

**NOTES**

**LEGEND**

- COMMON SECTION OF ROUTE
- HIGHWAY AUTHORITY BOUNDARIES

**NOTES**

- 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.
- PEAK HOUR TAKEN FROM 12 MANUAL CLASSIFIED COUNTS FROM 07:00-19:00.
- POWYS ATC SITES PROVIDE HOURLY DATA FOR 2008

PS	SCALES AMENDED	ACR	PT	LC	26.05.12
REV	AMENDMENTS	BY	CHKD	APRD	DATE

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RENEWABLEUK CYMRU

**PROJECT**

STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

**TITLE**

FIGURE 2-2  
TRAFFIC FLOWS ALONG COMMON SECTION

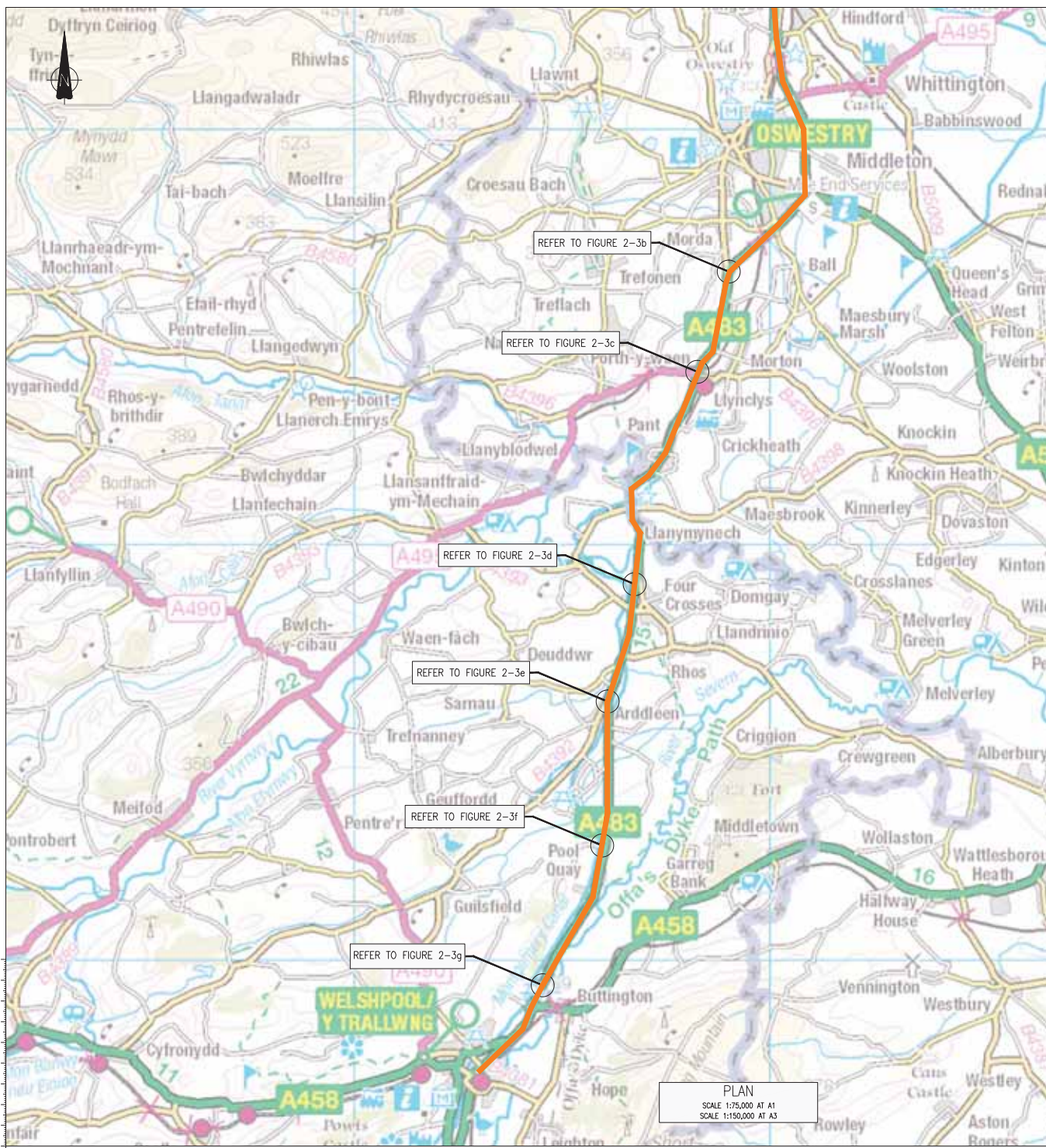
**STATUS**

FOR INFORMATION

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AR	DH	STW
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DRAWING SCALE	1:75000 at A1	ORIGINAL DRAWING SIZE
	1:150000 at A3	594 x 841 - A1

DRAWING NO: 108526-FIG 2-2 P2

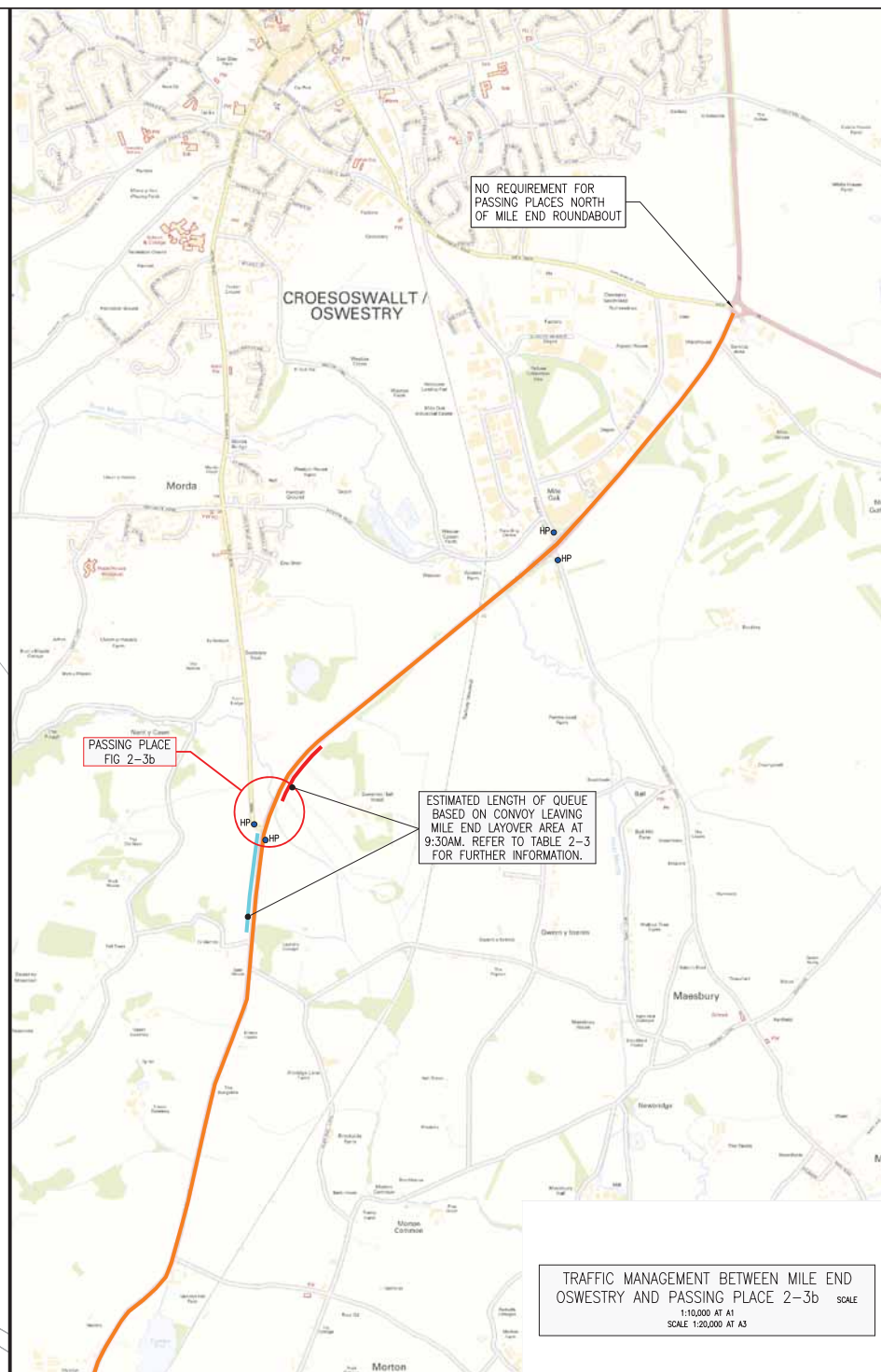
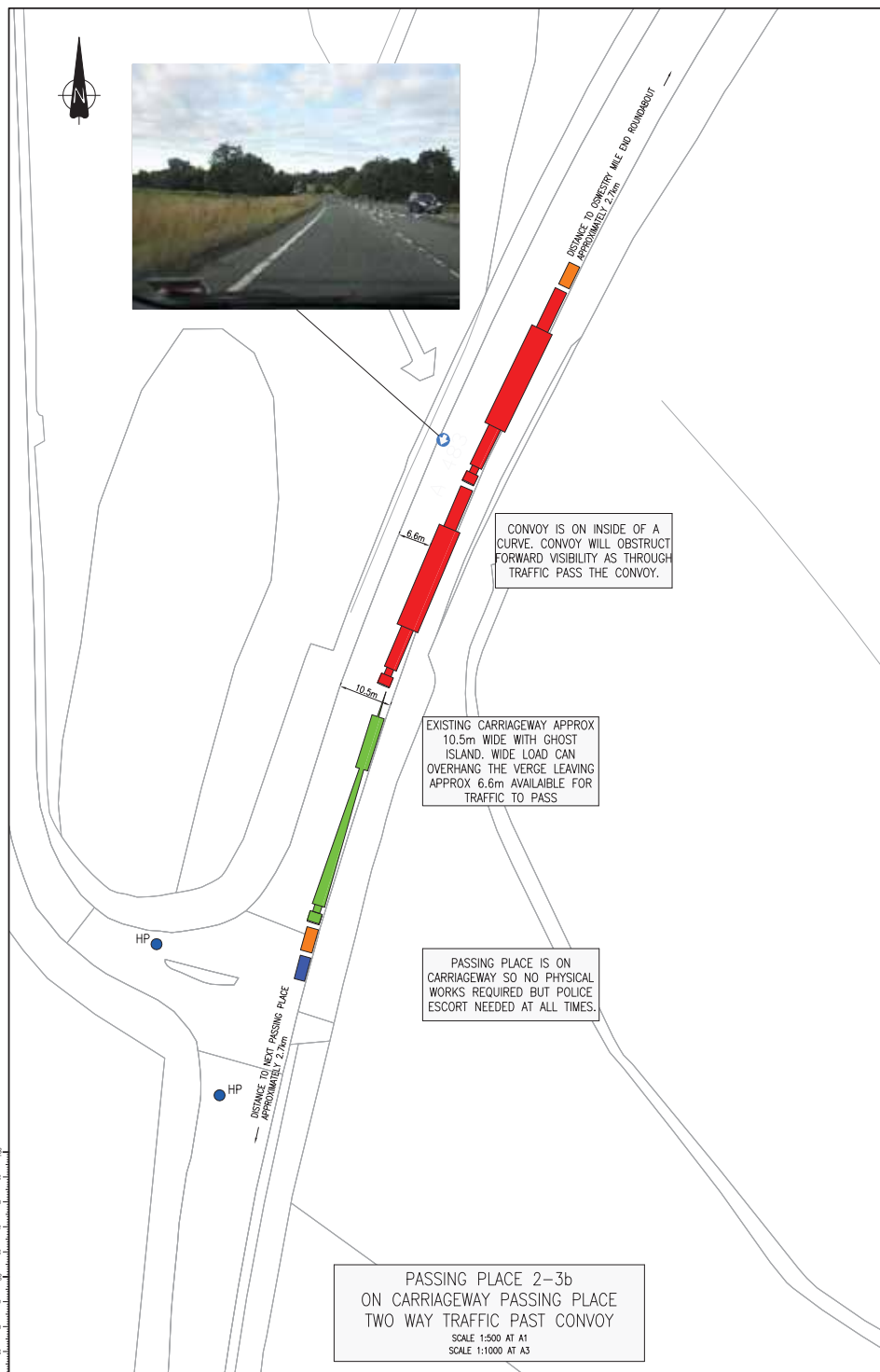




