
 - ESTIMATED FOLLOWING TRAFFIC QUEUE
 - ESTIMATED OPPOSING TRAFFIC QUEUE
 - [Blue Arrow] PHOTOGRAPH LOCATION AND DIRECTION
 - [Grey Box] NEW CARRIAGEWAY SURFACE
- VEHICLES LEGEND
- [Red Box] TOWER BASE SECTION VEHICLE
 - [Green Box] 45m BLADE VEHICLE
 - [Orange Box] CIVILIAN ESCORT VEHICLE
 - [Blue Box] POLICE ESCORT VEHICLE

- NOTES
- REFER TO FIGURE 1-4a FOR FURTHER INFORMATION ON ASSUMED DELIVERY VEHICLES.
 - BLADE DELIVERY VEHICLE ASSUMED TO LEAD AS IT WILL SET THE CONVOY SPEED.
 - ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
 - THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA MAY BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.
 - ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.

P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	SPL	FT	DLP	09/08/11
P3	NOTES AMENDED	SB	FT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSM	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE

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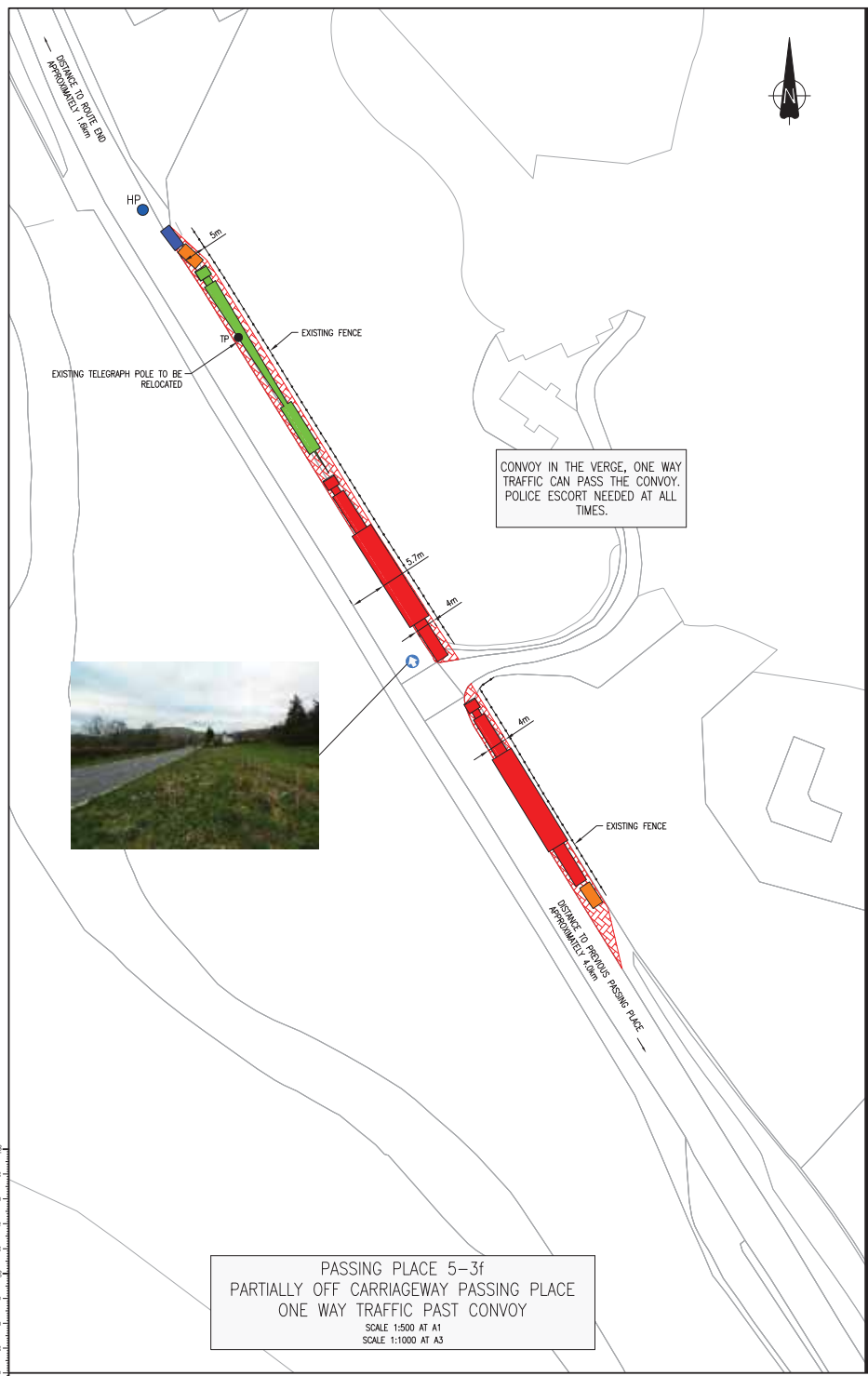
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STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 5-3e
PASSING PLACE
TALERDDIG**

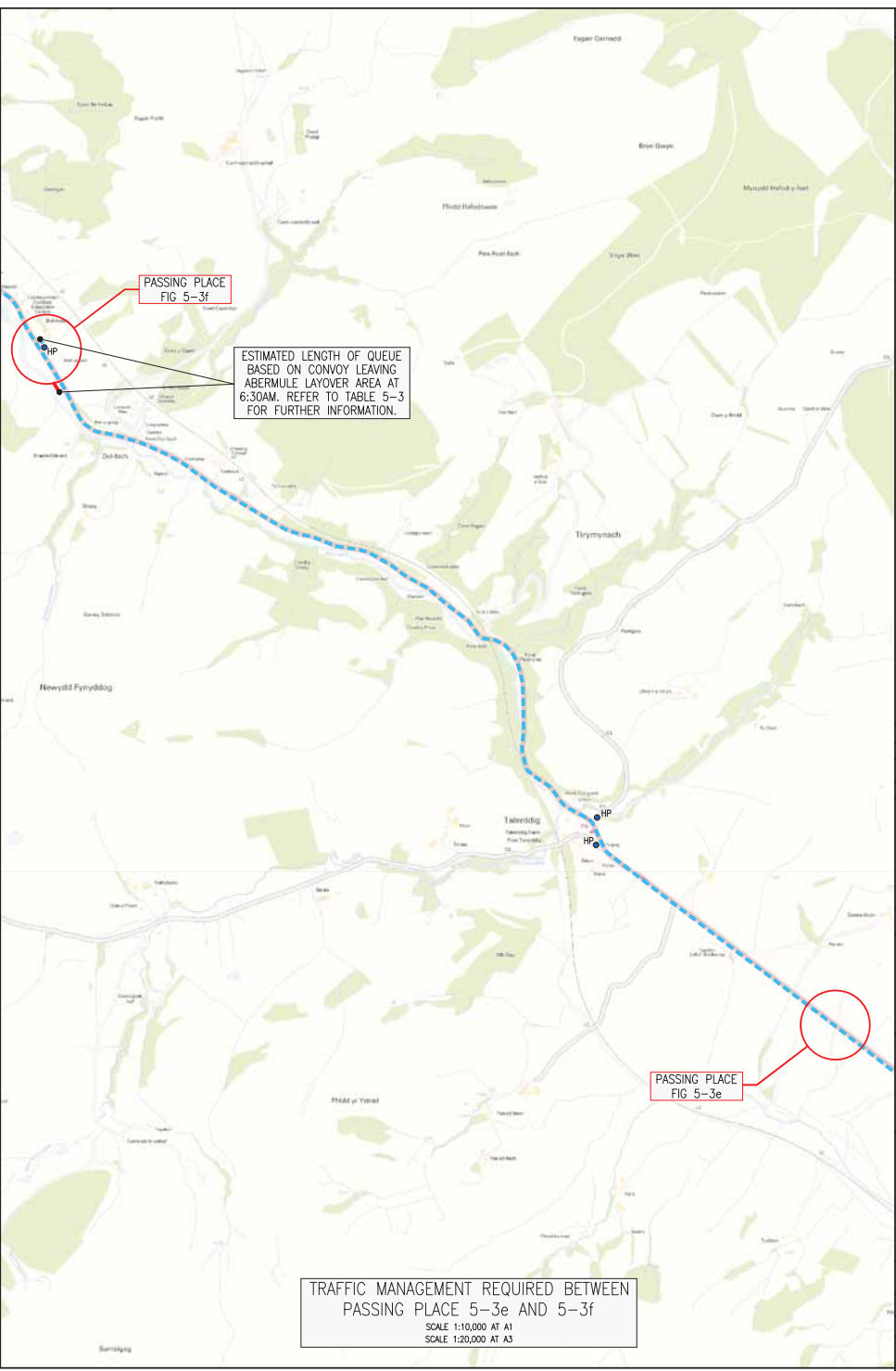
STATUS
FOR INFORMATION

DRAWN AR	CHECKED DH	APPROVED STW
DATE 16.08.11	DATE 16.08.11	DATE 16.08.11
DRAWING SCALE AS SHOWN		ORIGINAL DRAWING SIZE 594 x 841 - A1

DRAWING NO: **108526-FIG 5-3e** REV: **P4**



PASSING PLACE 5-3f
PARTIALLY OFF CARRIAGEWAY PASSING PLACE
ONE WAY TRAFFIC PAST CONVOY
SCALE 1:5000 AT A1
SCALE 1:1000 AT A3



TRAFFIC MANAGEMENT REQUIRED BETWEEN
PASSING PLACE 5-3e AND 5-3f
SCALE 1:10,000 AT A1
SCALE 1:20,000 AT A3

NOTES

LEGEND

- ROUTE FROM NEWTOWN TO SSA B (SOUTH)
- HP POLICE HOLDING POINT
- RS ROAD SIGN
- TP TELEGRAPH POLE
- HARDENED VERGE
- RETAINING STRUCTURE
- SAFETY BARRIER
- ESTIMATED FOLLOWING TRAFFIC QUEUE
- ESTIMATED OPPOSING TRAFFIC QUEUE
- PHOTOGRAPH LOCATION AND DIRECTION
- NEW CARRIAGEWAY SURFACE

VEHICLES LEGEND

- TOWER BASE SECTION VEHICLE
- 45m BLADE VEHICLE
- CIVILIAN ESCORT VEHICLE
- POLICE ESCORT VEHICLE

NOTES

- REFER TO FIGURE 1-4a FOR FURTHER INFORMATION ON ASSUMED DELIVERY VEHICLES.
- BLADE DELIVERY VEHICLE ASSUMED TO LEAD AS IT WILL SET THE CONVOY SPEED.
- ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
- THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA MAY BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.
- ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.

P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	SRL	IFT	DLP	09/08/11
P3	NOTES AMENDED	SB	IFT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSM	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE

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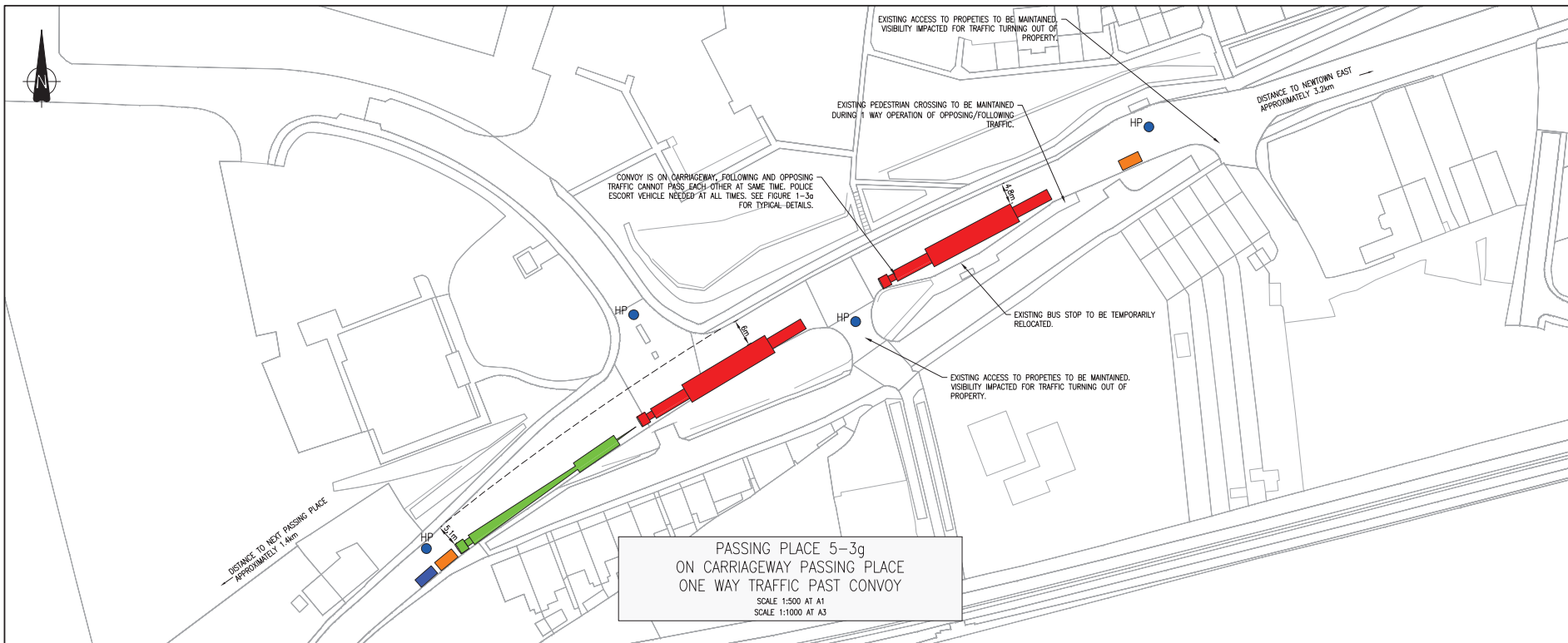
TITLE
FIGURE 5-3f
PASSING PLACE
DOLFACH

STATUS
FOR INFORMATION

DRAWN AR	CHECKED DH	APPROVED STW
DATE 16.08.11	DATE 16.08.11	DATE 16.08.11
DRAWING SCALE AS SHOWN		ORIGINAL DRAWING SIZE 594 x 841 - A1

108526-FIG 5-3f

DRAWING NO. **P4**



NOTES

LEGEND

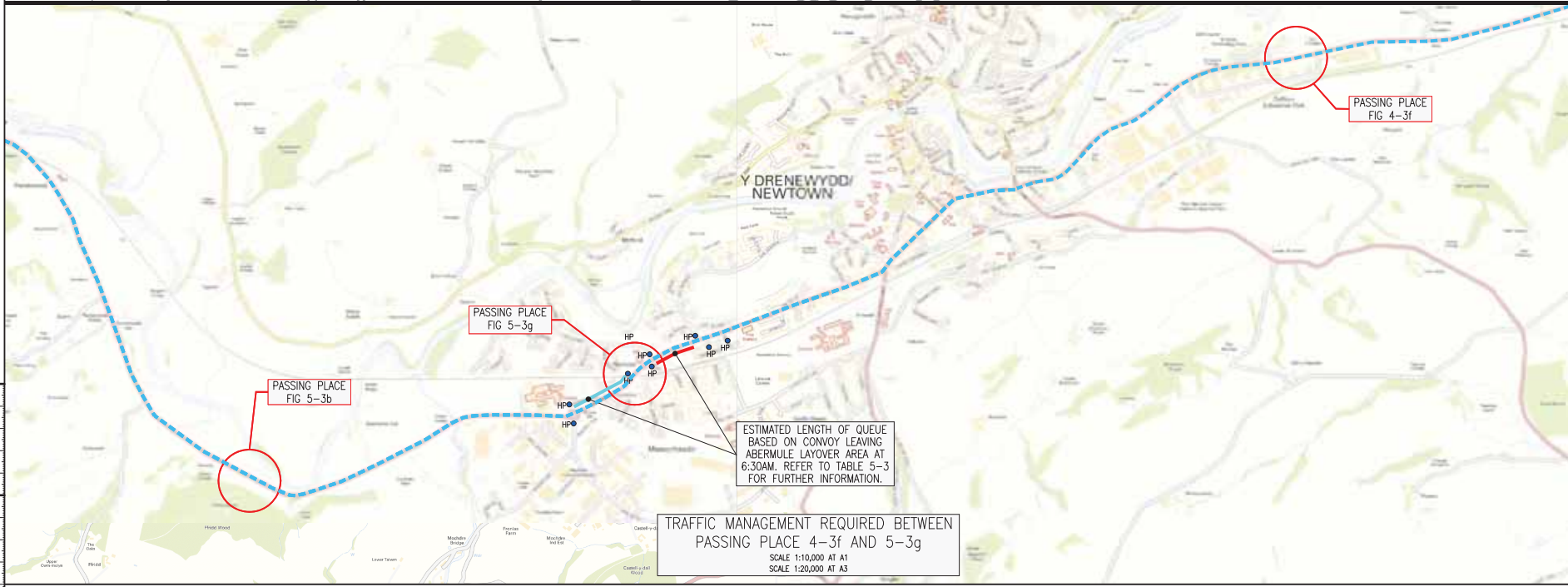
- ROUTE FROM WELSHPOOL TO NEWTOWN
- HP POLICE HOLDING POINT
- RS ROAD SIGN
- TP TELEGRAPH POLE
- HARDENED VERGE
- RETAINING STRUCTURE
- SAFETY BARRIER
- ESTIMATED FOLLOWING TRAFFIC QUEUE
- ESTIMATED OPPOSING TRAFFIC QUEUE
- PHOTOGRAPH LOCATION AND DIRECTION
- NEW CARRIAGEWAY SURFACE

VEHICLES LEGEND

- TOWER BASE SECTION VEHICLE
- 45m BLADE VEHICLE
- CIVILIAN ESCORT VEHICLE
- POLICE ESCORT VEHICLE

NOTES

- REFER TO FIGURE 1-4g FOR FURTHER INFORMATION ON ASSUMED DELIVERY VEHICLES.
- BLADE DELIVERY VEHICLE ASSUMED TO LEAD AS IT WILL SET THE CONVOY SPEED.
- ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
- THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA MAY BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.
- ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.



