

24151-01-001

HOUSING DEVELOPMENT AT COSMONA, LOUGHREA, CO. GALWAY

Road Safety Audit Stage 1/2

for

TOBIN CONSULTING

SEPTEMBER 2024



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DOCUMENT CONTROL SHEET

Project Title	Housing Development at Cosmona, Loughrea, Co. Galway
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Client	Tobin Consulting
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Status	Author(s)	Reviewed By	Approved By	Issue Date
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1. INTRODUCTION

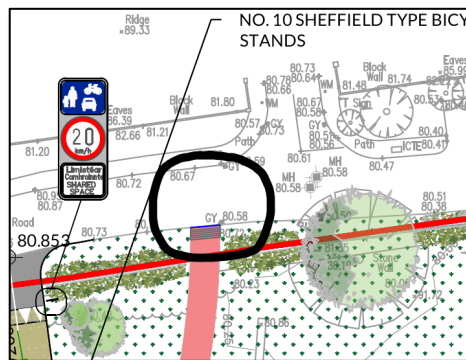
- 1.1 This report describes a Stage 1/2 Road Safety Audit carried out at a proposed housing development at Cosmona in Loughrea, Co. Galway. The site is a greenfield site adjacent to the R350 Loughrea to Bullaun Road. The land use is currently agricultural grass land. At the northern end of the proposed development, Cosmona will be connected to the Hazelwood estate via access roads and pedestrian/cycleways. The audit was carried out on 13th of September 2024 in the offices of Roadplan Consulting, Kilkenny.
- 1.2 The audit team members were as follows:
- George Frisby, BE CEng MIEI
Auditor Number GF51255
 - Adrian Gildea, BE MIEI
Auditor Number AG7435152
- 1.3 Both audit team members visited the site on the 4th of September 2024. The audit comprised of an examination of the drawings relating to the scheme supplied by Tobin Consulting Engineers and an examination of the site.
- 1.4 The speed limit at the proposed site exit onto the R350 is 50km/h.
- 1.5 This Stage 1/2 Audit has been carried out in accordance with the relevant sections of TII GE-STY-01024. The team has examined only those issues within the design relating to the road safety implications of the scheme and has therefore not examined or verified the compliance of the design to any other criteria.
- 1.6 All problems described in this report are considered by the audit team to require action in order to improve the safety of the scheme and minimise accident occurrence.
- 1.7 Appendix A contains copies of the audited drawings.

2. STAGE 1/2 AUDIT

2.1 **Problem:** Cyclists Entering the Carriageway

Location: Hazelwood Estate

The design drawings show that the shared footpath/cycletrack ends suddenly at the main access road of the adjacent Hazelwood estate. Cyclists and pedestrians at the end of the track may have limited visibility to the east due to overgrown vegetation. Drivers in the Hazelwood estate may not anticipate cyclists and pedestrians emerging onto the roadway. It is also noted that no dropped kerb and tactile paving is provided opposite the crossing to enable pedestrians cross over to the opposing footpath. This situation could increase the risk of collisions involving pedestrians and cyclists.



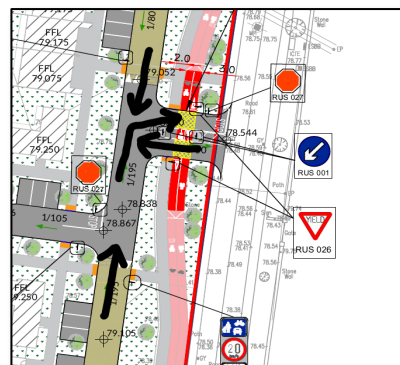
Recommendation:

Ensure sight lines comply with design standards and that motorists are warned of the presence of pedestrians and cyclists. Provide appropriate dropped kerbs and tactile paving in the footpath opposite.

2.2 **Problem:** Right of Way

Location: Entrance Avenue

The design drawings indicate a relatively long and straight access road adjacent to the entrance. It is unclear who has right of way at this junction. A lack of clarity may lead to side swipe vehicle collisions at this location.