PLAN  
SCALE 1:75,000 AT A1  
SCALE 1:150,000 AT A3

NOTES																	
<b>LEGEND</b>		COMMON SECTION OF ROUTE															
<table border="1"> <thead> <tr> <th>REV</th> <th>AMENDMENTS</th> <th>BY</th> <th>CHKD</th> <th>APPRD</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>P2</td> <td>FIG 2-3a-ADDED SCALE NOTES AMENDED</td> <td>PSM</td> <td>RS</td> <td>DLP</td> <td>16/08/12</td> </tr> </tbody> </table>						REV	AMENDMENTS	BY	CHKD	APPRD	DATE	P2	FIG 2-3a-ADDED SCALE NOTES AMENDED	PSM	RS	DLP	16/08/12
REV	AMENDMENTS	BY	CHKD	APPRD	DATE												
P2	FIG 2-3a-ADDED SCALE NOTES AMENDED	PSM	RS	DLP	16/08/12												
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STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS																	
TITLE																	
FIGURE 2-3a PASSING PLACES ALONG COMMON SECTION																	
STATUS																	
FOR INFORMATION																	
DRAWN	AR	CHECKED	DH	APPROVED	STW												
DATE	16.08.11	DATE	16.08.11	DATE	16.08.11												
DRAWING SCALE		ORIGINAL DRAWING SIZE															
AS SHOWN		594 x 841 - A1															
DRAWING NO					REV												
108526-FIG 2-3a					P2												





**NOTES**

**LEGEND**

- COMMON SECTION OF ROUTE
- 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	IFT	MAC	DLP	09/08/11
P3	NOTES AMENDED	SB	IFT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSN	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE

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**PROJECT**  
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES FARM FARMS

**TITLE**  
FIGURE 2-3b  
PASSING PLACE B5069  
SOUTH OF OSWESTRY

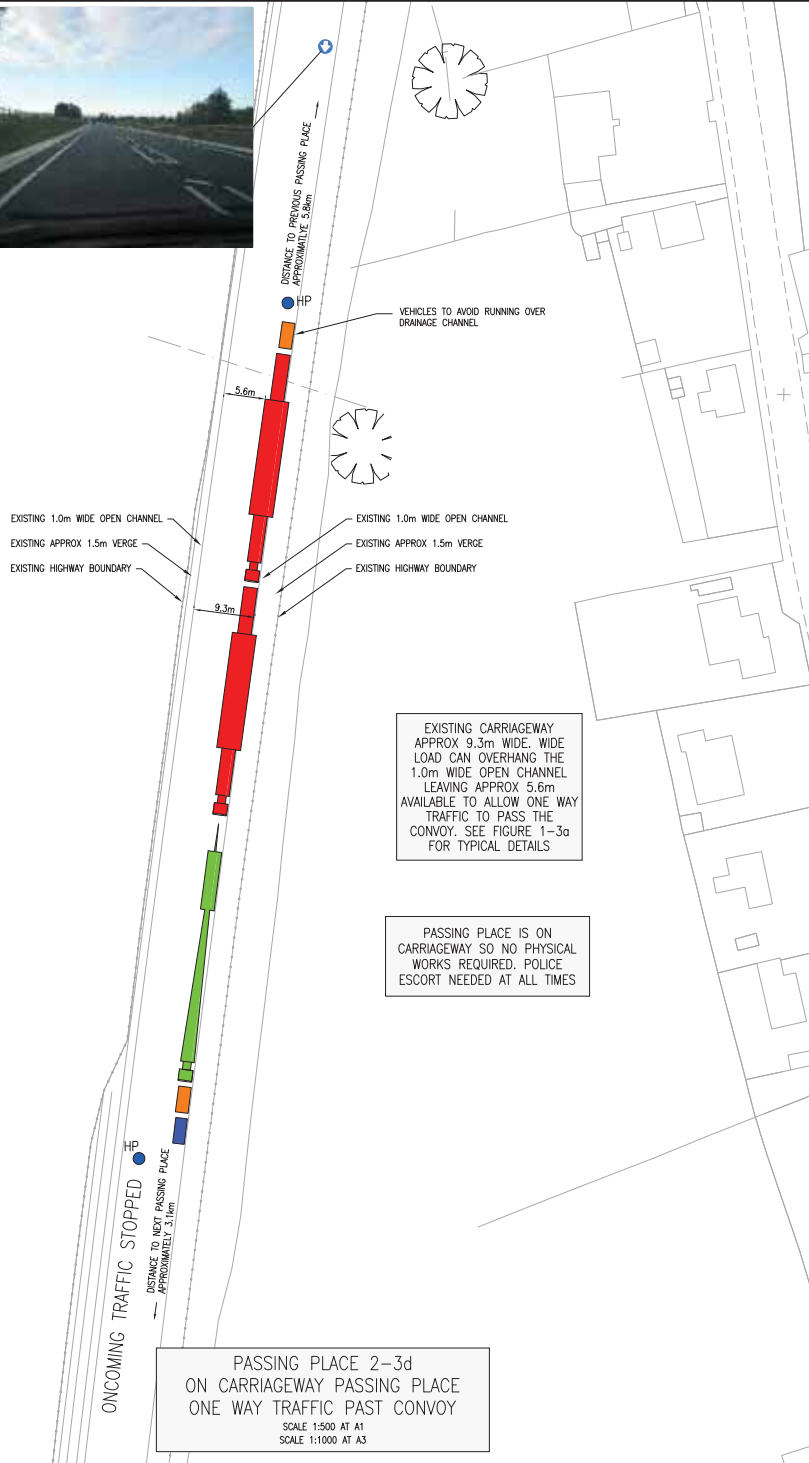
**STATUS**  
FOR INFORMATION

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 2-3b**

REV: P4





EXISTING CARRIAGEWAY APPROX 9.3m WIDE. WIDE LOAD CAN OVERHANG THE 1.0m WIDE OPEN CHANNEL LEAVING APPROX 5.6m AVAILABLE TO ALLOW ONE WAY TRAFFIC TO PASS THE CONVOY. SEE FIGURE 1-3a FOR TYPICAL DETAILS

PASSING PLACE IS ON CARRIAGEWAY SO NO PHYSICAL WORKS REQUIRED. POLICE ESCORT NEEDED AT ALL TIMES

**PASSING PLACE 2-3d**  
ON CARRIAGEWAY PASSING PLACE ONE WAY TRAFFIC PAST CONVOY  
SCALE 1:500 AT A1  
SCALE 1:1000 AT A3



**TRAFFIC MANAGEMENT REQUIRED BETWEEN PASSING PLACE 2-3c AND 2-3d**  
SCALE 1:15,000 AT A1  
SCALE 1:30,000 AT A3

**NOTES**

- LEGEND**
- COMMON SECTION OF ROUTE
  - 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**
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.

P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	IFT	MAC	DLP	09/08/12
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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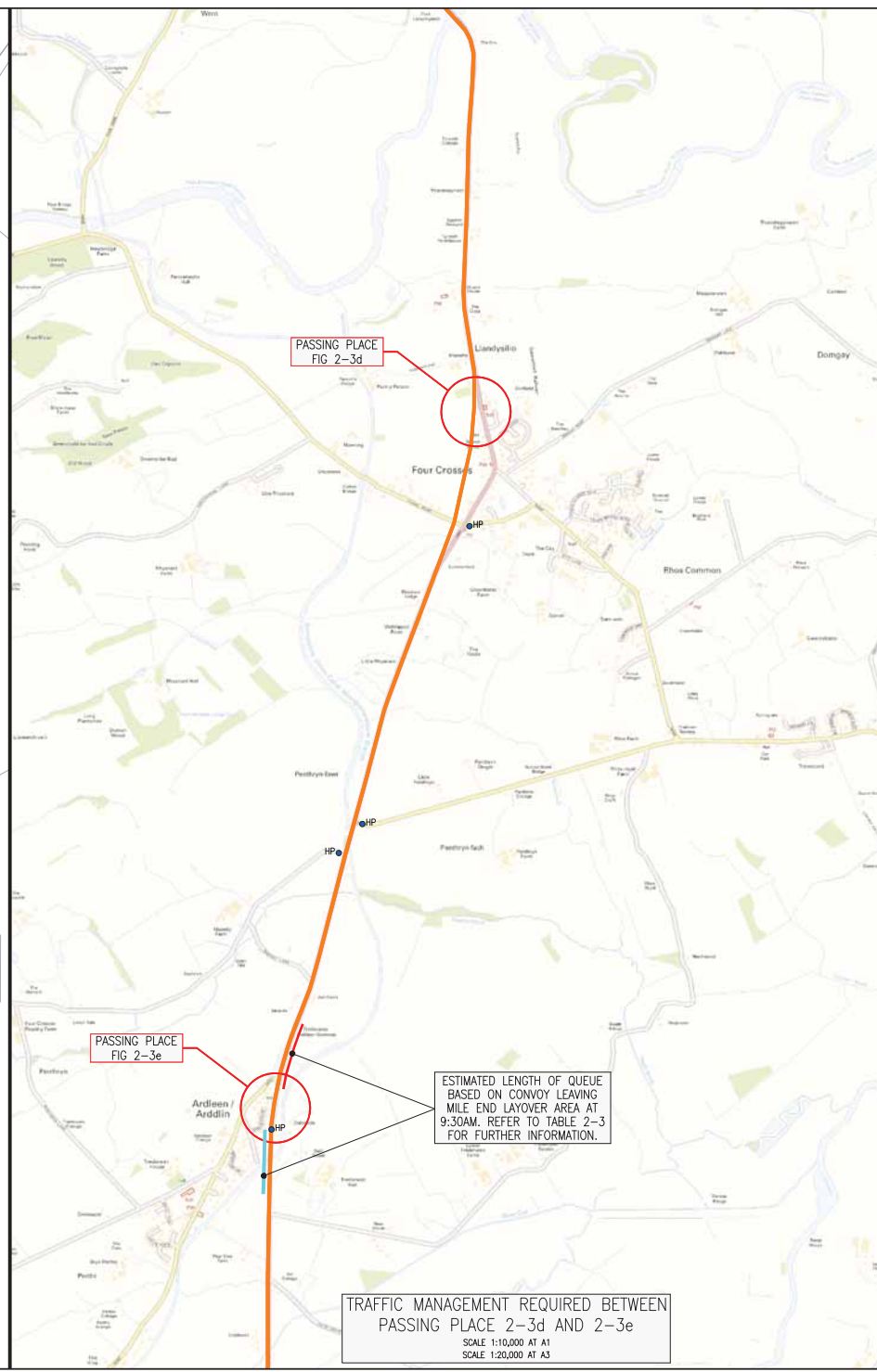
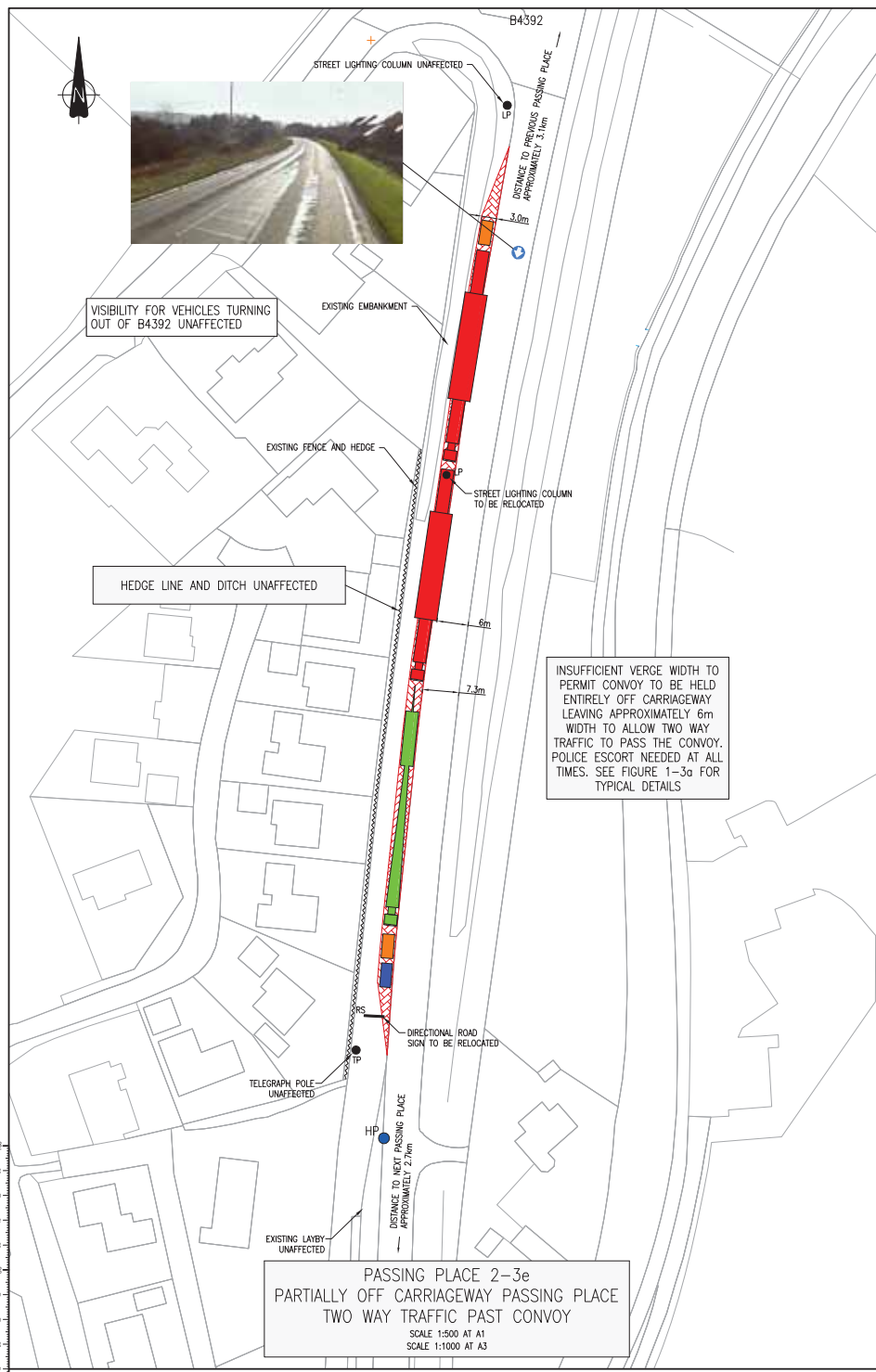
TITLE  
**FIGURE 2-3d  
PASSING PLACE FOUR  
CROSSES BYPASS**