P5	NEWPORT LAYOUT AMENDED	SB	FT	LC	19/08/11
P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	SPL	FT	DLP	13/08/11
P3	NOTES AMENDED	SB	FT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSM	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE

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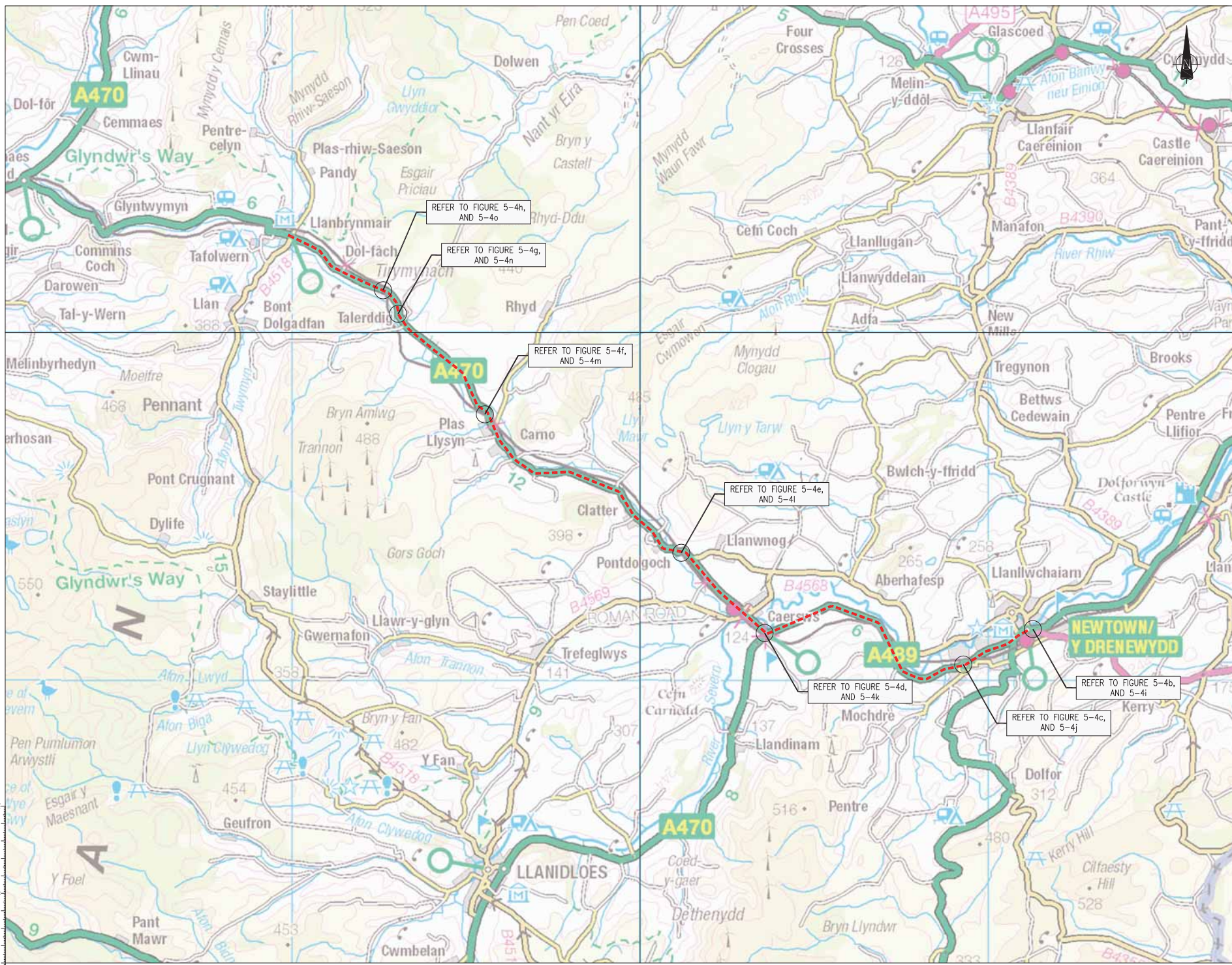
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PROJECT
 STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
 FIGURE 5-3g
 PASSING PLACE NEWTOWN

STATUS
 FOR INFORMATION

DRAWN	AR	CHECKED	RRS	APPROVED	DLP
DATE	16.08.11	DATE	16.08.11	DATE	16.08.11
DRAWING SCALE	AS SHOWN	ORIGINAL DRAWING SIZE	594 x 841 - A1		
DRAWING NO.	108526-FIG 5-3g			REV	P5



NOTES

LEGEND

--- ROUTE FROM NEWTOWN TO SSA B (SOUTH)

REV	SCALE NOTES AMENDED	BY	MC	DUP	20/03/12
REV	AMENDMENTS	BY	CHKD	APPD	DATE

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CLIENT: **RENEWABLEUK CYMRU**

PROJECT: **STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WIND FARMS**

TITLE: **FIGURE 5-4a
SWEPT PATH ANALYSIS
OVERVIEW ALONG ROUTE
FROM NEWTOWN TO SSA B
(SOUTH)**

STATUS: **FOR INFORMATION**

DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
DPL	18/08/11	IFT	18/08/11	DH	18/08/11
DRAWING SCALE	1:50000 at A1 1:100000 at A3	ORIGINAL DRAWING SIZE	594 x 841 - A1		

DRAWN BY: **108526-FIG 5-4a** REV: **B**



PASSING SPLITTER ISLANDS ON THE RIGHT HAND SIDE OF THE CARRIAGEWAY ENABLES DELIVERY VEHICLES TO NEGOTIATE THE JUNCTION WITHOUT THE NEED FOR MANUAL REAR STEERING, AND RESULTS IN NO OVERSAIL.



- NOTES**
- KEY**
- VEHICLE OUTLINE
 - CHASSIS SWEEP-PATH
 - LOAD OVERSAIL
 - ASSUMED HIGHWAY BOUNDARY
 - EXISTING STREET FURNITURE
 - RELOCATED STREET FURNITURE
 - PHOTOGRAPH LOCATION AND DIRECTION
 - LOAD OVERSAIL ENVELOPE
 - CARRIAGEWAY IMPROVEMENT WORKS
 - VEHICLE OVER-RUN CONSTRUCTION
 - FOOTWAY WORKS
 - VEGETATION CLEARANCE
- NOTES**
1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
 2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 45m BLADE DELIVERY VEHICLE. REFER TO FIGURE 1-4a FOR FURTHER INFORMATION.
 3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDNANCE SURVEY, AND LOCALISED TOPOGRAPHICAL SURVEY DATA.
 4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
 5. ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
 6. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
 7. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY.

SWEPT PATH MOVEMENTS
SCALE 1:500 at A1
SCALE 1:1000 at A3

HIGHWAY WORKS
SCALE 1:500 at A1
SCALE 1:1000 at A3

P2	SCALE NOTES AMENDED	BY	MC	DLP	2009/12
REV	AMENDMENTS	BY	CHKD	APPRD	DATE

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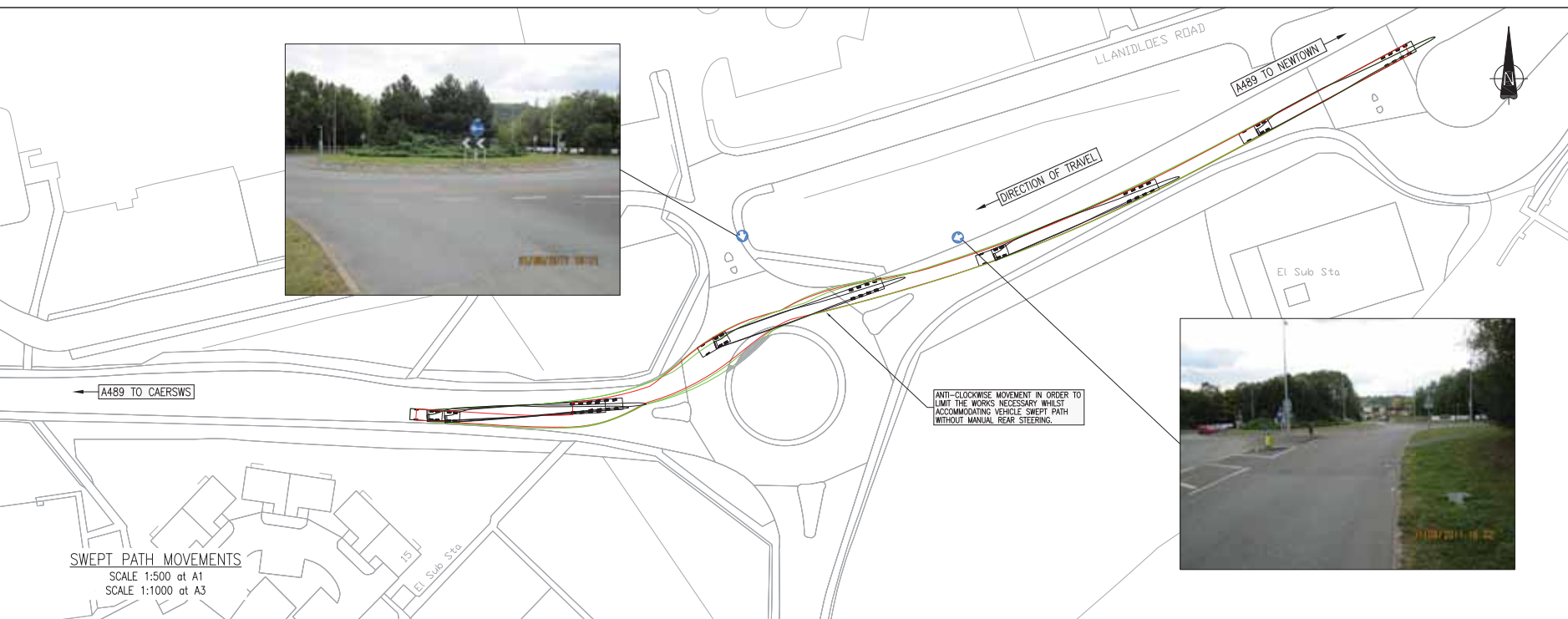
PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 5-4b
SWEPT PATH ANALYSIS
A483/A489 JUNCTION**

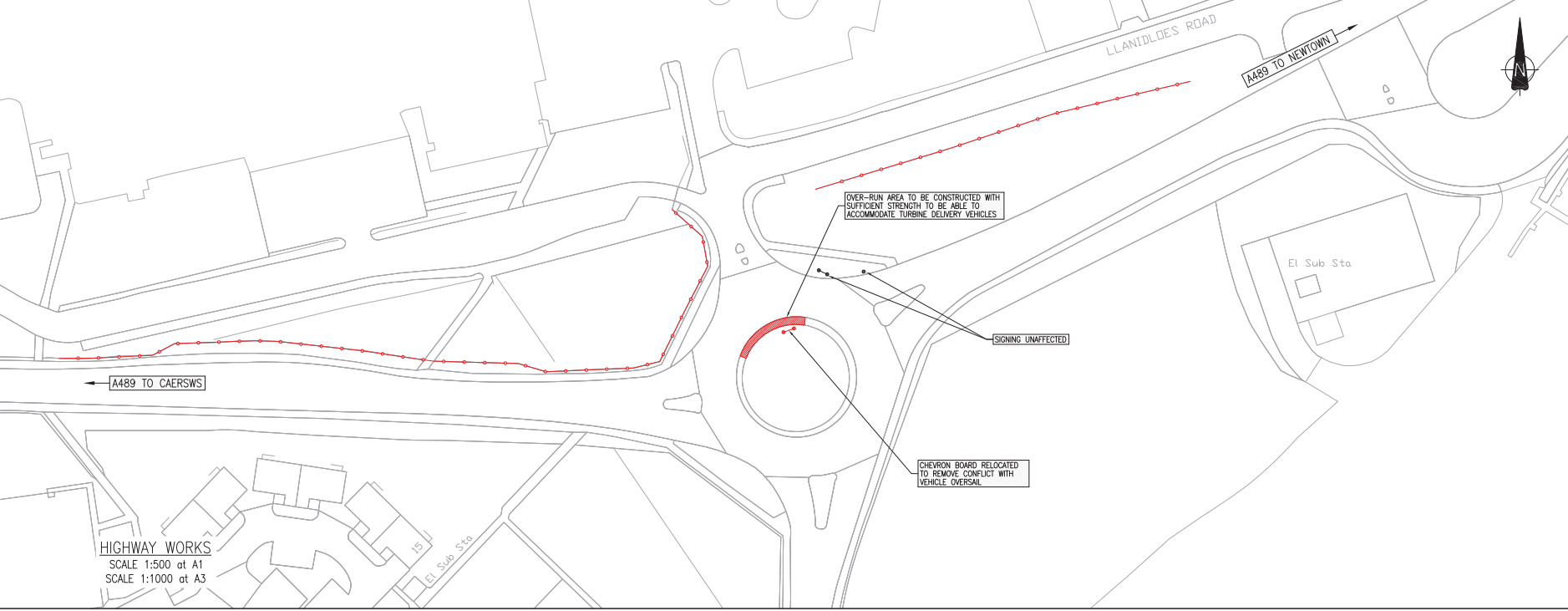
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FOR INFORMATION

DRAWN	CHECKED	APPROVED
MC	JFT	DH
DATE	DATE	DATE
15/09/11	15/09/11	15/09/11
DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	

DRAWING NO: **108526-FIG 5-4b** REV: **P2**



SWEPT PATH MOVEMENTS
SCALE 1:500 at A1
SCALE 1:1000 at A3



HIGHWAY WORKS
SCALE 1:500 at A1
SCALE 1:1000 at A3

- NOTES**
- KEY:-**
- VEHICLE OUTLINE
 - CHASSIS SWEEP-PATH
 - LOAD OVERSAIL
 - ASSUMED HIGHWAY BOUNDARY
 - EXISTING STREET FURNITURE
 - RELOCATED STREET FURNITURE
 - PHOTOGRAPH LOCATION AND DIRECTION
 - LOAD OVERSAIL ENVELOPE
 - CARRIAGEWAY IMPROVEMENT WORKS
 - VEHICLE OVER-RUN CONSTRUCTION
 - FOOTWAY WORKS
 - VEGETATION CLEARANCE
- NOTES:-**
1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
 2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 45m BLADE DELIVERY VEHICLE. REFER TO FIGURE 1-4a FOR FURTHER INFORMATION.
 3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDNANCE SURVEY DATA.
 4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
 5. ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
 6. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
 7. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA WILL BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.

