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Base mapping provided by MKO

Figure 15-1a Site location and turbine delivery route

PROJECT: Carrig Renewables Wind Farm Development

CLIENT: AIP

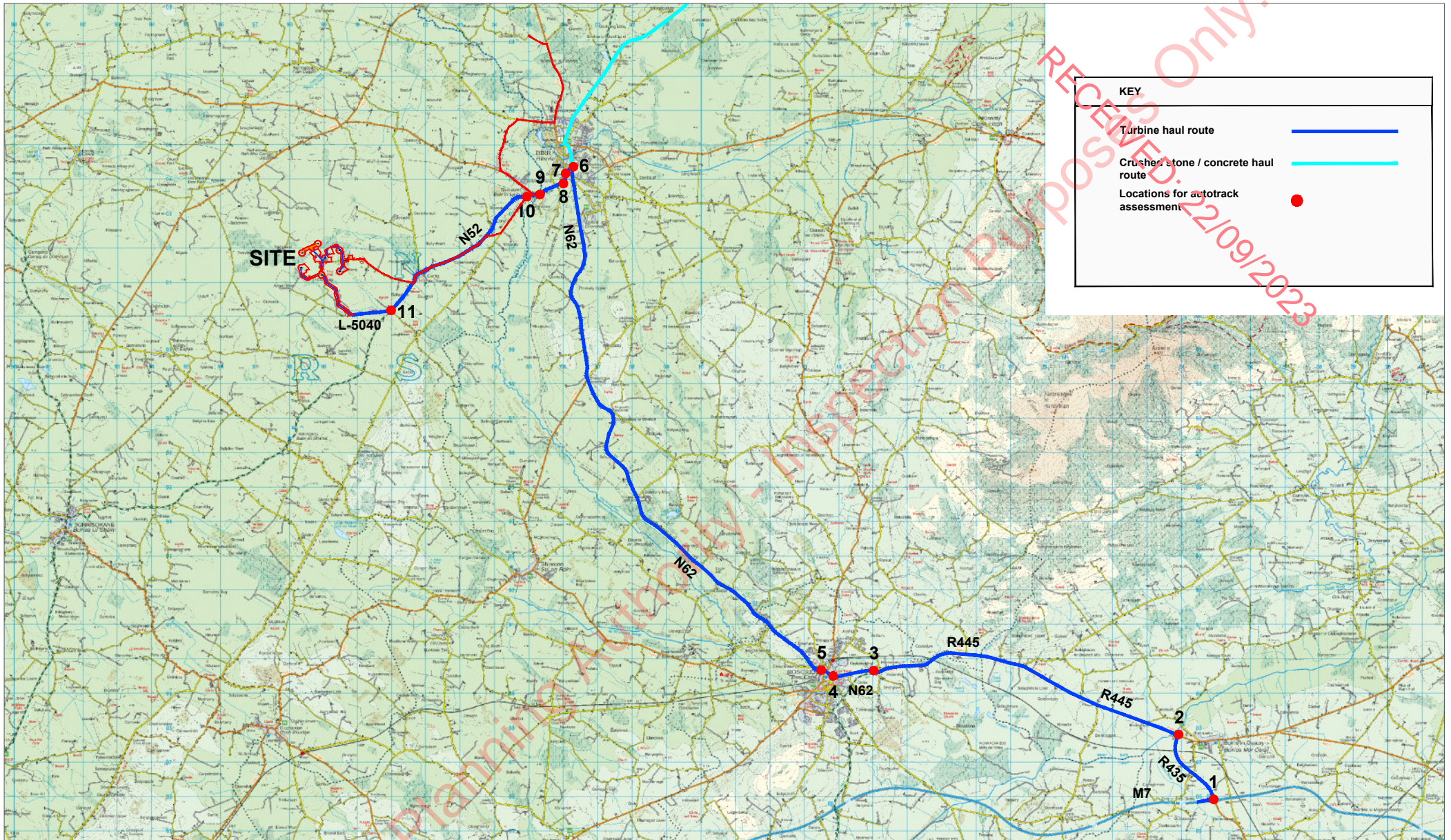
SCALE: NTS

PROJECT NO: 9920

DATE: 20.09.23

DRAWN BY: AL

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Figure 15-1b Turbine delivery route autotrack assessment location plan

PROJECT: Carrig Renewables Wind Farm Development

CLIENT: AIP

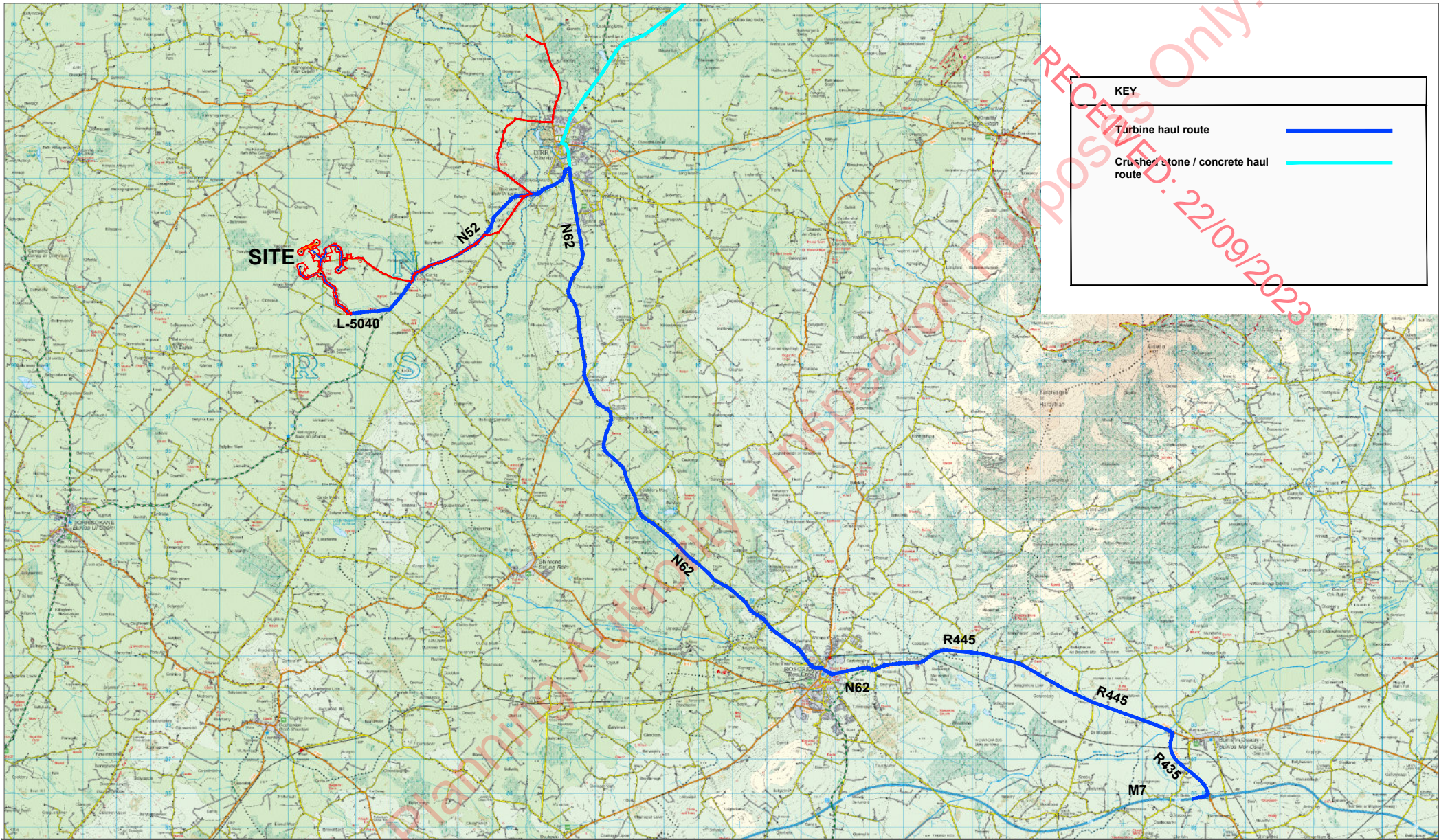
SCALE: NTS

PROJECT NO: 9920

DATE: 20.19.23

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**KEY**

Turbine haul route —

Crusher stone / concrete haul route —

NOTES:

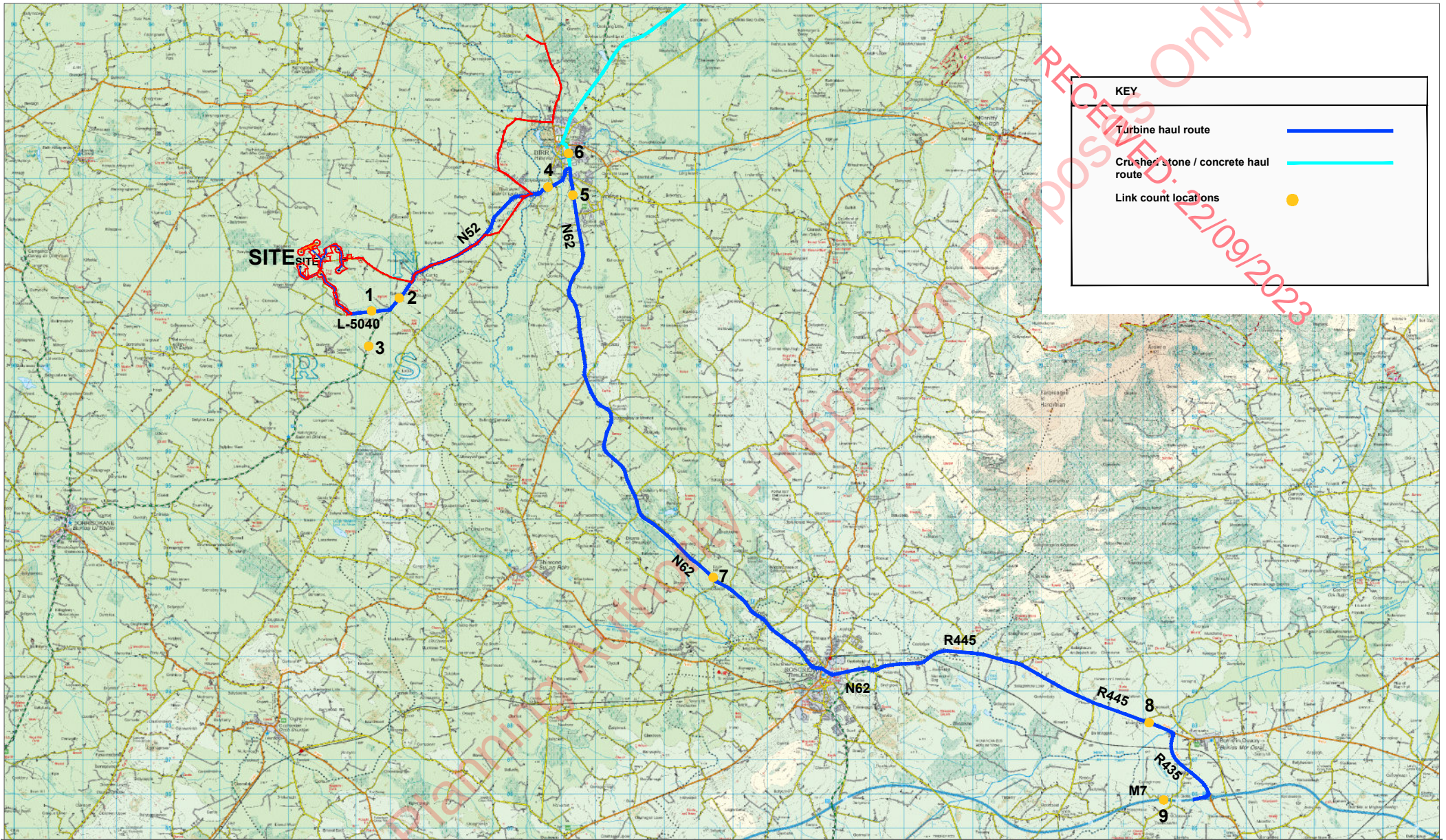
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Base mapping provided by MKO

Figure 15-2a Site location and delivery routes for general construction traffic

PROJECT: Carrig Renewables Wind Farm Development	
CLIENT: AIP	SCALE: NTS
PROJECT NO: 9920	DATE: 20.08.23
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Figure 15-2b Link count locations

PROJECT: Carrig Renewables Wind Farm Development

CLIENT: AIP

SCALE: NTS

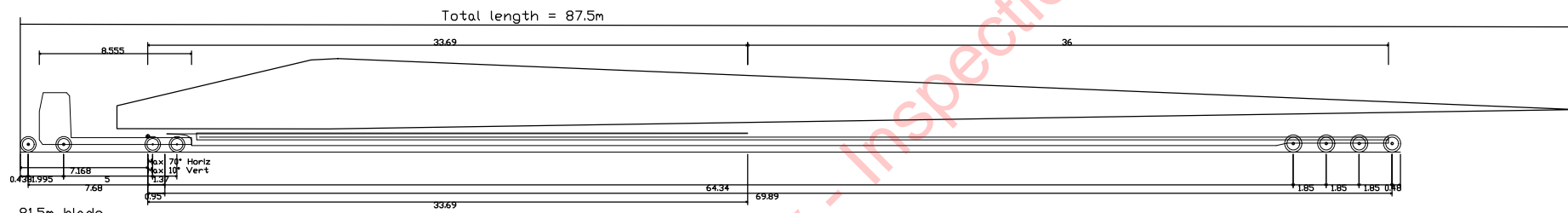
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81.5m blade	77.537m
Overall Length	2.550m
Overall Width	4.800m
Overall Body Height	0.375m
Min Body Ground Clearance	2.500m
Track Width	6.00s
Lock-to-lock time	9.800m
Wall to Wall Turning Radius	

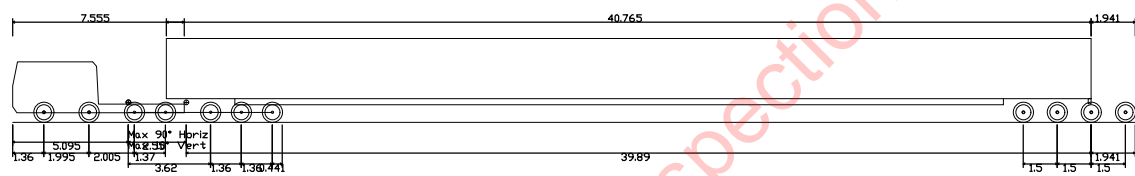
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FIGURE 15-3 Design blade extended artic profile

PROJECT: Carrig Renewables Wind Farm Development	
CLIENT: AIP	SCALE: NTS
PROJECT NO: 9290	DATE: 04.08.23
	DRAWN BY: AL

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Tower	
Overall Length	49.476m
Overall Width	2.550m
Overall Body Height	3.695m
Min Body Ground Clearance	0.427m
Max Track Width	2.520m
Lock to Lock Time	6.00s
Wall to Wall Turning Radius	9.800m

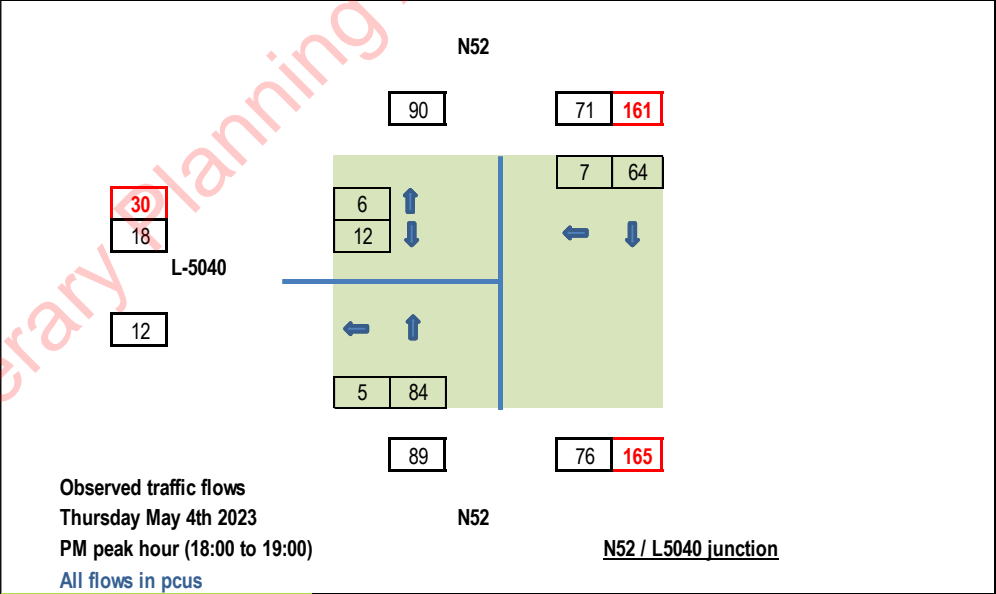
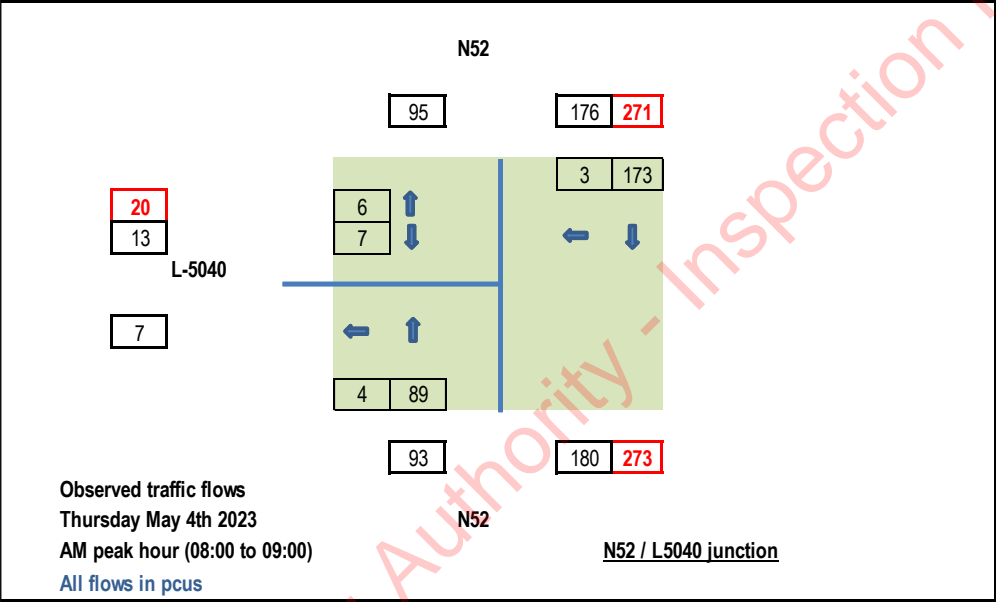
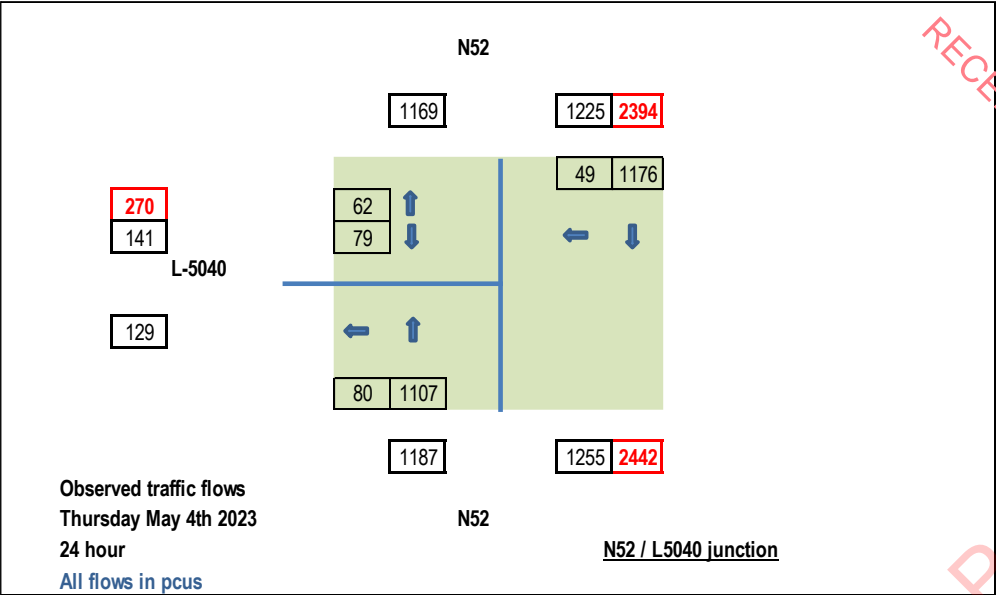
NOTES:  
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FIGURE 15-4 Design tower extended artic profile

PROJECT: Carrig Renewables Wind Farm Development	
CLIENT: AIP	SCALE: NTS
PROJECT NO: 9290	DATE: 08.02.23
	DRAWN BY: AL

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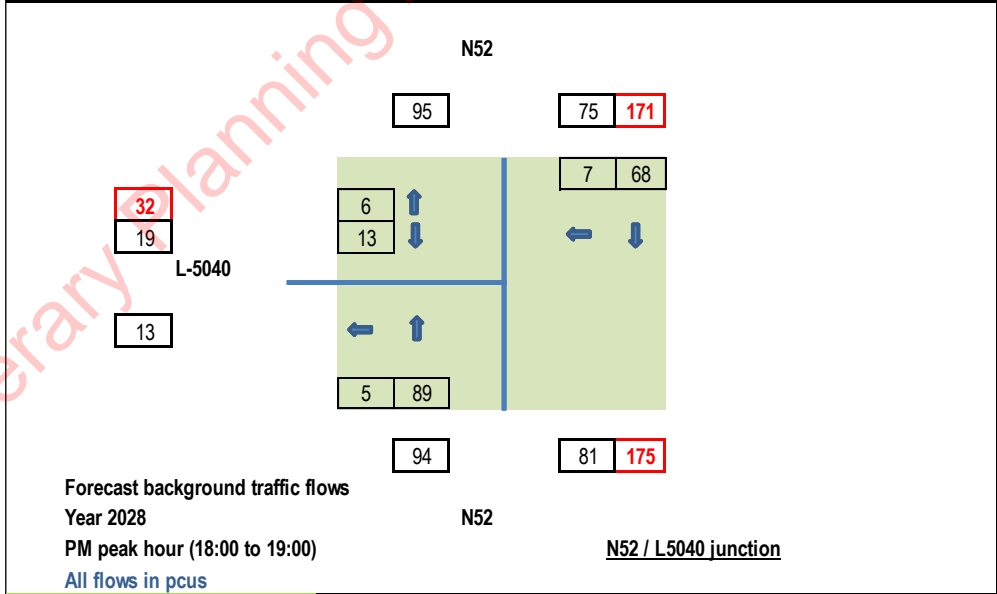
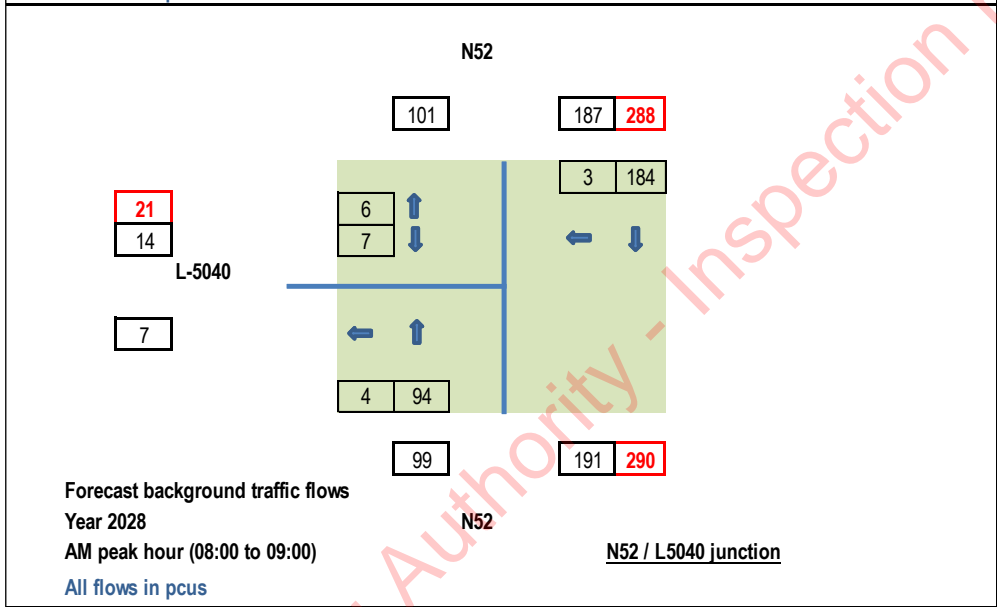
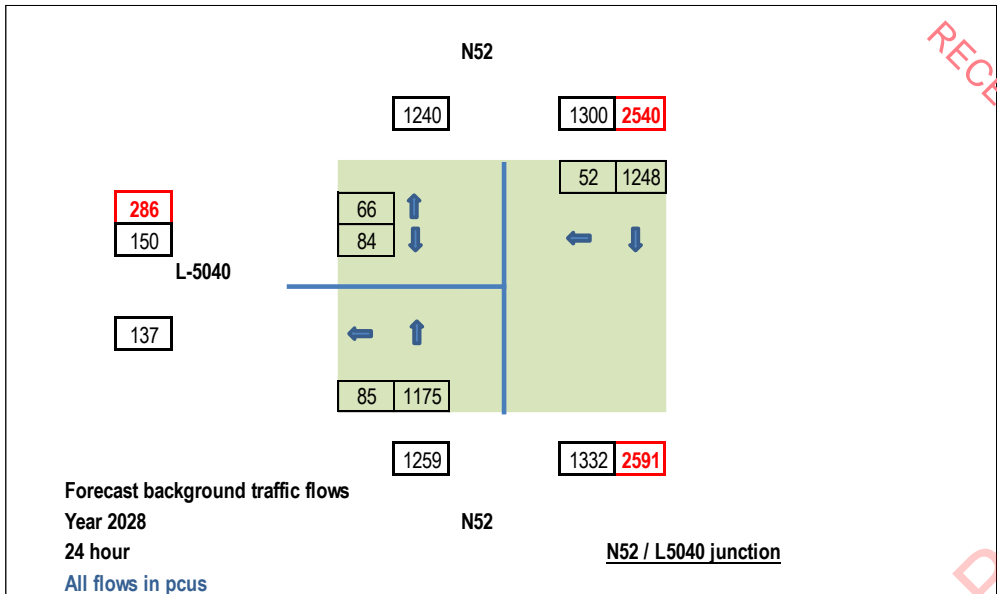
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Figure 15-5a Observed traffic flows at N52 / L5040 junction  
Year 2023 - pcus