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 2-3d** REV: **P4**





**NOTES**

**LEGEND**

- COMMON SECTION OF ROUTE
- 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.
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P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	IFT	MAC	DLP	09/08/11
P3	PASSING PLACE HATCHING UPDATED	SB	IFT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSN	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE

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 STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

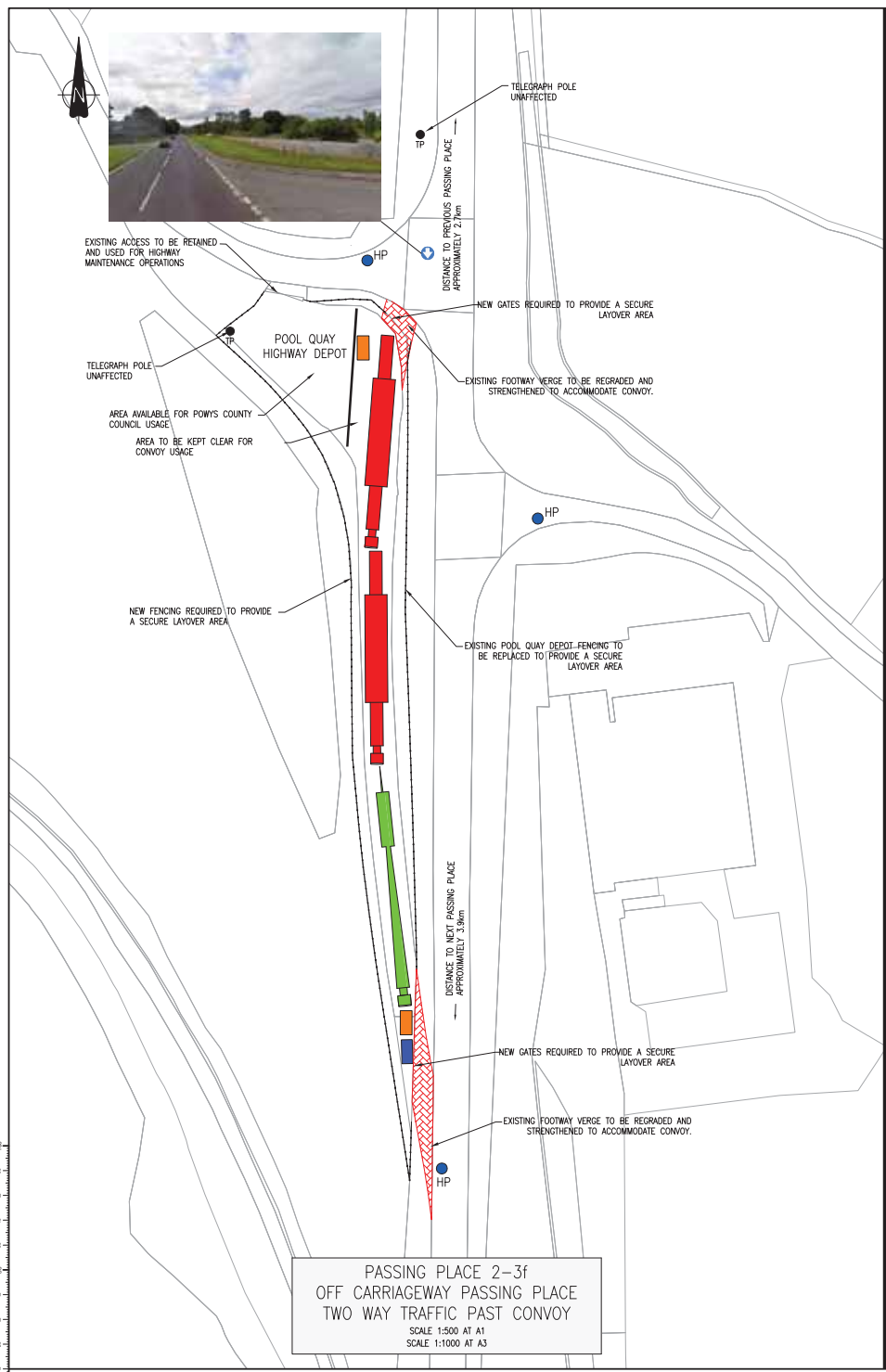
**TITLE**  
 FIGURE 2-3e  
 PASSING PLACE ARDDLEEN

**STATUS**  
 FOR INFORMATION

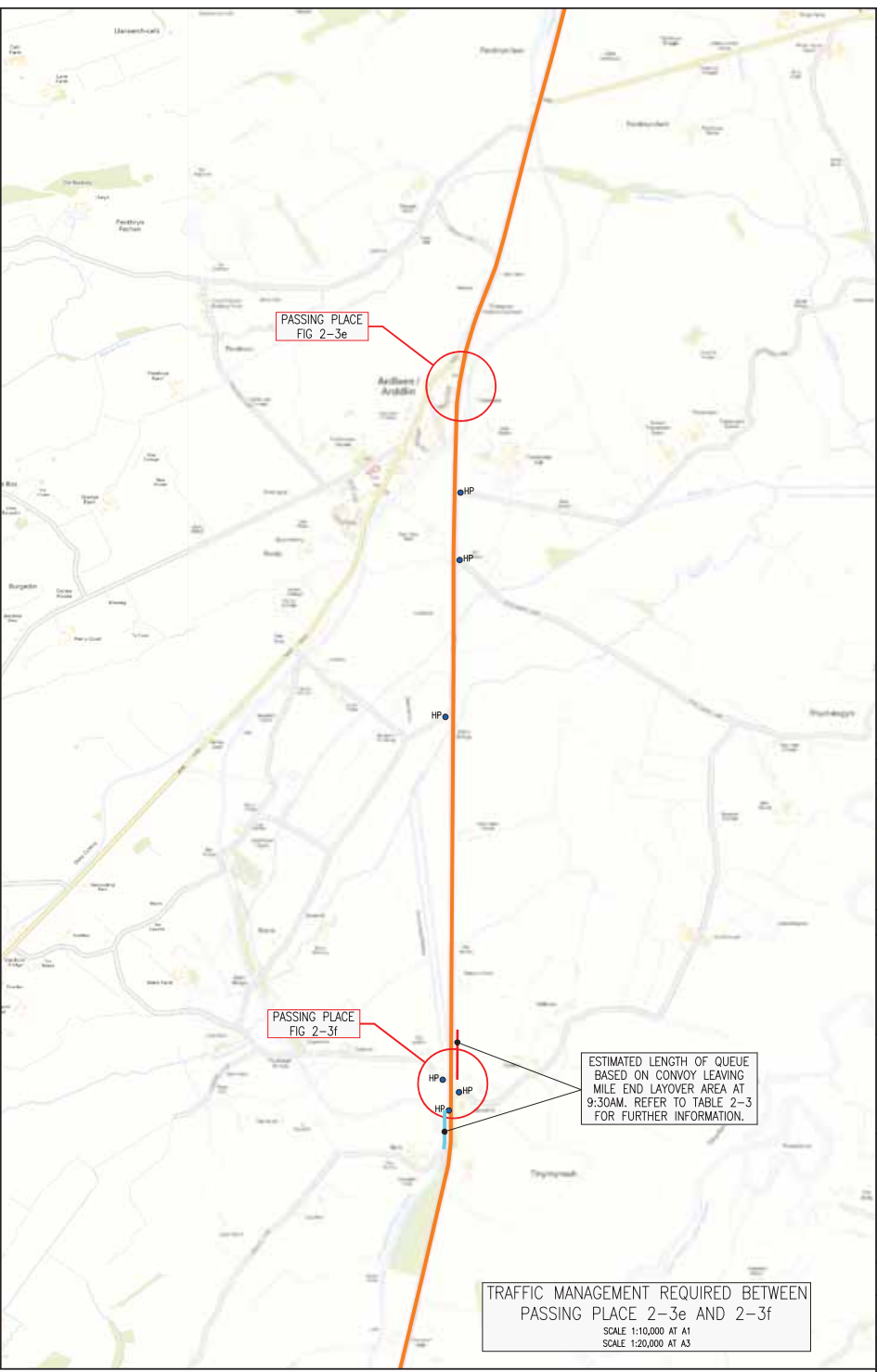
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DATE	16.08.11	DATE	16.08.11	DATE	16.08.11
DRAWING SCALE	AS SHOWN		ORIGINAL DRAWING SIZE	594 x 841 - A1	

**DRAWING NO**  
 108526-FIG 2-3e

**REV**  
 P4



**PASSING PLACE 2-3f**  
 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 2-3e AND 2-3f  
 SCALE 1:10,000 AT A1  
 SCALE 1:20,000 AT A3

- NOTES**
- LEGEND**
- COMMON SECTION OF ROUTE
  - 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
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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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**STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS**

TITLE  
**FIGURE 2-3f  
 PASSING PLACE  
 POOL QUAY DEPOT**

STATUS  
**FOR INFORMATION**

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

DRAWING NO: **108526-FIG 2-3f** REV: **P4**





WIDE LOAD OVERHANGS EXISTING 7.3m  
(APPROX) WIDE CARRIAGEWAY.  
TWO WAY TRAFFIC POSSIBLE PAST  
CONVOY.