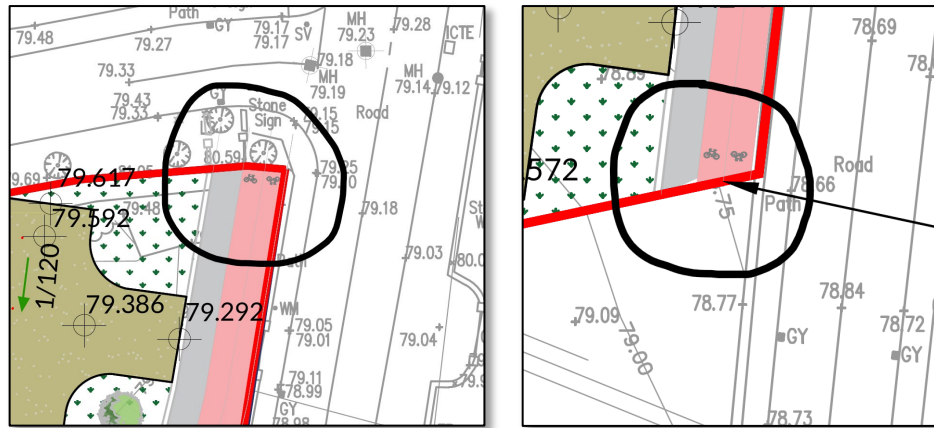


Recommendation:

Ensure adequate guidance is provided to motorists relating to the right of way at this location.

2.5 Problem: Termination for Cyclists from Cycle Track**Location:** Northern & Southern end of the Site

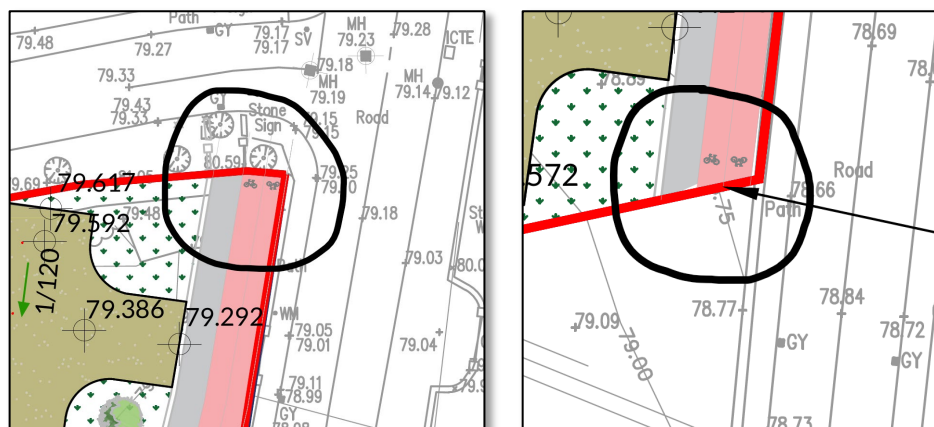
The drawings show a designated cyclist path, but it finishes suddenly at both ends without any details regarding its termination. The absence of features to help cyclists integrate with existing traffic and pedestrian facilities may heighten the risk of collisions involving cyclists

**Recommendation:**

Ensure adequate features are designed and constructed to guide cyclists on and off the cycle track.

2.6 Problem: Termination for pedestrians from footpath**Location:** Northern & Southern end of the Site

The drawings show a new footpath within the proposed development, but it finishes suddenly at both ends without any details regarding its tie-in to the existing footpaths. The absence of connections to the existing footpaths may increase the risk of collisions involving pedestrians.

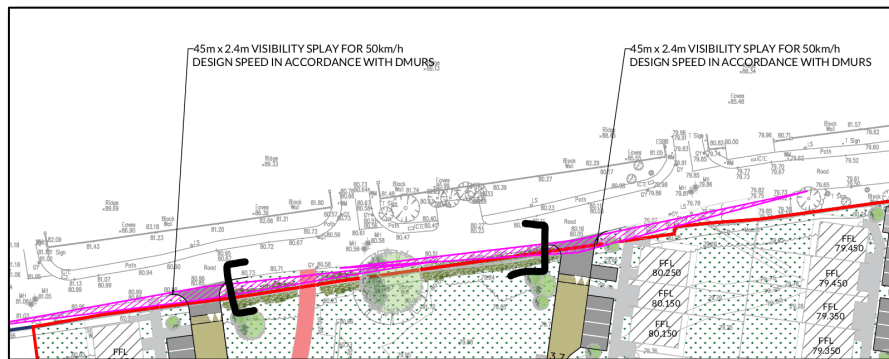
**Recommendation:**

Provide appropriate footpath connections to the existing footpaths.