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Figure 15-5b Background traffic flows at N52 / L5040 junction  
 Year 2028 - pcus



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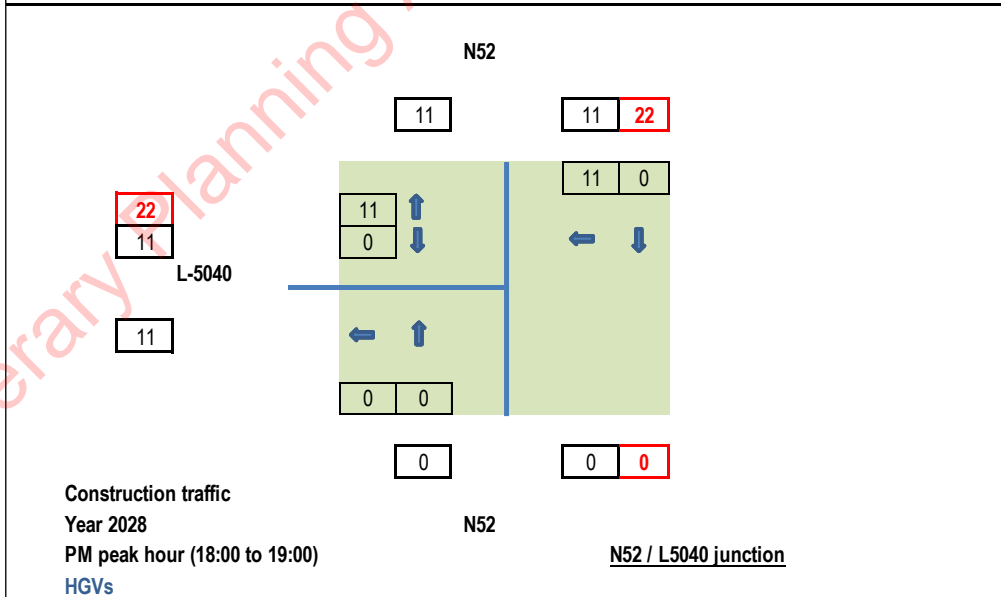
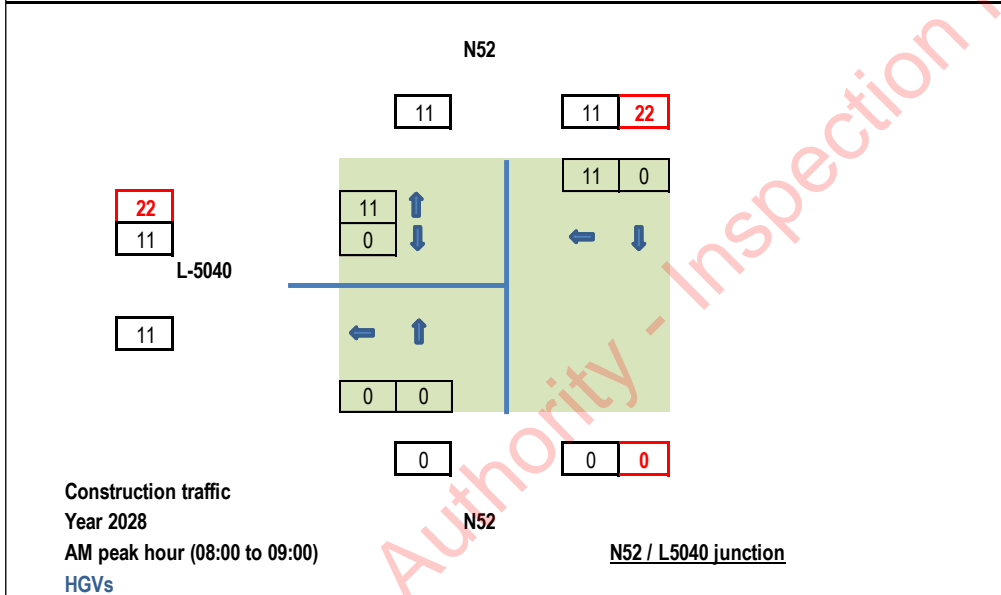
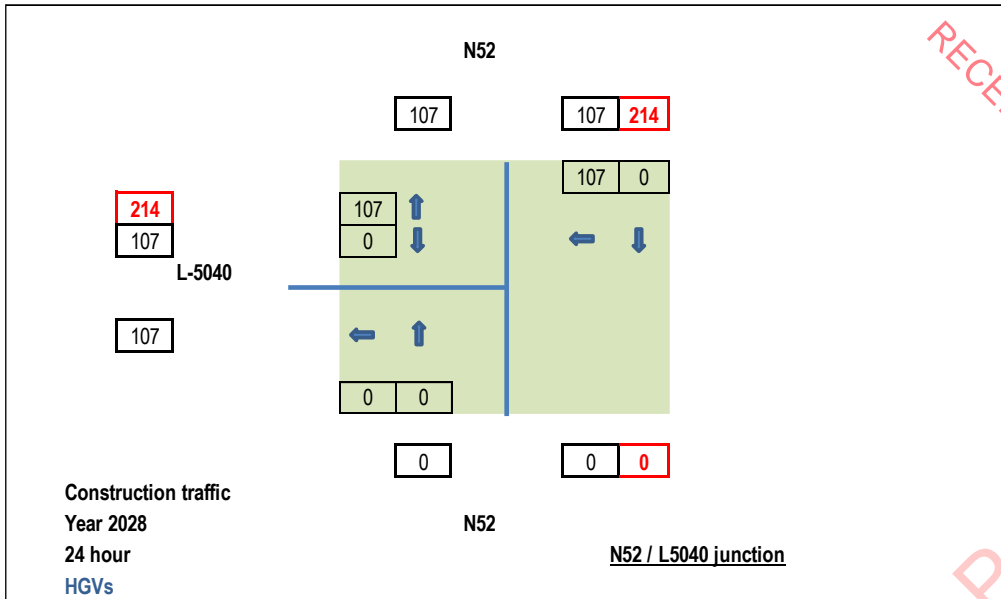
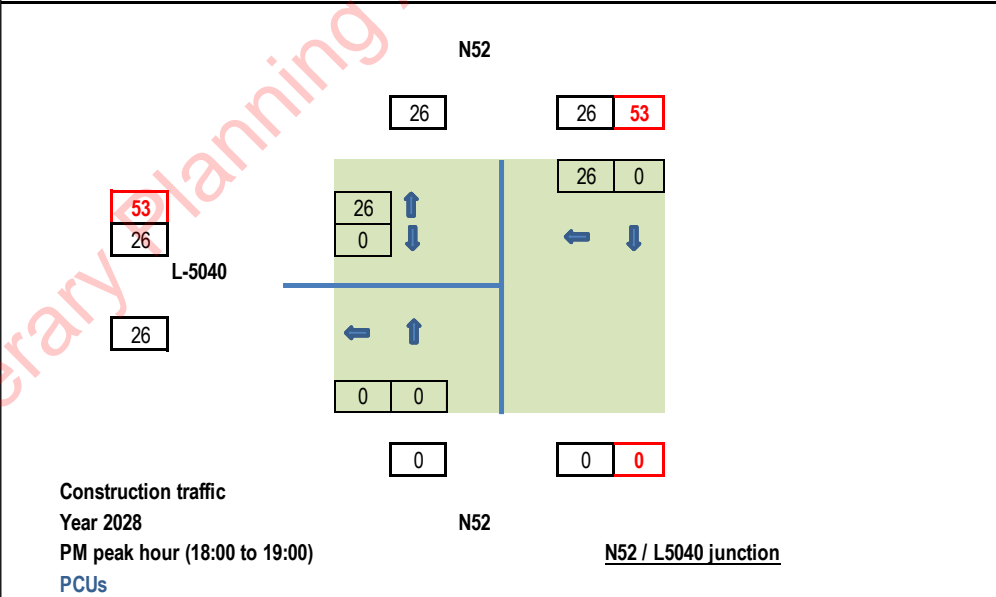
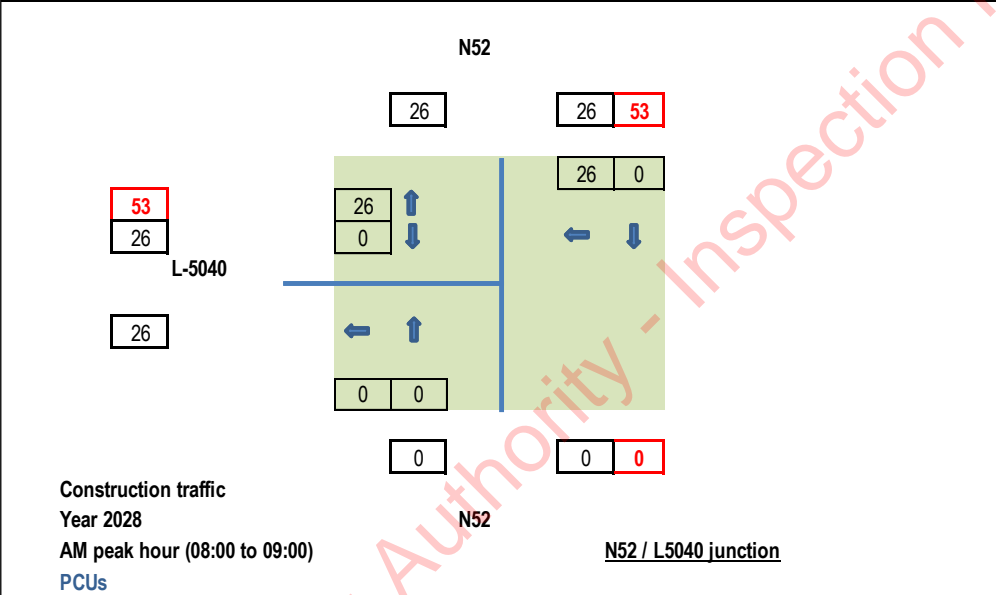
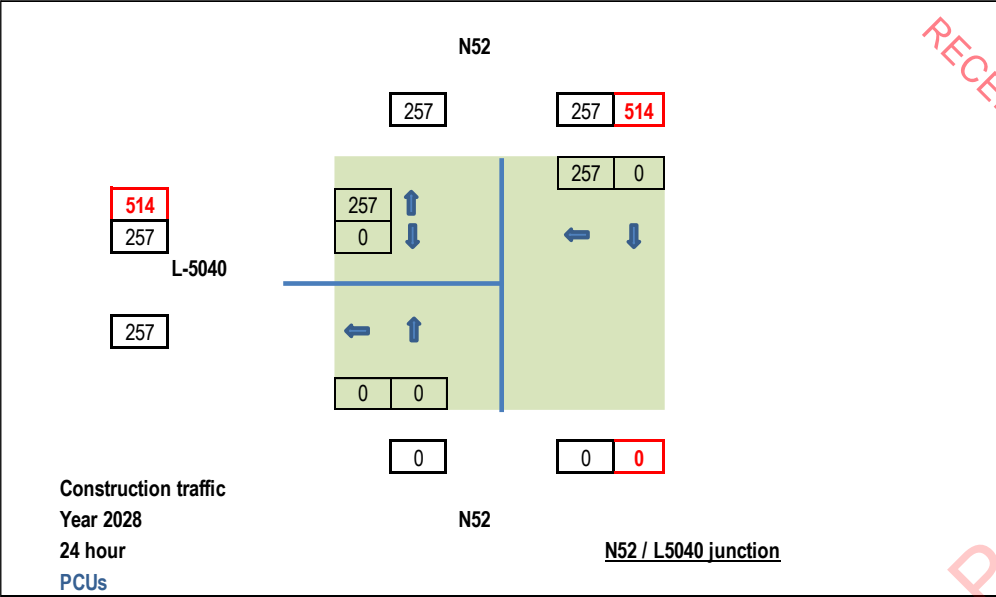


Figure 15-5c Construction traffic flows at N52 / L-5040 junction  
HGVs

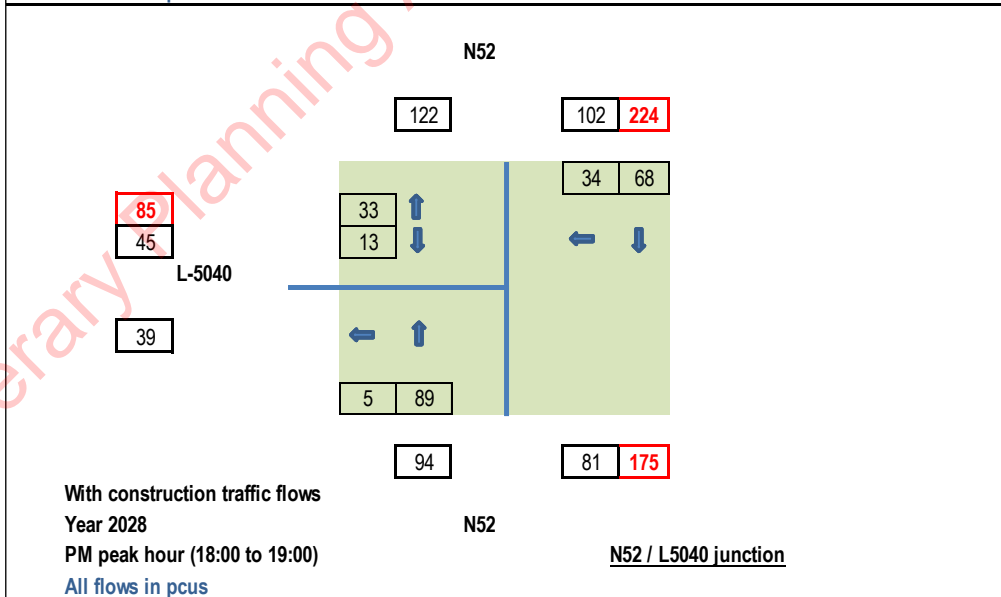
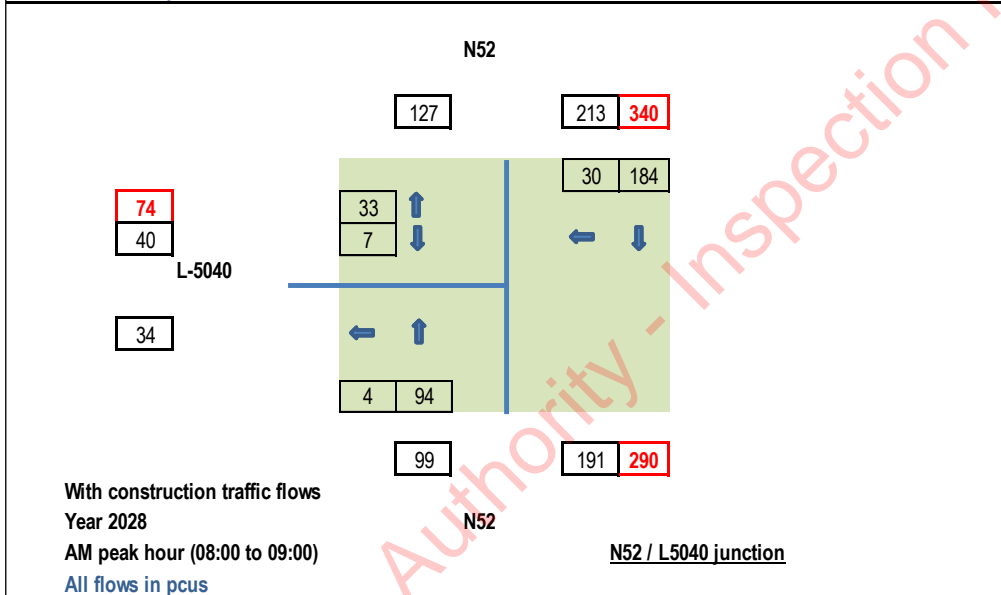
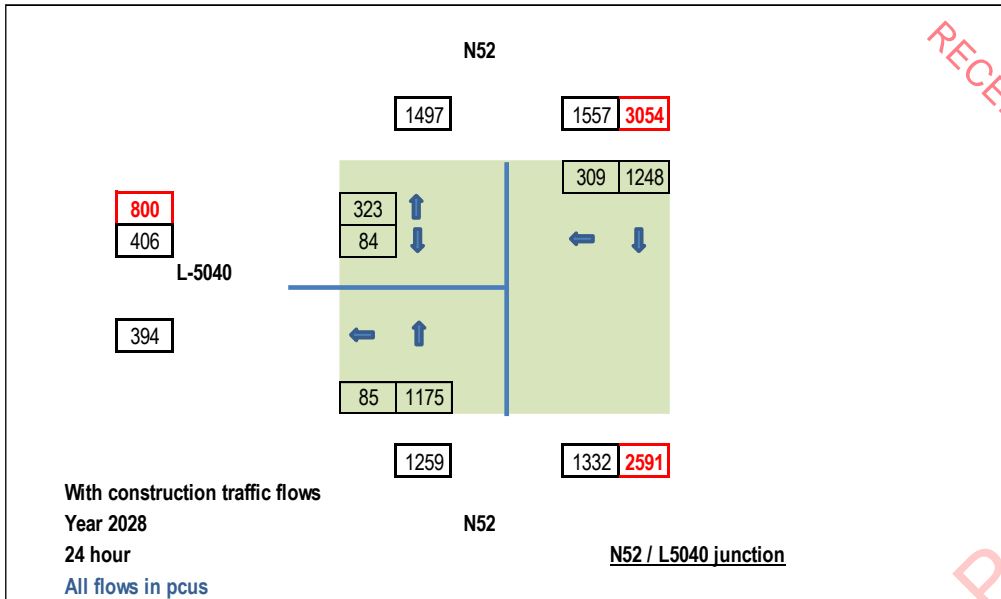
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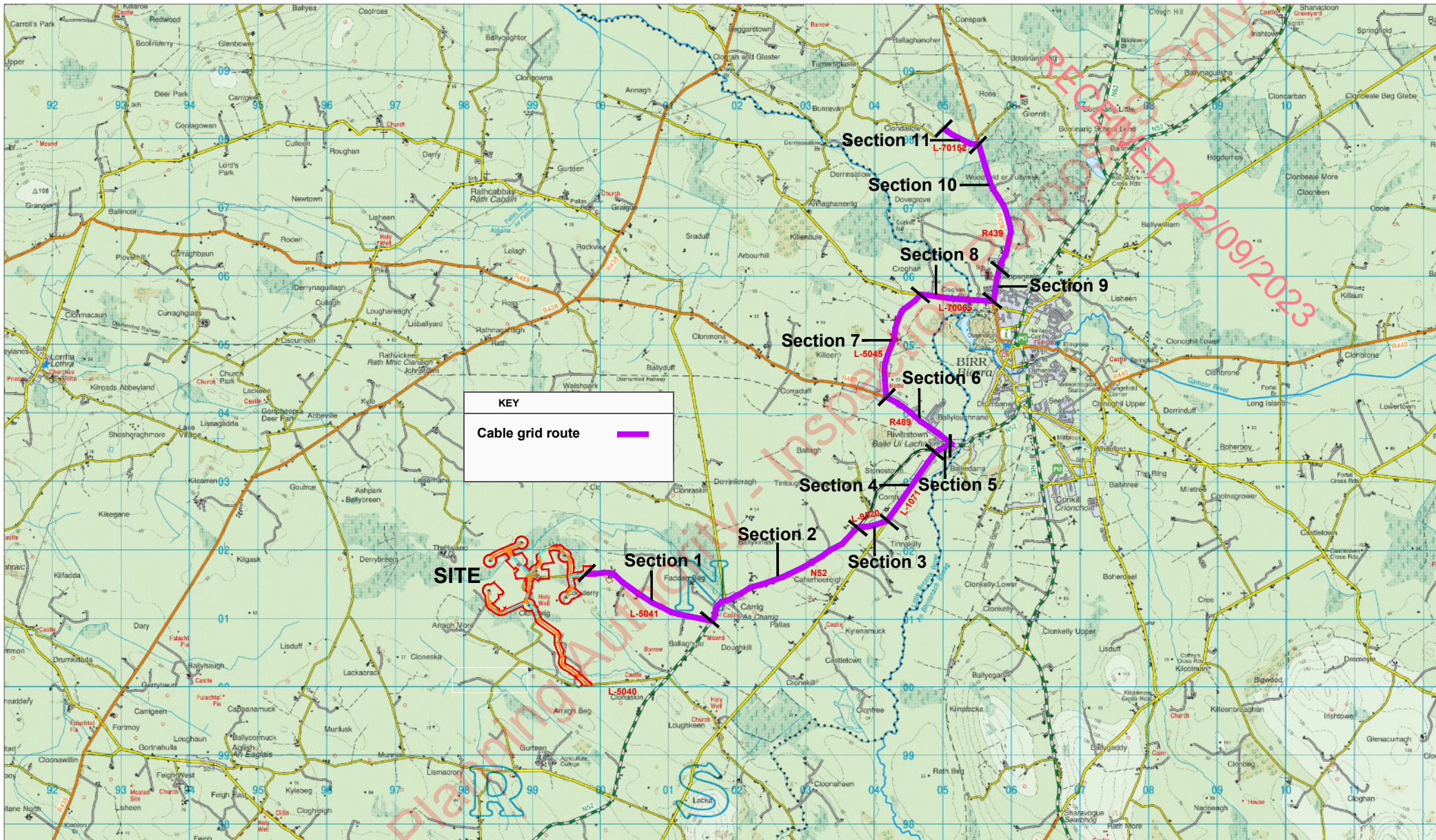
**Figure 15-5d Construction traffic flows at N52 / L-5040 junction**  
**PCUs**

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Figure 15-5e With construction traffic flows at N52 / L-5040 junction  
 Year 2028 - pcus



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Base mapping provided by MKO