EXISTING VERGE TO  
STRENGTHENED TO ACCOMMODATE  
CONVOY VEHICLES

FORWARD VISIBILITY ON A483  
NOT AFFECTED BY THE CONVOY  
VEHICLES

EXISTING HARDENED VERGE TO  
BE UTILISED BY THE CONVOY

PASSING PLACE 2-3g  
PARTIALLY OFF CARRIAGEWAY PASSING PLACE  
TWO WAY TRAFFIC PAST CONVOY

SCALE 1:500 AT A1  
SCALE 1:1000 AT A3



PASSING PLACE  
FIG 2-3f

PASSING PLACE  
FIG 2-3g

ESTIMATED LENGTH OF QUEUE  
BASED ON CONVOY LEAVING  
MILE END LAYOVER AREA AT  
9:30AM. REFER TO TABLE 2-3  
FOR FURTHER INFORMATION.

TRAFFIC MANAGEMENT REQUIRED BETWEEN  
PASSING PLACE 2-3f AND 2-3g

SCALE 1:10,000 AT A1  
SCALE 1:20,000 AT A3

NOTES

- LEGEND
- COMMON SECTION OF ROUTE
  - 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
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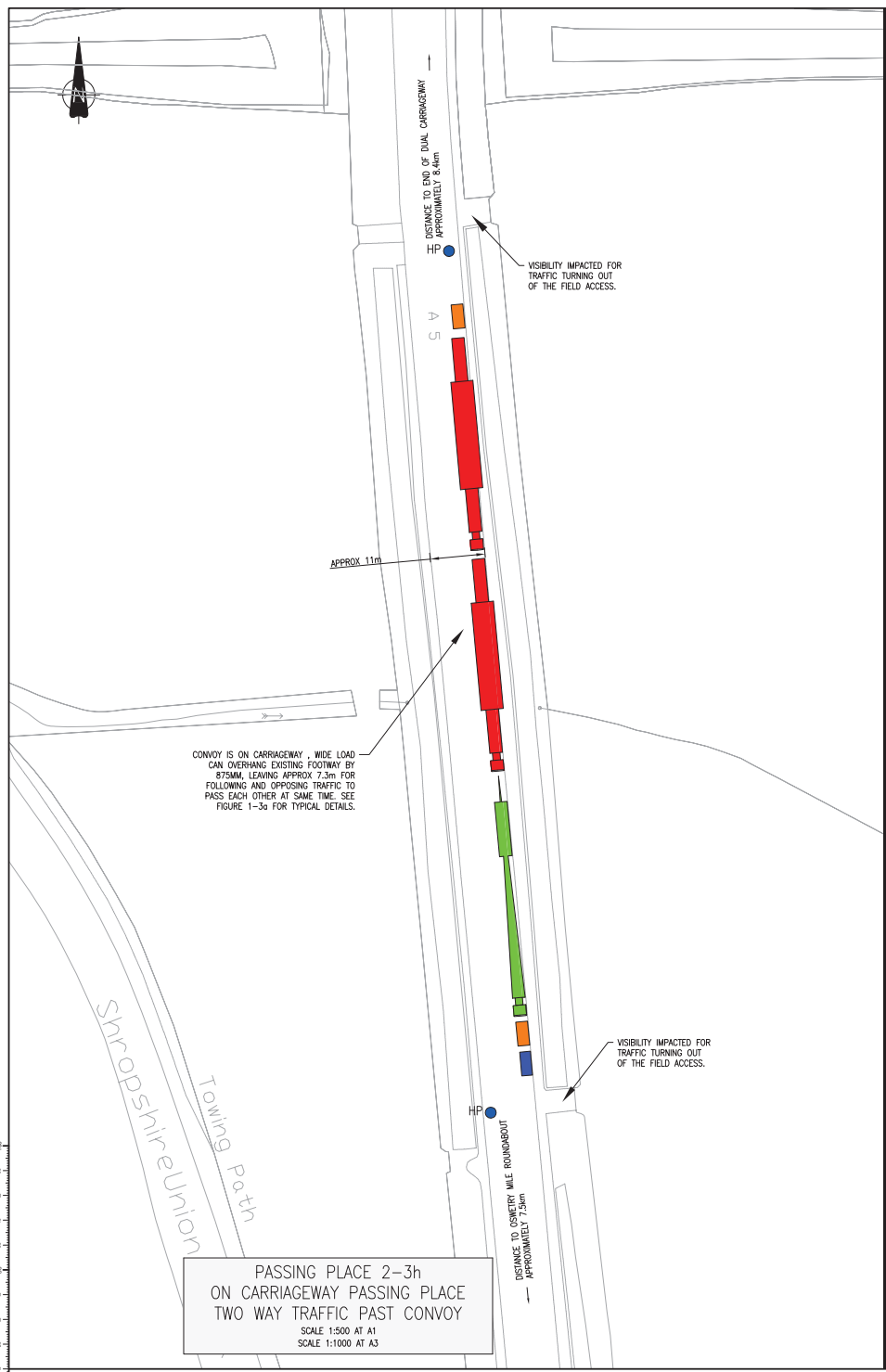
TITLE  
FIGURE 2-3g  
PASSING PLACE RHALT LANE / THE MOORS

STATUS  
FOR INFORMATION

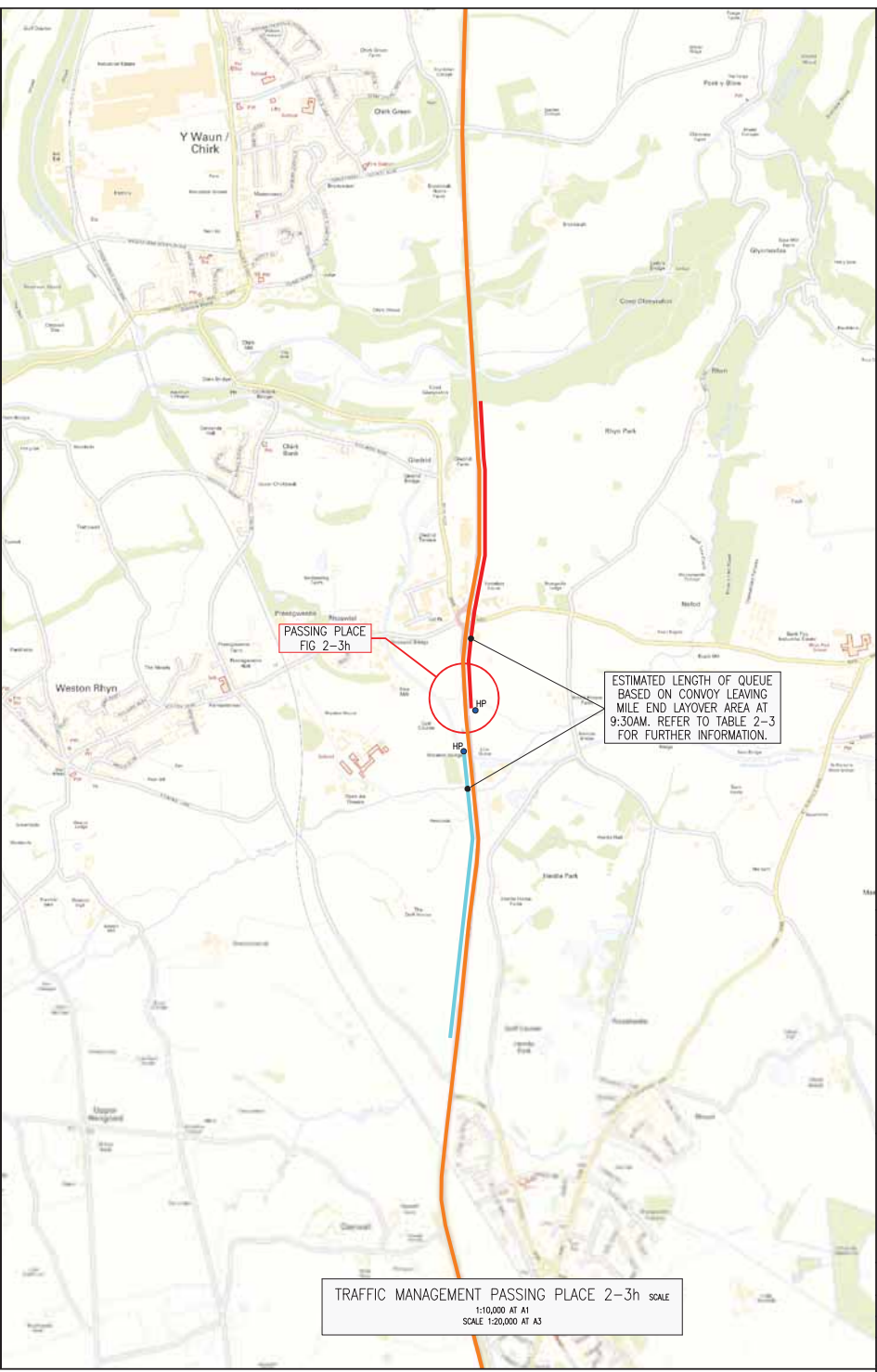
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DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	

DRAWING NO: **108526-FIG 2-3g** REV: P4





**PASSING PLACE 2-3h  
ON CARRIAGEWAY PASSING PLACE  
TWO WAY TRAFFIC PAST CONVOY**  
SCALE 1:500 AT A1  
SCALE 1:1000 AT A3



**TRAFFIC MANAGEMENT PASSING PLACE 2-3h SCALE**  
1:10,000 AT A1  
SCALE 1:20,000 AT A3

**NOTES**

- LEGEND**
- COMMON SECTION OF ROUTE
  - HP POLICE HOLDING POINT
  - RS ROAD SIGN
  - TP TELEGRAPH POLE
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  - NEW CARRIAGEWAY SURFACE
- VEHICLES LEGEND**
- TOWER BASE SECTION VEHICLE
  - 45m BLADE VEHICLE
  - CIVILIAN ESCORT VEHICLE
  - POLICE ESCORT VEHICLE