2.7 **Problem:** Visibility Splays

Location: Exiting into Hazelwood Estate

Visibility splays are indicated for both exits into the Hazelwood estate from the Cosmona Development. These visibility splays extend across existing vegetation and shrubbed areas. Over time, excessive growth coupled with a lack of ownership/maintenance may result in visibility splays being reduced. This may contribute to collisions when vehicles are exiting the junctions.



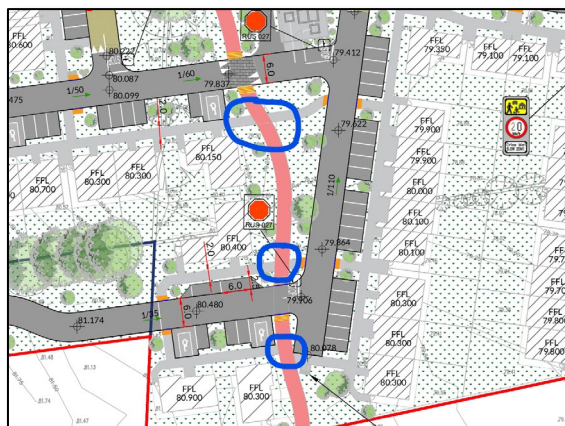
Recommendation:

Ensure adequate visibility splays are provided and maintained. Remove trees & shrubbed areas within the extents of the visibility splays.

2.8 **Problem:** Pedestrians Entering the Shared footpath/cycletrack

Location: Multiple Locations

Pedestrians may not expect to encounter cyclists on the shared footpath/cycletrack and may not make room for cyclists to pass. This may be a particular issue for visually impaired persons, who may enter the shared surface unbeknown to them, resulting in collisions between cyclists and pedestrians.



Recommendation:

Provide appropriate warning for pedestrians where the footpaths meet the shared footpath/cycletrack.

2.9 **Problem:** Inadequate Visibility
Location: Uncontrolled Pedestrian Crossings

A number of uncontrolled pedestrian crossings are proposed throughout the development. However, it is unclear whether adequate inter-visibility is provided between drivers of vehicles approaching the crossings and pedestrians stopped waiting to cross. Obstructions to intervisibility may include planting, refuse bins and parked vehicles adjacent to pedestrian crossings.

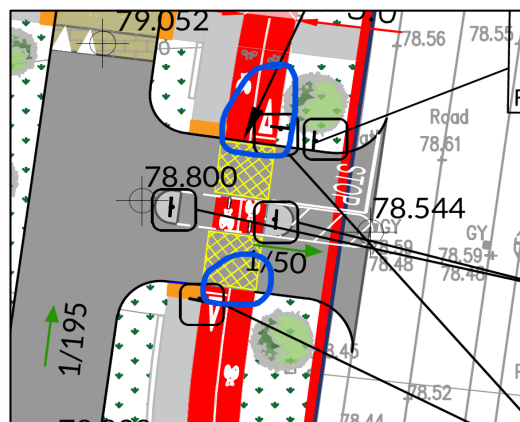


Recommendation:

Ensure adequate intervisibility between motorists & pedestrians is provided at uncontrolled crossings.

2.10 **Problem:** Cyclist Access to Cycle Surface
Location: Development Access Point

It appears there is a full height kerb between the carriageway and the cycle lane. While a drop kerb is indicated for pedestrians, no height for the kerb at the cycle lane is indicated on the drawings. TL404 indicates that kerbs are not recommended in the path of cyclists at the edge of the road. Cyclists may lose control when attempting to mount a kerb.