Figure 15-6 Proposed cable grid connection route

PROJECT: Carrig Renewables Wind Farm Development

CLIENT: AIP

SCALE: NTS

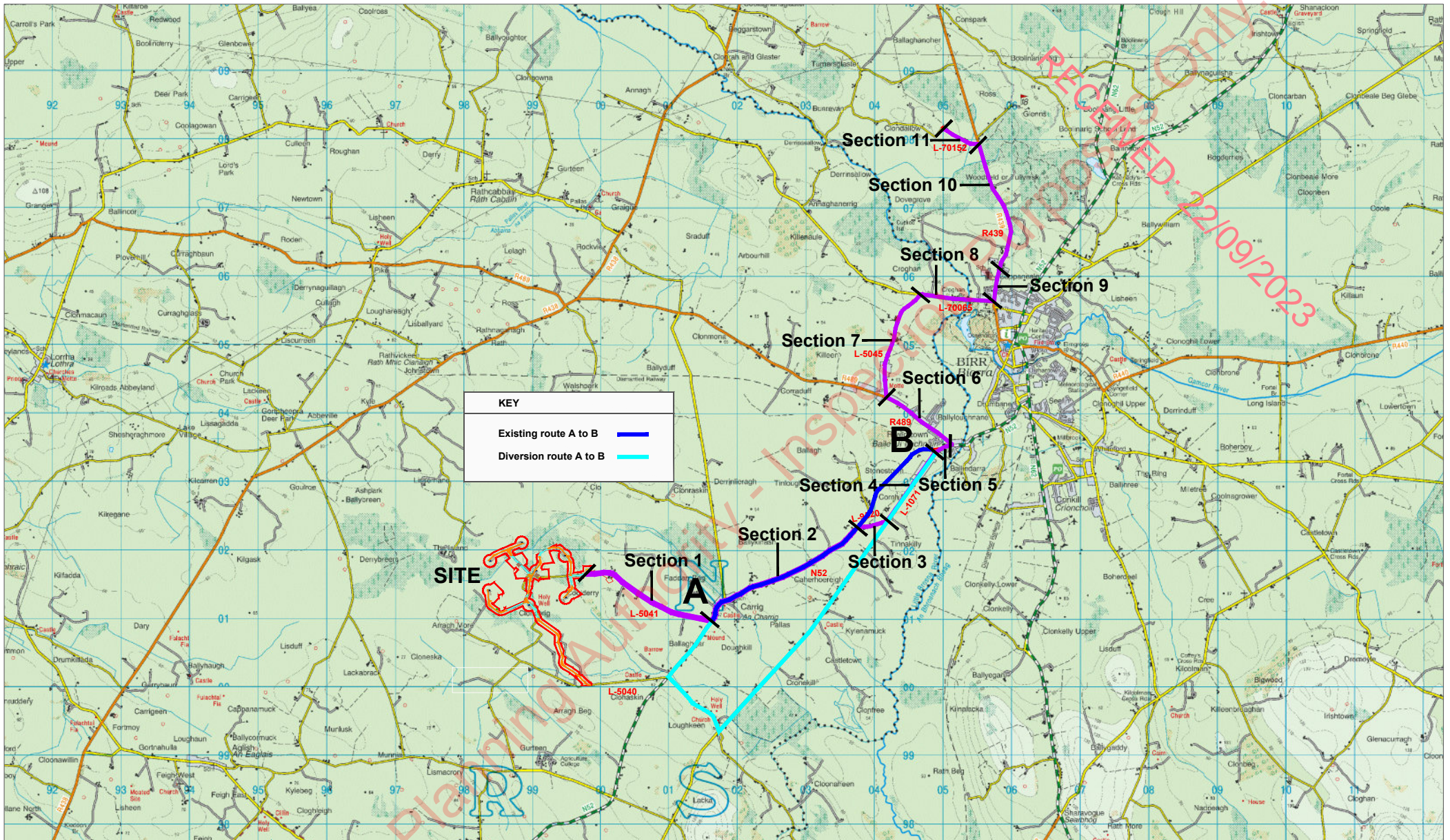
PROJECT NO: 9920

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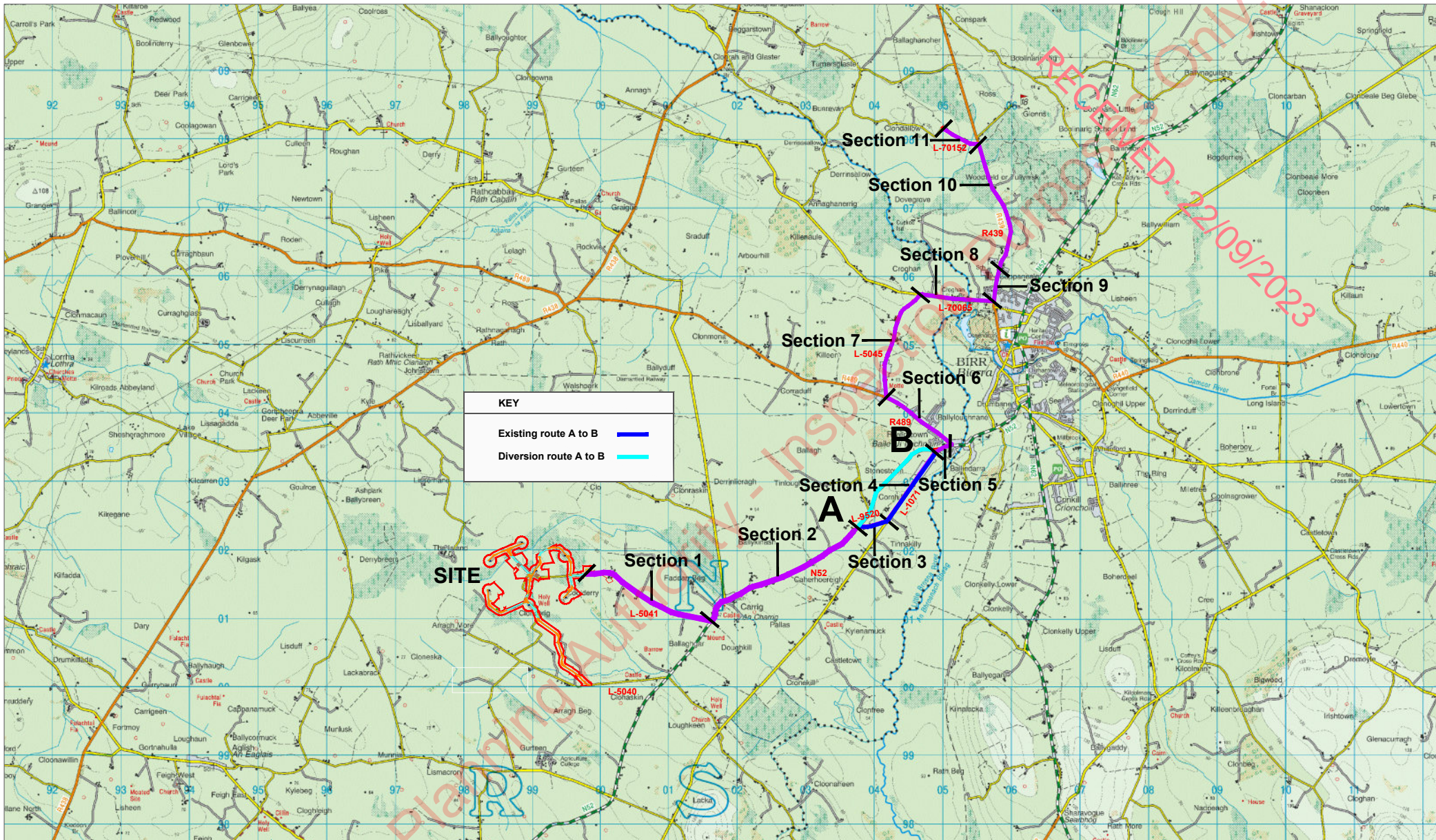


NOTES:  
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 Base mapping provided by MKO

Figure 15-7b Diversion route during closure of cable grid connection Section 2

PROJECT: Carrig Renewables Wind Farm Development	
CLIENT: AIP	SCALE: NTS
PROJECT NO: 9920	DATE: 20.09.23
	DRAWN BY: AL

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Base mapping provided by MKO

Figure 15-7c Diversion route during closure of cable grid connection Section 3

PROJECT: Carrig Renewables Wind Farm Development

CLIENT: AIP

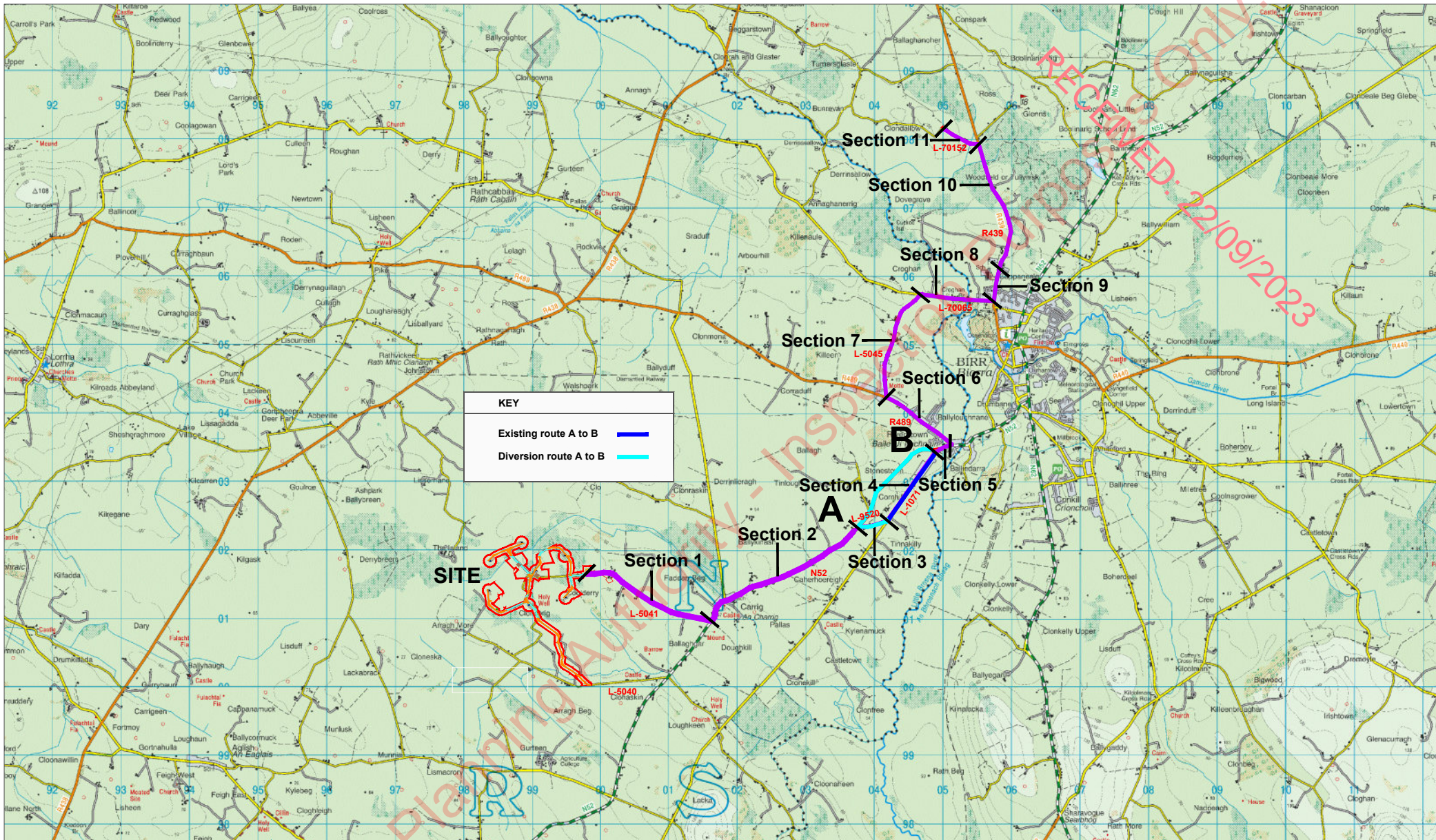
SCALE: NTS

PROJECT NO: 9920

DATE: 20.09.23

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Base mapping provided by MKO

Figure 15-7d Diversion route during closure of cable grid connection Section 4

PROJECT: Carrig Renewables Wind Farm Development

CLIENT: AIP

SCALE: NTS

PROJECT NO: 9920

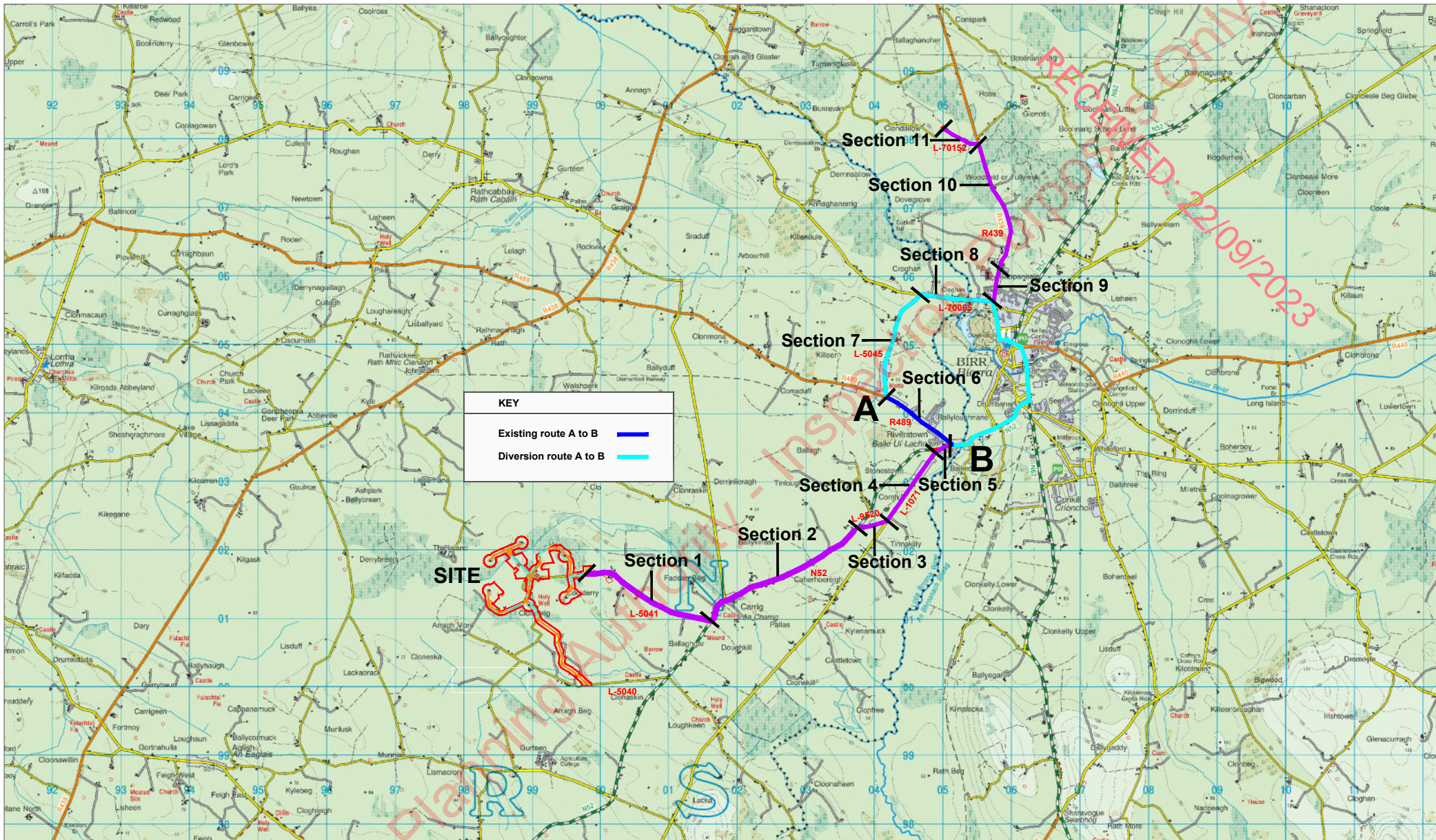
DATE: 20.09.23

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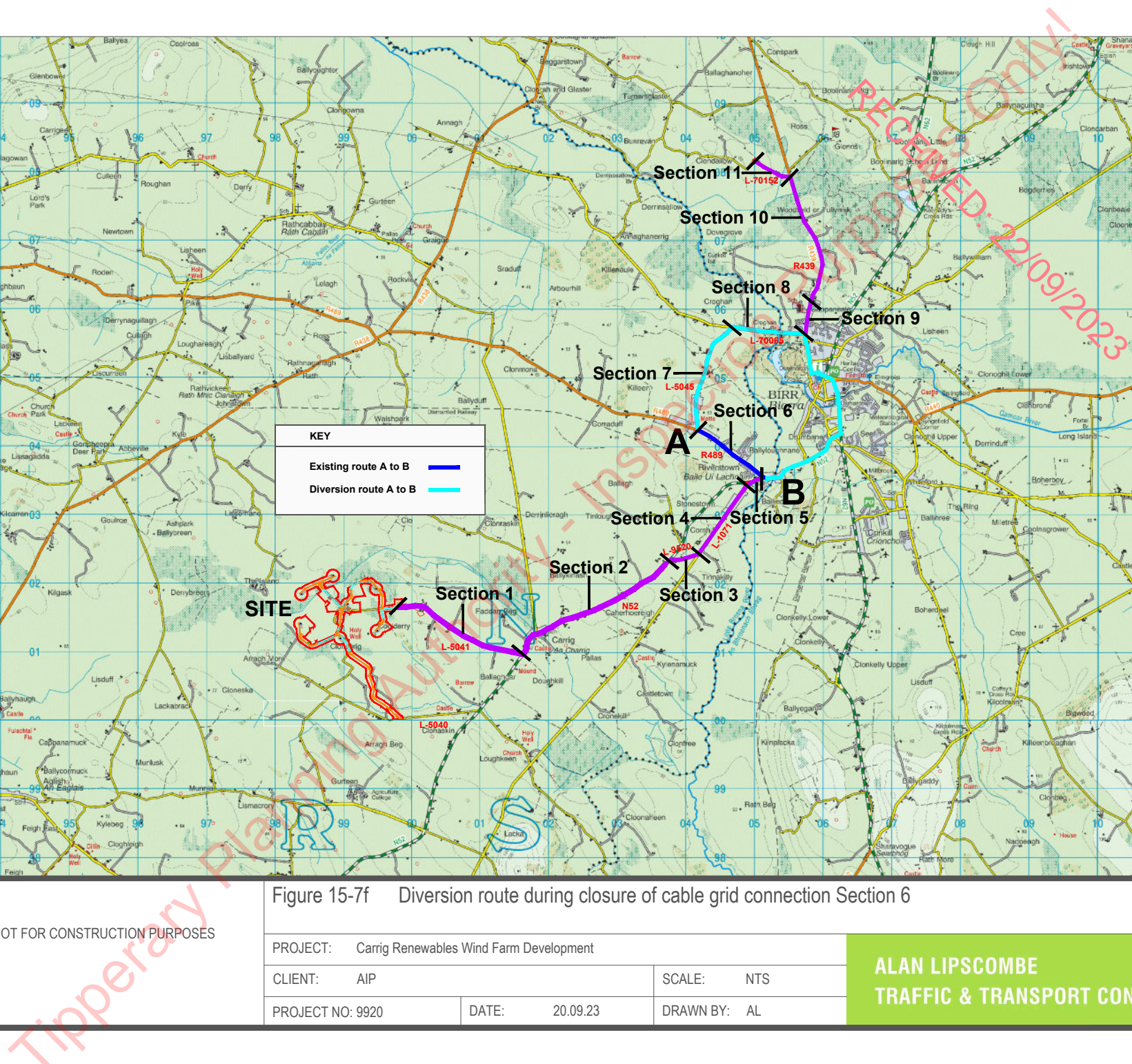


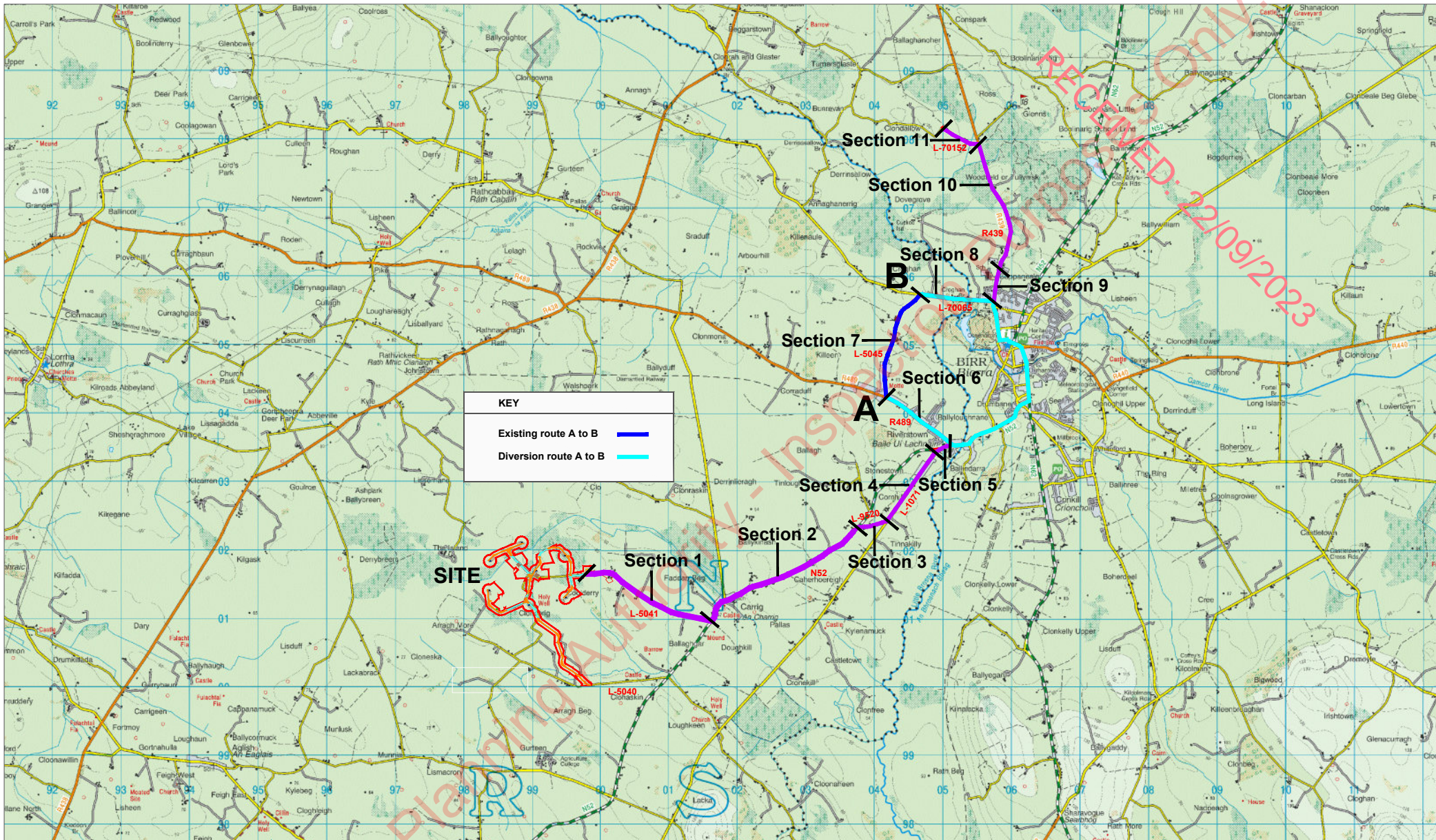
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 Base mapping provided by MKO

Figure 15-7f Diversion route during closure of cable grid connection Section 6

PROJECT: Carrig Renewables Wind Farm Development	
CLIENT: AIP	SCALE: NTS
PROJECT NO: 9920	DATE: 20.09.23
	DRAWN BY: AL

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Figure 15-7g Diversion route during closure of cable grid connection Section 7

PROJECT: Carrig Renewables Wind Farm Development

CLIENT: AIP

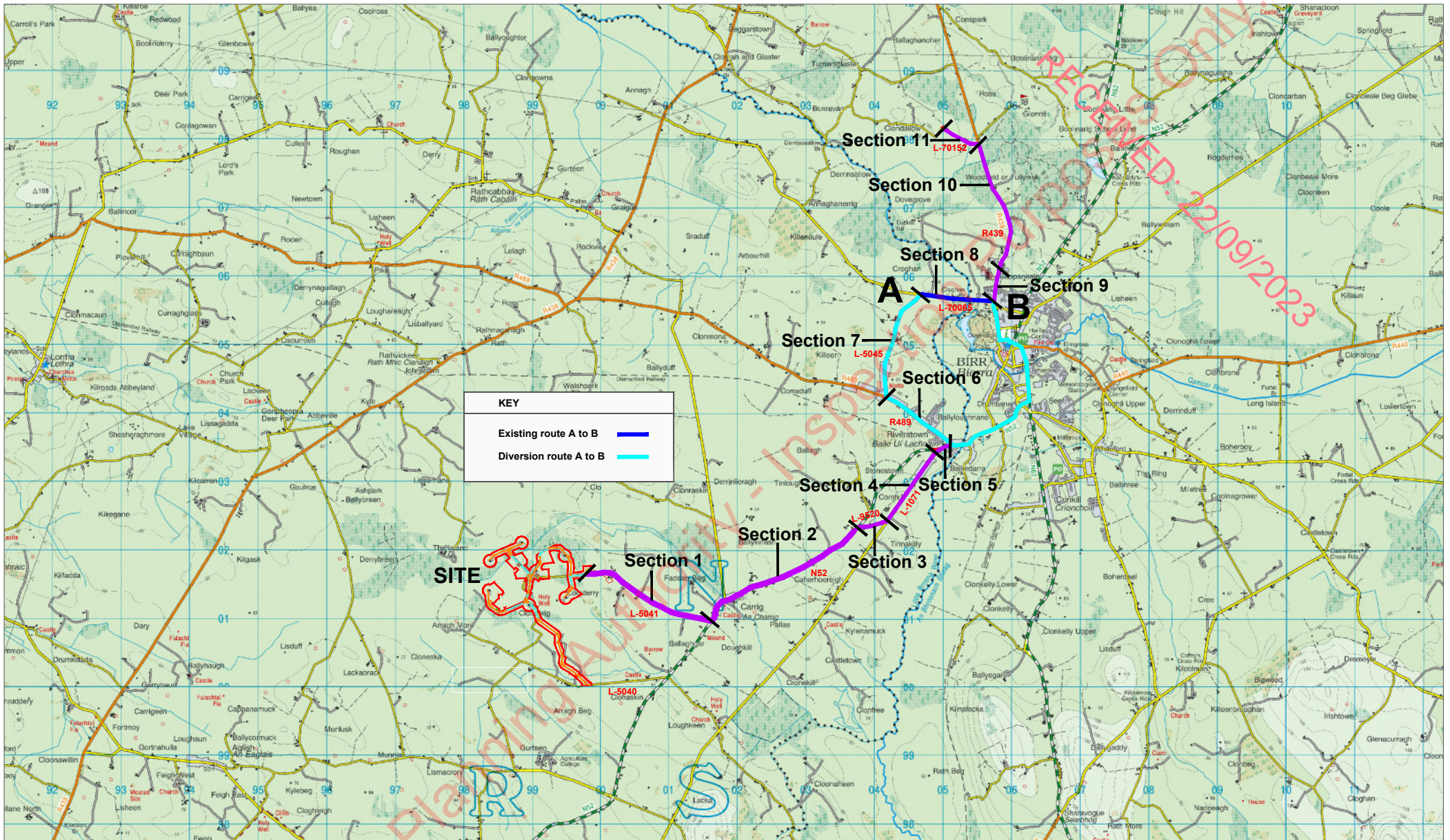
SCALE: NTS

PROJECT NO: 9920

DATE: 20.09.23

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Figure 15-7h Diversion route during closure of cable grid connection Section 8