- NOTES**
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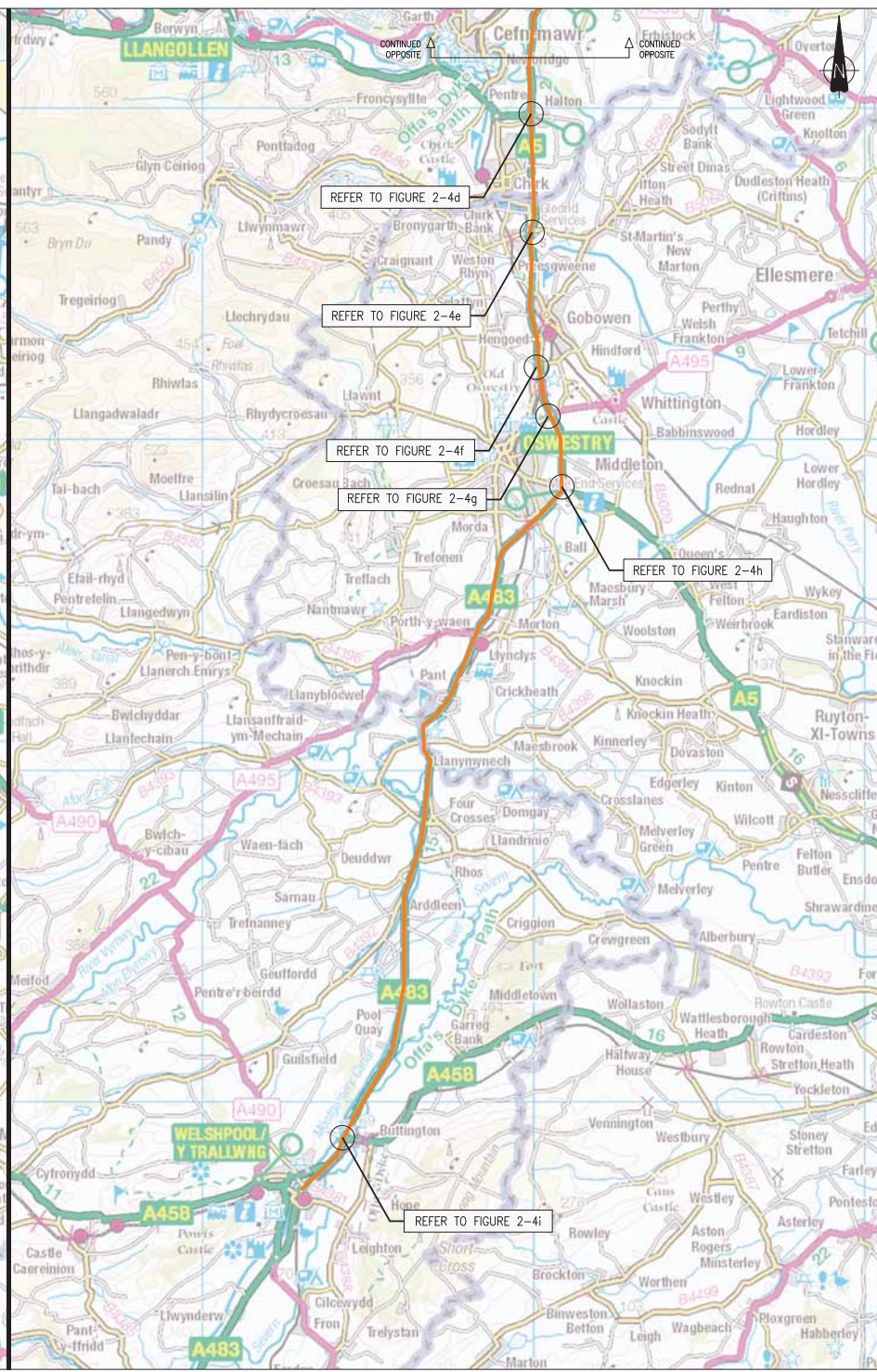
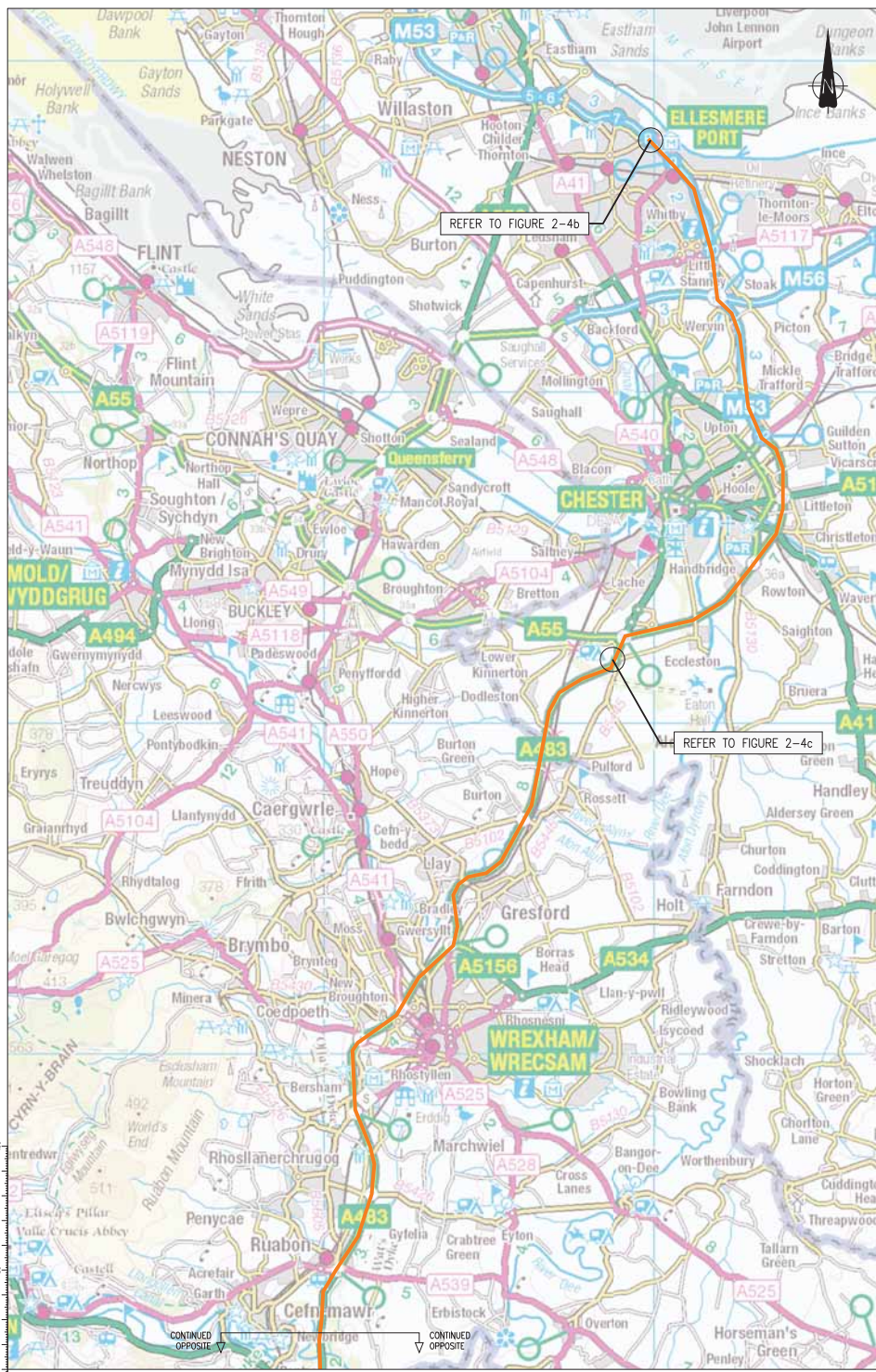
TITLE  
**FIGURE 2-3h  
PASSING PLACE  
LION QUAY**

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 2-3h** REV: **P4**





**NOTES**

**LEGEND**

— COMMON SECTION OF ROUTE

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

**TITLE**

FIGURE 2-4a  
SWEEP PATH ANALYSIS OVERVIEW ALONG COMMON SECTION

**STATUS**

FOR INFORMATION

DRAWN	CHECKED	APPROVED
DPL	IFT	DH
DATE 18/08/11	DATE 18/08/11	DATE 18/08/11
DRAWING SCALE 1:75000 at A1	ORIGINAL DRAWING SIZE 594 x 841 - A1	
DRAWING NO. 108526-FIG 2-4a	REV. P2	







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
  - CARRAGWAY 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.

P2	REMOVAL OF MANUAL REAR STEERING THROUGH THE JUNCTION	IFT	MC	DLP	16/03/12
REV	AMENDMENTS	BY	CHKD	APPD	DATE

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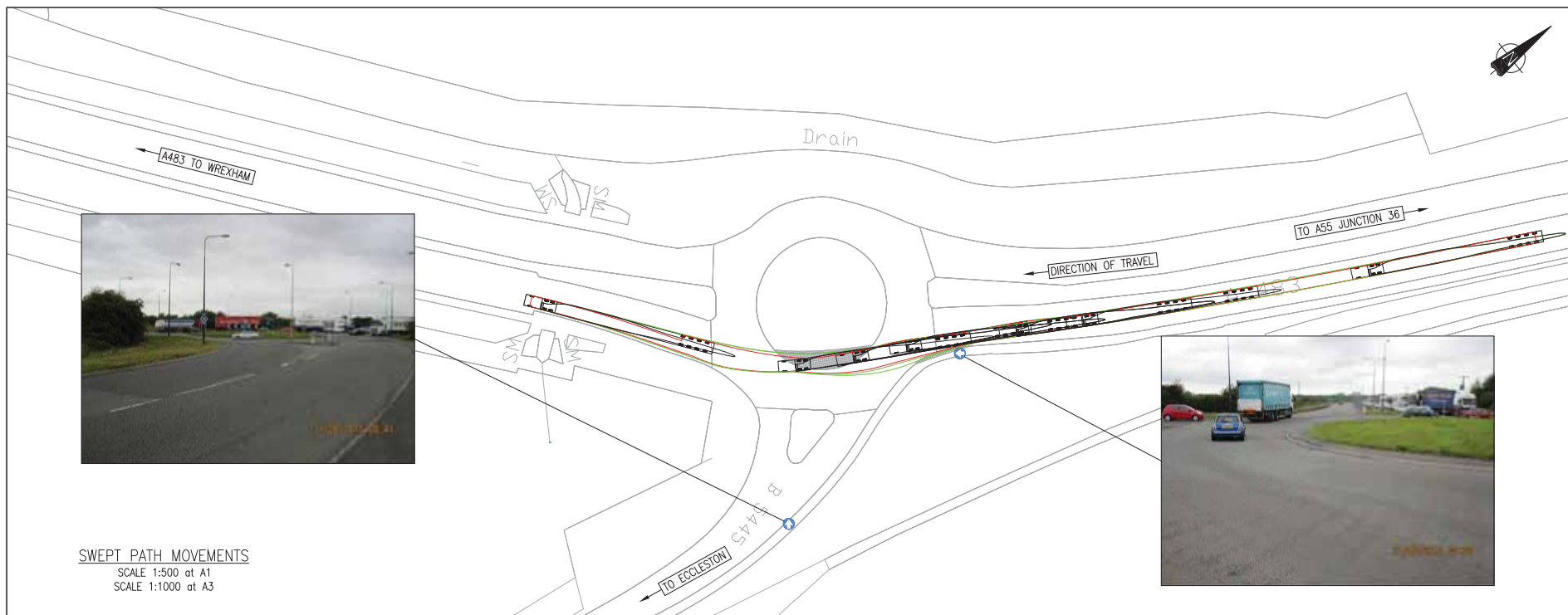
CLIENT  
**RENEWABLEUK CYMRU**

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

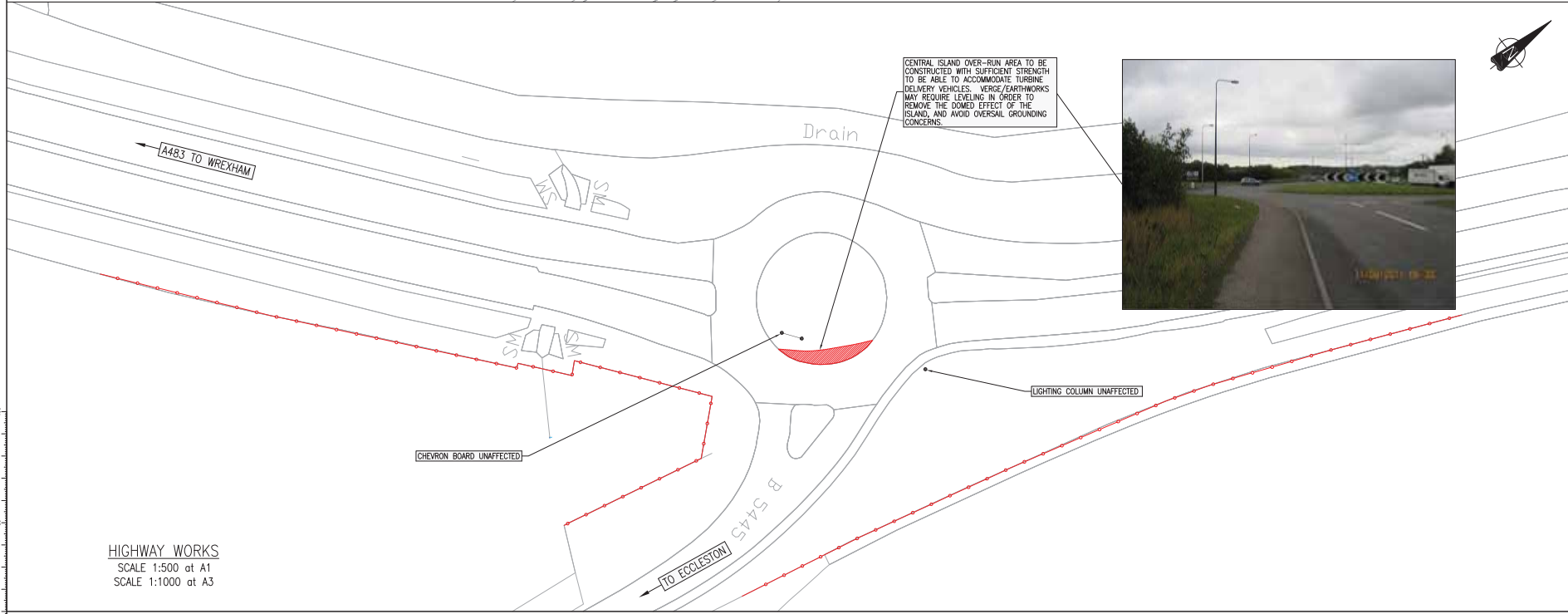
TITLE  
**FIGURE 2-4c  
SWEEP PATH ANALYSIS  
BELGRAVE ROUNDABOUT**