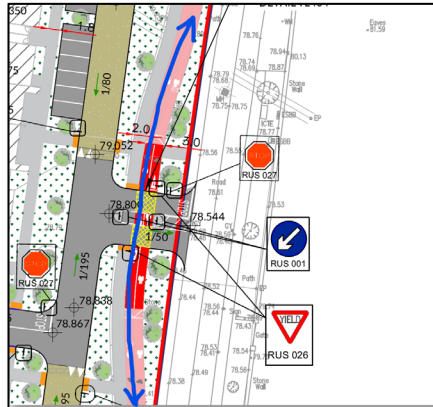


Recommendation:

Provide a suitable and level transition from the carriageway to the cycle track in accordance with the new Cycle Design Manual.

2.11 **Problem:** Cyclist Speed
Location: Main Entrance Crossing

The design drawings indicate a gentle swept path for cyclists as they approach the crossing point. Cyclists approaching at speed may have difficulty stopping to give right of way to vehicles entering/exiting the development. This may result in side-swipe collisions between vehicles and cyclists.

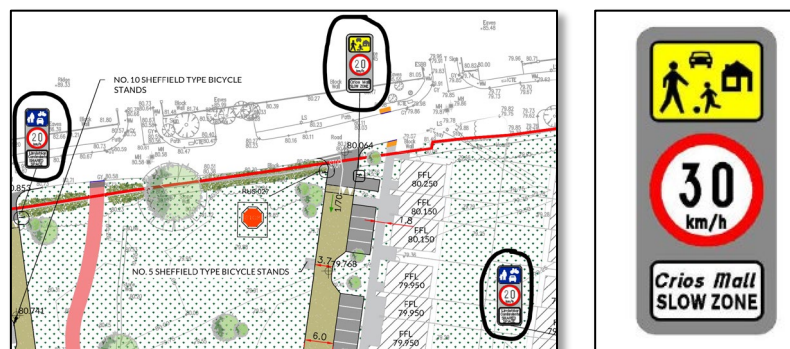


Recommendation:

Ensure the approach to the crossing for cyclists incorporates a suitable alignment that promotes cyclists to slow down in advance of the crossing, as outlined in TL404.

2.12 **Problem:** Slow Zone Signage
Location: Throughout

The design drawings indicate Slow Signage and other speed signage throughout. The Traffic Signs Manual indicates that Slow Zone signage for built up areas is 30km/h, however differing speeds are indicated on the design drawings. Confusion regarding the exact speed limit may cause drivers to ignore the actual speed limit, thus increasing the likelihood of accidents and collisions.



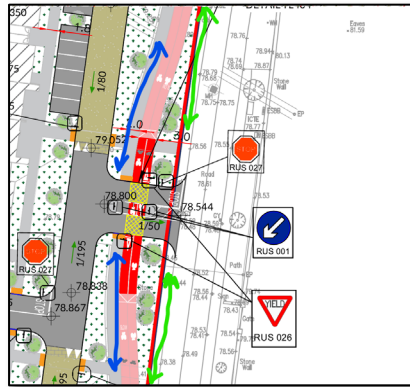
Recommendation:

Ensure speed limits throughout the development are as per the applicable legislation and the relative design standards.

2.13 Problem: Driver Confusion

Location: Main Entrance

The design drawings indicate a new pedestrian footpath and crossing within the development. The drawings do not indicate what is proposed for the existing footpath that is between the boundary wall and the R350. Multiple crossing points in close proximity may cause confusion for motorists resulting in an increased likelihood of vehicle & pedestrian collisions.

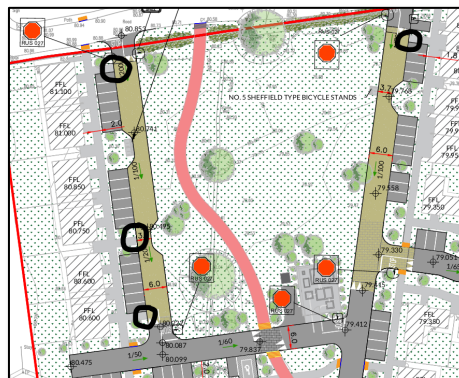
**Recommendation:**

Remove the existing footpath to limit pedestrians crossing at multiple locations.