PROJECT: Carrig Renewables Wind Farm Development

CLIENT: AIP

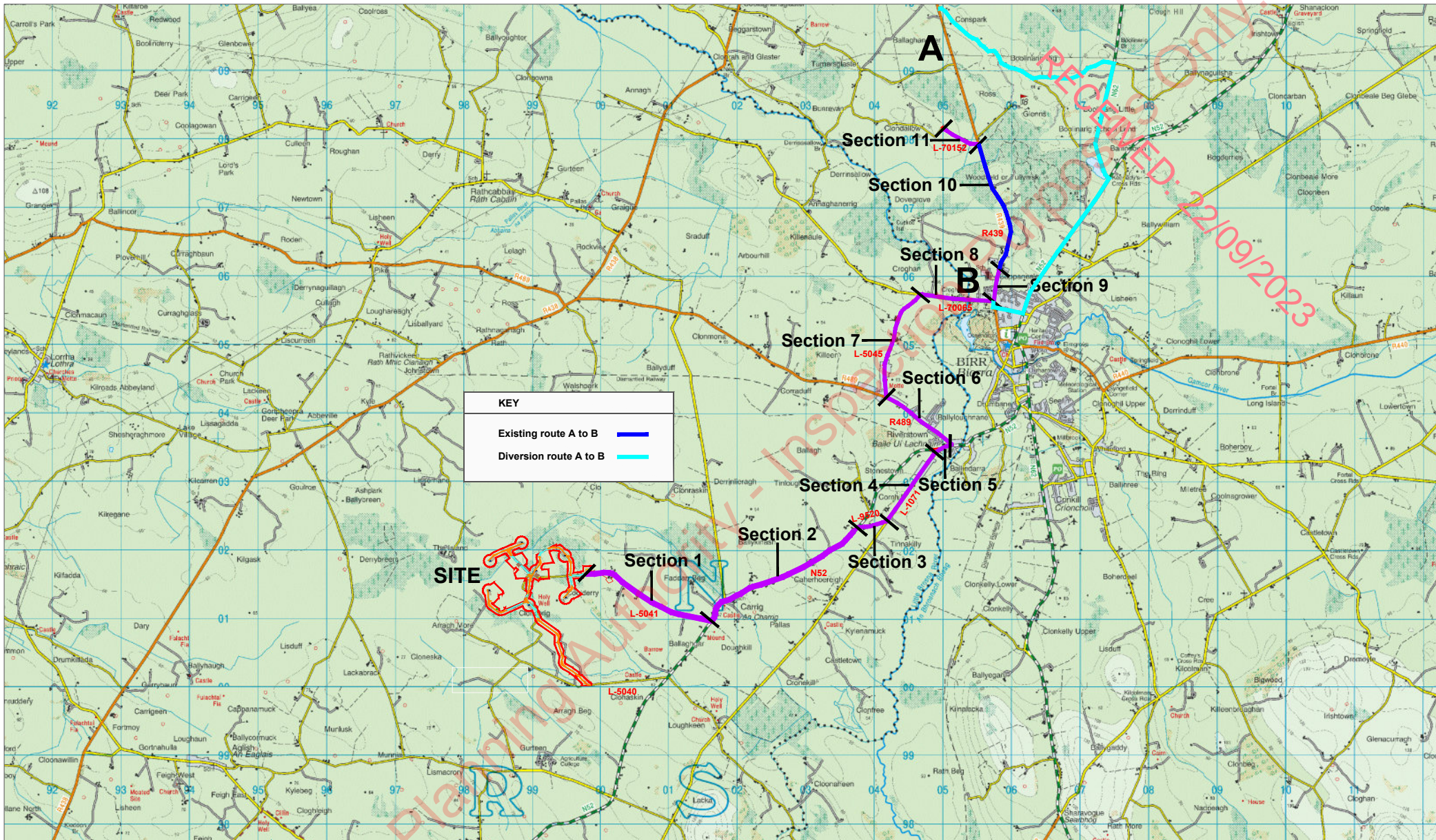
SCALE: NTS

PROJECT NO: 9920

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Figure 15-7i Diversion route during closure of cable grid connection Section 9

PROJECT: Carrig Renewables Wind Farm Development

CLIENT: AIP

SCALE: NTS

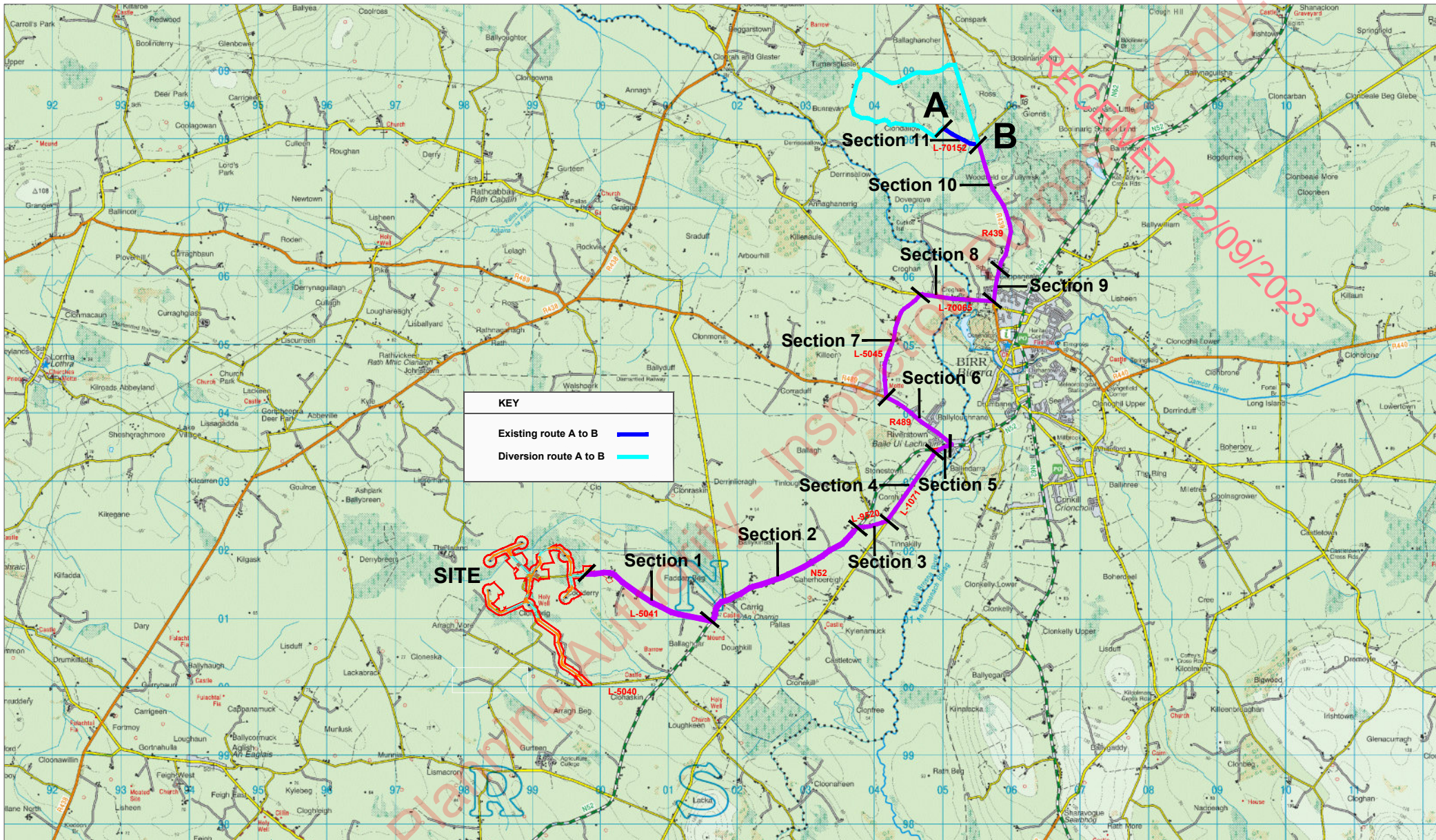
PROJECT NO: 9920

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Figure 15-7k Diversion route during closure of cable grid connection Section 11

PROJECT: Carrig Renewables Wind Farm Development

CLIENT: AIP

SCALE: NTS

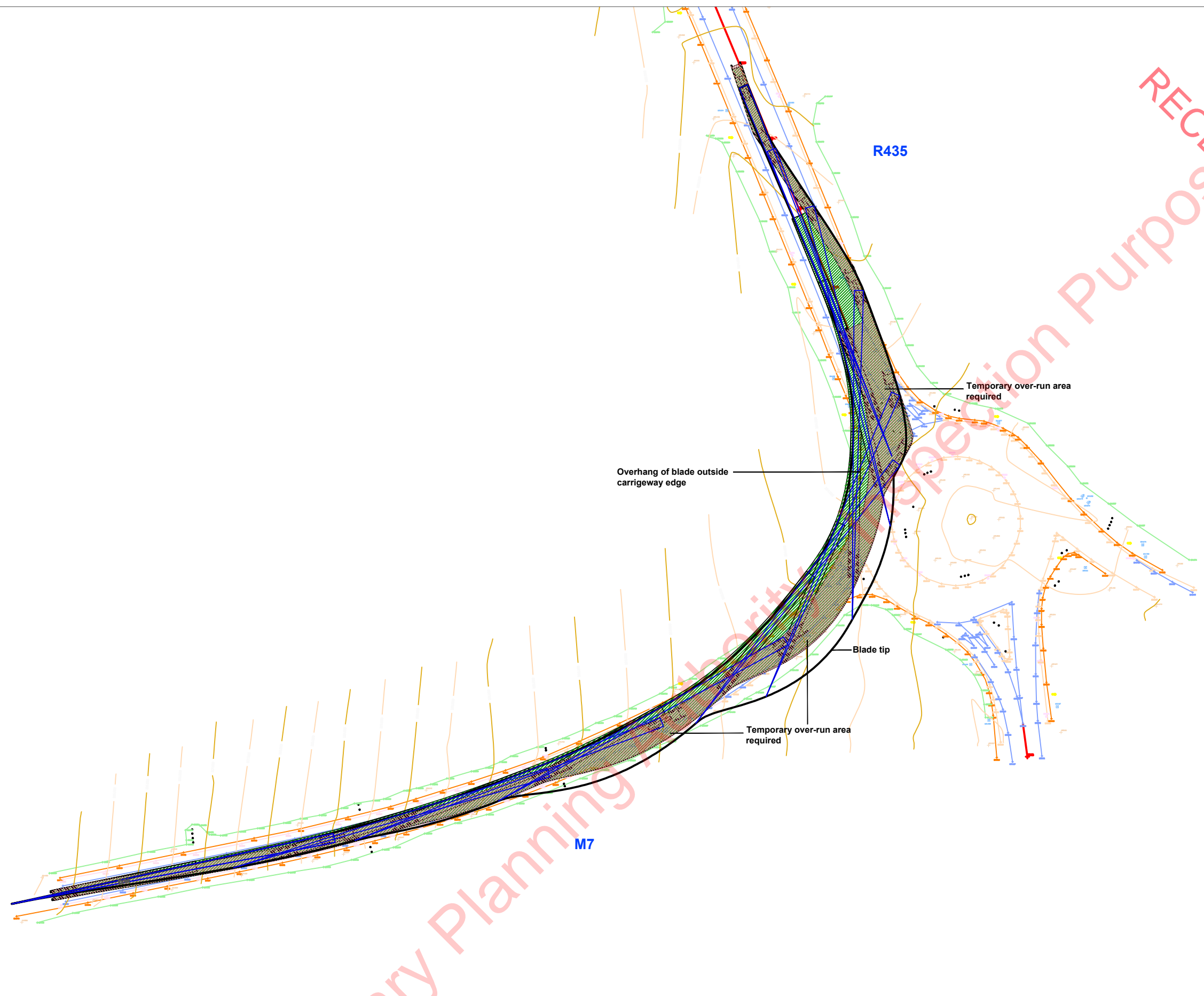
PROJECT NO: 9920

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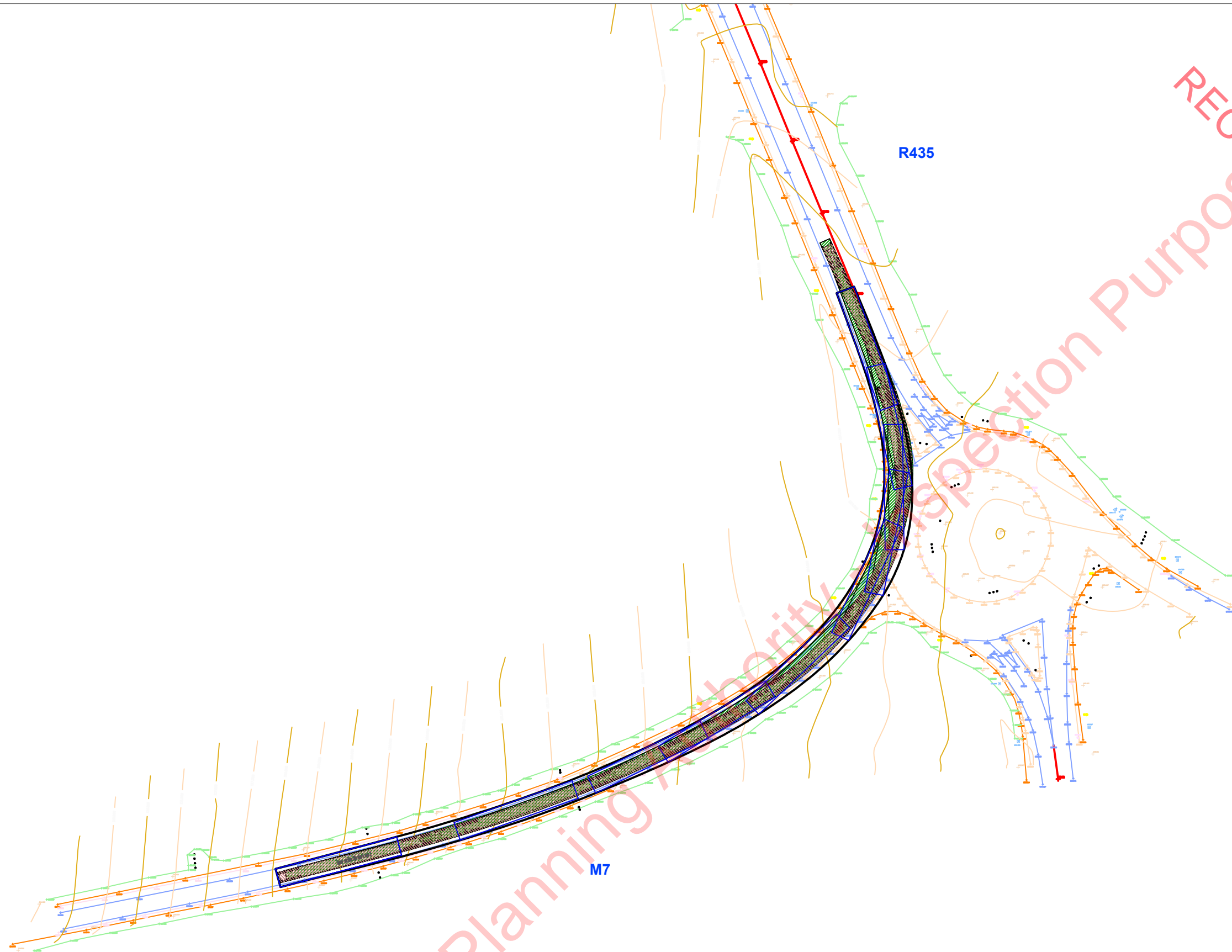
NOTES:  
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Figure 15-8 Location 1 - M7 Junction 21 left slip / R435 junction, blade extended artic (81.5m blade)

PROJECT: Carrig Renewables Wind Farm	
CLIENT: AIP	SCALE: 1:1000
PROJECT NO: 9920	DATE: 30.07.23
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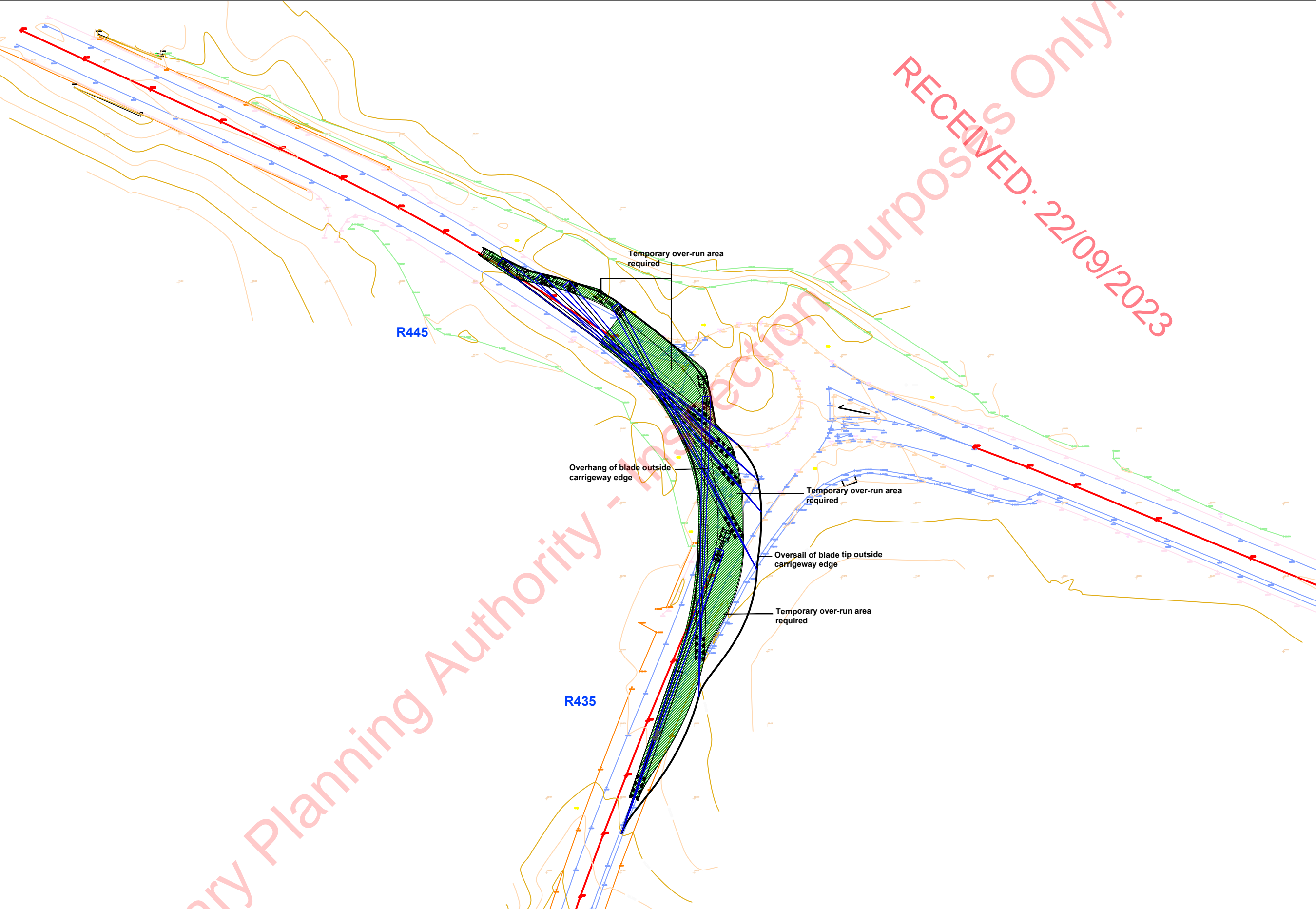
NOTES:  
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Figure 15-9 Location 1 - M7 Junction 21 left slip / R435 junction, tower extended artic

PROJECT: Carrig Renewables Wind Farm	
CLIENT: AIP	SCALE: 1:1000
PROJECT NO: 9920	DATE: 30.07.23
DRAWN BY: AL	

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687900.0000



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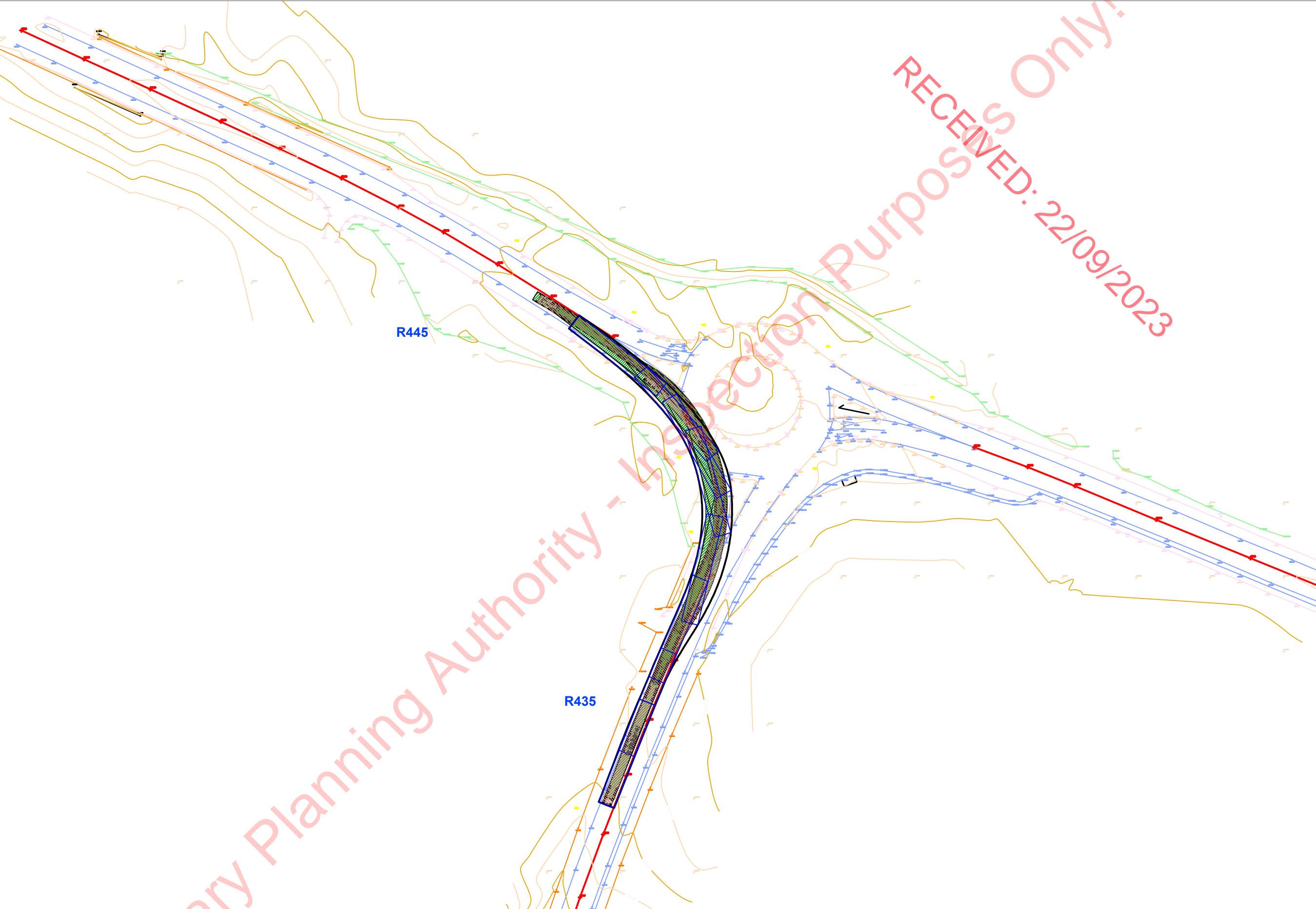
NOTES:  
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Figure 15-10 Location 2 - R435 / R445 roundabout, Borris-on-Ossory, blade extended artic (81.5m blade)

PROJECT: Carrig Renewables Wind Farm		SCALE: 1:1000
CLIENT: AIP	DATE: 30.07.23	DRAWN BY: AL
PROJECT NO: 9920		

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687900.0000



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Figure 15-11 Location 2 - R435 / R445 roundabout, Borris-on-Ossory, tower extended artic