REV	AMENDMENTS	BY	CHKD	APRD	DATE
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BLIND, CORNLS, DRAIN, EMBANK, GULLIES, LEVELS, LINDERS, PARASOLS, ROADWORK, SIGNALLING, WESTERN

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PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 5-4c
SWEPT PATH ANALYSIS
NEWTOWN A489
ROUNDBOUT**

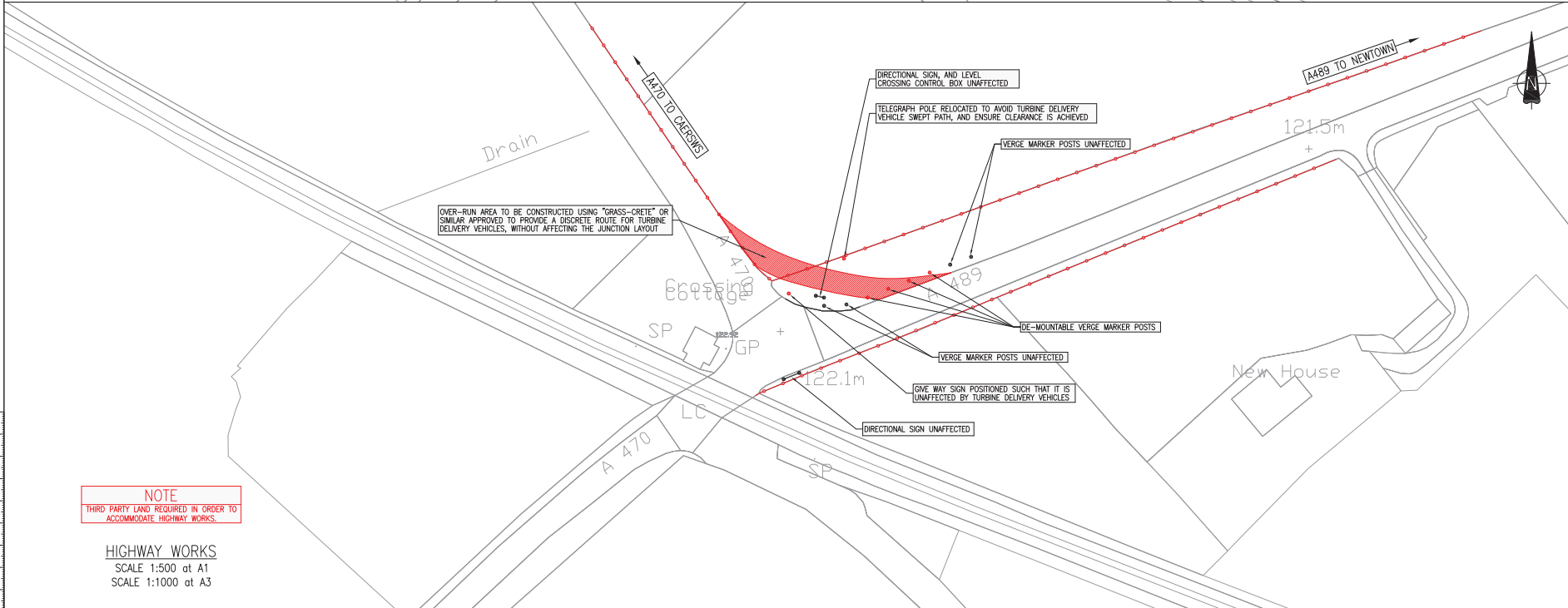
STATUS
FOR INFORMATION

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MC	IFT	DH
DATE	DATE	DATE
15/09/11	15/09/11	15/09/11
DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	

DRAWING NO: **108526-FIG 5-4c** REV: **P2**



SWEPT PATH MOVEMENTS
SCALE 1:500 at A1
SCALE 1:1000 at A3



NOTE
THIRD PARTY LAND REQUIRED IN ORDER TO ACCOMMODATE HIGHWAY WORKS.

HIGHWAY WORKS
SCALE 1:500 at A1
SCALE 1:1000 at A3

NOTES

KEY:-

- VEHICLE OUTLINE
- CHASSIS SWEEP-PATH
- LOAD OVERSAL
- ASSUMED HIGHWAY BOUNDARY
- EXISTING STREET FURNITURE
- RELOCATED STREET FURNITURE
- PHOTOGRAPH LOCATION AND DIRECTION
- LOAD OVERSAL ENVELOPE
- CARRIAGEWAY IMPROVEMENT WORKS
- VEHICLE OVER-RUN CONSTRUCTION
- FOOTWAY WORKS
- VEGETATION CLEARANCE

NOTES:-

1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 45m BLADE DELIVERY VEHICLE. REFER TO FIGURE 1-4a FOR FURTHER INFORMATION.
3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDINANCE SURVEY DATA.
4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
5. ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
6. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
7. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA WILL BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.

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CLIENT:
RENEWABLEUK CYMRU

PROJECT:
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE:
**FIGURE 5-4d
SWEPT PATH ANALYSIS
A489/A470 JUNCTION
CAERWS**

STATUS:
FOR INFORMATION

DRAWN	CHECKED	APPROVED
MC	JFT	DH
DATE: 07/09/11	DATE: 07/09/11	DATE: 07/09/11
DRAWING SCALE: AS SHOWN		ORIGINAL DRAWING SIZE: 594 x 841 - A1

DRAWING NO: **108526-FIG 5-4d** REV: **P2**



NOTE
MANUAL REAR STEERING REQUIRED TO NEGOTIATE JUNCTION.

SWEEP PATH MOVEMENTS
SCALE 1:500 at A1
SCALE 1:1000 at A3

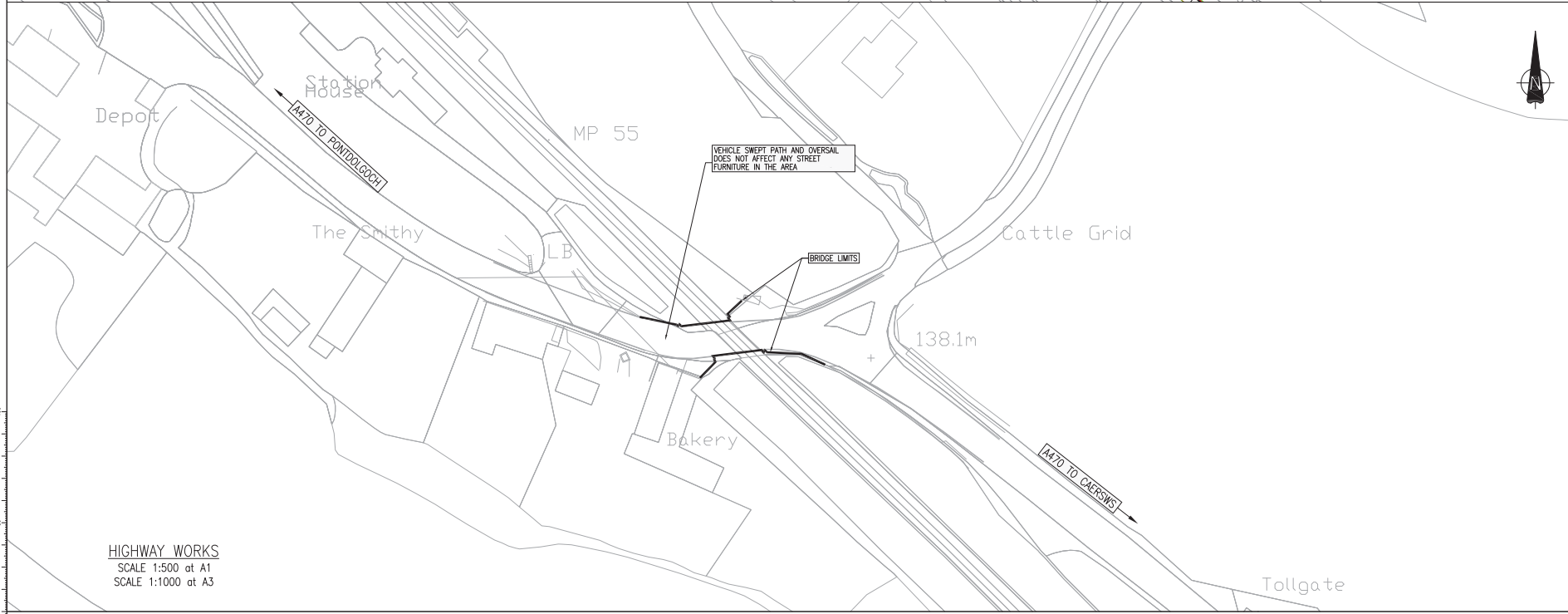
NOTES

KEY:-

- VEHICLE OUTLINE
- CHASSIS SWEEP-PATH
- LOAD OVERSAIL
- ASSUMED HIGHWAY BOUNDARY
- EXISTING STREET FURNITURE
- RELOCATED STREET FURNITURE
- PHOTOGRAPH LOCATION AND DIRECTION
- LOAD OVERSAIL ENVELOPE
- CARRIAGEWAY IMPROVEMENT WORKS
- VEHICLE OVER-RUN CONSTRUCTION
- FOOTWAY WORKS
- VEGETATION CLEARANCE

NOTES:-

- AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
- VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 45m BLADE DELIVERY VEHICLE. REFER TO FIGURE 1-4a FOR FURTHER INFORMATION.
- SWEEP PATH ANALYSIS CARRIED OUT AGAINST LOCALISED TOPOGRAPHICAL SURVEY DATA.
- MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
- ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
- ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
- THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. ADDITIONAL TOPOGRAPHICAL SURVEY OF THE AREA WILL BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.



HIGHWAY WORKS
SCALE 1:500 at A1
SCALE 1:1000 at A3

P2	SCALE NOTES AMENDED	IFT	MC	GLP	20/03/12
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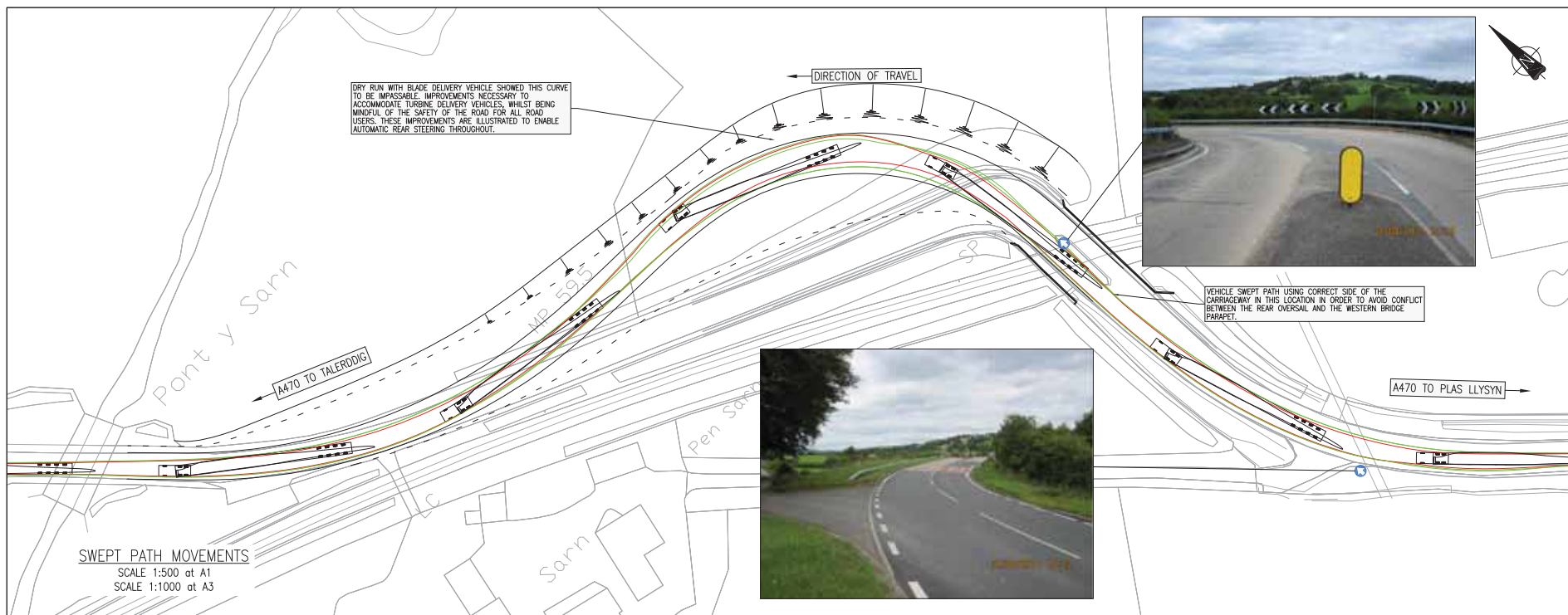
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PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
FIGURE 5-4e
SWEEP PATH ANALYSIS
A470 PONTDOLGOCH

STATUS
FOR INFORMATION

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IFT	DH	DH
DATE	DATE	DATE
15/09/11	15/09/11	15/09/11
DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	
DRAWING NO:	REV:	
108526-FIG 5-4e	P2	



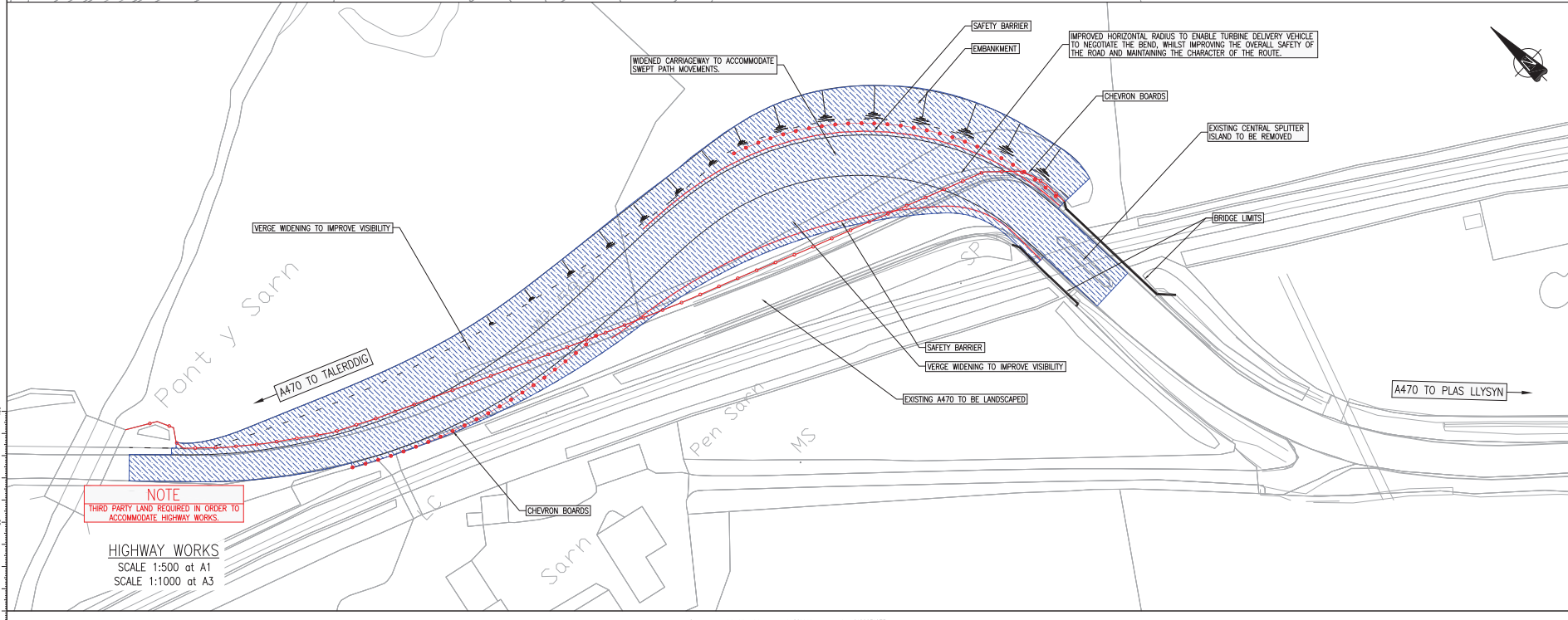
NOTES

KEY:-

- ASSUMED HIGHWAY BOUNDARY
- EXISTING STREET FURNITURE
- RELOCATED STREET FURNITURE
- PHOTOGRAPH LOCATION AND DIRECTION
- LOAD OVERSAIL ENVELOPE
- CARRIAGEWAY IMPROVEMENT WORKS
- VEHICLE OVER-RUN CONSTRUCTION
- FOOTWAY WORKS
- VEGETATION CLEARANCE

NOTES:-

- AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
- VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 45m BLADE DELIVERY VEHICLE. REFER TO FIGURE 1-4a FOR FURTHER INFORMATION.
- SWEEP PATH ANALYSIS CARRIED OUT AGAINST LOCALISED TOPOGRAPHICAL SURVEY DATA.
- MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
- ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
- ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
- THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. ADDITIONAL TOPOGRAPHICAL SURVEY OF THE AREA WILL BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.