STATUS  
**FOR INFORMATION**

DRAWN	MC	CHECKED	IFT	APPROVED	DH
DATE	02/09/11	DATE	02/09/11	DATE	02/09/11
DRAWING SCALE	AS SHOWN		ORIGINAL DRAWING SIZE	594 x 841 - A1	
DRAWING NO.	108526-FIG 2-4c			REV.	P2

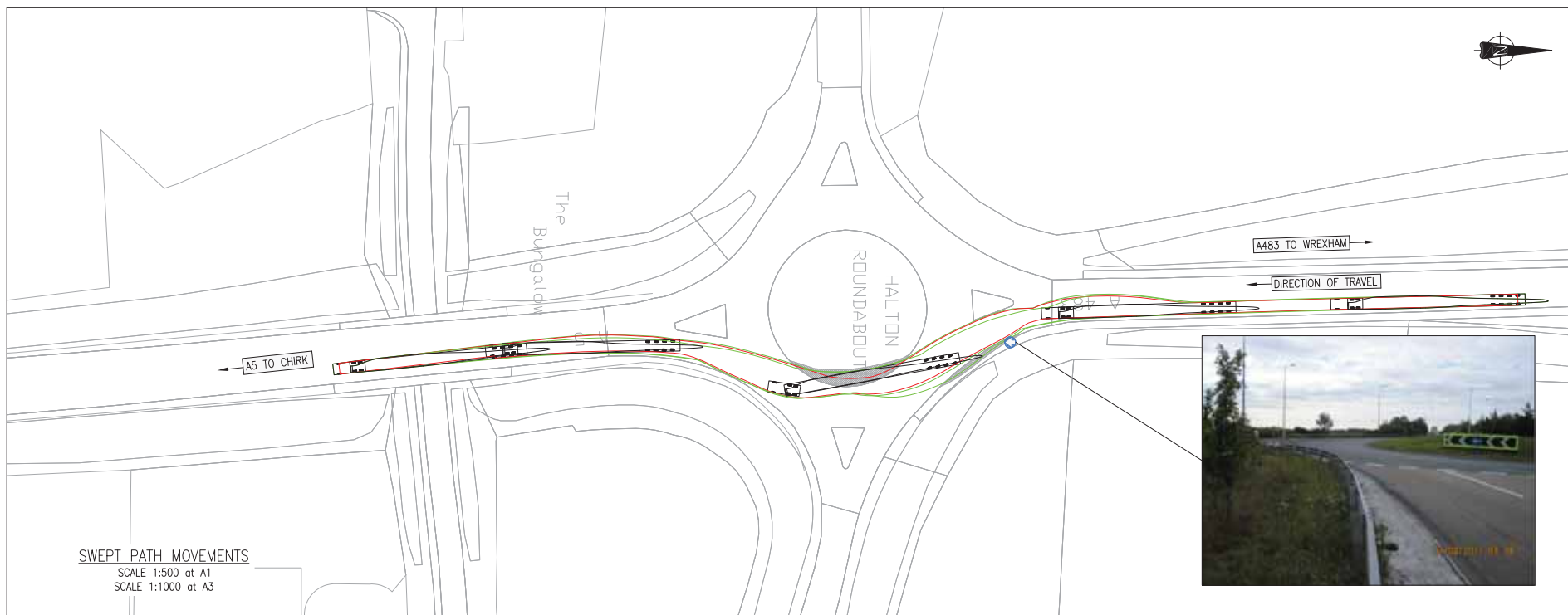


SWEPT PATH MOVEMENTS  
SCALE 1:500 at A1  
SCALE 1:1000 at A3



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





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

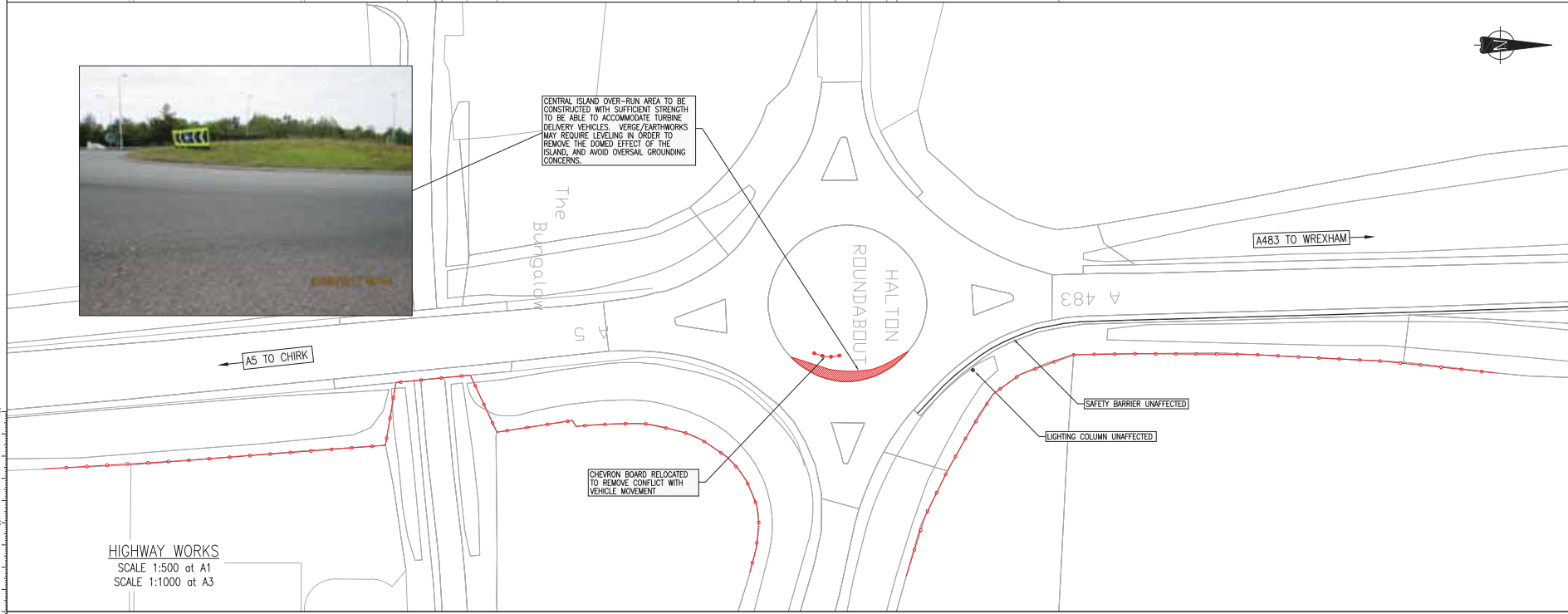
**NOTES**

**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:-**

- 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.
- SWEPT PATH ANALYSIS CARRIED OUT AGAINST ORDINANCE 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. 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	REMOVAL OF MANUAL REAR STEERING THROUGH THE JUNCTION	IFT	MC	GLP	15/03/12
REV	AMENDMENTS	BY	CHKD	APRD	DATE

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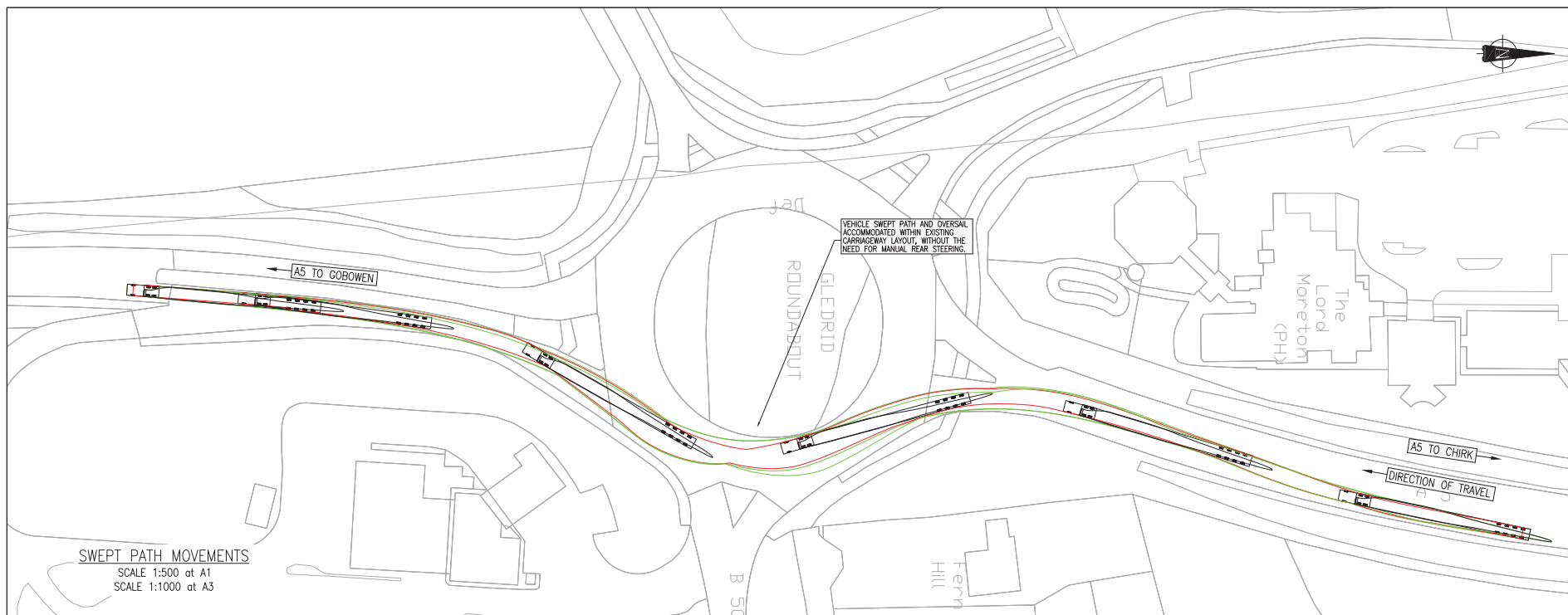
PROJECT  
**STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS**