PROJECT: Carrig Renewables Wind Farm

CLIENT: AIP

PROJECT NO: 9920

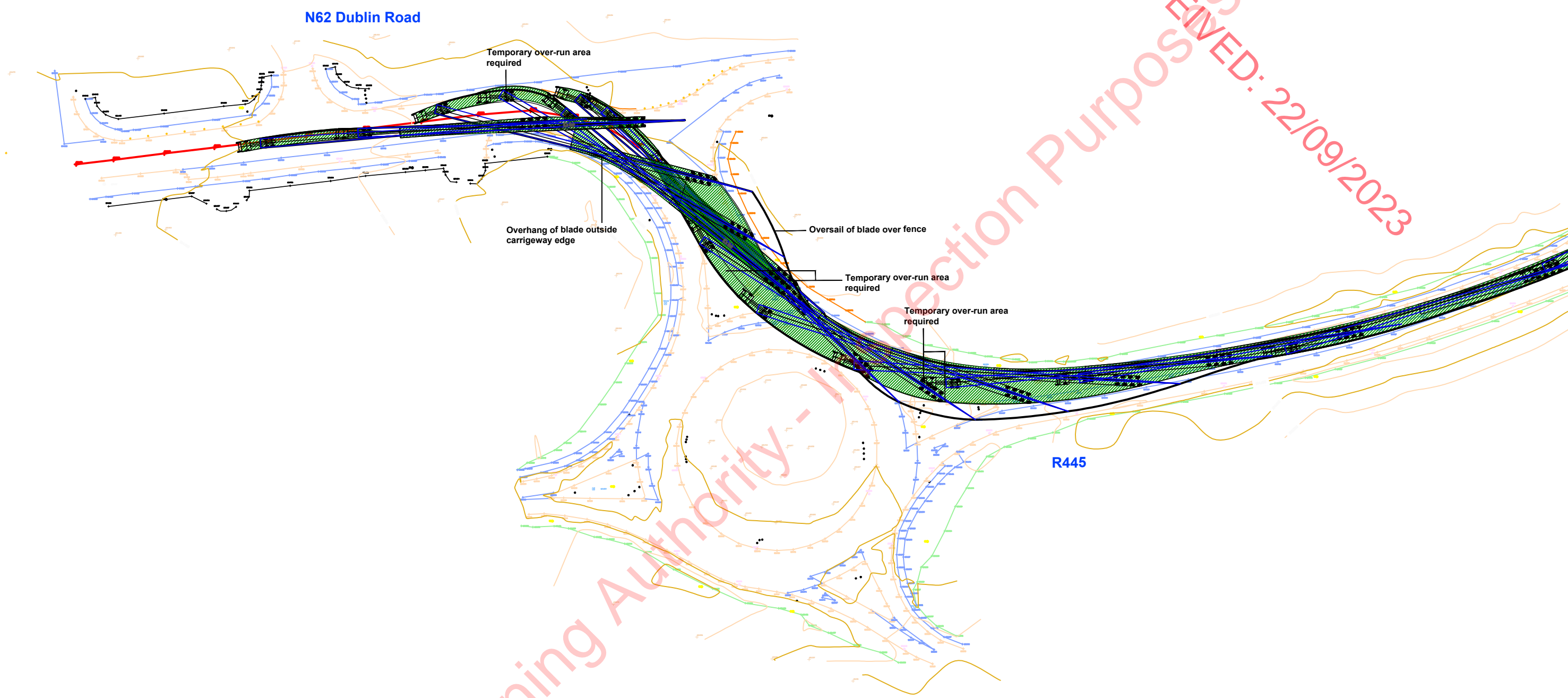
SCALE: 1:1000

DATE: 30.07.23

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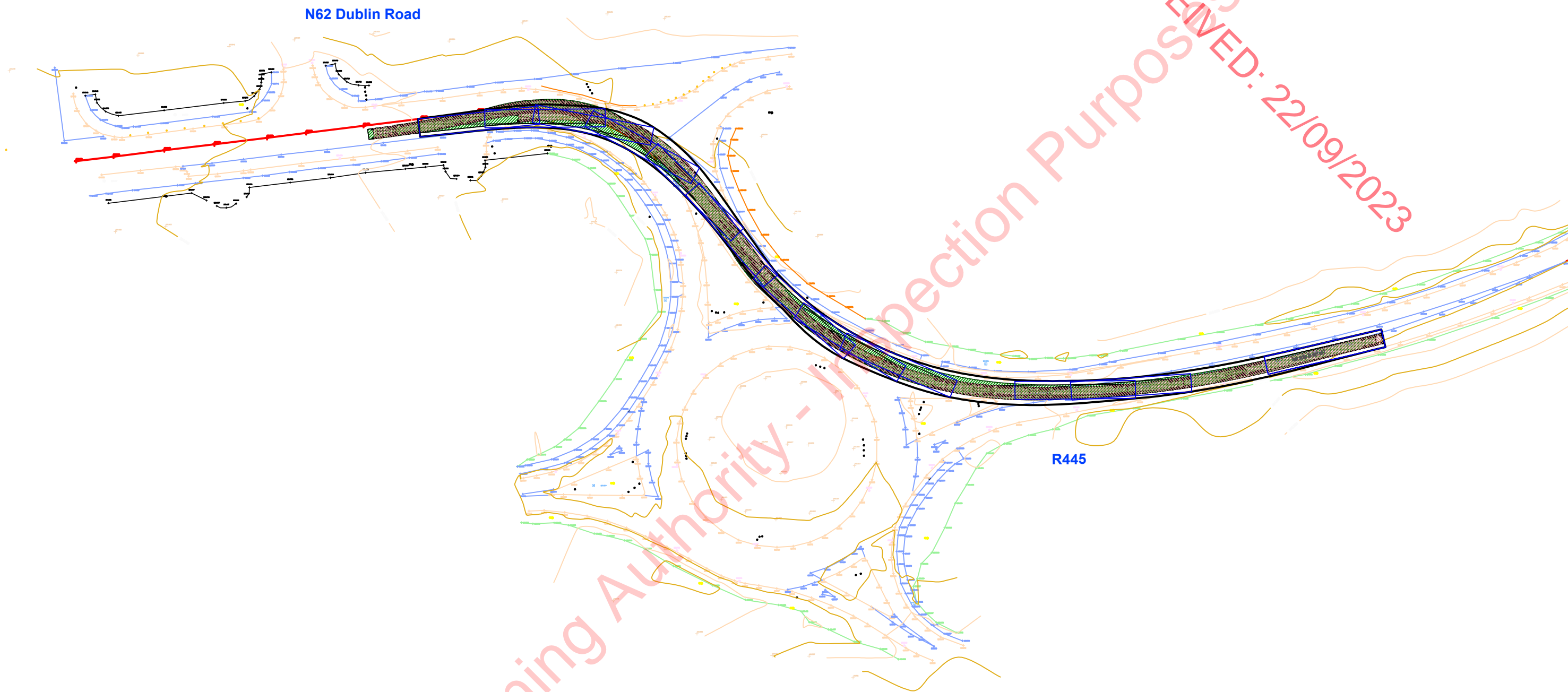
NOTES:  
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Figure 15-12 Location 3 - R445 / R445 roundabout and bend on Dublin Road, blade extended artic (81.5m blade)

PROJECT:	Carrig Renewables Wind Farm
CLIENT:	AIP
PROJECT NO: 9920	DATE: 30.07.23
SCALE:	1:1000
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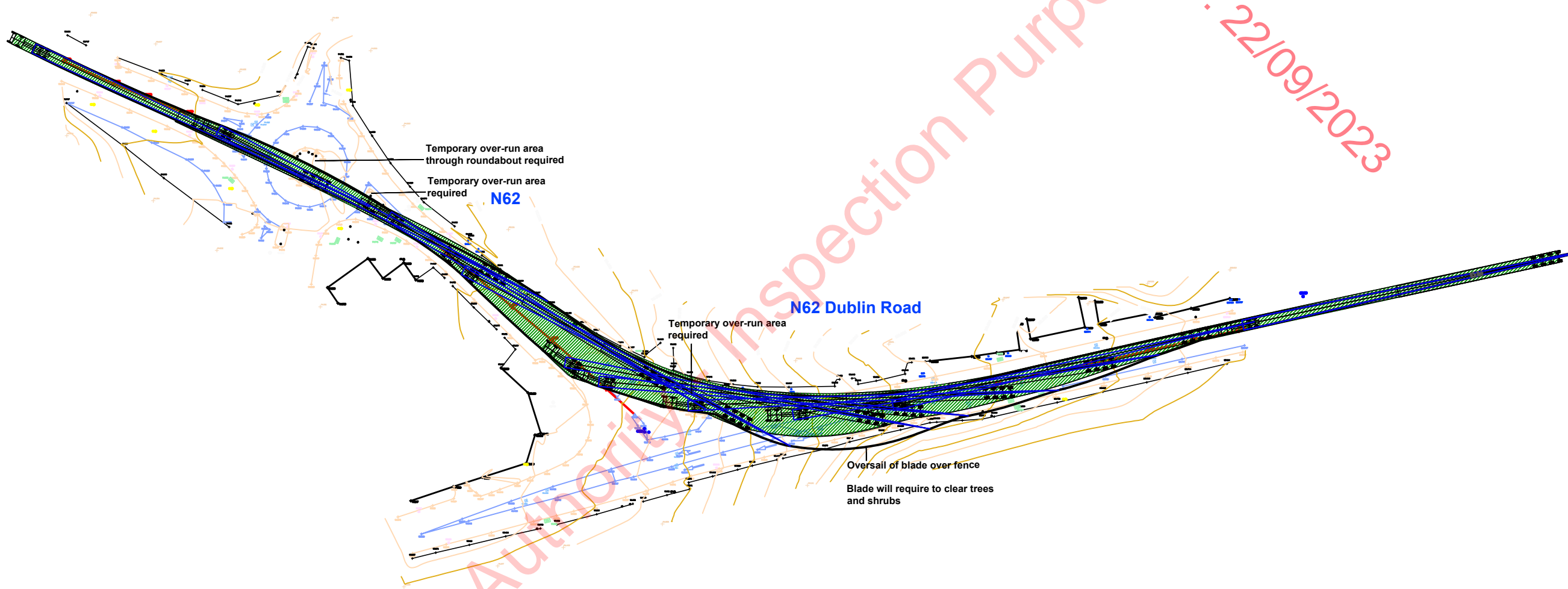
NOTES:  
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Figure 15-13 Location 3 - R445 / R445 roundabout and bend on Dublin Road, tower extended artic

PROJECT:	Carrig Renewables Wind Farm
CLIENT:	AIP
PROJECT NO: 9920	DATE: 30.07.23
SCALE:	1:1000
DRAWN BY:	AL

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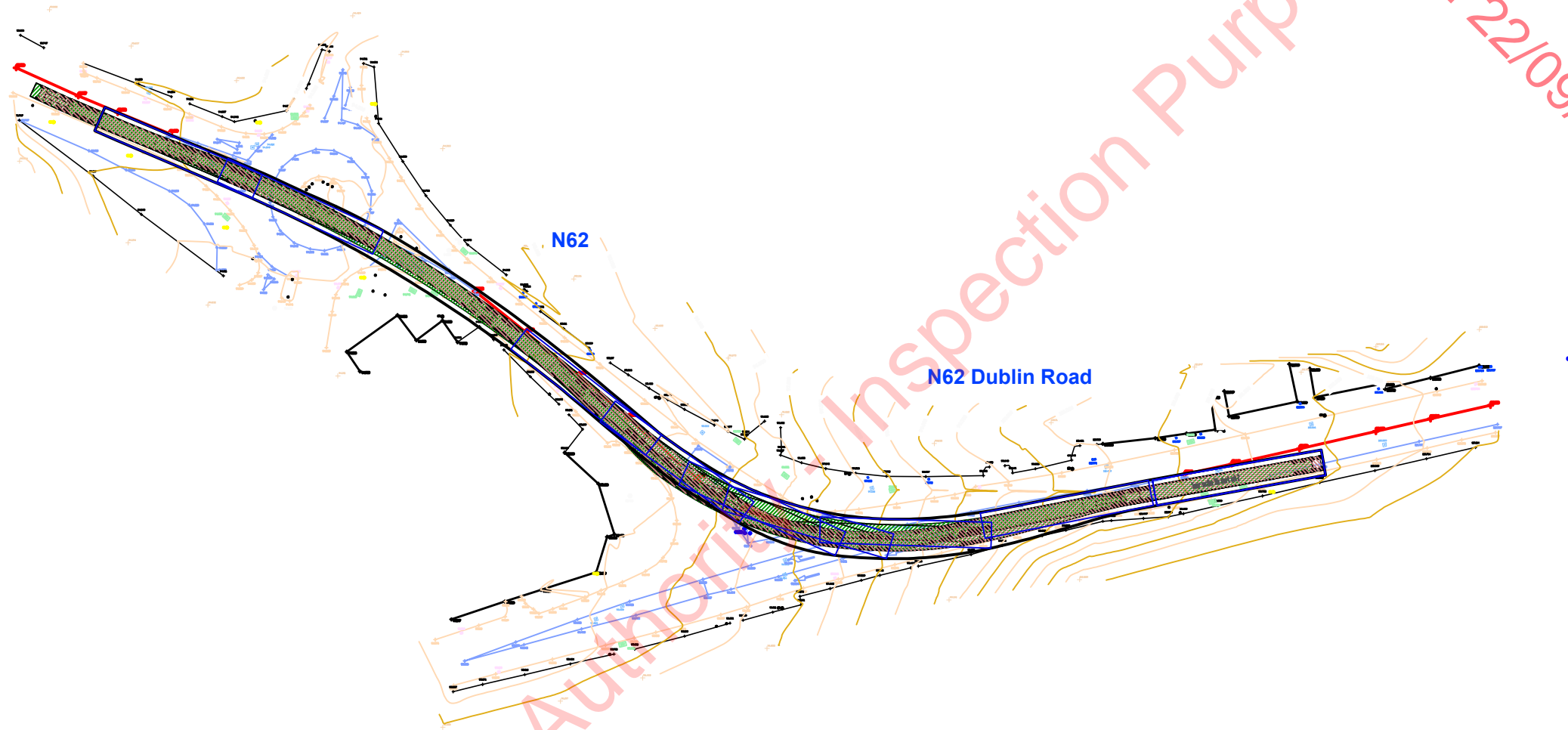
NOTES:  
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Figure 15-14 Location 4 - Dublin Road / N62 junction and mini-roundabout, Roscrea, blade extended artic (81.5m blade)

PROJECT: Carrig Renewables Wind Farm		
CLIENT: AIP	SCALE: 1:1000	
PROJECT NO: 9920	DATE: 30.07.23	DRAWN BY: AL

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Figure 15-15 Location 4 - Dublin Road / N62 junction and mini-roundabout, Roscrea, tower extended artic

PROJECT:	Carrig Renewables Wind Farm
CLIENT:	AIP
PROJECT NO: 9920	DATE: 30.07.23

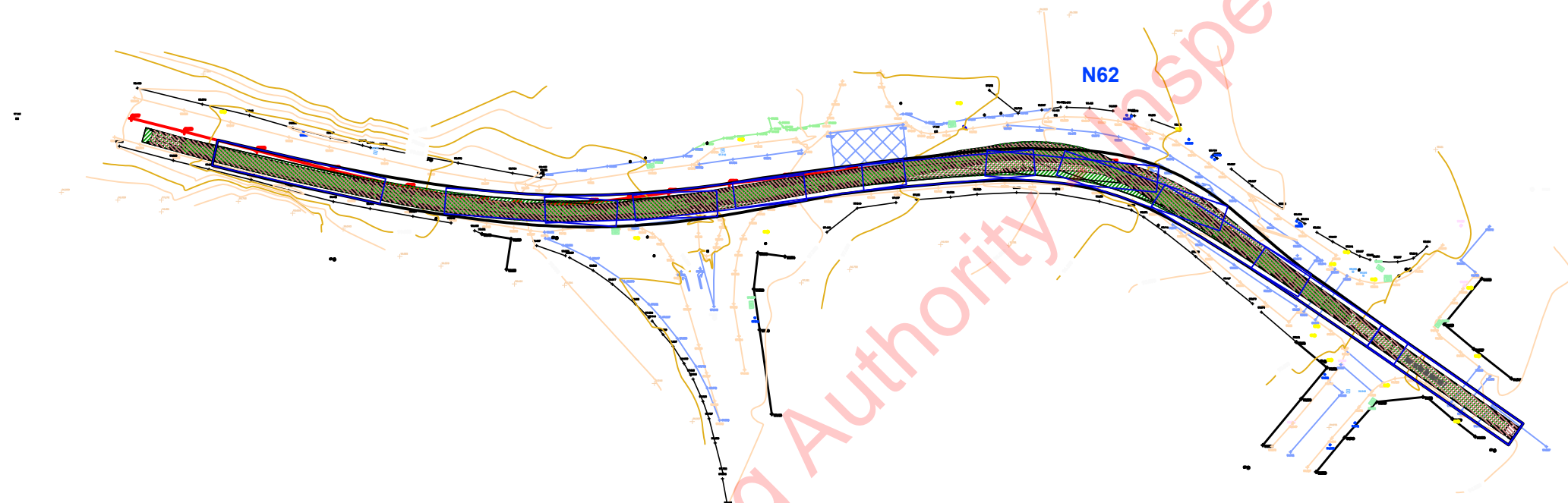
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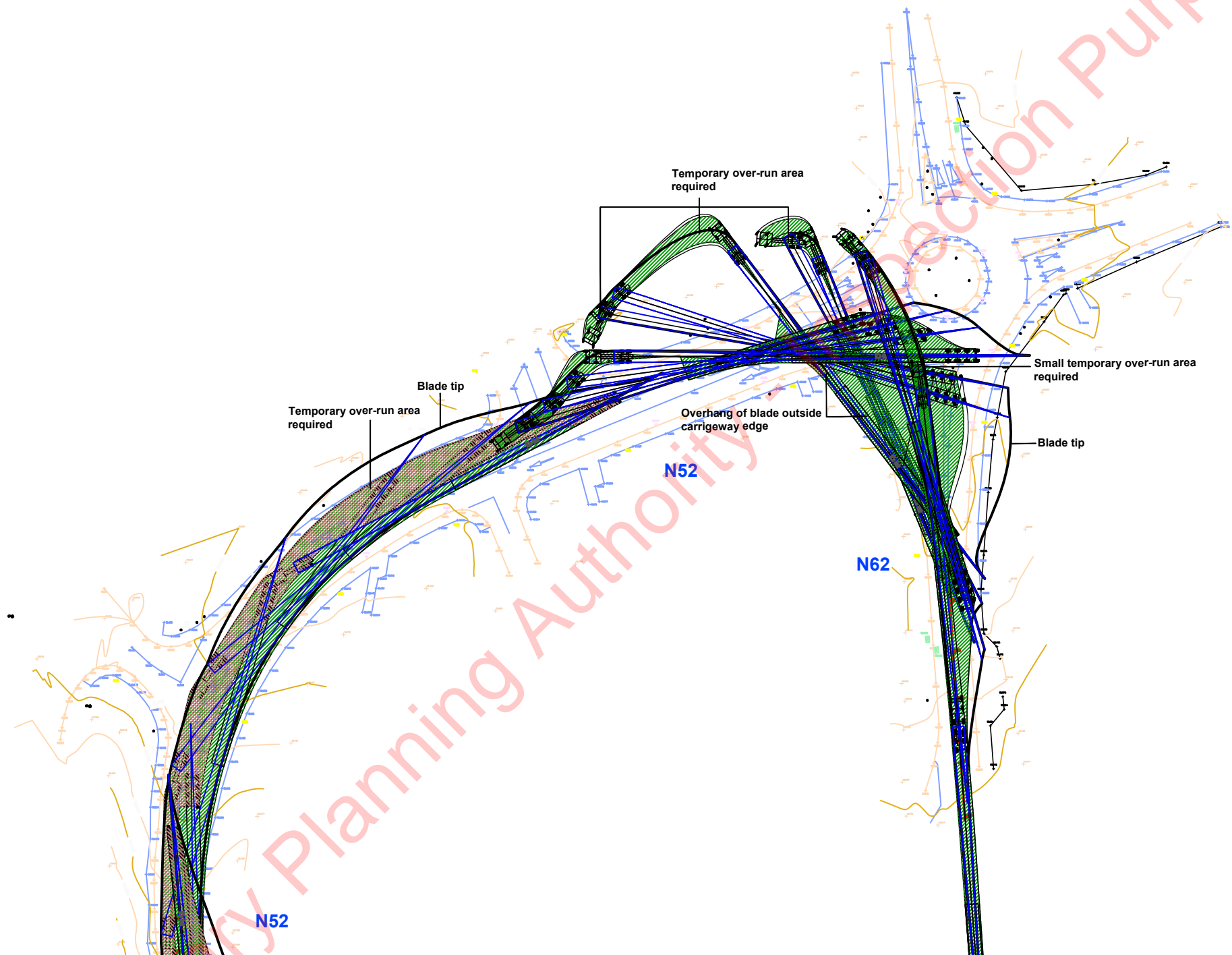
NOTES:  
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Figure 15-17 Location 5 - Bend on N62, Roscrea, tower extended artic

PROJECT: Carrig Renewables Wind Farm		
CLIENT: AIP	SCALE: 1:1000	
PROJECT NO: 9920	DATE: 30.07.23	DRAWN BY: AL

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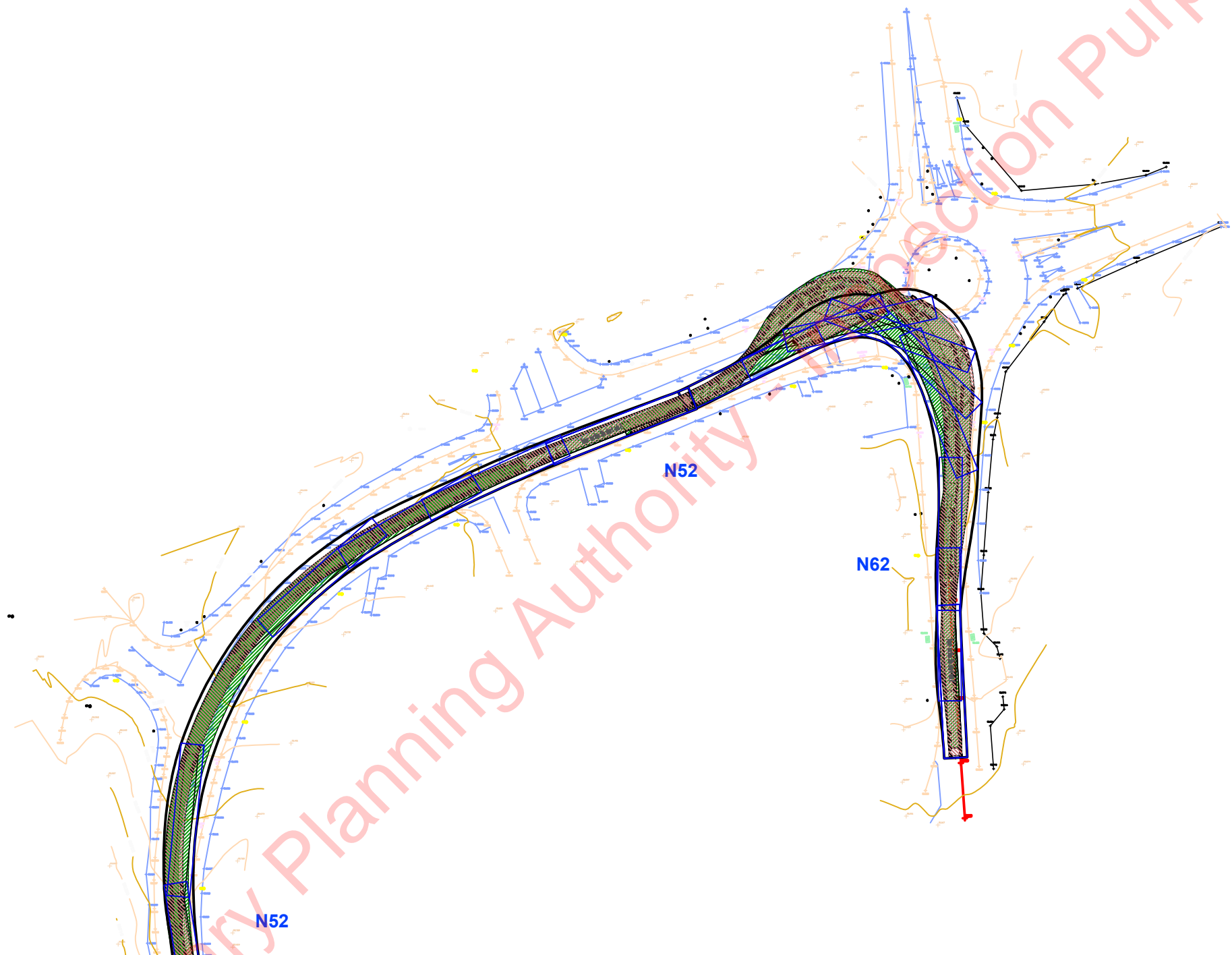
NOTES:  
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Figure 15-18 Location 6 - Bend on N62 / N52 Roundabout, Birr, blade extended artic (81.5m blade)

PROJECT: Carrig Renewables Wind Farm	
CLIENT: AIP	SCALE: 1:1000
PROJECT NO: 9920	DATE: 30.07.23
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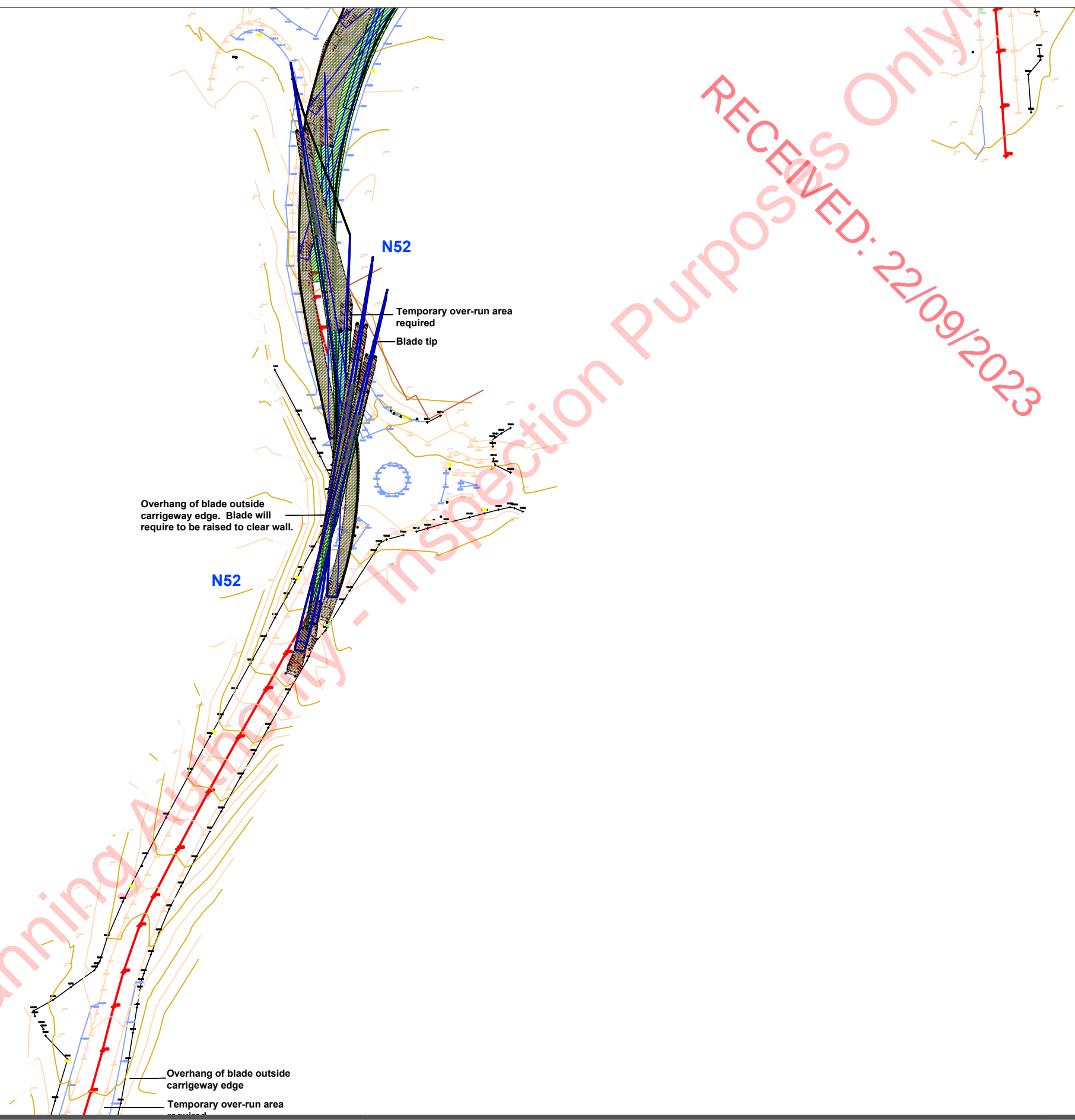
NOTES:  
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Figure 15-19 Location 6 - Bend on N62 / N52 Roundabout, Birr, tower extended artic