SCALE NOTES AMENDED

REV	AMENDMENTS	BY	CHKD	APRD	DATE
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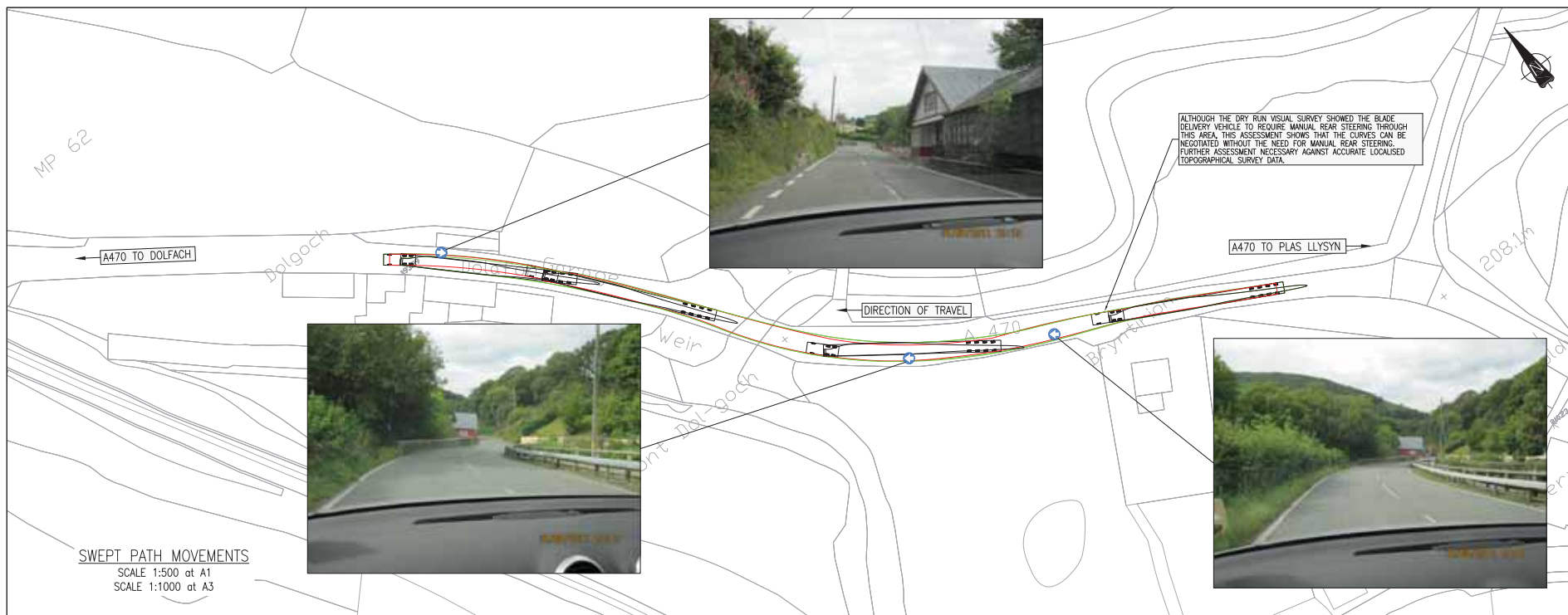
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PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

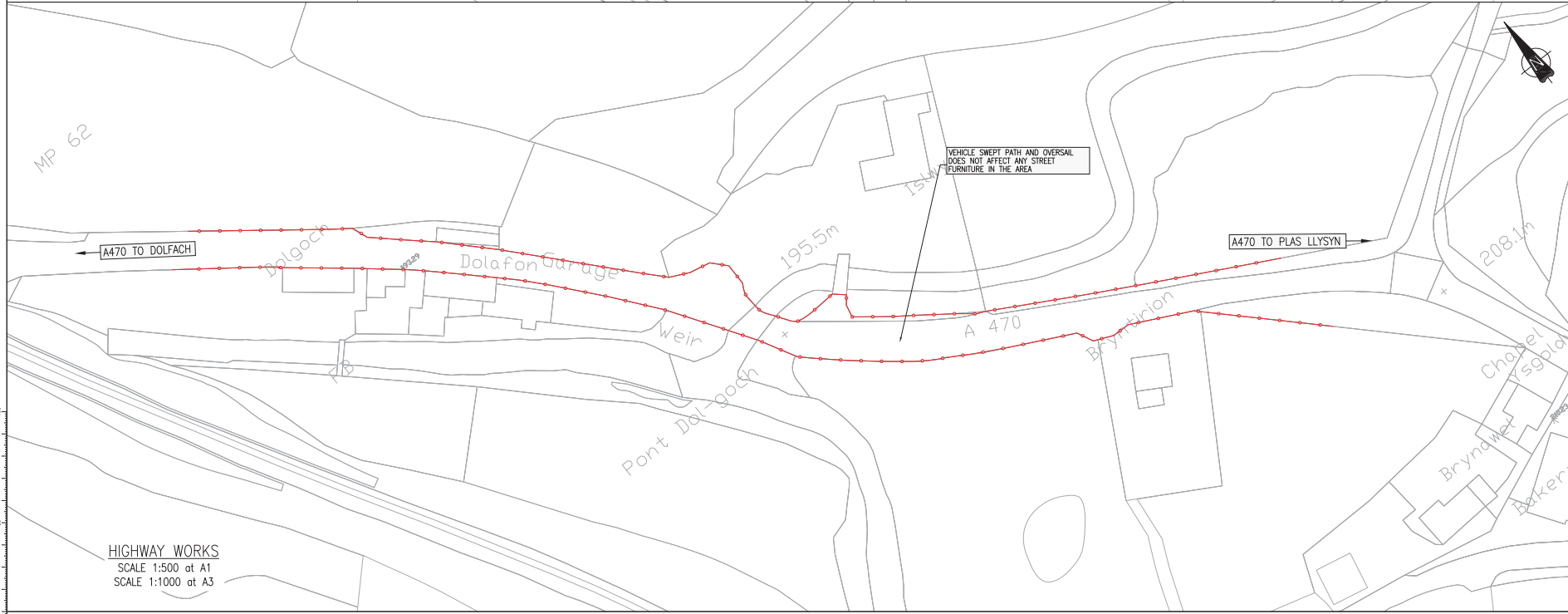
TITLE
**FIGURE 5-4f
SWEEP PATH ANALYSIS
A470 PLAS LLYSYN**

STATUS
FOR INFORMATION

DRAWN	CHECKED	APPROVED
MC	IFT	DH
DATE	DATE	DATE
07/09/11	07/09/11	07/09/11
DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	
DRAWING NO:	REV:	
108526-FIG 5-4f	P2	



SWEPT PATH MOVEMENTS
SCALE 1:500 at A1
SCALE 1:1000 at A3



HIGHWAY WORKS
SCALE 1:500 at A1
SCALE 1:1000 at A3

- NOTES**
- KEY:-**
- VEHICLE OUTLINE
 - CHASSIS SWEEP-PATH
 - LOAD OVERSAIL
 - ASSUMED HIGHWAY BOUNDARY
 - EXISTING STREET FURNITURE
 - RELOCATED STREET FURNITURE
 - PHOTOGRAPH LOCATION AND DIRECTION
 - LOAD OVERSAIL ENVELOPE
 - CARRAGEWAY IMPROVEMENT WORKS
 - VEHICLE OVER-RUN CONSTRUCTION
 - FOOTWAY WORKS
 - VEGETATION CLEARANCE
- NOTES:-**
1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
 2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 45m BLADE DELIVERY VEHICLE. REFER TO FIGURE 1-4a FOR FURTHER INFORMATION.
 3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST LOCALISED TOPOGRAPHICAL SURVEY DATA.
 4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
 5. ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
 6. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
 7. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA WILL BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.

REV	AMENDMENTS	BY	CHKD	APRD	DATE
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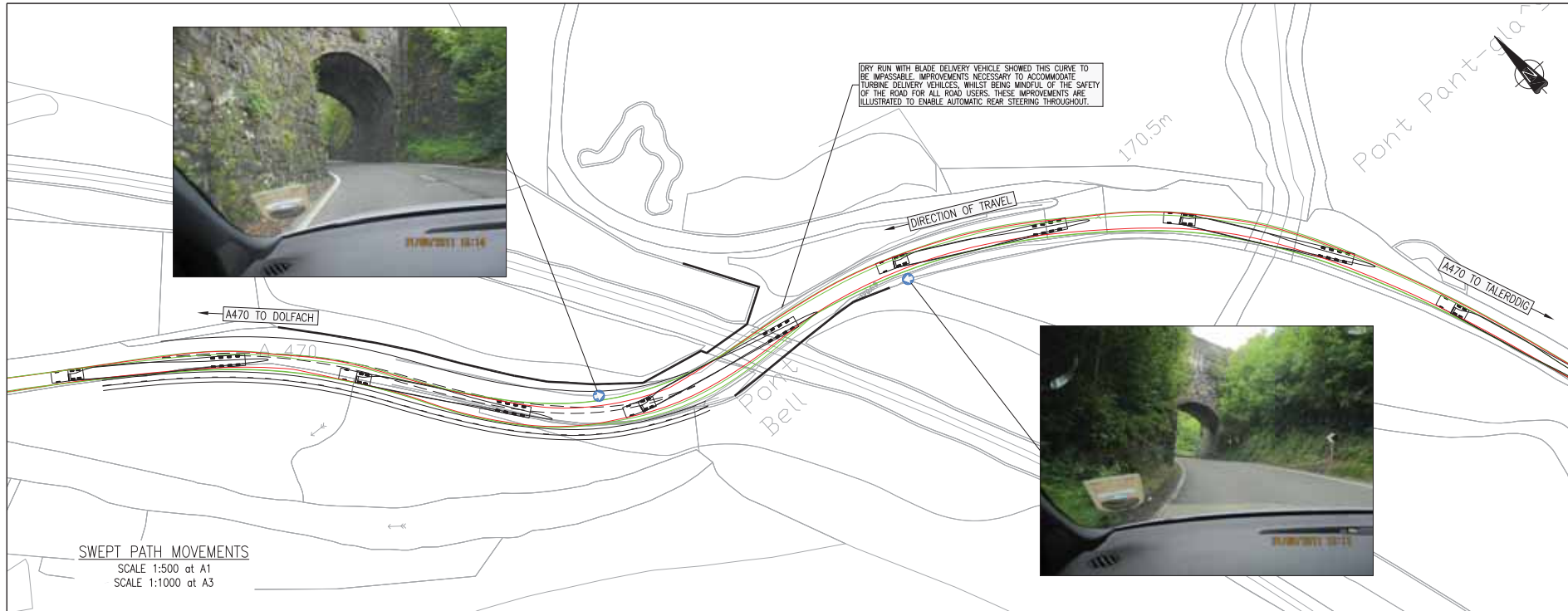
PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES FARM WIND FARMS

TITLE
FIGURE 5-4g
SWEPT PATH ANALYSIS
A470 TALERDIGG

STATUS
FOR INFORMATION

DRAWN	CHECKED	APPROVED
MC	IFT	DH
DATE 16/09/11	DATE 16/09/11	DATE 16/09/11
DRAWING SCALE AS SHOWN	ORIGINAL DRAWING SIZE 594 x 841 - A1	

DRAWING NO: 108526-FIG 5-4g REV: P2



SWEPT PATH MOVEMENTS
SCALE 1:500 at A1
SCALE 1:1000 at A3

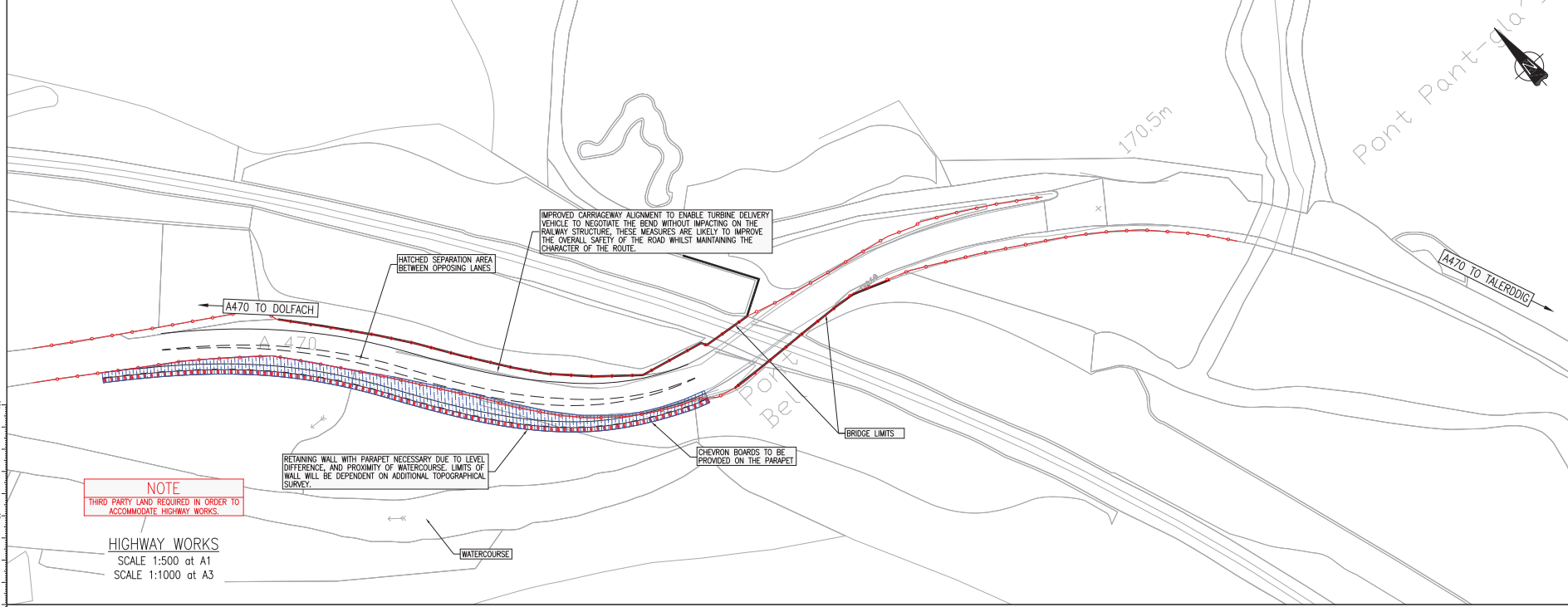
NOTES

KEY:-

- VEHICLE OUTLINE
- CHASSIS SWEEP-PATH
- LOAD OVERSAIL
- ASSUMED HIGHWAY BOUNDARY
- EXISTING STREET FURNITURE
- RELOCATED STREET FURNITURE
- PHOTOGRAPH LOCATION AND DIRECTION
- LOAD OVERSAIL ENVELOPE
- CARRIAGEWAY IMPROVEMENT WORKS
- VEHICLE OVER-RUN CONSTRUCTION
- FOOTWAY WORKS
- VEGETATION CLEARANCE

NOTES:-

1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 45m BLADE DELIVERY VEHICLE. REFER TO FIGURE 1-4a FOR FURTHER INFORMATION.
3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDINANCE SURVEY AND LOCALISED TOPOGRAPHICAL SURVEY DATA.
4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
5. ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
6. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
7. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. ADDITIONAL TOPOGRAPHICAL SURVEY OF THE AREA WILL BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.