TITLE  
**FIGURE 2-4d  
 SWEEP PATH ANALYSIS  
 HALTON ROUNDABOUT**

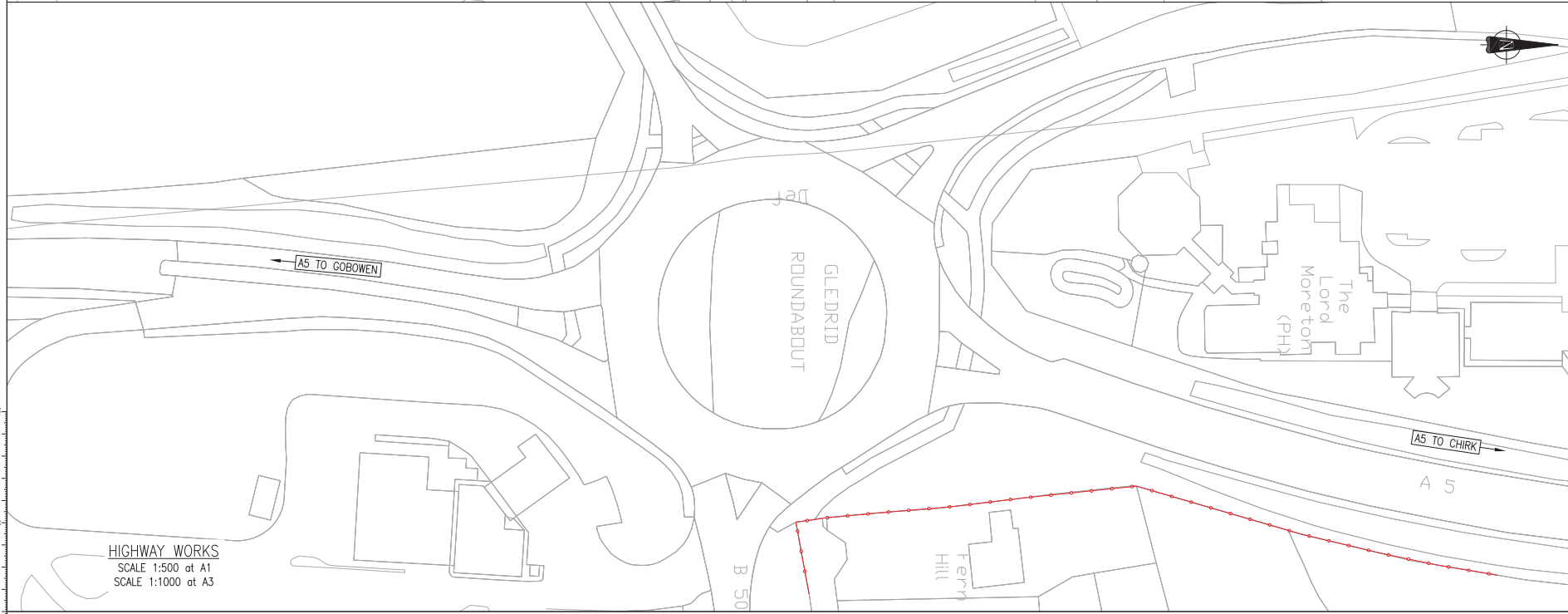
STATUS  
**FOR INFORMATION**

DRAWN	MC	CHECKED	IFT	APPROVED	DH
DATE	02/09/11	DATE	02/09/11	DATE	02/09/11
DRAWING SCALE	ORIGINAL DRAWING SIZE				
AS SHOWN	594 x 841 - A1				

DRAWING NO: **108526-FIG 2-4d** 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
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.

P2	SCALE NOTES AMENDED	BY	MC	GLP	20/03/12
REV	AMENDMENTS		CHD	APR	DATE

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

TITLE  
**FIGURE 2-4e  
SWEPT PATH ANALYSIS  
GLEDRID ROUNDABOUT**

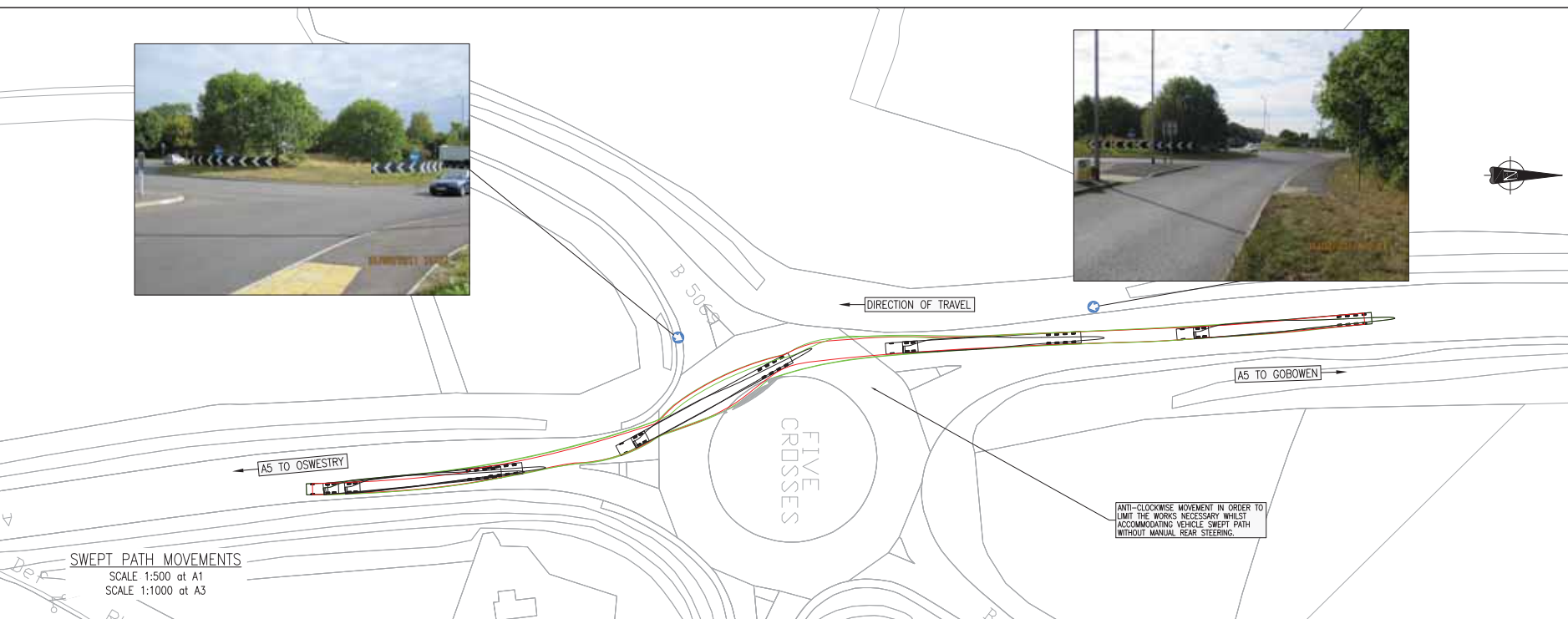
STATUS  
**FOR INFORMATION**

DRAWN	CHECKED	APPROVED
MC	IFT	DH
DATE	DATE	DATE
05/09/11	05/09/11	05/09/11
DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	
DRAWING NO:	REV:	
108526-FIG 2-4e	P2	



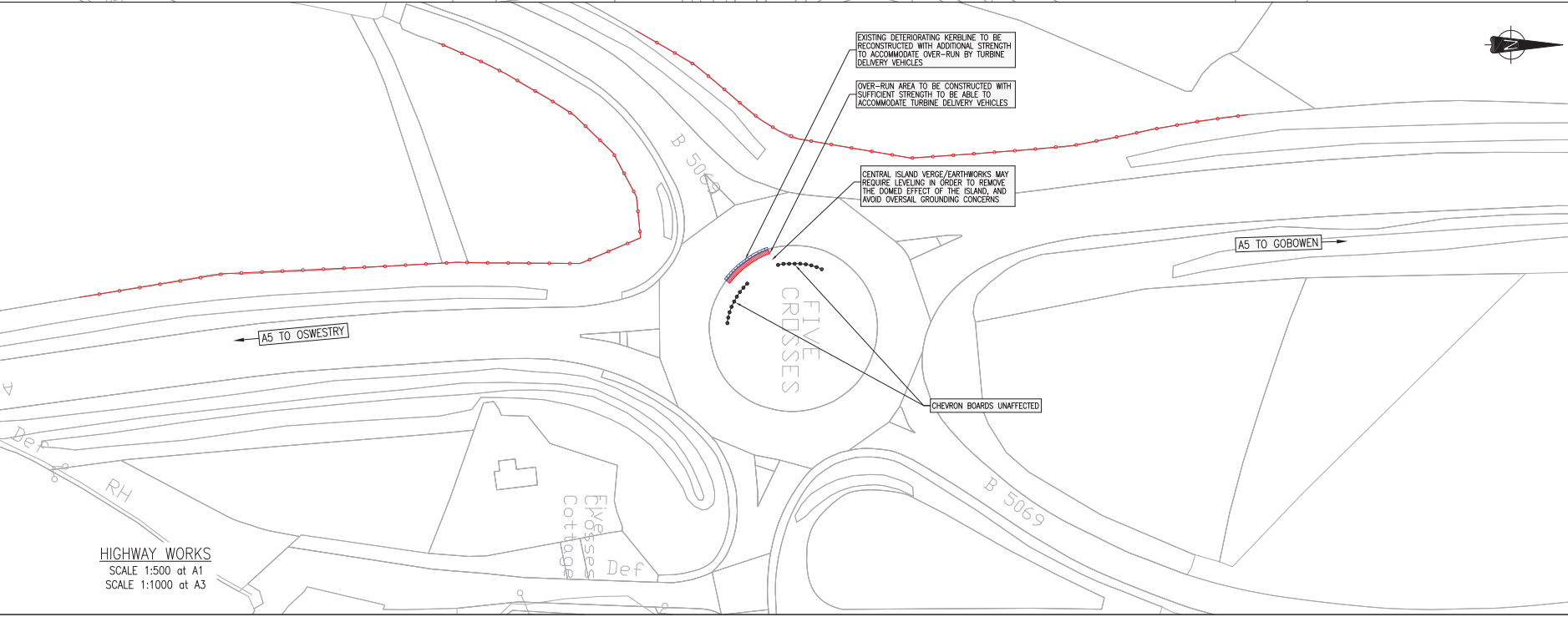


- NOTES**
- KEY:-**
- VEHICLE OUTLINE
  - CHASSIS SWEEP-PATH
  - LOAD OVERSAIL
  - ASSUMED HIGHWAY BOUNDARY
  - EXISTING STREET FURNITURE
  - RELOCATED STREET FURNITURE
  - PHOTOGRAPH LOCATION AND DIRECTION
  - LOAD OVERSAIL ENVELOPE
  - CARRIAGEWAY IMPROVEMENT WORKS
  - VEHICLE OVER-RUN CONSTRUCTION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



**SWEPT PATH MOVEMENTS**  
 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



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

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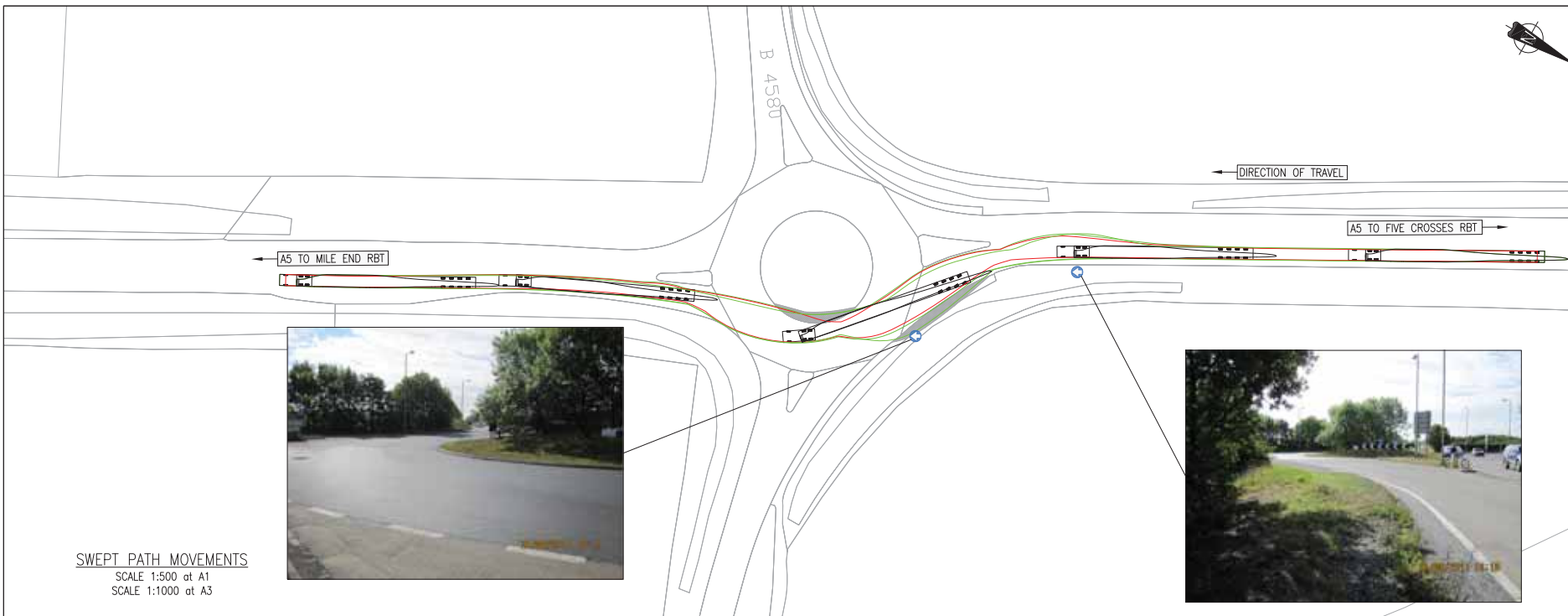
**PROJECT**  
 STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