2.14 Problem: Pedestrian Delineation

Location: Shared Surfaces

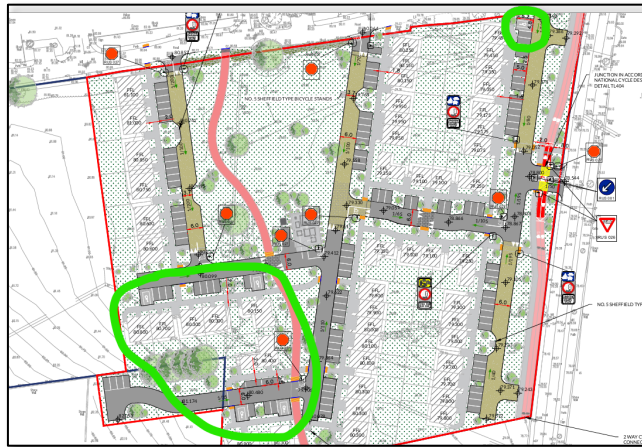
Footpaths and shared surfaces are planned within the development. However, it may not be clear to visually impaired pedestrians where the dedicated footpaths ends, and the shared surfaces begin. Consequently, they might inadvertently step onto the shared surface without realizing it, which could increase the risk of being struck by a passing vehicle.

**Recommendation:**

Provide appropriate tactile warning at the interfaces of footpaths and shared surface.

2.15 Problem: Disabled Parking**Location:** Throughout

There are five disabled parking spaces, with four located in the southwest corner of the development. However, there are significant areas within the development that lack any disabled parking. Once parked, individuals with disabilities may need to navigate several road crossings to reach their destination, raising the risk of collisions between pedestrians and vehicles

**Recommendation:**

Provide a more even distribution of disabled parking across the site.

2.16 Problem: Street Lighting**Location:** Throughout

No public lighting is indicated on the design drawings. Road safety would be enhanced with the provision of street lighting.

Recommendation:

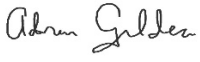
Ensure adequate street lighting is provided throughout the development.

3. AUDIT TEAM STATEMENT

- 3.1 We certify that we have examined the drawings listed in Appendix A and have inspected the site. This examination has been carried out with the sole purpose of identifying any features of the scheme that could be removed or modified to improve the safety of the scheme.

Signed.....  George Frisby

Date13th September 2024.....

Signed.....  Adrian Gildea

Date13th September 2024.....

4. SAFETY AUDIT FEEDBACK FORM

Scheme: Housing Development at Cosmona, Loughrea, Co. Galway

Document Number: 24151-01-001

Audit Stage: Stage 1/2 RSA

Date Audit Completed: 13th September 2024

Paragraph No. in Safety Audit Report	To Be Completed By Designer			To Be Completed by Audit Team Leader
	Problem accepted (yes/no)	Recommended measure Accepted (yes/no)	Describe alternative measure(s). Give reasons for not accepting recommended measure. Only complete if recommended measure is not accepted.	Alternative measures or reasons accepted by auditors (yes/no)
2.1	Yes	Yes	-----	-----
2.2	Yes	Yes	-----	-----
2.3	No	No	This parking is a proposed access to the existing graveyard to the east of the site – a pedestrian link will instead be provided to the site boundary with the graveyard.	Yes
2.4	Yes	Yes	-----	-----
2.5	Yes	Yes	-----	-----
2.6	Yes	No	The footpath to the north will be extended to tie create an uncontrolled crossing. Lidl are developing the lands to the south which will provide connectivity to the south	Yes
2.7	Yes	Yes	-----	-----
2.8	Yes	Yes	-----	-----
2.9	Yes	Yes	-----	-----
2.10	Yes	Yes	-----	-----
2.11	Yes	Yes	-----	-----
2.12	Yes	Yes	-----	-----
2.13	Yes	Yes	-----	-----
2.14	Yes	Yes	-----	-----
2.15	No	No	Accessible parking has been located in close proximity to the single storey units where council tenants are most likely to require accessible parking.	Yes
2.16	Yes	Yes	-----	-----