PROJECT: Carrig Renewables Wind Farm	
CLIENT: AIP	SCALE: 1:1000
PROJECT NO: 9920	DATE: 30.07.23
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Figure 15-20 Location 7 - Bend on N52 / N52 Roundabout, Birr, blade extended artic (81.5m blade)

PROJECT: Carrig Renewables Wind Farm	
CLIENT: AIP	SCALE: 1:1000
PROJECT NO: 9920	DATE: 30.07.23
	DRAWN BY: AL

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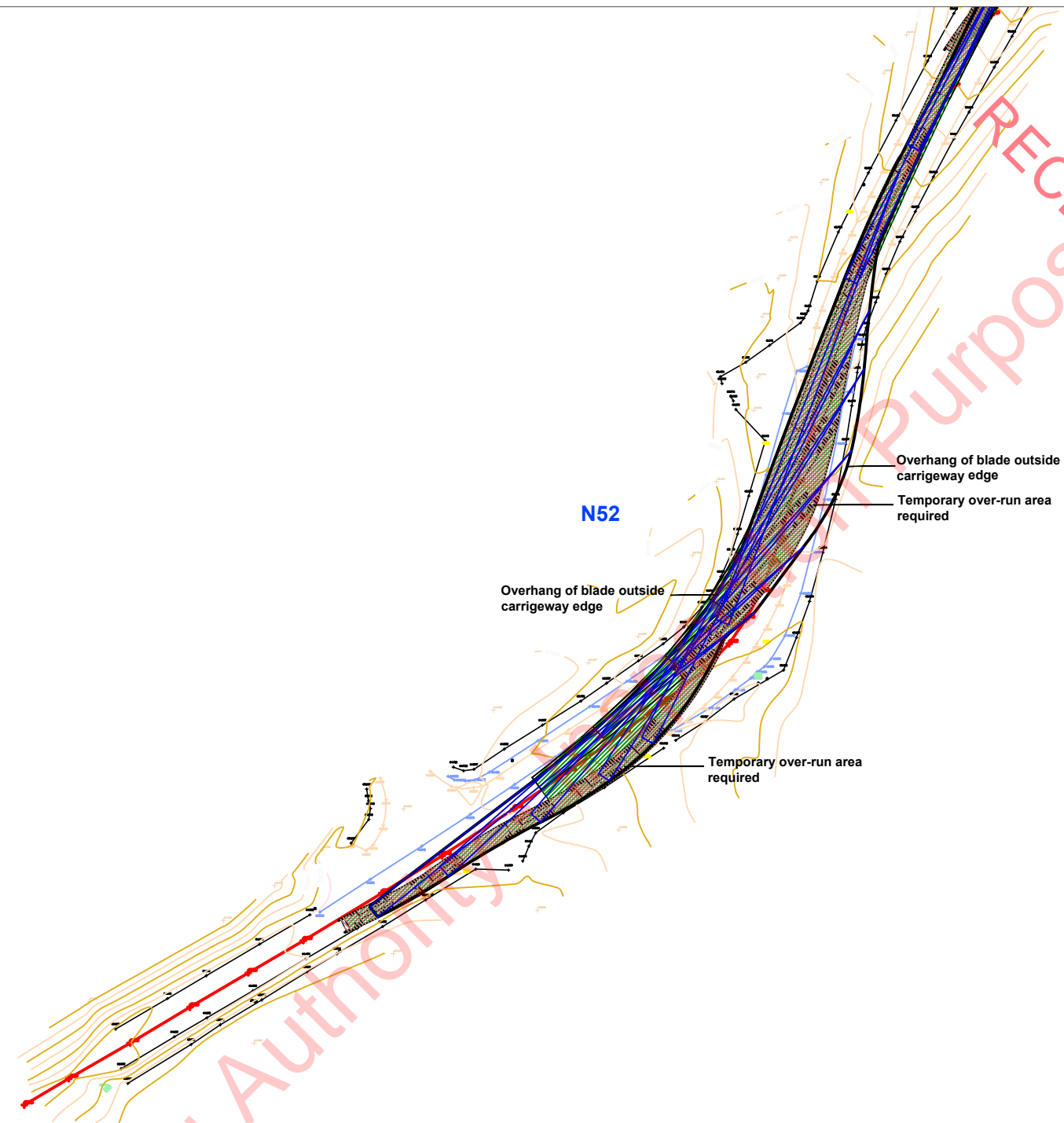
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NOTES:  
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Figure 15-21 Location 7 - Bend on N52 / N52 Roundabout, Birr, tower extended artic

PROJECT: Carrig Renewables Wind Farm		SCALE: 1:1000
CLIENT: AIP	DATE: 30.07.23	DRAWN BY: AL
PROJECT NO: 9920		

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Figure 15-22 Location 8 - Bend on N52, Birr, blade extended artic (81.5m blade)

PROJECT: Carrig Renewables Wind Farm		
CLIENT: AIP	SCALE: 1:1000	
PROJECT NO: 9920	DATE: 30.07.23	DRAWN BY: AL

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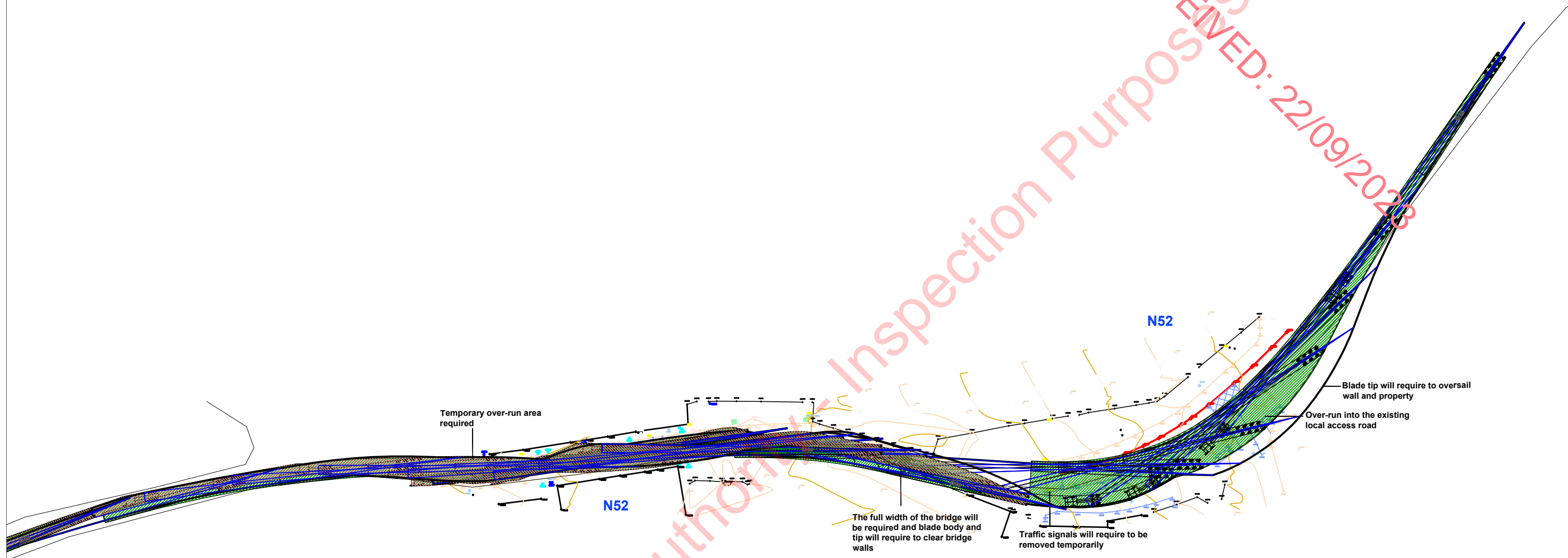
NOTES:  
 PLANNING DRAWING ONLY - NOT FOR CONSTRUCTION PURPOSES

Figure 15-23 Location 8 - Bend on N52, Birr, tower extended artic

PROJECT: Carrig Renewables Wind Farm	
CLIENT: AIP	SCALE: 1:1000
PROJECT NO: 9920	DATE: 30.07.23
	DRAWN BY: AL

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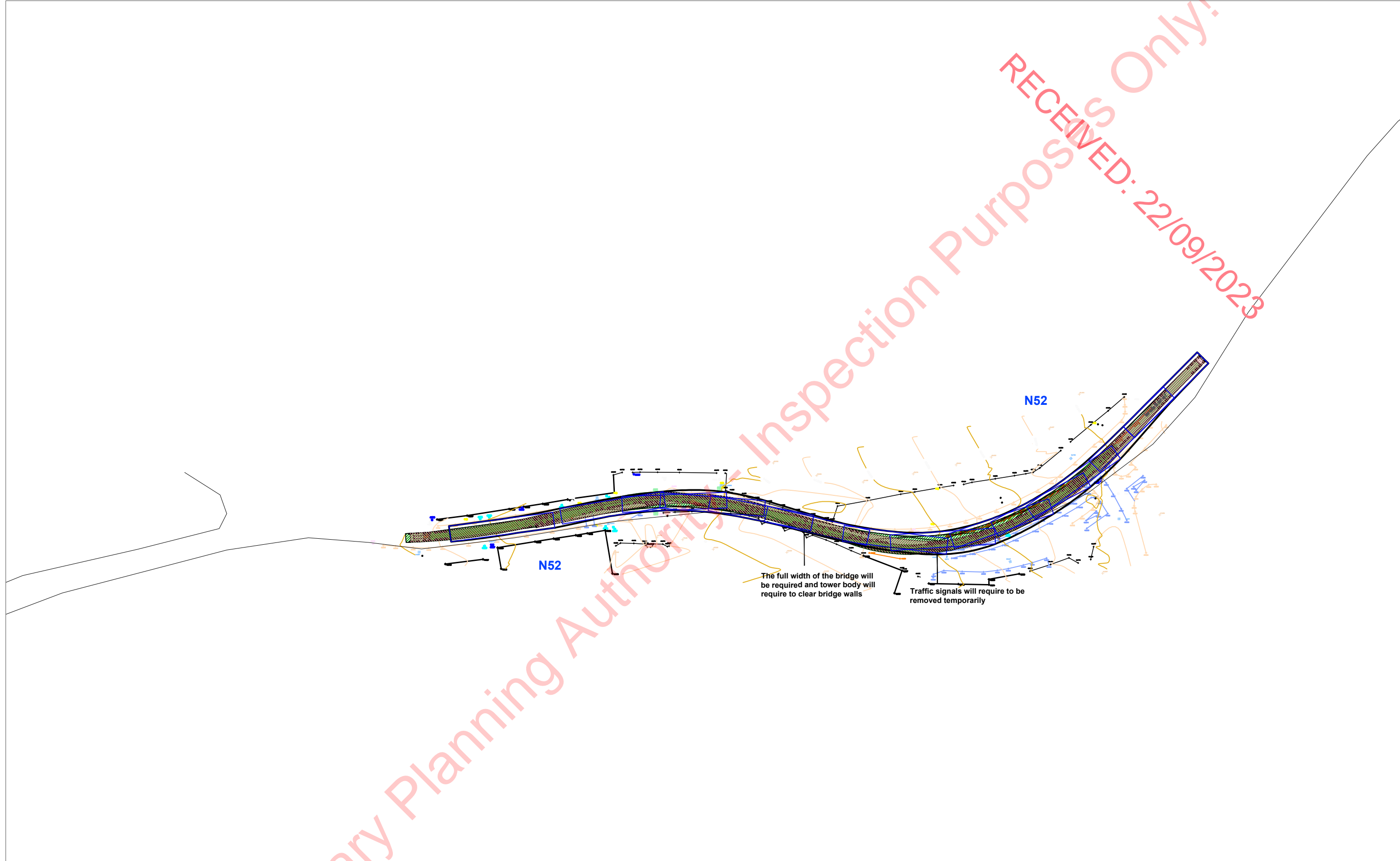
Figure 15-24 Location 9 - Bend on N52 and bridge, Riverstown, blade extended artic (81.5m blade)

PROJECT: Carrig Renewables Wind Farm		
CLIENT: AIP	SCALE: 1:1000	
PROJECT NO: 9920	DATE: 30.07.23	DRAWN BY: AL

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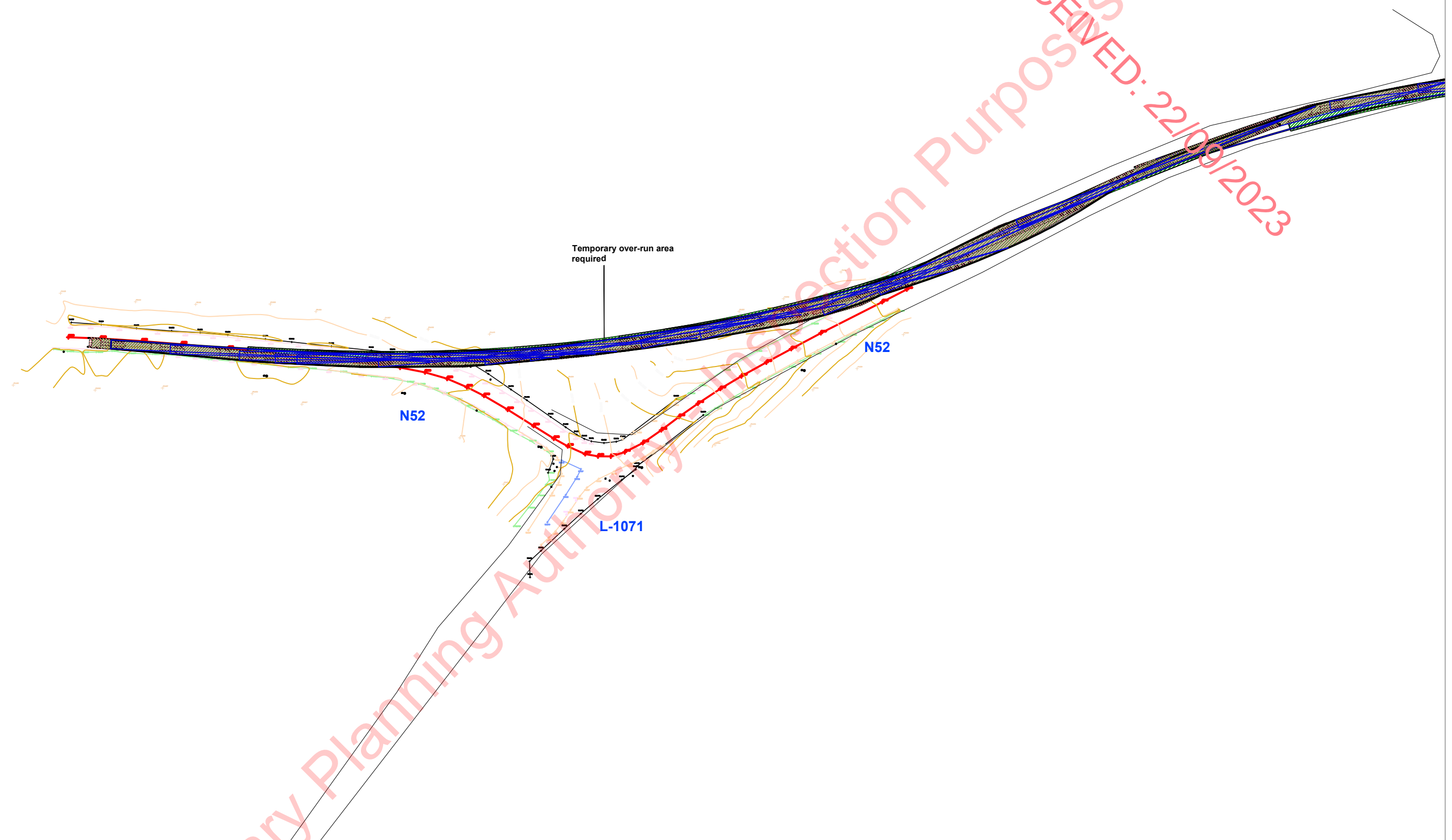
NOTES:  
PLANNING DRAWING ONLY - NOT FOR CONSTRUCTION PURPOSES

Figure 15-25 Location 9 - Bend on N52 and bridge, Riverstown, tower extended artic

PROJECT: Carrig Renewables Wind Farm		
CLIENT: AIP	SCALE: 1:1000	
PROJECT NO: 9920	DATE: 30.07.23	DRAWN BY: AL

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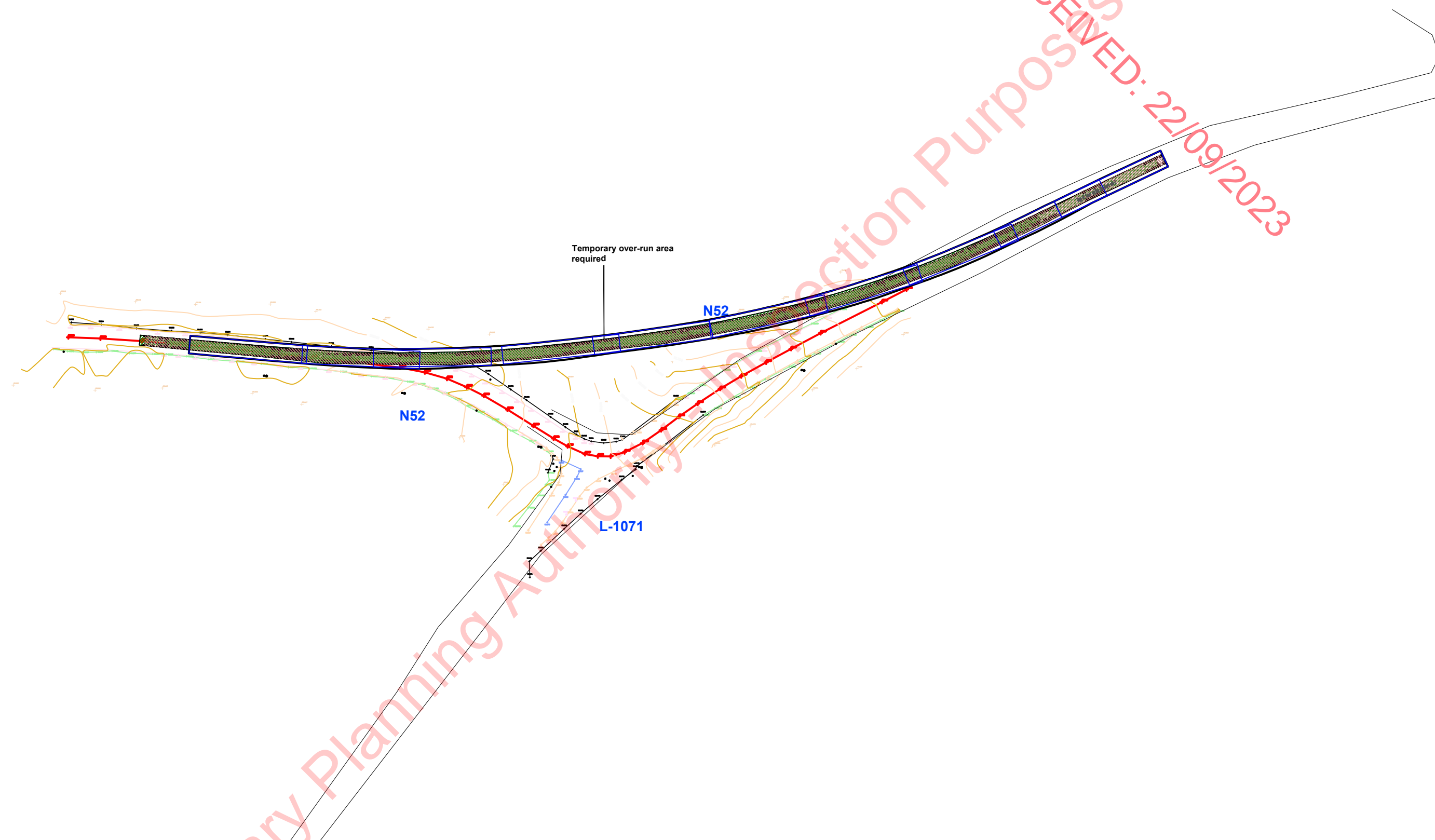
NOTES:  
PLANNING DRAWING ONLY - NOT FOR CONSTRUCTION PURPOSES

Figure 15-26 Location 10 - N52 / L-1071 junction, blade extended artic (81.5m blade)

PROJECT:	Carrig Renewables Wind Farm		
CLIENT:	AIP	SCALE:	1:1000
PROJECT NO:	9920	DATE:	30.07.23
		DRAWN BY:	AL

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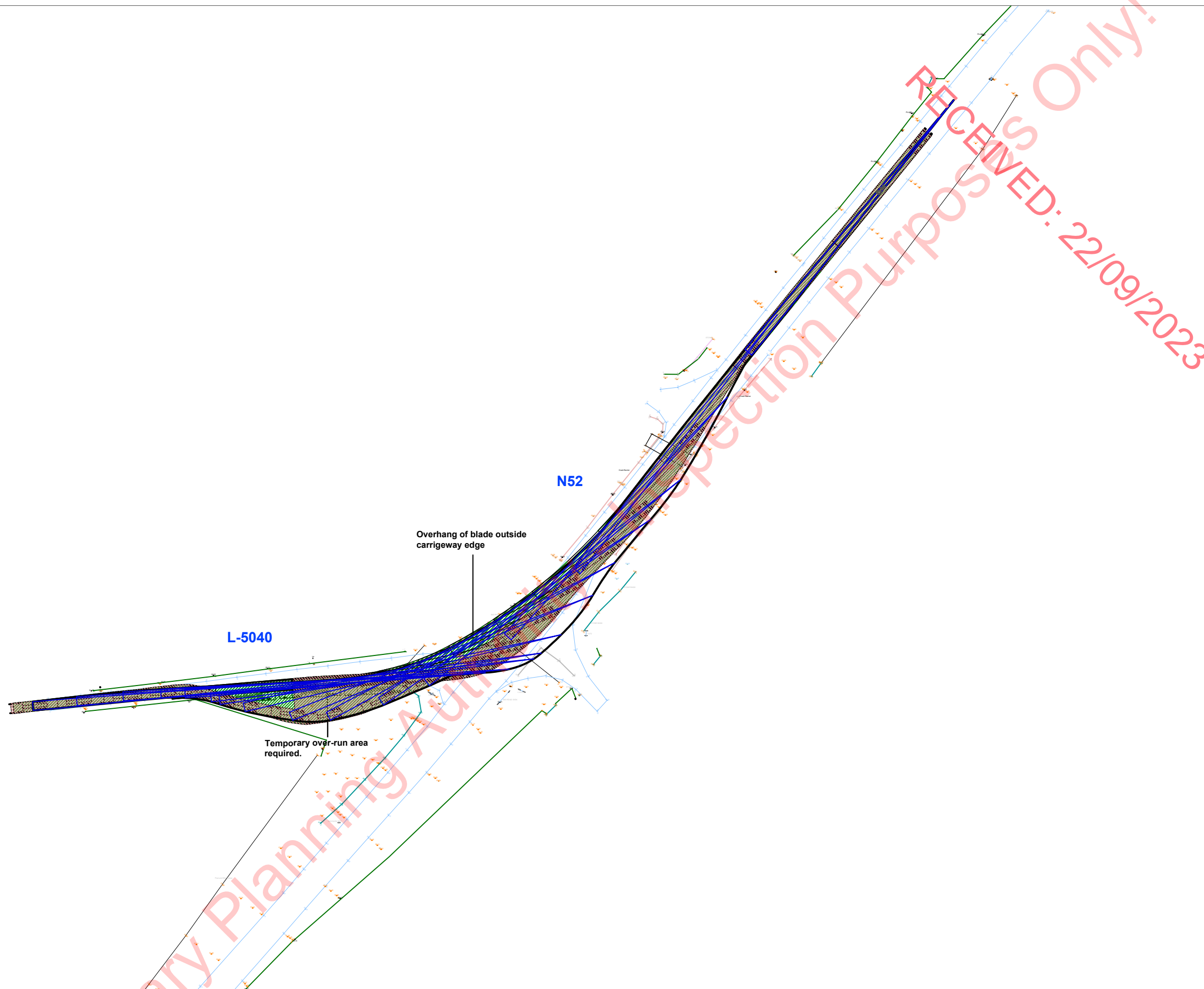


NOTES:  
PLANNING DRAWING ONLY - NOT FOR CONSTRUCTION PURPOSES

Figure 15-27 Location 10 - N52 / L-1071 junction, tower extended artic

PROJECT: Carrig Renewables Wind Farm		
CLIENT: AIP	SCALE: 1:1000	
PROJECT NO: 9920	DATE: 30.07.23	DRAWN BY: AL

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Figure 15-28 Location 11 - N52 / L-5040, blade extended artic (81.5m blade)

PROJECT: Carrig Renewables Wind Farm		SCALE: 1:1000
CLIENT: AIP	DATE: 30.07.23	DRAWN BY: AL
PROJECT NO: 9920		