HIGHWAY WORKS
SCALE 1:500 at A1
SCALE 1:1000 at A3

P2	SCALE NOTES AMENDED	IFT	MC	GLP	20/03/12
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Client: **RENEWABLEUK CYMRU**

Project: **STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS**

Title: **FIGURE 5-4h
SWEPT PATH ANALYSIS
A470 TIRYMYNACH**

Status: **FOR INFORMATION**

DRAWN	CHECKED	APPROVED
MC	IFT	DH
DATE	DATE	DATE
16/09/11	16/09/11	16/09/11
DRAWING SCALE		ORIGINAL DRAWING SIZE
AS SHOWN		594 x 841 - A1
DRAWING NO:	REV:	
108526-FIG 5-4h	P2	



PASSING SPLITTER ISLANDS ON THE RIGHT HAND SIDE OF THE CARRIAGEWAY ENABLES DELIVERY VEHICLES TO NEGOTIATE THE JUNCTION WITHOUT THE NEED FOR MANUAL REAR STEERING, AND RESULTS IN NO OVERSAIL.



NOTES

KEY:-

- VEHICLE OUTLINE
- CHASSIS SWEEP-PATH
- LOAD OVERSAIL
- ASSUMED HIGHWAY BOUNDARY
- EXISTING STREET FURNITURE
- RELOCATED STREET FURNITURE
- PHOTOGRAPH LOCATION AND DIRECTION
- LOAD OVERSAIL ENVELOPE
- CARRIAGEWAY IMPROVEMENT WORKS
- VEHICLE OVER-RUN CONSTRUCTION
- FOOTWAY WORKS
- VEGETATION CLEARANCE

- NOTES:-**
1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
 2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 34m BLADE DELIVERY VEHICLE. REFER TO FIGURE 5-4p FOR FURTHER INFORMATION.
 3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDNANCE SURVEY, AND LOCALISED TOPOGRAPHICAL SURVEY DATA.
 4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
 5. ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
 6. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
 7. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY.

SWEPT PATH MOVEMENTS
SCALE 1:500 at A1
SCALE 1:1000 at A3

HIGHWAY WORKS
SCALE 1:500 at A1
SCALE 1:1000 at A3

P2	SCALE NOTES AMENDED	IFT	MC	DLP	2009/12
REV	AMENDMENTS	BY	CHKD	APPRD	DATE

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CLIENT: RENEWABLEUK CYMRU

PROJECT: STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE: FIGURE 5-4i
34m BLADE DELIVERY SWEEP PATH ANALYSIS A483/A489 JUNCTION

STATUS: FOR INFORMATION

DRAWN	CHECKED	APPROVED
MC	IFT	DH
DATE: 19/09/11	DATE: 19/09/11	DATE: 19/09/11
DRAWING SCALE: AS SHOWN		ORIGINAL DRAWING SIZE: 594 x 841 - A1

DRAWING NO: 108526-FIG 5-4i REV: P2



- NOTES**
- KEY:-**
- VEHICLE OUTLINE
 - CHASSIS SWEEP-PATH
 - LOAD OVERSAIL
 - ASSUMED HIGHWAY BOUNDARY
 - EXISTING STREET FURNITURE
 - RELOCATED STREET FURNITURE
 - PHOTOGRAPH LOCATION AND DIRECTION
 - LOAD OVERSAIL ENVELOPE
 - CARRIAGEWAY IMPROVEMENT WORKS
 - VEHICLE OVER-RUN CONSTRUCTION
 - FOOTWAY WORKS
 - VEGETATION CLEARANCE

- NOTES:-**
1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
 2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 34m BLADE DELIVERY VEHICLE. REFER TO FIGURE 5-4p FOR FURTHER INFORMATION.
 3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDNANCE SURVEY, AND LOCALISED TOPOGRAPHICAL SURVEY DATA.
 4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
 5. ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
 6. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
 7. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY.

ANTI-CLOCKWISE MOVEMENT IN ORDER TO LIMIT THE WORKS NECESSARY WHILST ACCOMMODATING VEHICLE SWEEP PATH WITHOUT MANUAL REAR STEERING.

SWEPT PATH MOVEMENTS
SCALE 1:500 at A1
SCALE 1:1000 at A3

HIGHWAY WORKS
SCALE 1:500 at A1
SCALE 1:1000 at A3

P2	SCALE NOTES AMENDED	IFT	MC	GLP	20/03/12
REV	AMENDMENTS	BY	CHKD	APRD	DATE

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PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

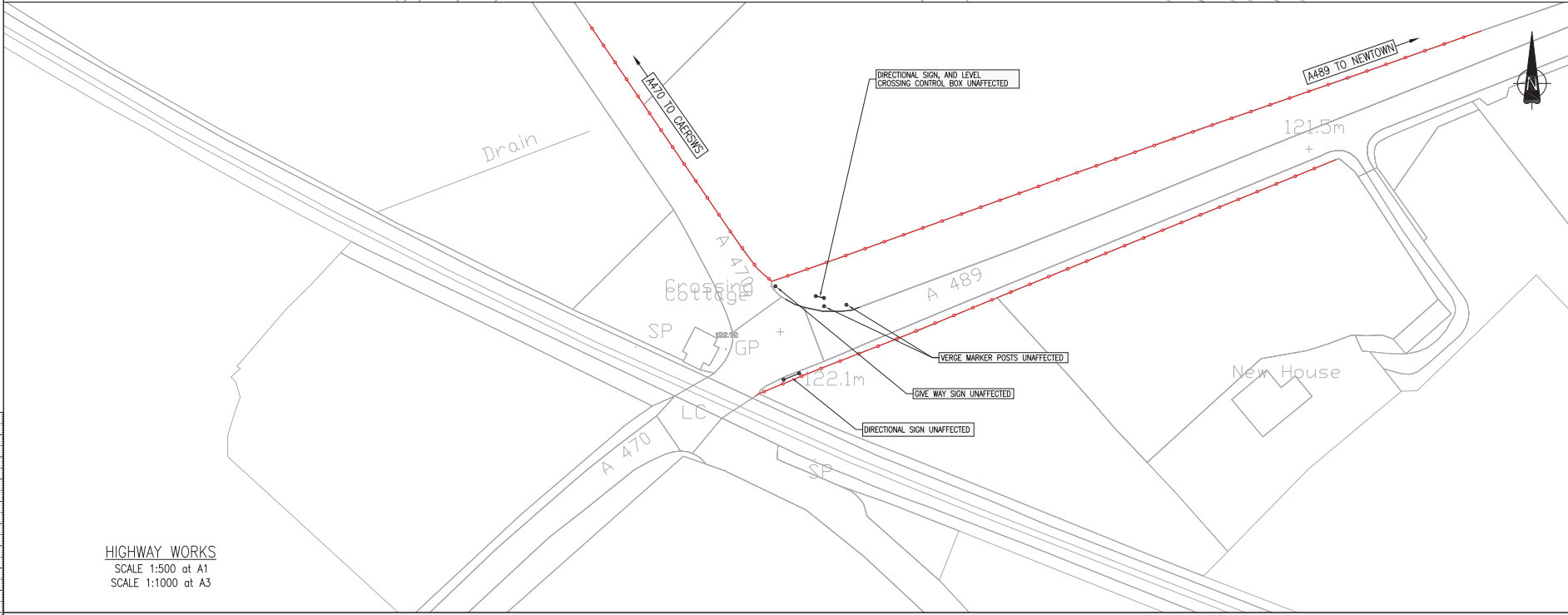
TITLE
**FIGURE 5-4j
34m BLADE DELIVERY SWEEP PATH ANALYSIS
NEWTOWN A489
ROUNDBOUT**

STATUS
FOR INFORMATION

DRAWN	MC	CHECKED	IFT	APPROVED	DH
DATE	19/09/11	DATE	19/09/11	DATE	19/09/11
DRAWING SCALE	AS SHOWN		ORIGINAL DRAWING SIZE	594 x 841 - A1	
DRAWING NO.	108526-FIG 5-4j			REV.	P2



SWEPT PATH MOVEMENTS
 SCALE 1:500 at A1
 SCALE 1:1000 at A3



HIGHWAY WORKS
 SCALE 1:500 at A1
 SCALE 1:1000 at A3

NOTES

KEY:-

- VEHICLE OUTLINE
- CHASSIS SWEEP-PATH
- LOAD OVERSAIL
- ASSUMED HIGHWAY BOUNDARY
- EXISTING STREET FURNITURE
- RELOCATED STREET FURNITURE
- PHOTOGRAPH LOCATION AND DIRECTION
- LOAD OVERSAIL ENVELOPE
- CARRIAGEWAY IMPROVEMENT WORKS
- VEHICLE OVER-RUN CONSTRUCTION
- FOOTWAY WORKS
- VEGETATION CLEARANCE

NOTES:-

1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 34m BLADE DELIVERY VEHICLE. REFER TO FIGURE 5-4p FOR FURTHER INFORMATION.
3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDINANCE SURVEY, AND LOCALISED TOPOGRAPHICAL SURVEY DATA.
4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
5. ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
6. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
7. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY.

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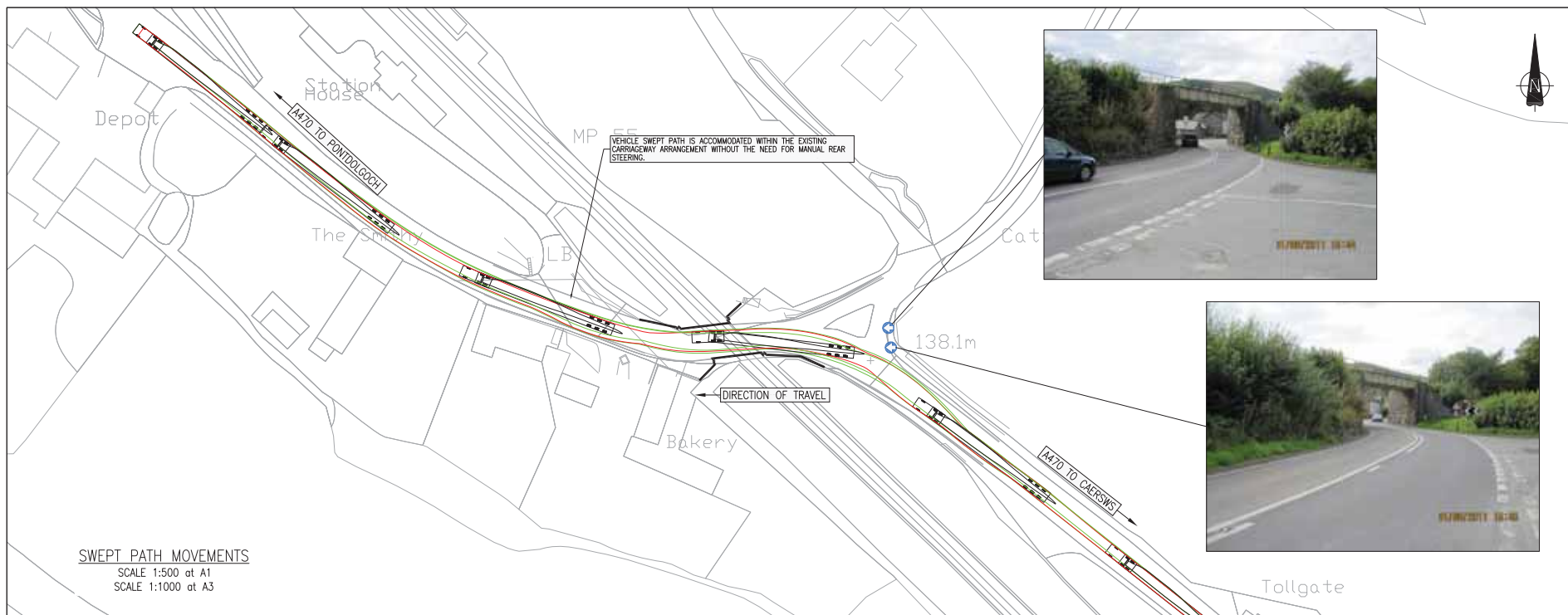
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PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 5-4k
 34m BLADE DELIVERY
 SWEEP PATH ANALYSIS
 A489/A470 JUNCTION
 CAERSWS**

STATUS
FOR INFORMATION

DRAWN	CHECKED	APPROVED
MC	IFT	DH
DATE	DATE	DATE
19/09/11	19/09/11	19/09/11
DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	
DRAWING NO:	REV:	
108526-FIG 5-4k	P2	



SWEPT PATH MOVEMENTS
 SCALE 1:500 at A1
 SCALE 1:1000 at A3



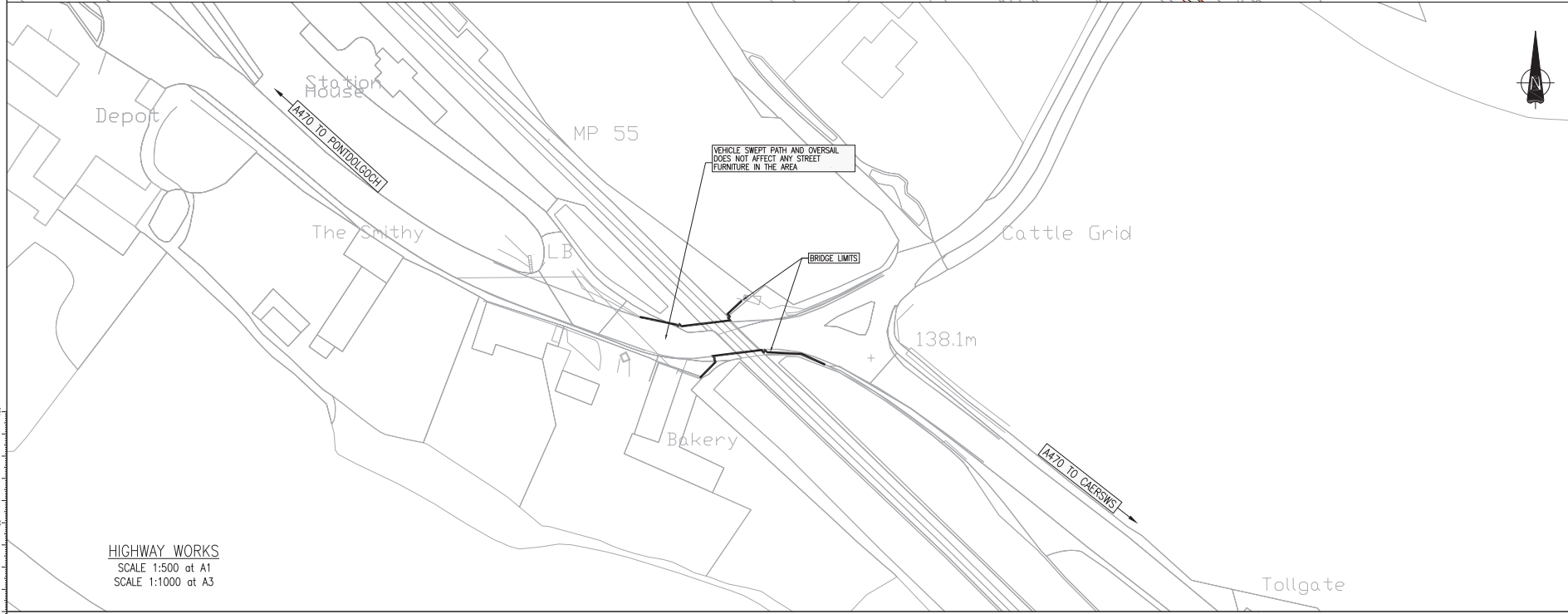
NOTES

KEY:-

- VEHICLE OUTLINE
- CHASSIS SWEEP-PATH
- LOAD OVERSAIL
- ASSUMED HIGHWAY BOUNDARY
- EXISTING STREET FURNITURE
- RELOCATED STREET FURNITURE
- PHOTOGRAPH LOCATION AND DIRECTION
- LOAD OVERSAIL ENVELOPE
- CARRIAGEWAY IMPROVEMENT WORKS
- VEHICLE OVER-RUN CONSTRUCTION
- FOOTWAY WORKS
- VEGETATION CLEARANCE

NOTES:-

1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 34m BLADE DELIVERY VEHICLE. REFER TO FIGURE 5-4p FOR FURTHER INFORMATION.
3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDINANCE SURVEY, AND LOCALISED TOPOGRAPHICAL SURVEY DATA.
4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
5. ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
6. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
7. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY.