Safety Audit**Signed off** ...SHANE BYRNE..... **Design Team Leader****Print Name** *Shane Byrne***Date** ...24/09/2024...**Safety Audit****Signed off** *Alan Brogan* **Employer****Print Name** Alan Brogan**Date** 25/09/2024**Safety Audit****Signed off** *George Frisby* **Audit Team Leader****Print Name** GEORGE FRISBY**Date** 26/9/24

Please complete and return to:

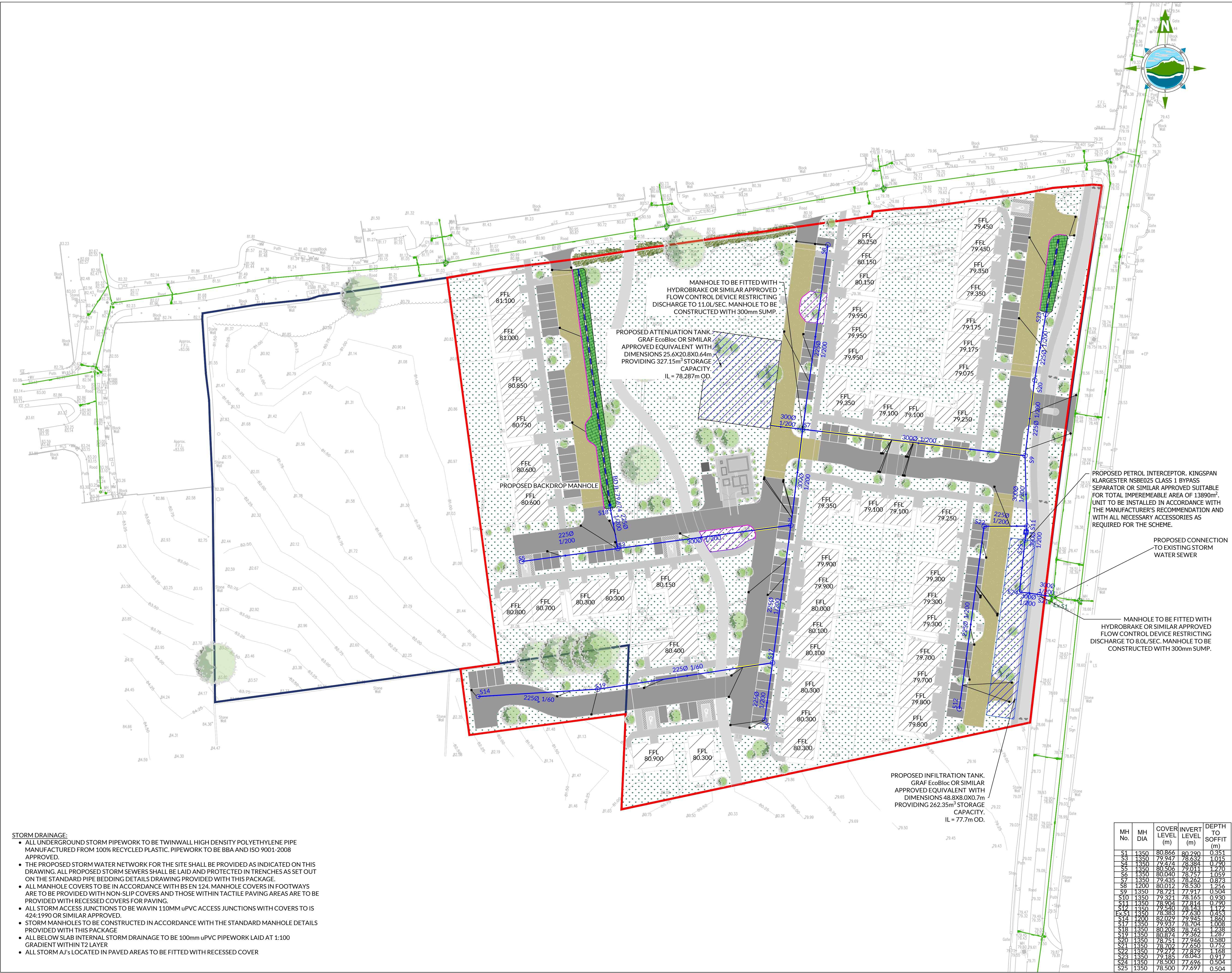
Roadplan Consulting,
7, Ormonde Road
Kilkenny
E-mail: info@roadplan.ie

APPENDIX A

List of Drawings Examined

The following drawings have been provided electronically in PDF format by Tobin are appended.