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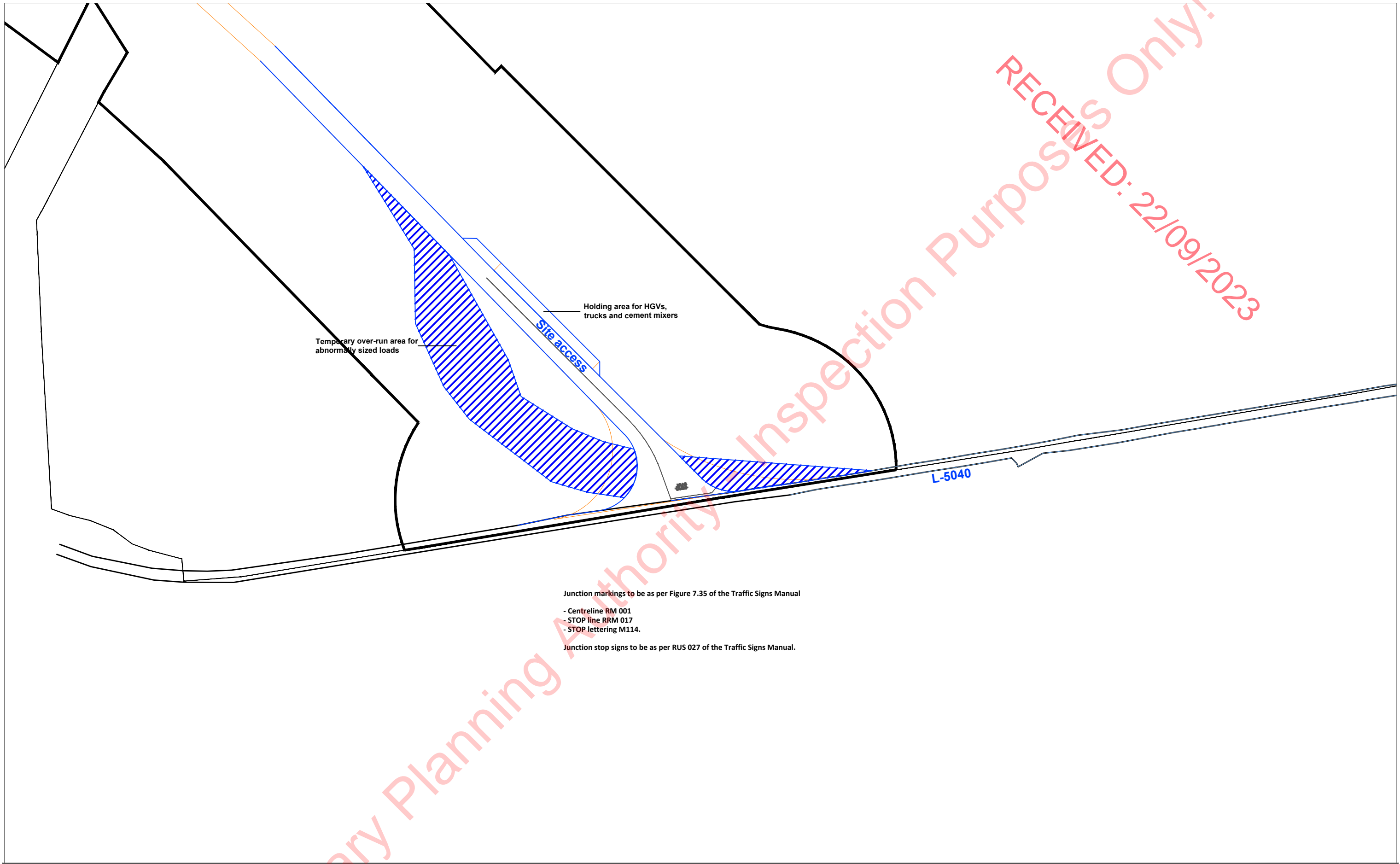
RECEIVED: 22/09/2023

NOTES:  
 PLANNING DRAWING ONLY - NOT FOR CONSTRUCTION PURPOSES

Figure 15-29 Location 11 - N52 / L-5040, tower extended artic

PROJECT: Carrig Renewables Wind Farm		SCALE: 1:1000
CLIENT: AIP	DATE: 30.07.23	DRAWN BY: AL
PROJECT NO: 9920		

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Temporary over-run area for abnormally sized loads

Holding area for HGVs, trucks and cement mixers

Site access

L-5040

Junction markings to be as per Figure 7.35 of the Traffic Signs Manual

- Centreline RM 001
- STOP line RRM 017
- STOP lettering M114.

Junction stop signs to be as per RUS 027 of the Traffic Signs Manual.

NOTES:

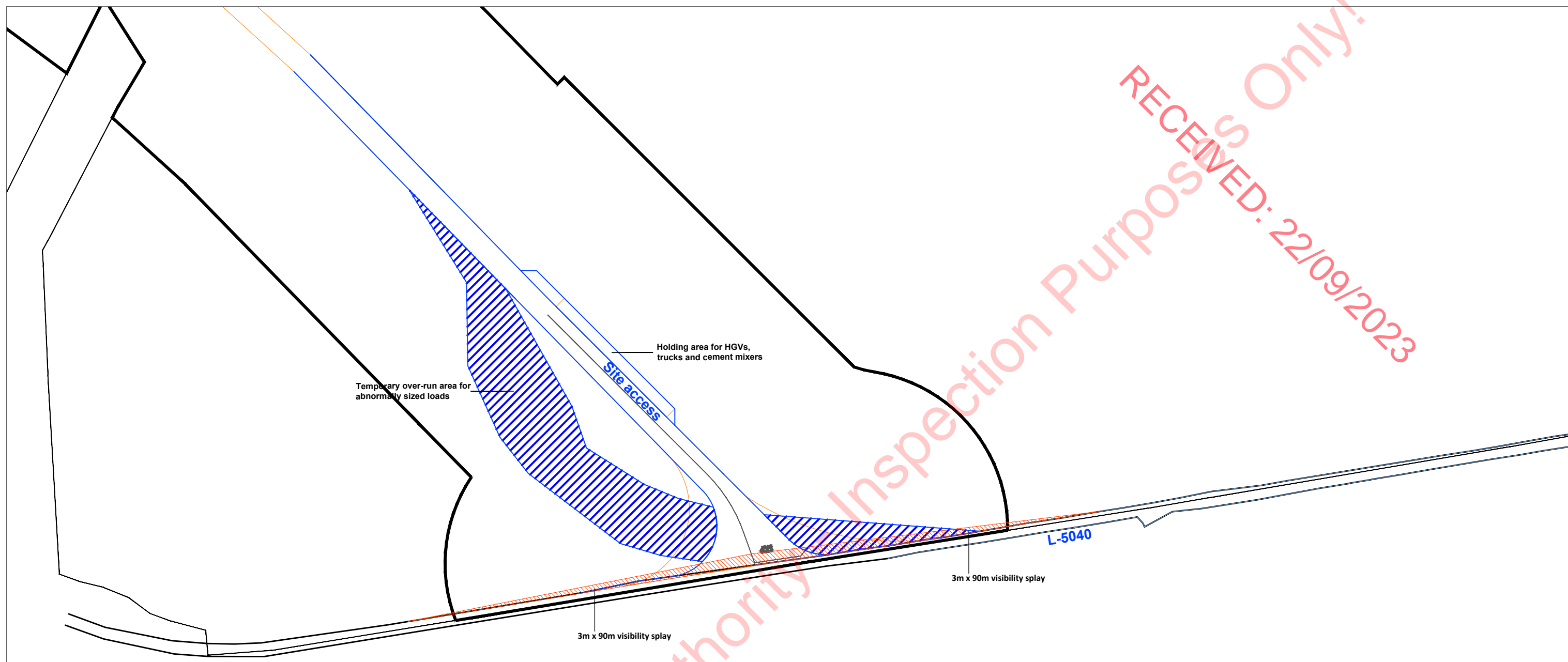
PLANNING DRAWING ONLY - NOT FOR CONSTRUCTION PURPOSES

Figure 15-30 Location 12 - Access junction on L-5040, junction layout

PROJECT: Carrig Renewables Wind Farm	
CLIENT: AIP	SCALE: 1:1000
PROJECT NO: 9920	DATE: 23.08.23
	DRAWN BY: AL

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Temporary over-run area for abnormally sized loads

Holding area for HGVs, trucks and cement mixers

Site access

L-5040

3m x 90m visibility splay

3m x 90m visibility splay

Junction markings to be as per Figure 7.35 of the Traffic Signs Manual

- Centreline RM 001
- STOP line RRM 017
- STOP lettering M114.

Junction stop signs to be as per RUS 027 of the Traffic Signs Manual.

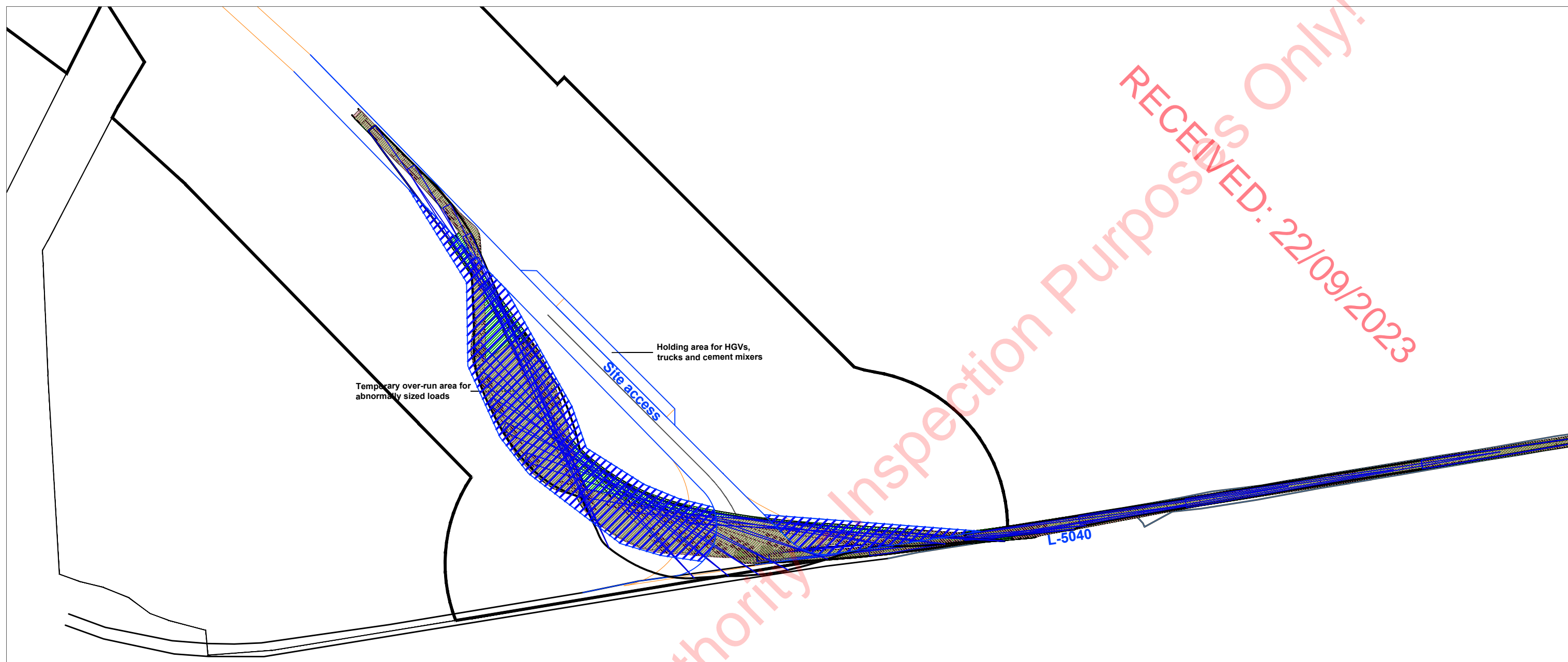
NOTES:  
PLANNING DRAWING ONLY - NOT FOR CONSTRUCTION PURPOSES

Figure 15-31 Location 12 - Access junction on L-5040, junction layout with visibility splay

PROJECT:	Carrig Renewables Wind Farm
CLIENT:	AIP
PROJECT NO:	9920
DATE:	23.08.23
SCALE:	1:1000
DRAWN BY:	AL

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Temporary over-run area for abnormally sized loads

Holding area for HGVs, trucks and cement mixers

Site access

L-5040

Junction markings to be as per Figure 7.35 of the Traffic Signs Manual

- Centreline RM 001
- STOP line RRM 017
- STOP lettering M114.

Junction stop signs to be as per RUS 027 of the Traffic Signs Manual.

NOTES:  
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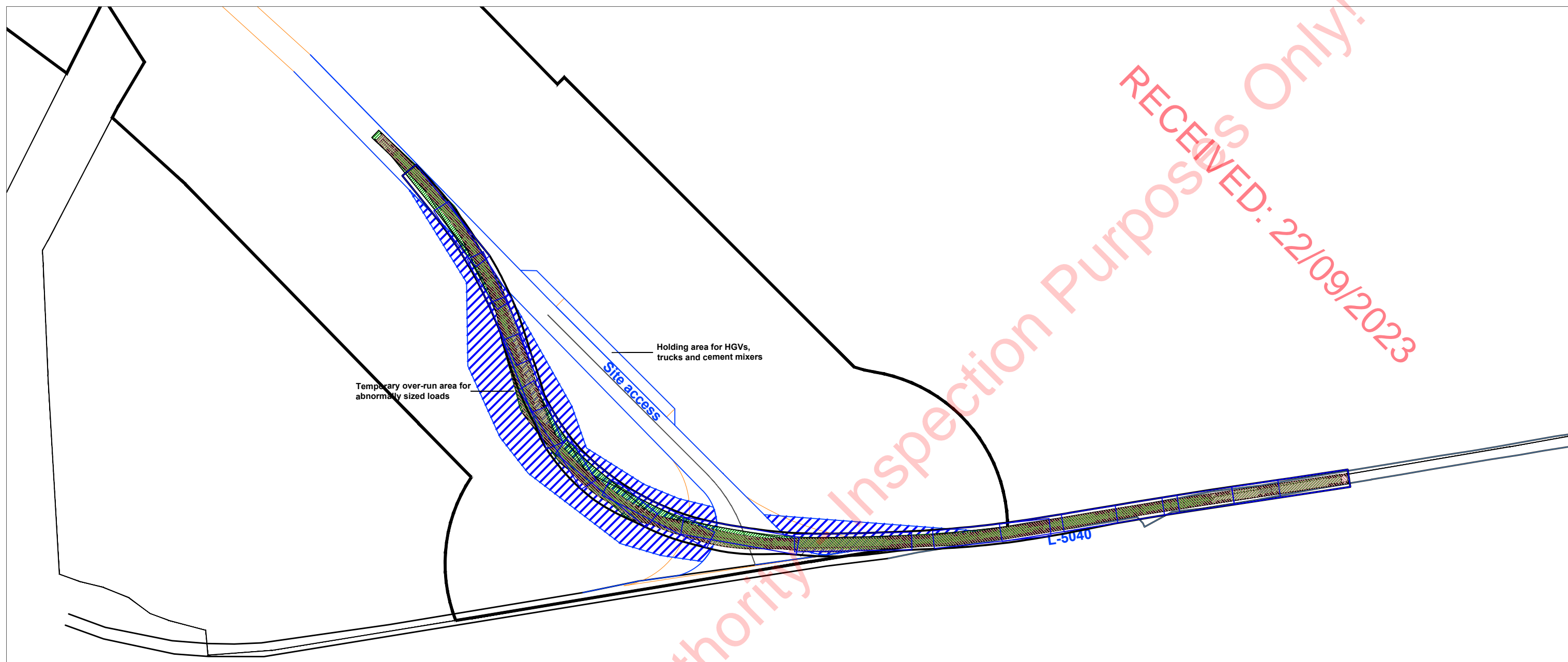
Figure 15-32 Location 12 - Access junction on L-5040, blade extended artic

PROJECT: Carrig Renewables Wind Farm		
CLIENT: AIP	SCALE: 1:1000	
PROJECT NO: 9920	DATE: 23.08.23	DRAWN BY: AL

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Temporary over-run area for abnormally sized loads

Holding area for HGVs, trucks and cement mixers

Site access

L-5040

Junction markings to be as per Figure 7.35 of the Traffic Signs Manual

- Centreline RM 001
- STOP line RRM 017
- STOP lettering M114.

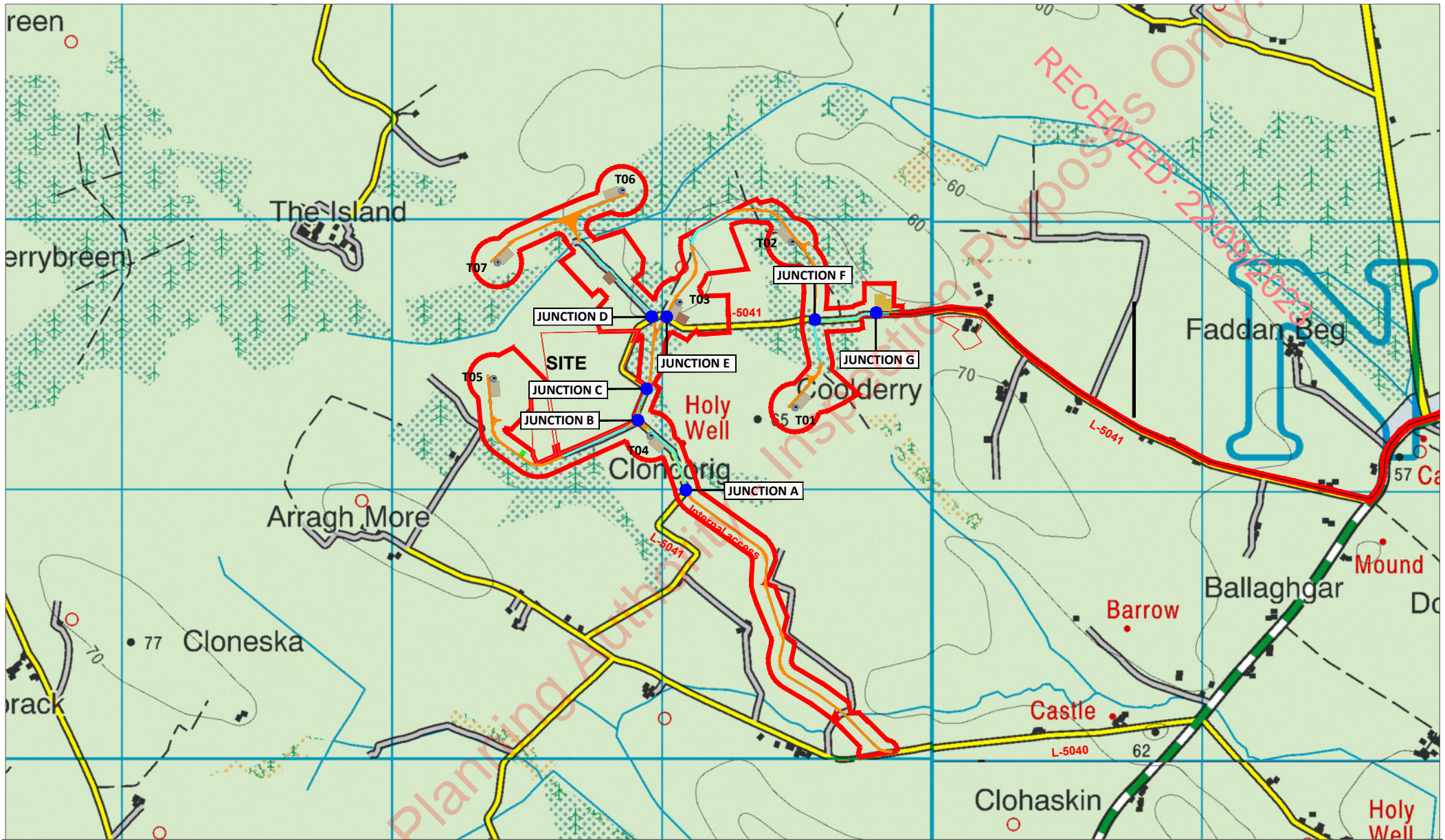
Junction stop signs to be as per RUS 027 of the Traffic Signs Manual.

NOTES:  
PLANNING DRAWING ONLY - NOT FOR CONSTRUCTION PURPOSES

Figure 15-33 Location 12 - Access junction on L-5040, tower extended artic

PROJECT: Carrig Renewables Wind Farm		
CLIENT: AIP	SCALE: 1:1000	
PROJECT NO: 9920	DATE: 30.07.23	DRAWN BY: AL

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NOTES:  
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 Base mapping provided by MKO

Figure 15-34 Location of internal access junctions

PROJECT: Carrig Renewables Wind Farm Development		SCALE: NTS
CLIENT: AIP	DATE: 20.09.23	
PROJECT NO: 9920	DATE: 20.09.23	DRAWN BY: AL

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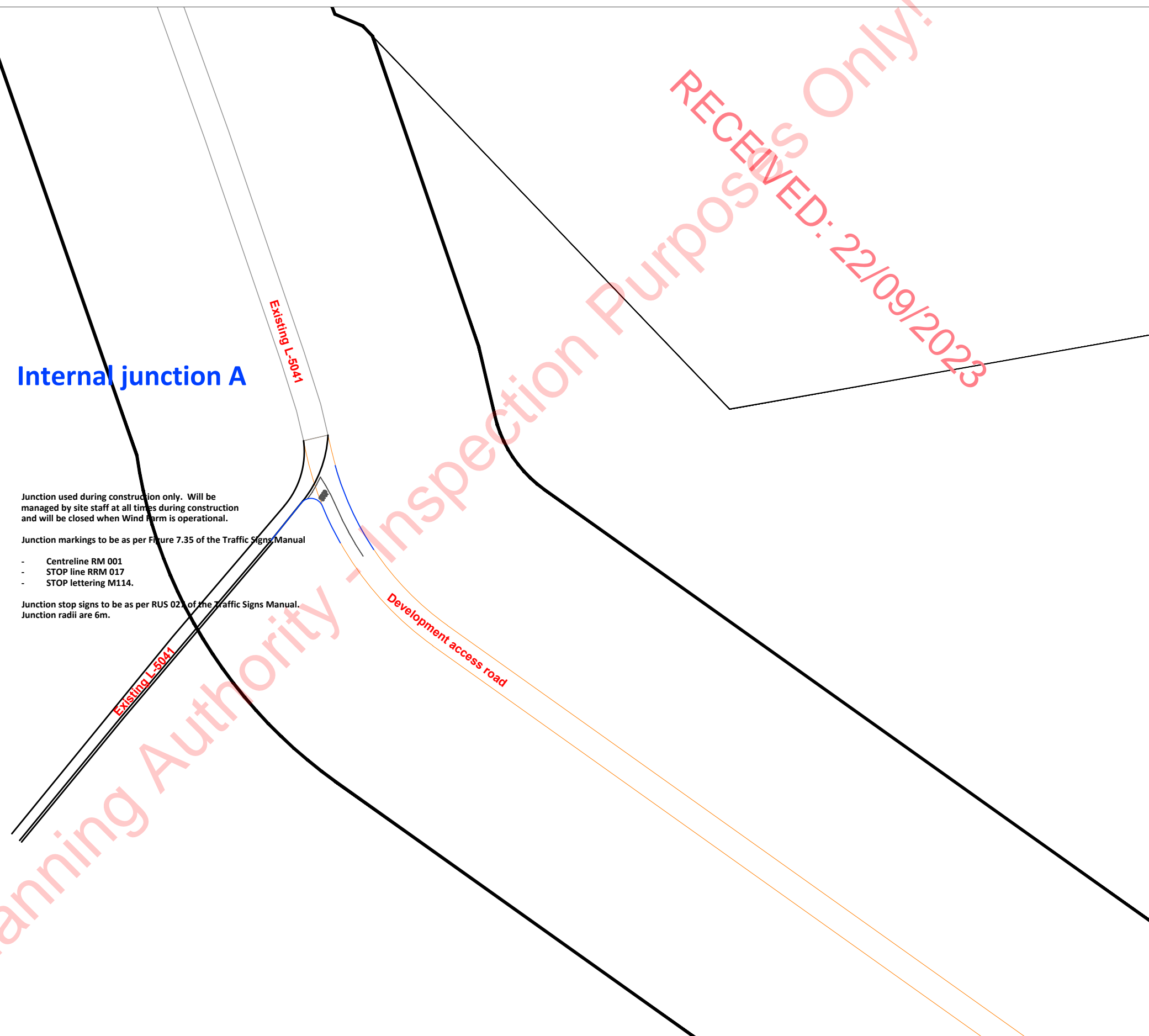
### Internal junction A

Junction used during construction only. Will be managed by site staff at all times during construction and will be closed when Wind farm is operational.

Junction markings to be as per Figure 7.35 of the Traffic Signs Manual

- Centreline RM 001
- STOP line RRM 017
- STOP lettering M114.

Junction stop signs to be as per RUS 021 of the Traffic Signs Manual. Junction radii are 6m.