HIGHWAY WORKS
 SCALE 1:500 at A1
 SCALE 1:1000 at A3



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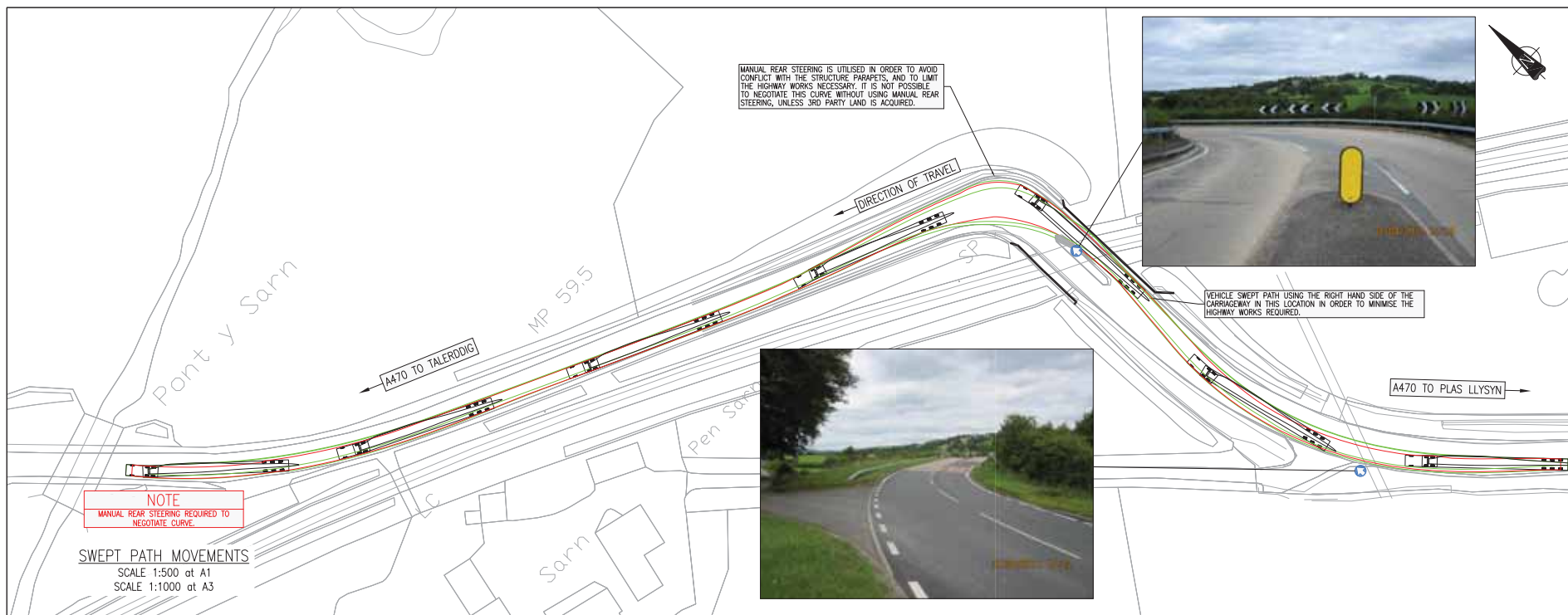
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PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 5-4I
 34m BLADE DELIVERY SWEEP PATH ANALYSIS
 A470 PONTDOLGOCH**

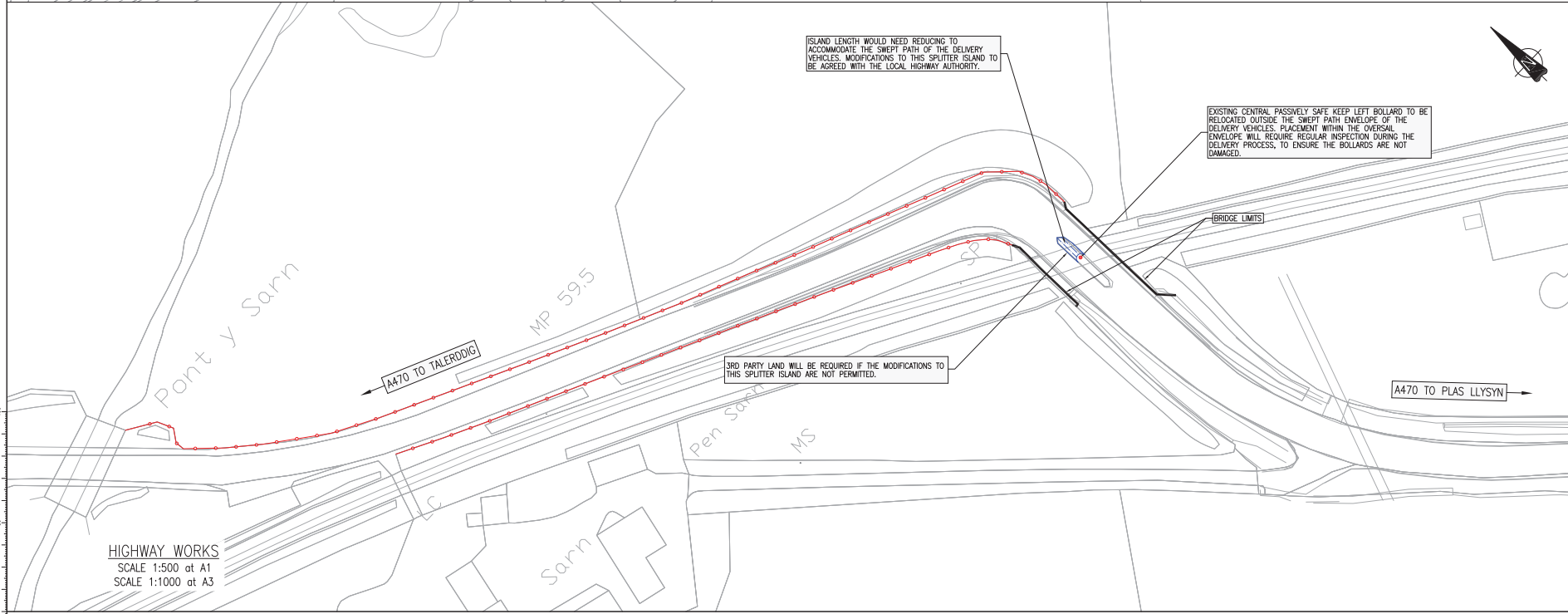
STATUS
FOR INFORMATION

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MC	IFT	DH
DATE	DATE	DATE
19/09/11	19/09/11	19/09/11
DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	
DRAWING NO.	REV.	
108526-FIG 5-4I	P2	



NOTE
MANUAL REAR STEERING REQUIRED TO NEGOTIATE CURVE.

SWEPT PATH MOVEMENTS
SCALE 1:500 at A1
SCALE 1:1000 at A3



HIGHWAY WORKS
SCALE 1:500 at A1
SCALE 1:1000 at A3

- NOTES**
- KEY:-**
- VEHICLE OUTLINE
 - CHASSIS SWEEP-PATH
 - LOAD OVERSAIL
 - ASSUMED HIGHWAY BOUNDARY
 - EXISTING STREET FURNITURE
 - RELOCATED STREET FURNITURE
 - PHOTOGRAPH LOCATION AND DIRECTION
 - LOAD OVERSAIL ENVELOPE
 - CARRIAGEWAY IMPROVEMENT WORKS
 - VEHICLE OVER-RUN CONSTRUCTION
 - FOOTWAY WORKS
 - VEGETATION CLEARANCE
- NOTES:-**
1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
 2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 34m BLADE DELIVERY VEHICLE. REFER TO FIGURE 5-4p FOR FURTHER INFORMATION.
 3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDNANCE SURVEY, AND LOCALISED TOPOGRAPHICAL SURVEY DATA.
 4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
 5. ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
 6. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
 7. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY.

P2	SCALE NOTES AMENDED	IFT	MC	GLP	20/03/12
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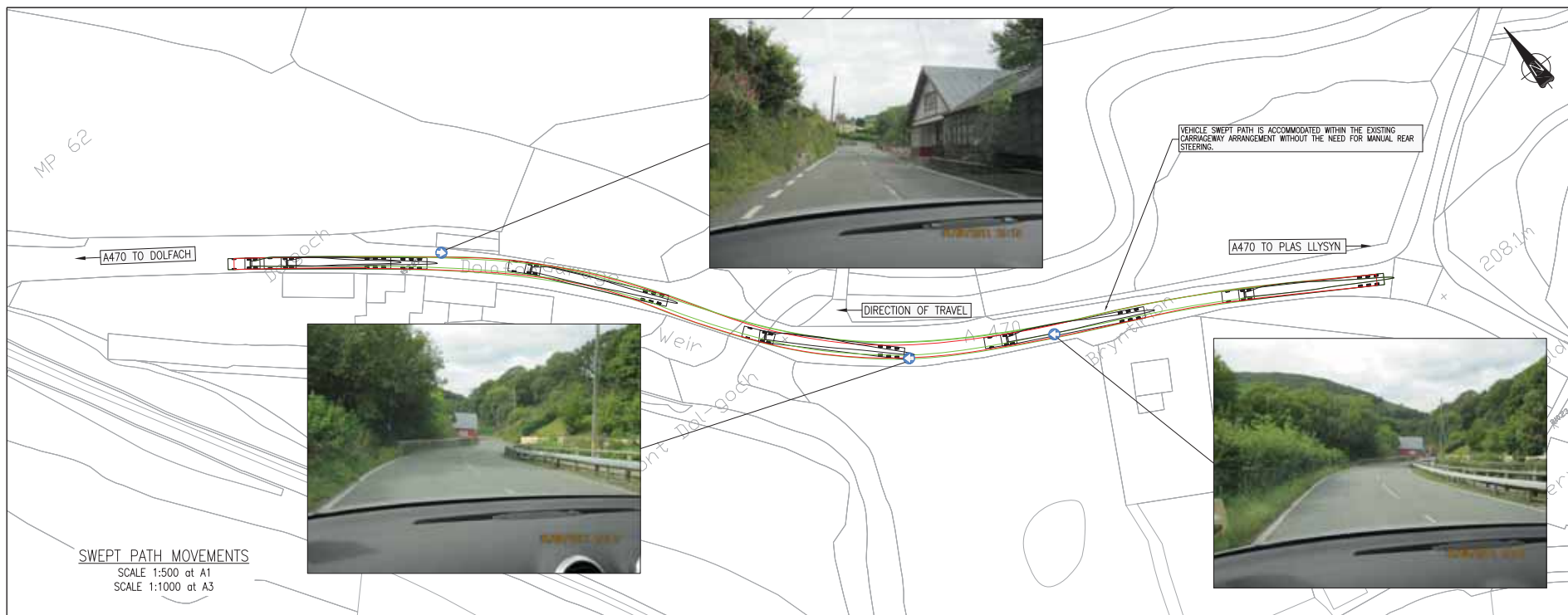
PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 5-4m
34m BLADE DELIVERY
SWEPT PATH ANALYSIS
A470 PLAS LLYSYN**

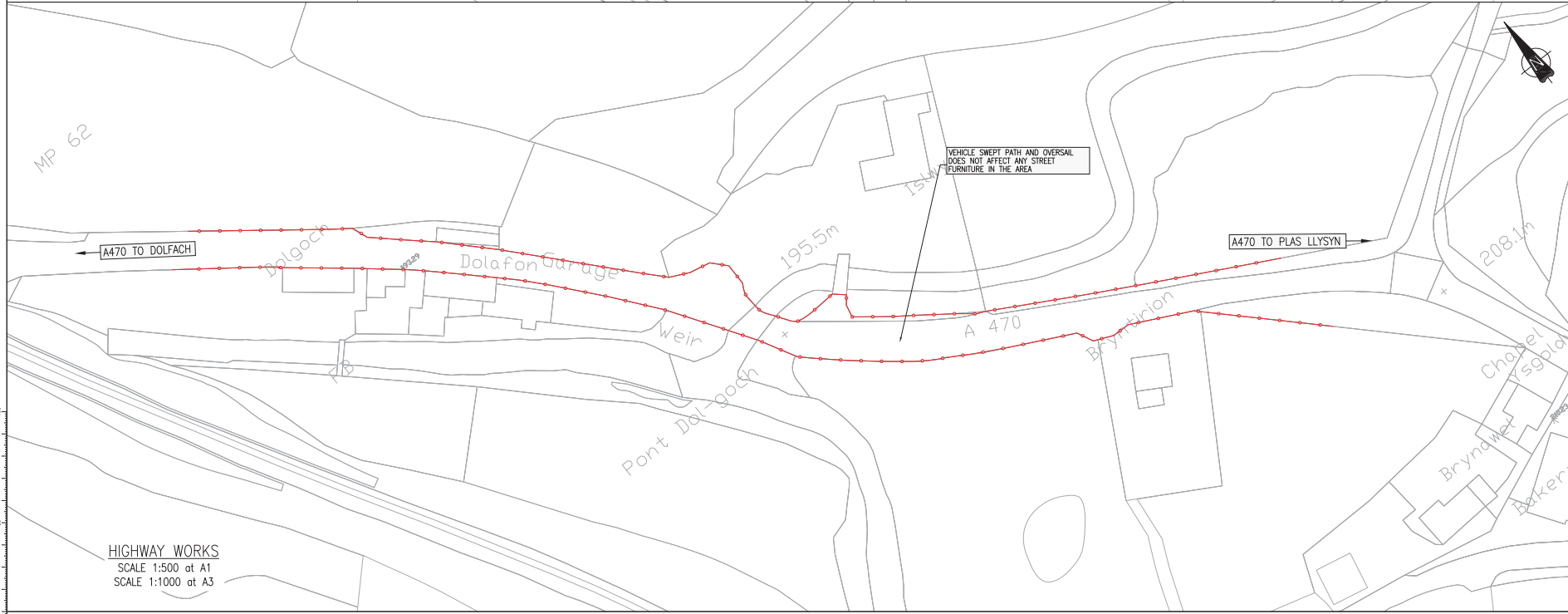
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FOR INFORMATION

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DATE	19/09/11	DATE	19/09/11	DATE	19/09/11
DRAWING SCALE	AS SHOWN	ORIGINAL DRAWING SIZE	594 x 841 - A1		

DRAWING NO: **108526-FIG 5-4m** REV: **P2**



SWEPT PATH MOVEMENTS
 SCALE 1:500 at A1
 SCALE 1:1000 at A3



HIGHWAY WORKS
 SCALE 1:500 at A1
 SCALE 1:1000 at A3

NOTES

KEY:-

- VEHICLE OUTLINE
- CHASSIS SWEEP-PATH
- LOAD OVERSAIL
- ASSUMED HIGHWAY BOUNDARY
- EXISTING STREET FURNITURE
- RELOCATED STREET FURNITURE
- PHOTOGRAPH LOCATION AND DIRECTION
- LOAD OVERSAIL ENVELOPE
- CARRIAGEWAY IMPROVEMENT WORKS
- VEHICLE OVER-RUN CONSTRUCTION
- FOOTWAY WORKS
- VEGETATION CLEARANCE

NOTES:-

1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 34m BLADE DELIVERY VEHICLE. REFER TO FIGURE 5-4p FOR FURTHER INFORMATION.
3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDINANCE SURVEY, AND LOCALISED TOPOGRAPHICAL SURVEY DATA.
4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
5. ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
6. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
7. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY.