**TITLE**  
 FIGURE 2-4f  
 SWEEP PATH ANALYSIS  
 FIVE CROSSES ROUNDABOUT

**STATUS**  
 FOR INFORMATION

DRAWN	CHECKED	APPROVED
IFT	DH	
DATE	DATE	DATE
05/09/11	05/09/11	05/09/11
DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	
DRAWING NO:	REV:	
108526-FIG 2-4f	P2	

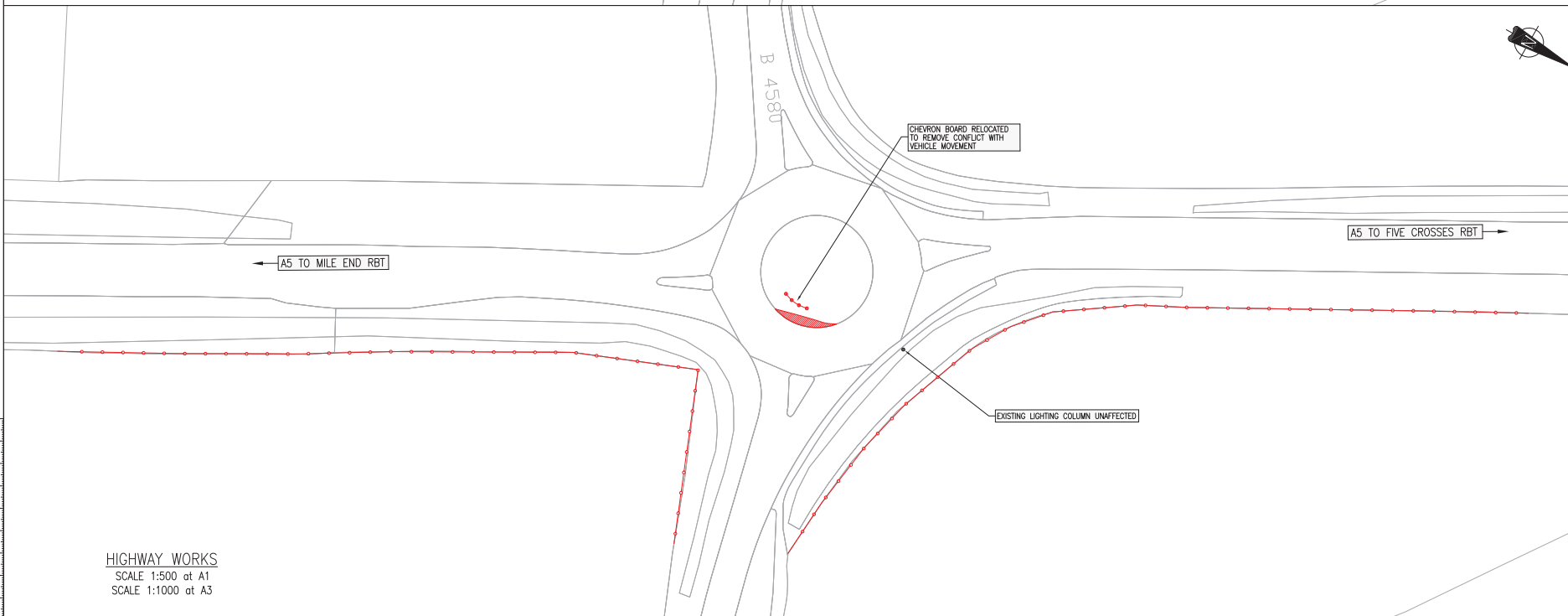




**SWEPT PATH MOVEMENTS**  
SCALE 1:500 at A1  
SCALE 1:1000 at A3



- 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 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.



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

P2	REMOVAL OF MANUAL REAR STEERING THROUGH THE JUNCTION	IFT	MC	GLP	16/03/12
REV	AMENDMENTS	BY	CHKD	APPRD	DATE

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STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

**TITLE**  
FIGURE 2-4g  
SWEPT PATH ANALYSIS  
OSWESTRY ROUNDABOUT

**STATUS**  
FOR INFORMATION

DRAWN	CHECKED	APPROVED
MC	IFT	DH
DATE	DATE	DATE
06/09/11	06/09/11	06/09/11
DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	
DRAWING NO:	REV:	
108526-FIG 2-4g	P2	



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

**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 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.

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 2-4h  
SWEPT PATH ANALYSIS  
MILE END ROUNDABOUT

**STATUS**  
FOR INFORMATION

DRAWN	MC	CHECKED	IFT	APPROVED	DH
DATE	06/09/11	DATE	06/09/11	DATE	06/09/11
DRAWING SCALE	AS SHOWN		ORIGINAL DRAWING SIZE	594 x 841 - A1	
DRAWING NO.	108526-FIG 2-4h		REV.	P2	

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





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



- 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.

**SWEPT PATH MOVEMENTS**  
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**

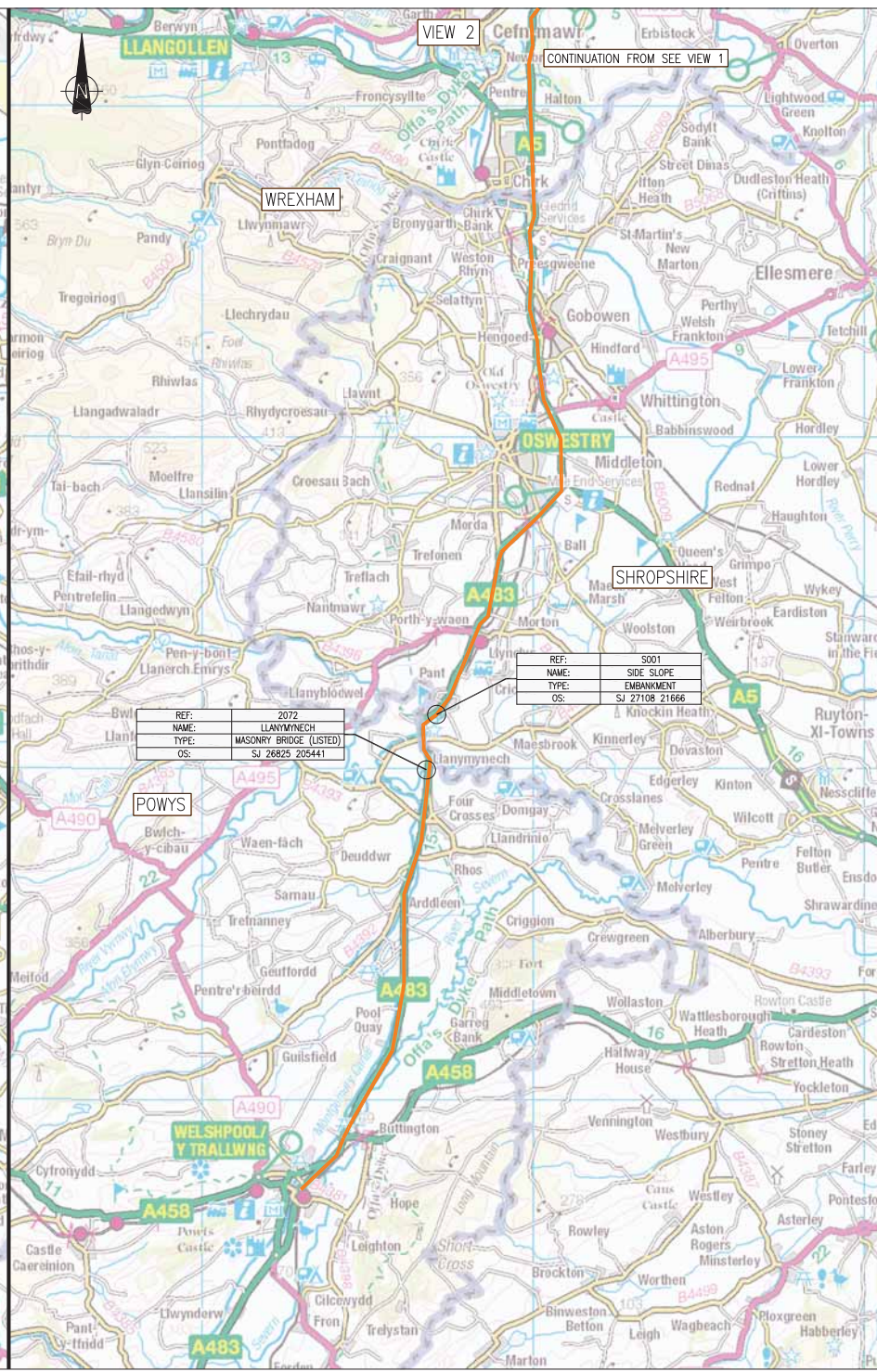
**TITLE**  
**FIGURE 2-4i  
SWEPT PATH ANALYSIS  
BUTTINGTON CROSS**

**STATUS**  
**FOR INFORMATION**

DRAWN	CHECKED	APPROVED
MC	IFT	DH
DATE	DATE	DATE
06/09/11	06/09/11	06/09/11
DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	
DRAWING NO.	REV.	
108526-FIG 2-4i	P2	

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





REF:	A483 1220 & 1230
NAME:	PLAS COCH
TYPE:	HEIGHT RESTRICTION
OS:	SJ 32300 51300 SJ 32300 51400

REF:	A483 1180
NAME:	RUTHIN ROAD
TYPE:	HEIGHT RESTRICTION
OS:	SJ 31200 50300

REF:	2072
NAME:	LLANYWNECH
TYPE:	MASONRY BRIDGE (LISTED)
OS:	SJ 26825 205441

REF:	S001
NAME:	SIDE SLOPE
TYPE:	EMBANKMENT
OS:	SJ 27108 21866

FOR CONTINUATION SEE VIEW 2

CONTINUATION FROM SEE VIEW 1

**NOTES**

**LEGEND**

- COMMON SECTION OF ROUTE
- HIGHWAY AUTHORITY BOUNDARY

**NOTES**

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

P2	SCALE NOTES AMENDED	BY	MC	DUP	20/03/12
REV	AMENDMENTS	BY	CHKD	APPRD	DATE

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TITLE

**FIGURE 2-6  
STRUCTURES ALONG COMMON SECTION**

STATUS

**FOR INFORMATION**

DRAWN	AR	CHECKED	DH	APPROVED	STW
DATE	16.08.11	DATE	16.08.11	DATE	16.08.11
DRAWING SCALE	1:75000 at A1 1:150000 at A3	ORIGINAL DRAWING SIZE	594 x 841 - A1		

DRAWING NO: 108526-FIG 2-6

REV: P2