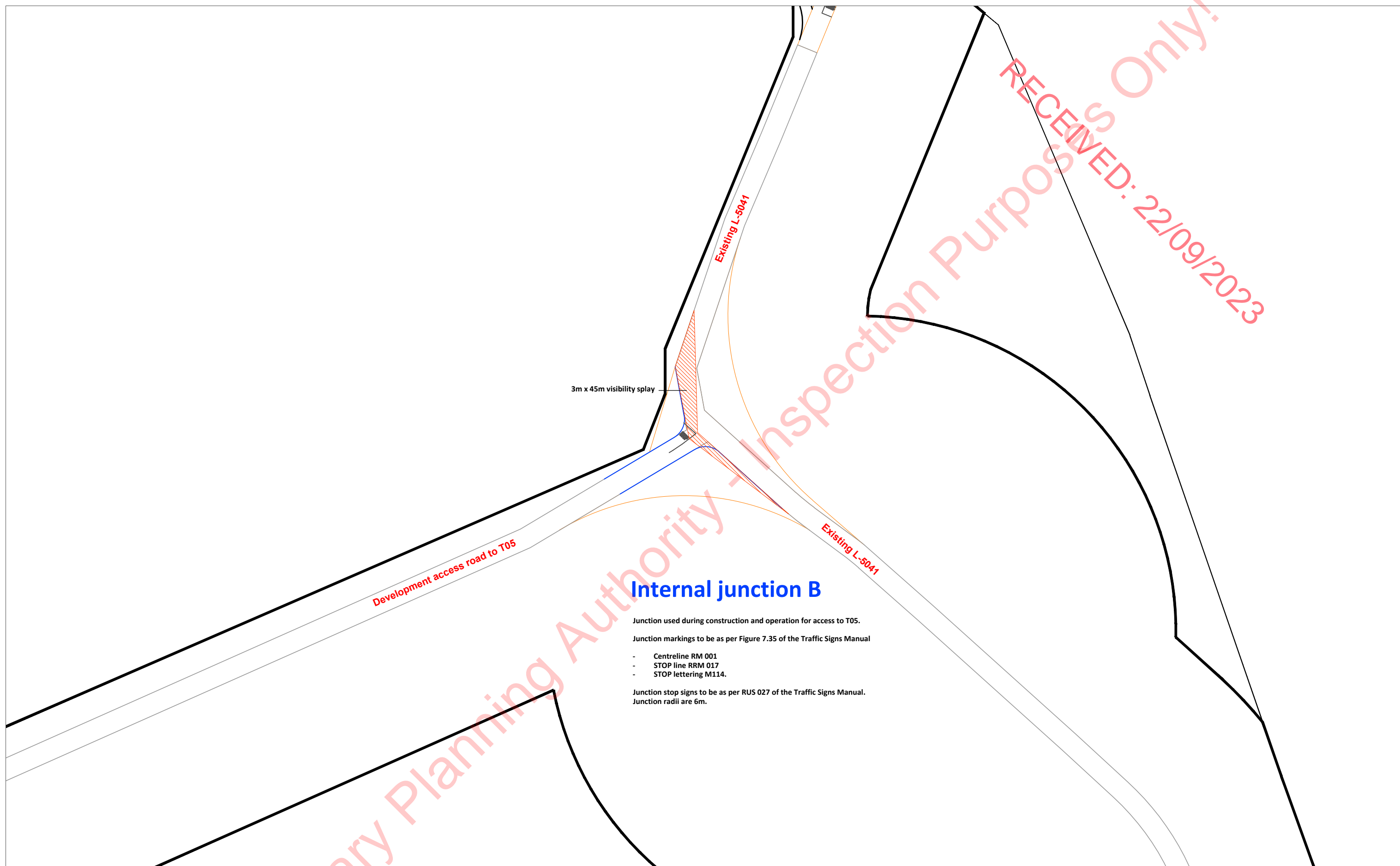
NOTES:  
PLANNING DRAWING ONLY - NOT FOR CONSTRUCTION PURPOSES

Figure 15-35 Internal junction A - L-5041 / development access road

PROJECT:	Carrig Renewables Wind Farm
CLIENT:	AIP
PROJECT NO:	9920
DATE:	11.08.23
SCALE:	1:1000
DRAWN BY:	AL

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3m x 45m visibility splay

Development access road to T05

Existing L-5041

Existing L-5041

### Internal junction B

Junction used during construction and operation for access to T05.  
Junction markings to be as per Figure 7.35 of the Traffic Signs Manual

- Centreline RM 001
- STOP line RRM 017
- STOP lettering M114.

Junction stop signs to be as per RUS 027 of the Traffic Signs Manual.  
Junction radii are 6m.

NOTES:

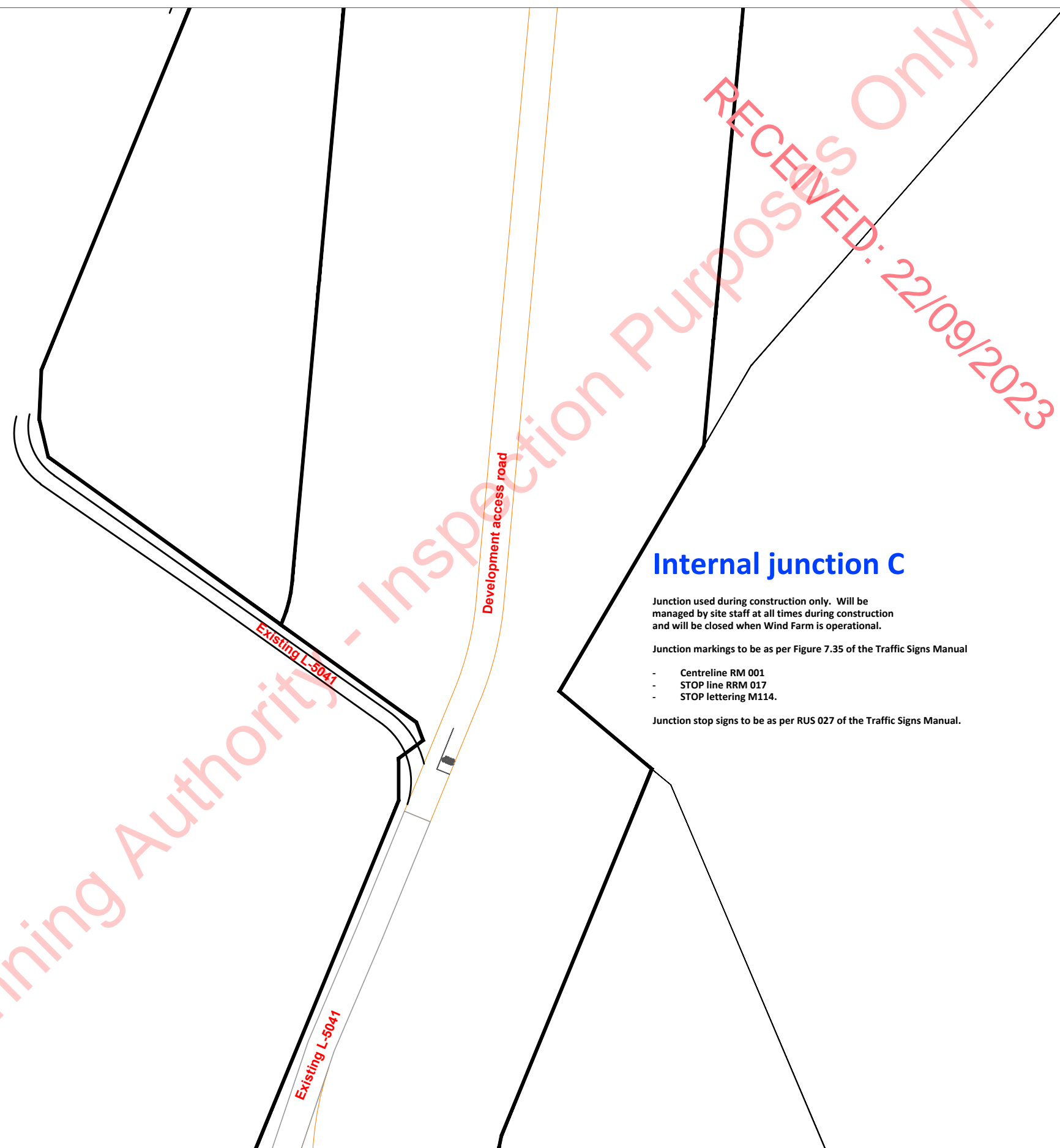
PLANNING DRAWING ONLY - NOT FOR CONSTRUCTION PURPOSES

Figure 15-36 Internal junction B - L-5041 / access to Turbine 05

PROJECT:	Carrig Renewables Wind Farm		
CLIENT:	AIP	SCALE:	1:1000
PROJECT NO:	9920	DATE:	11.08.23
		DRAWN BY:	AL

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### Internal junction C

Junction used during construction only. Will be managed by site staff at all times during construction and will be closed when Wind Farm is operational.

Junction markings to be as per Figure 7.35 of the Traffic Signs Manual

- Centreline RM 001
- STOP line RRM 017
- STOP lettering M114.

Junction stop signs to be as per RUS 027 of the Traffic Signs Manual.

NOTES:

PLANNING DRAWING ONLY - NOT FOR CONSTRUCTION PURPOSES

Figure 15-37 Internal junction C - L-5041 / development access road

PROJECT: Carrig Renewables Wind Farm		
CLIENT: AIP	SCALE: 1:1000	
PROJECT NO: 9920	DATE: 11.08.23	DRAWN BY: AL

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### Internal junction D

Junction used during construction and operation for access to T06 & T07.

Junction markings to be as per Figure 7.35 of the Traffic Signs Manual

- Centreline RM 001
- STOP line RRM 017
- STOP lettering M114.

Junction stop signs to be as per RUS 027 of the Traffic Signs Manual.

Junction radii are 6m.

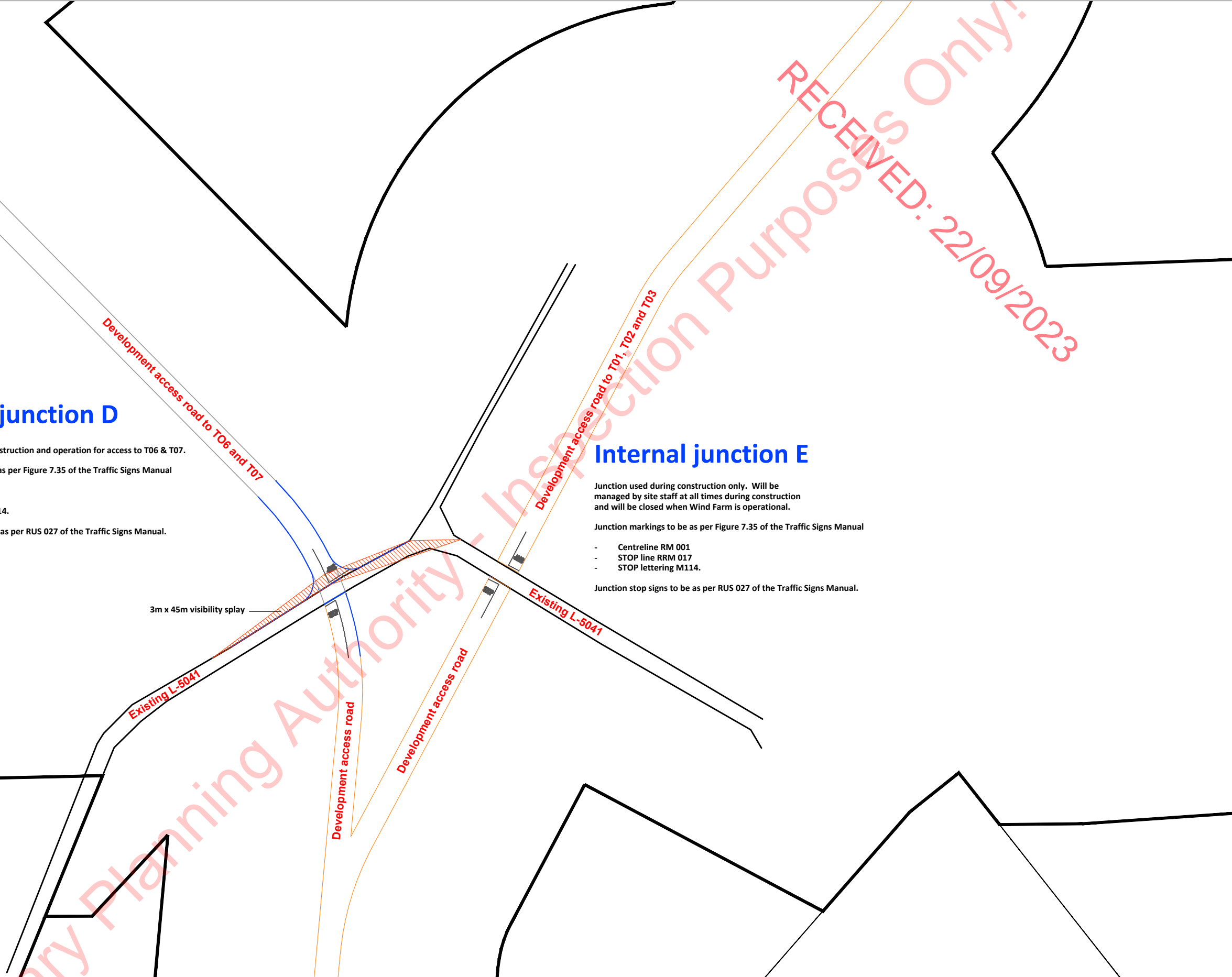
### Internal junction E

Junction used during construction only. Will be managed by site staff at all times during construction and will be closed when Wind Farm is operational.

Junction markings to be as per Figure 7.35 of the Traffic Signs Manual

- Centreline RM 001
- STOP line RRM 017
- STOP lettering M114.

Junction stop signs to be as per RUS 027 of the Traffic Signs Manual.



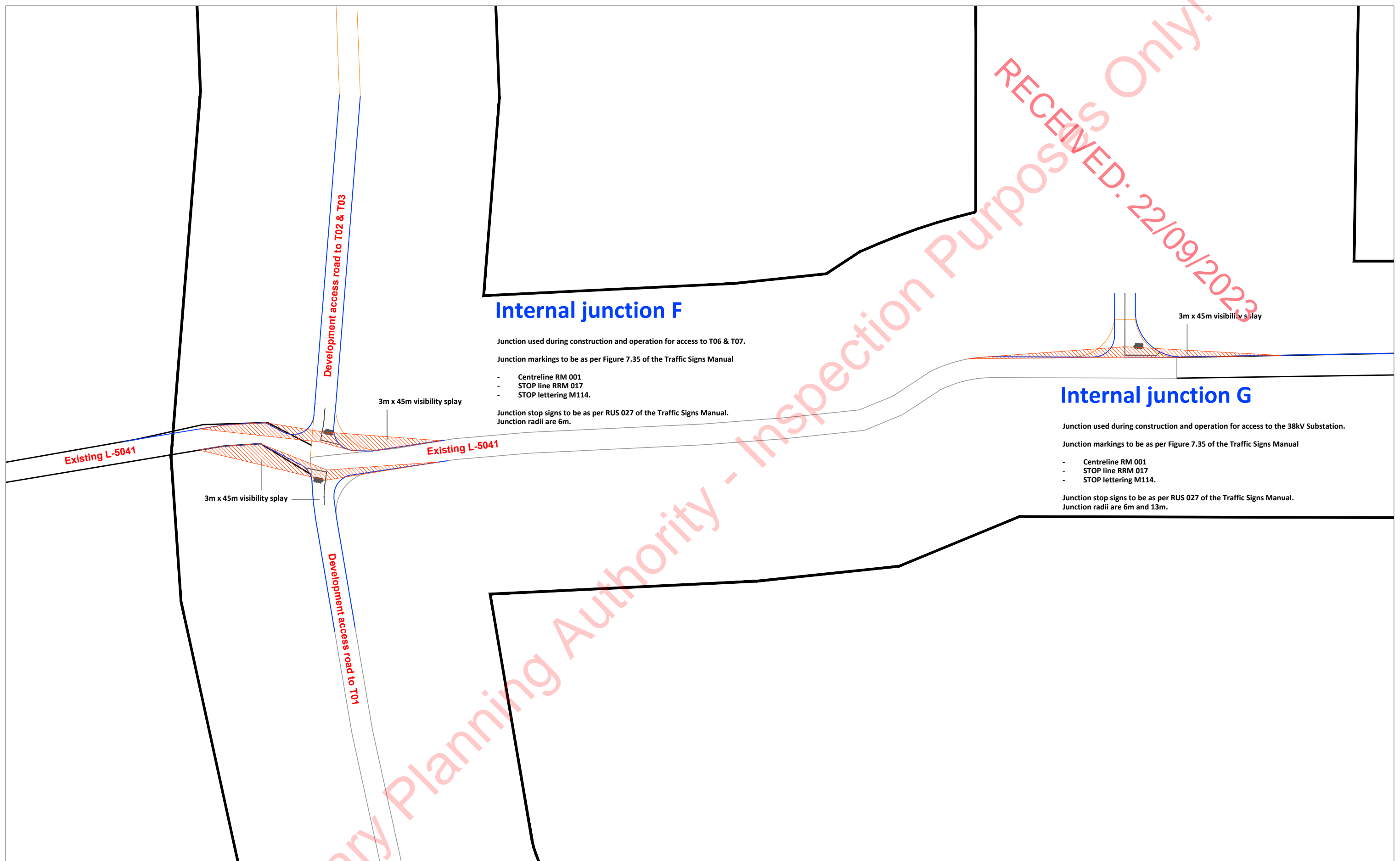
NOTES:  
 PLANNING DRAWING ONLY - NOT FOR CONSTRUCTION PURPOSES

Figure 15-38 Internal junction D - L-5041 / development access road / access to Turbines 06 and 07, and, Internal junction E - L-5041 / development access road

PROJECT: Carrig Renewables Wind Farm		SCALE: 1:1000
CLIENT: AIP	DATE: 30.07.23	DRAWN BY: AL
PROJECT NO: 9920		

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### Internal junction F

Junction used during construction and operation for access to T06 & T07.  
Junction markings to be as per Figure 7.35 of the Traffic Signs Manual  
- Centreline RM 001  
- STOP line RRM 017  
- STOP lettering M114.  
Junction stop signs to be as per RUS 027 of the Traffic Signs Manual.  
Junction radii are 6m.

### Internal junction G

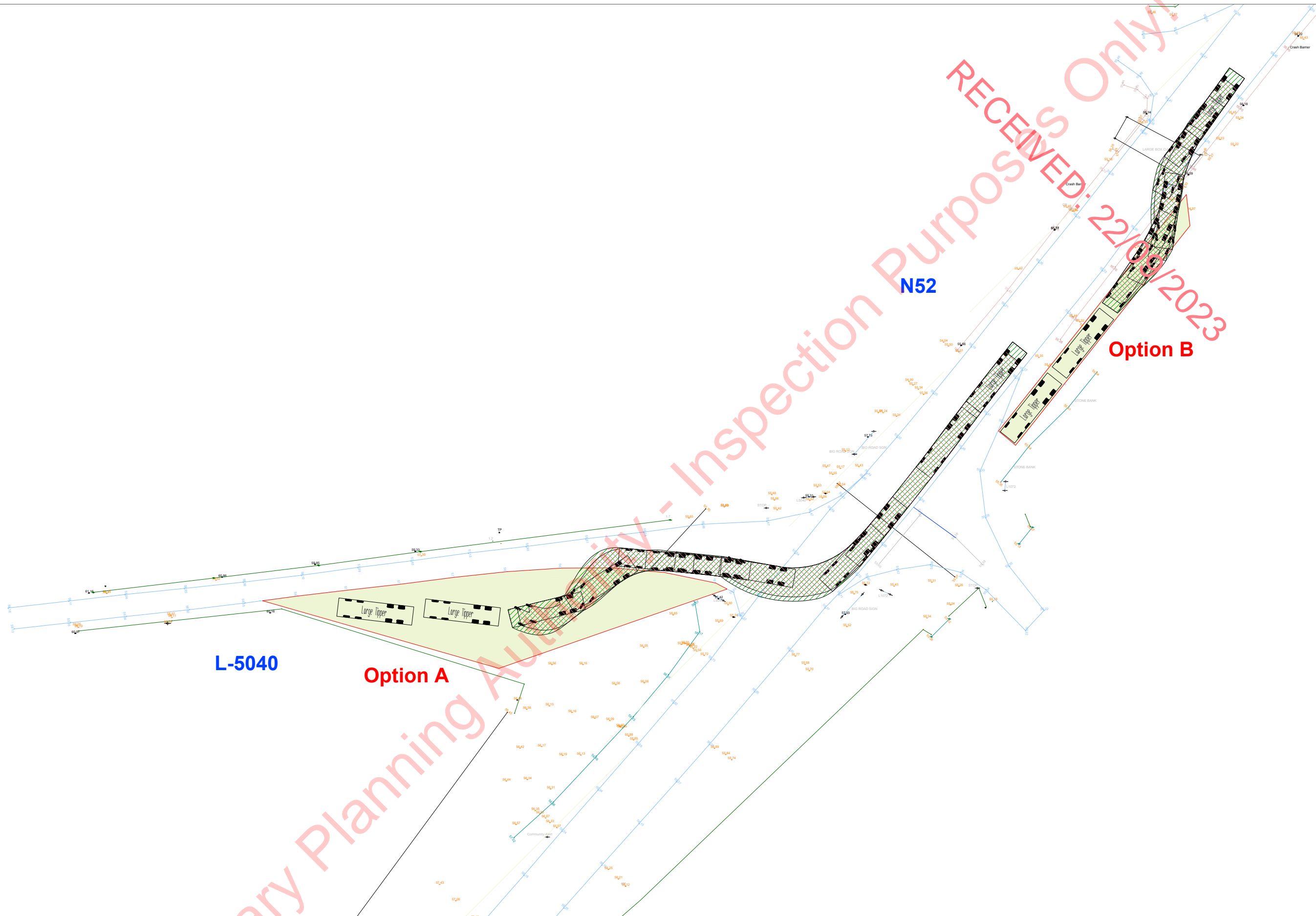
Junction used during construction and operation for access to the 38kV Substation.  
Junction markings to be as per Figure 7.35 of the Traffic Signs Manual  
- Centreline RM 001  
- STOP line RRM 017  
- STOP lettering M114.  
Junction stop signs to be as per RUS 027 of the Traffic Signs Manual.  
Junction radii are 6m and 13m.

NOTES:  
PLANNING DRAWING ONLY - NOT FOR CONSTRUCTION PURPOSES

Figure 15-39 Internal junction F - L-5041 / access to Turbine 01 / access to Turbines 02 and 03, and, Internal junction G - L-5041 / access to 38kV substation

PROJECT: Carrig Renewables Wind Farm		SCALE: 1:1000
CLIENT: AIP	DATE: 30.07.23	DRAWN BY: AL
PROJECT NO: 9920		

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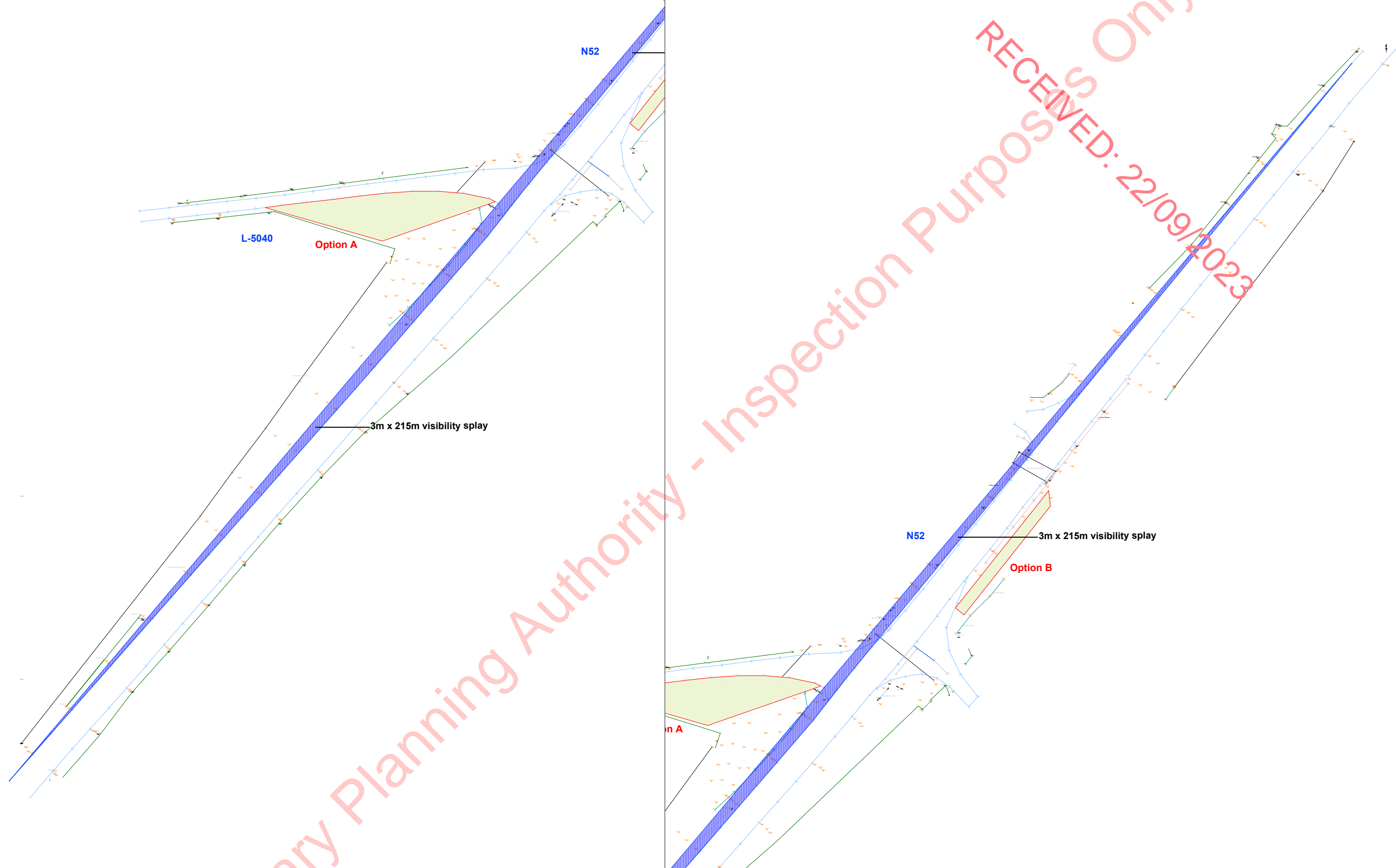
Figure 15-40 Proposed HGV holding area options at east end of L-5040

PROJECT: Carrig Renewables Wind Farm	
CLIENT: AIP	SCALE: 1:500
PROJECT NO: 9920	DATE: 23.08.23
	DRAWN BY: AL

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Figure 15-41 Retention of visibility splays at N52 / L5040 junction

PROJECT:	Carrig Renewables Wind Farm
CLIENT:	AIP
PROJECT NO: 9920	DATE: 21.09.23

SCALE: 1:1000  
DRAWN BY: AL

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