REV	AMENDMENTS	BY	CHKD	APRD	DATE
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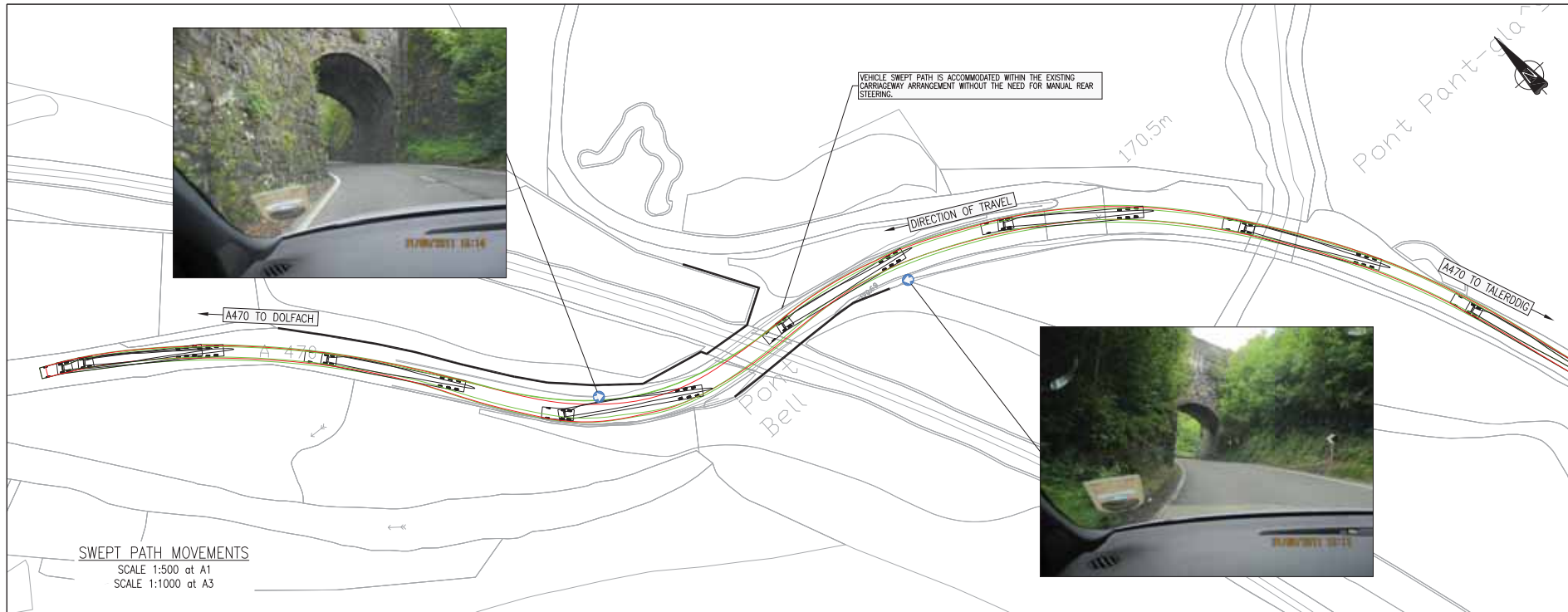
PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 5-4n
 34m BLADE DELIVERY SWEEP PATH ANALYSIS
 A470 TALERDIGG**

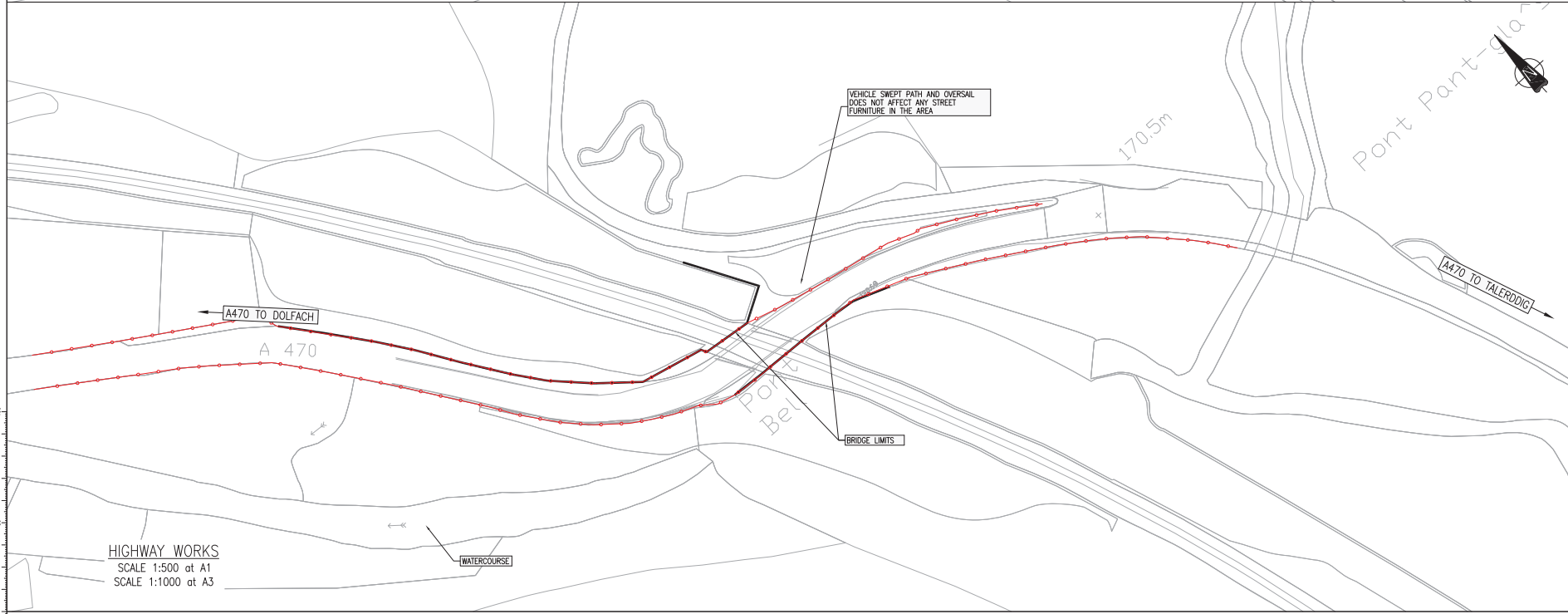
STATUS
FOR INFORMATION

DRAWN	CHECKED	APPROVED
MC	IFT	DH
DATE 19/09/11	DATE 19/09/11	DATE 19/09/11
DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	

DRAWING NO: **108526-FIG 5-4n** REV: **P2**



SWEPT PATH MOVEMENTS
SCALE 1:500 at A1
SCALE 1:1000 at A3



HIGHWAY WORKS
SCALE 1:500 at A1
SCALE 1:1000 at A3

NOTES

KEY-

- VEHICLE OUTLINE
- CHASSIS SWEEP-PATH
- LOAD OVERSAIL
- ASSUMED HIGHWAY BOUNDARY
- EXISTING STREET FURNITURE
- RELOCATED STREET FURNITURE
- PHOTOGRAPH LOCATION AND DIRECTION
- LOAD OVERSAIL ENVELOPE
- CARRIAGEWAY IMPROVEMENT WORKS
- VEHICLE OVER-RUN CONSTRUCTION
- FOOTWAY WORKS
- VEGETATION CLEARANCE

NOTES:-

1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 34m BLADE DELIVERY VEHICLE. REFER TO FIGURE 5-4p FOR FURTHER INFORMATION.
3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDINANCE SURVEY, AND LOCALISED TOPOGRAPHICAL SURVEY DATA.
4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
5. ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
6. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
7. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY.

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Client: RENEWABLEUK CYMRU

Project: STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS



Title: FIGURE 5-4o
34m BLADE DELIVERY SWEEP PATH ANALYSIS A470 TIRYMYNACH

Status: FOR INFORMATION

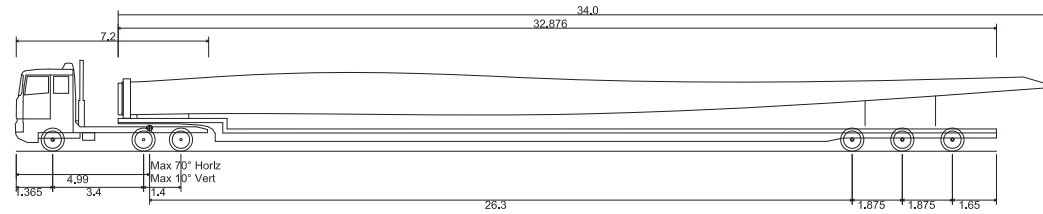
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MC	IFT	DH
DATE	DATE	DATE
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DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	
DRAWING NO:	REV:	
108526-FIG 5-4o	P2	

NOTES

NOTES

-  AREA AFFECTED BY BLADE VEHICLE OVERSAIL
-  AREA AFFECTED BY BLADE VEHICLE CHASSIS SWEEP PATH

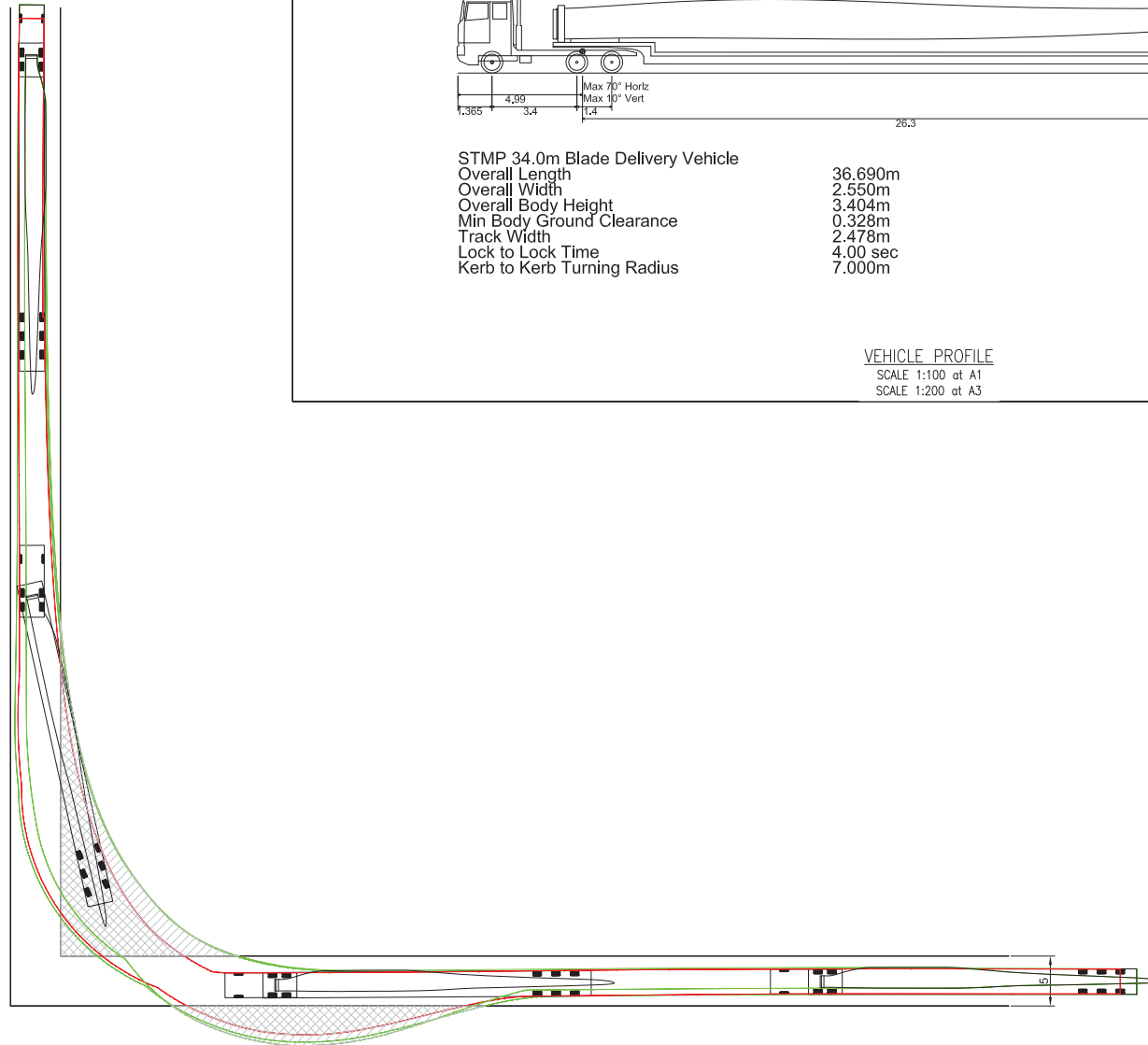
1. ALL DIMENSIONS IN METRES UNLESS OTHERWISE STATED.
2. BLADE DELIVERY VEHICLE BASED UPON THE ACCIONA AW70 VEHICLE INFORMATION.
3. VEHICLE SIMULATED USING PASSIVE STEERING AS THE WORST CASE.
4. BLADE VEHICLE HATCHED AREAS TAKEN AS THE MINIMUM NEEDED FOR THE SWEEP PATH. DURING THE DESIGN A 300mm CLEARANCE TO THE AUTOTRACK PATH WILL BE USED.



STMP 34.0m Blade Delivery Vehicle
 Overall Length 36.690m
 Overall Width 2.550m
 Overall Body Height 3.404m
 Min Body Ground Clearance 0.328m
 Track Width 2.478m
 Lock to Lock Time 4.00 sec
 Kerb to Kerb Turning Radius 7.000m

VEHICLE PROFILE

SCALE 1:100 at A1
 SCALE 1:200 at A3



SWEPT PATH MOVEMENTS

SCALE 1:250 at A1
 SCALE 1:500 at A3

P2	SCALE NOTES AMENDED	IFT	MC	DLP	20/09/12
REV	AMENDMENTS	BY	CHKD	APPRD	DATE



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PROJECT

STRATEGIC TRAFFIC
 MANAGEMENT PLAN FOR
 MID WALES WIND FARMS

TITLE

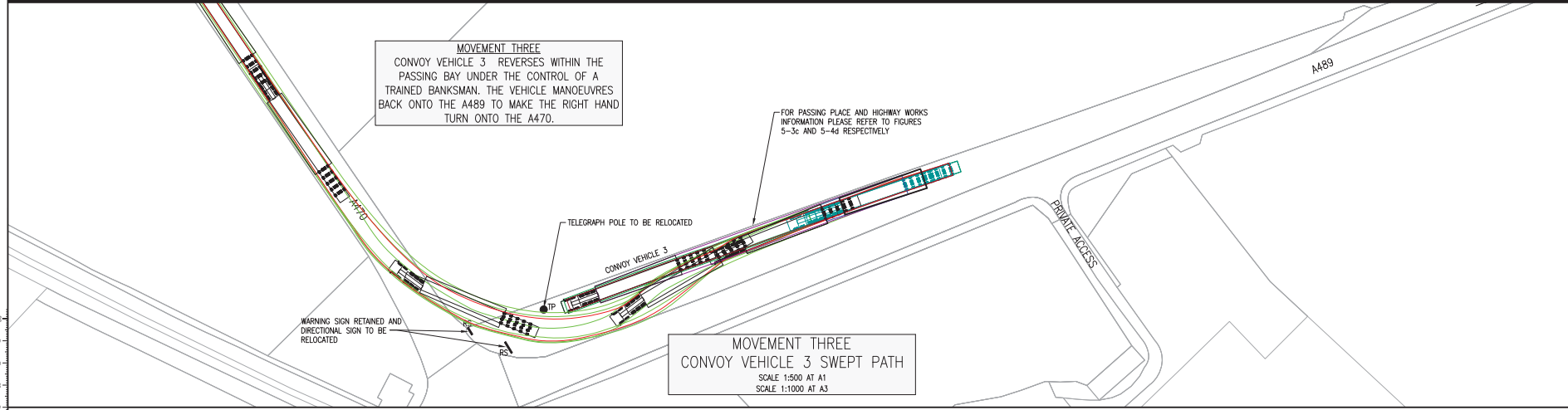
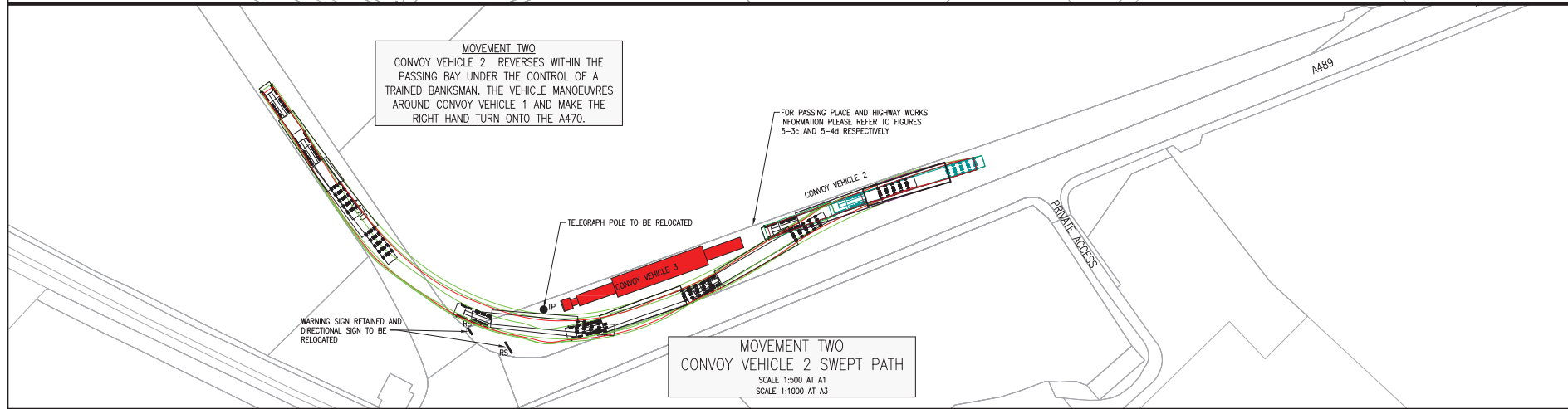
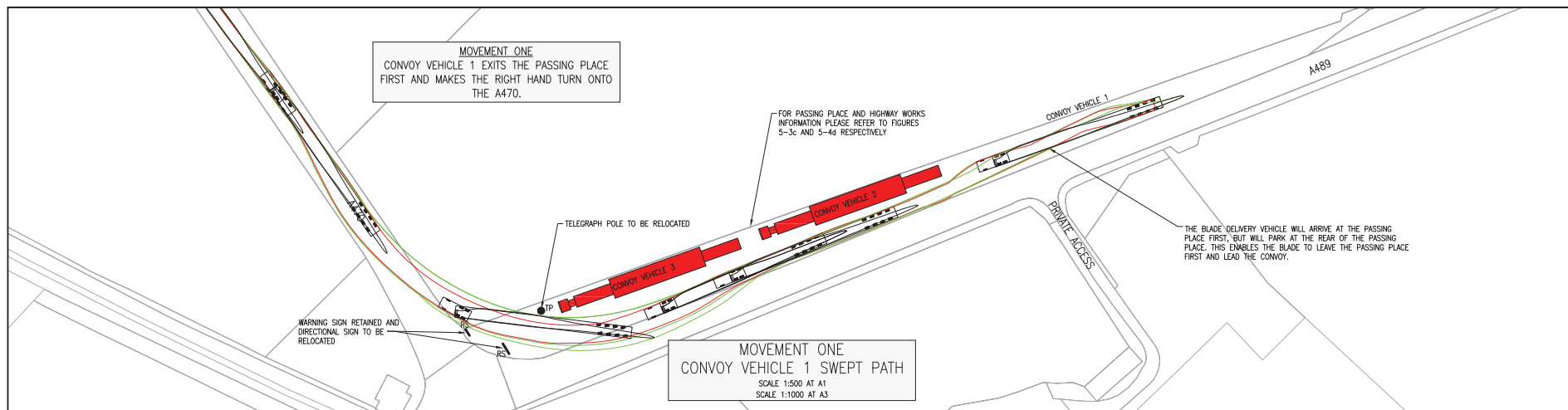
FIGURE 5-4p
 34m BLADE DELIVERY
 VEHICLE INFORMATION

STATUS

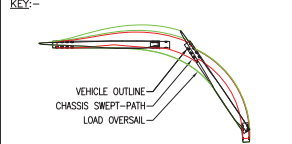
FOR INFORMATION

DRAWN	CHECKED	APPROVED
DPL	MC	DH
DATE	DATE	DATE
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DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	

DRAWING NO: 108526-FIG 5-4p REV: P2



NOTES



- NOTES:-**
1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
 2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 45m BLADE DELIVERY VEHICLE. REFER TO FIGURE 1-4q FOR FURTHER INFORMATION.
 3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDNANCE SURVEY, AND LOCALISED TOPOGRAPHICAL SURVEY DATA.
 4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
 5. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY.

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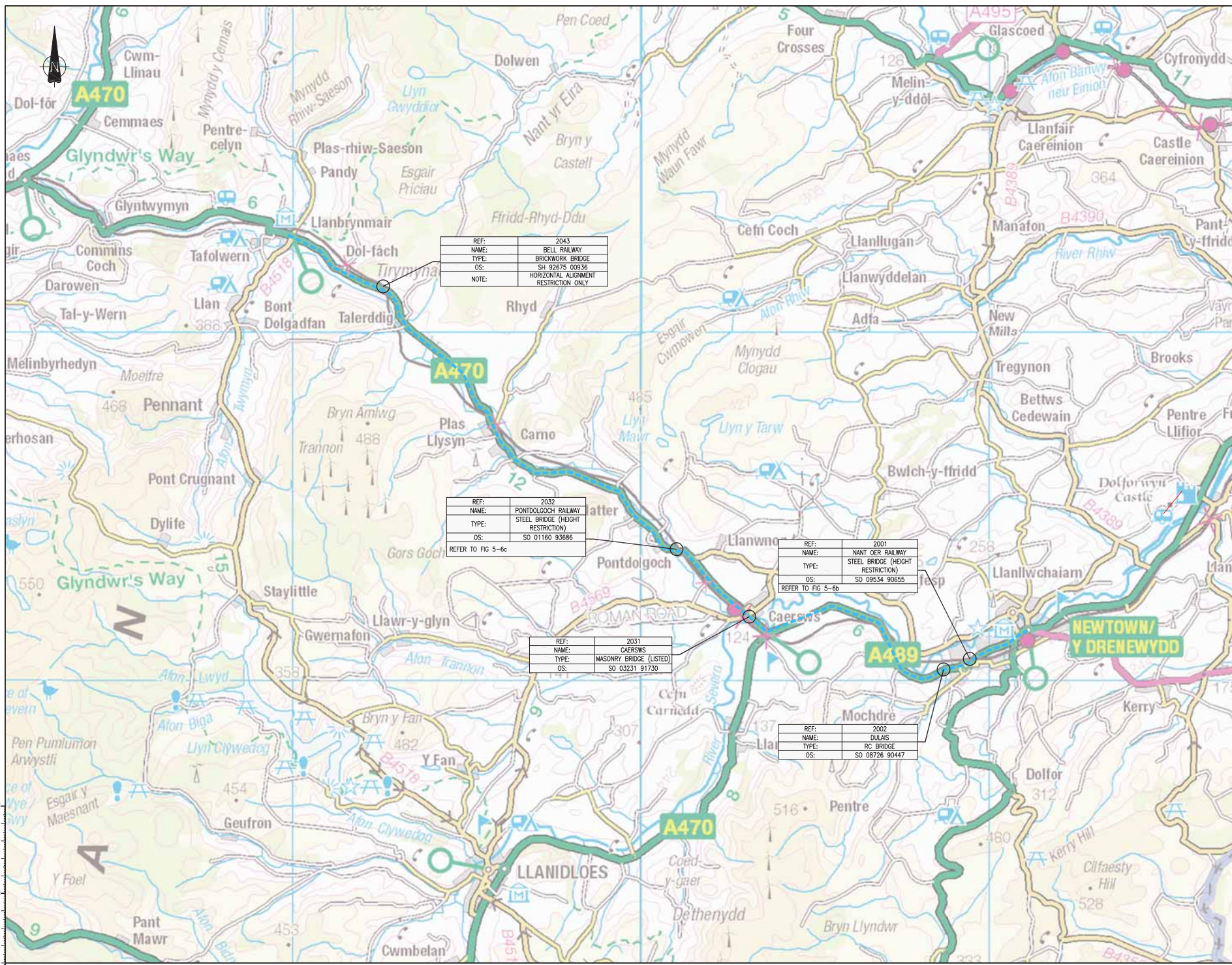
PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 5-4q
PASSING PLACE
SWEPT PATH ANALYSIS
CAERSWS**

STATUS
FOR INFORMATION

DRAWN SPL	CHECKED IFT	APPROVED DLP
DATE 09.08.12	DATE 09.08.12	DATE 09.08.12
DRAWING SCALE AS SHOWN		ORIGINAL DRAWING SIZE 594 x 841 - A1

DRAWING NO: **108526-FIG 5-4q** REV: **P1**



NOTES

LEGEND

--- ROUTE FROM NEWTOWN TO SSA B (SOUTH)

NOTES

- REF = HIGHWAY AUTHORITY STRUCTURE REFERENCE
- OS = GRID REFERENCE
- INFORMATION OBTAINED FROM RELEVANT HIGHWAY AUTHORITY AND THROUGH SITE VISITS.

REV	AMENDMENTS	BY	CHKD	APPR	DATE

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STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WAGES FARM

TITLE

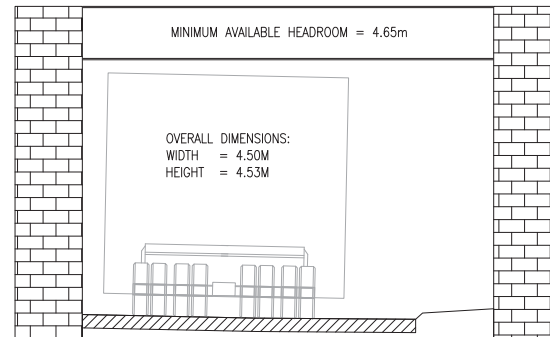
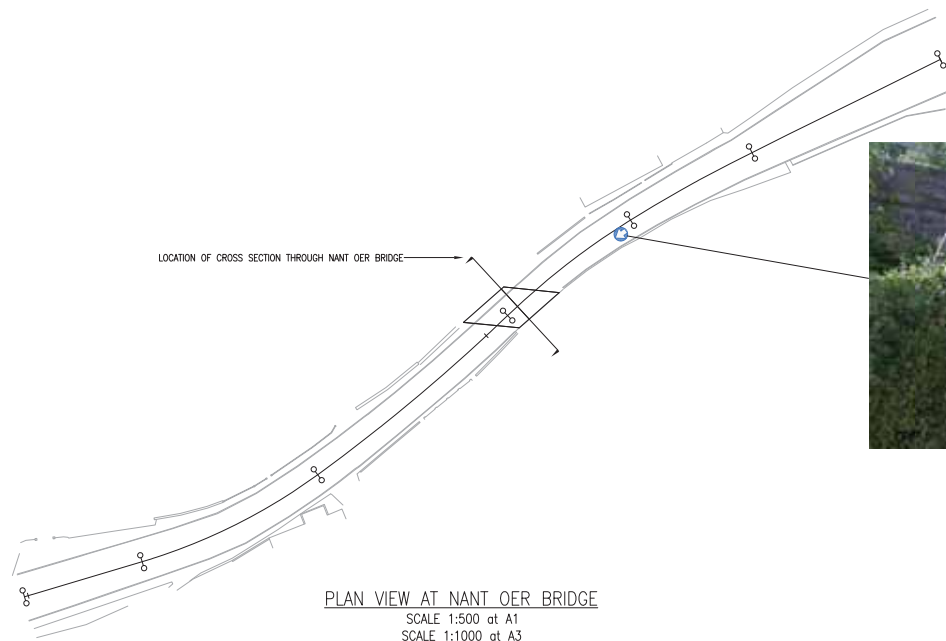
**FIGURE 5-6a
 STRUCTURES ALONG ROUTE FROM NEWTOWN TO SSA B (SOUTH)**

STATUS

FOR INFORMATION

DRAWN	CHECKED	APPROVED
ACR	IFT	LC
DATE 16.03.12	DATE 16.03.12	DATE 16.03.12
DRAWING SCALE 1:50000 at A1	1:100000 at A3	ORIGINAL DRAWING SIZE 594 x 841 - A1

DRAWING NO: **108526-FIG 5-6a** REV: **P1**



NOTES

NOTES:-

1. FOR LOCATIONS OF STRUCTURES REFER TO FIGURE 5-6a.
2. ASSESSMENT BASED ON TOPOGRAPHICAL SURVEY SUPPLIED COURTESY OF ACCIONA ENERGY LTD.
3. THE CHOICE OF TURBINE TO BE MOVED ALONG THE ROUTE TO SSA B (SOUTH) WILL BE INFLUENCED BY THE HEADROOM AVAILABLE.

REV	AMENDMENTS	BY	CHKD	APRD	DATE
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STRATEGIC TRAFFIC
MANAGEMENT PLAN FOR
MID WALES WIND FARMS

TITLE

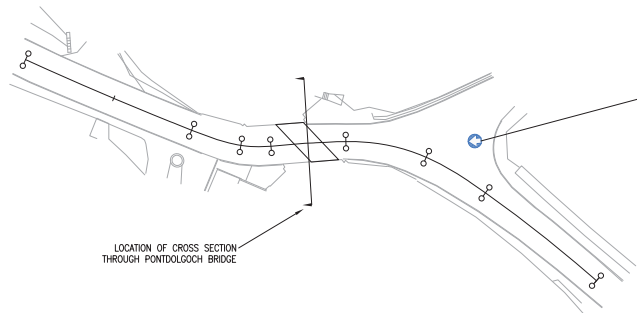
FIGURE 5-6b
CROSS SECTION THROUGH
NANT OER BRIDGE.

STATUS

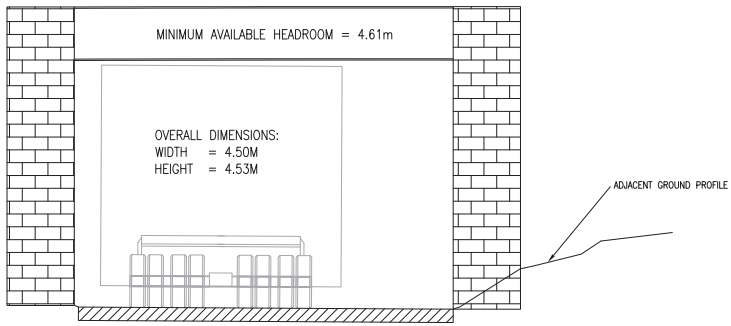
FOR INFORMATION

DRAWN	CHECKED	APPROVED
JFT	MC	DLP
DATE	DATE	DATE
16/03/12	16/03/12	22/03/12
DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	

DRAWING NO.	REV.
108526-FIG 5-6b	P1



PLAN VIEW AT PONTDOLGOCH BRIDGE
SCALE 1:500 at A1
SCALE 1:1000 at A3



CROSS SECTION THROUGH BRIDGE
SCALE 1:50 at A1
SCALE 1:100 at A3

NOTES

- NOTES:-
1. FOR LOCATIONS OF STRUCTURES REFER TO FIGURE 5-6a.
 2. ASSESSMENT BASED ON TOPOGRAPHICAL SURVEY SUPPLIED COURTESY OF ACCIONA ENERGY LTD.
 3. THE CHOICE OF TURBINE TO BE MOVED ALONG THE ROUTE TO SSA B (SOUTH) WILL BE INFLUENCED BY THE HEADROOM AVAILABLE.

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STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 5-6c
CROSS SECTION THROUGH PONTDOLGOCH BRIDGE**

STATUS
FOR INFORMATION

DRAWN JFT	CHECKED MC	APPROVED DLP
DATE 16/03/12	DATE 16/03/12	DATE 22/03/12
DRAWING SCALE AS SHOWN		ORIGINAL DRAWING SIZE 594 x 841 - A1
DRAWING NO. 108526-FIG 5-6c		REV. P1