Drawing Number	Rev	Drawing Title
11942-2002	-	Proposed Storm Water Drainage Layout
11942-2004	-	Proposed Road Layout Sheet 1
11942-2005	-	Visibility Splays
11942-2006	-	Swept Path Analysis Sheet 1 of 3
11942-2007	-	Swept Path Analysis Sheet 2 of 3
11942-2008	-	Swept Path Analysis Sheet 3 of 3



THE INFORMATION ON THIS DRAWING IS TO THE ORDNANCE SURVEY IRELAND ITM COORDINATE SYSTEM

LEGEND:

PROPOSED STORM SEWER & MANHOLE

PROPOSED STORM SEWER & BACKDROP MANHOLE

EXISTING STORM SEWER & MANHOLE

PROPOSED INFILTRATION TANK

PROPOSED SWALE

PROPOSED DRAINAGE KERB DISCHARGING TO SWALE VIA ACO SWALE INLET UNIT WITH GALVANISED MESH GRATING @ 15M C/C

ROPOSED GULLY LOCATION AND Ø100MM PVC CONNECTION PIPE

CONCRETE COVER

PERFORATED COLLECTOR DRAINAGE PIPE

RAIN GARDEN

NOTES:

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.

2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.

3. ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.

4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.

5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

DO	09.08.2024	Draft for Issue	A.O	S.B
Rev	Date	Description	By	Chkd.

Client:

Galway County Council

Project:

Housing Development at Cosmona, Loughrea, Co. Galway

Title:

Proposed Storm Water Drainage Layout

Scale @ A1:

1:500

Prepared by:

A.O

Checked by:

S.B

Date:

02.07.24

Drawing Status:

Planning

TOBIN

Tel: +353 (0)91 565 211

Email: info@tobin.ie

www.tobin.ie

Drawing No.:

11942-2002

Revision:

DO

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THE INFORMATION ON THIS DRAWING IS TO THE ORDNANCE SURVEY IRELAND ITM COORDINATE SYSTEM

LEGEND

- PROPOSED ASPHALT ROAD
- PROPOSED CYCLE PATH
- SHARED WALKWAY/CYCLE TRACK
- PROPOSED FOOTPATH
- SHARED SURFACE - IMPRINTED / COLOURED ASPHALT
- IMPRINTED MACADAM RAISED TABLE / RAISED CROSSING
- PCC KERB
- DROP KERB
- TACTILE PAVING
- PROPOSED ROAD LEVEL
- PROPOSED ROAD GRADIENT
- PROPOSED BUILDING

D1	16.08.2024	Draft for Issue	AO	SB
D0	09.08.2024	Draft for Issue	A.O	S.B
Rev	Date	Description	By	Chkd.

Client: Galway County Council

Project: Housing Development at Cosmona, Loughrea, Co. Galway

Title: Proposed Roads Layout

Scale @ A1: 1:500

Prepared by: A.O Checked by: S.B Date: 07.06.2024

Drawing Status: PLANNING

TOBIN

Tel: +353 (0)91 565 211
Email: info@tobin.ie
www.tobin.ie

Drawing No.: 11942-2004 Revision: D1



THE INFORMATION ON THIS DRAWING
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LEGEND:

- PROPOSED ASPHALT ROAD
- PROPOSED CYCLE PATH
- PROPOSED FOOTPATH
- VISIBILITY SPLAY IN
ACCORDANCE WITH DMURS
REQUIREMENT
- PROPOSED RED LINE
PLANNING BOUNDARY

NOTES:

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DO	13.08.2024	Draft for Issue	A.O	S.B
Rev	Date	Description	By	Chkd.

Client: Galway County Council

Project: Housing Development at
Cosmona, Loughrea,
Co. Galway

Title:
Proposed Visibility Splays

Scale @ A1: 1:500

Prepared by: G.M Checked by: S.B Date: 07.06.2024

Drawing Status: Planning

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Email: info@tobin.ie
www.tobin.ie

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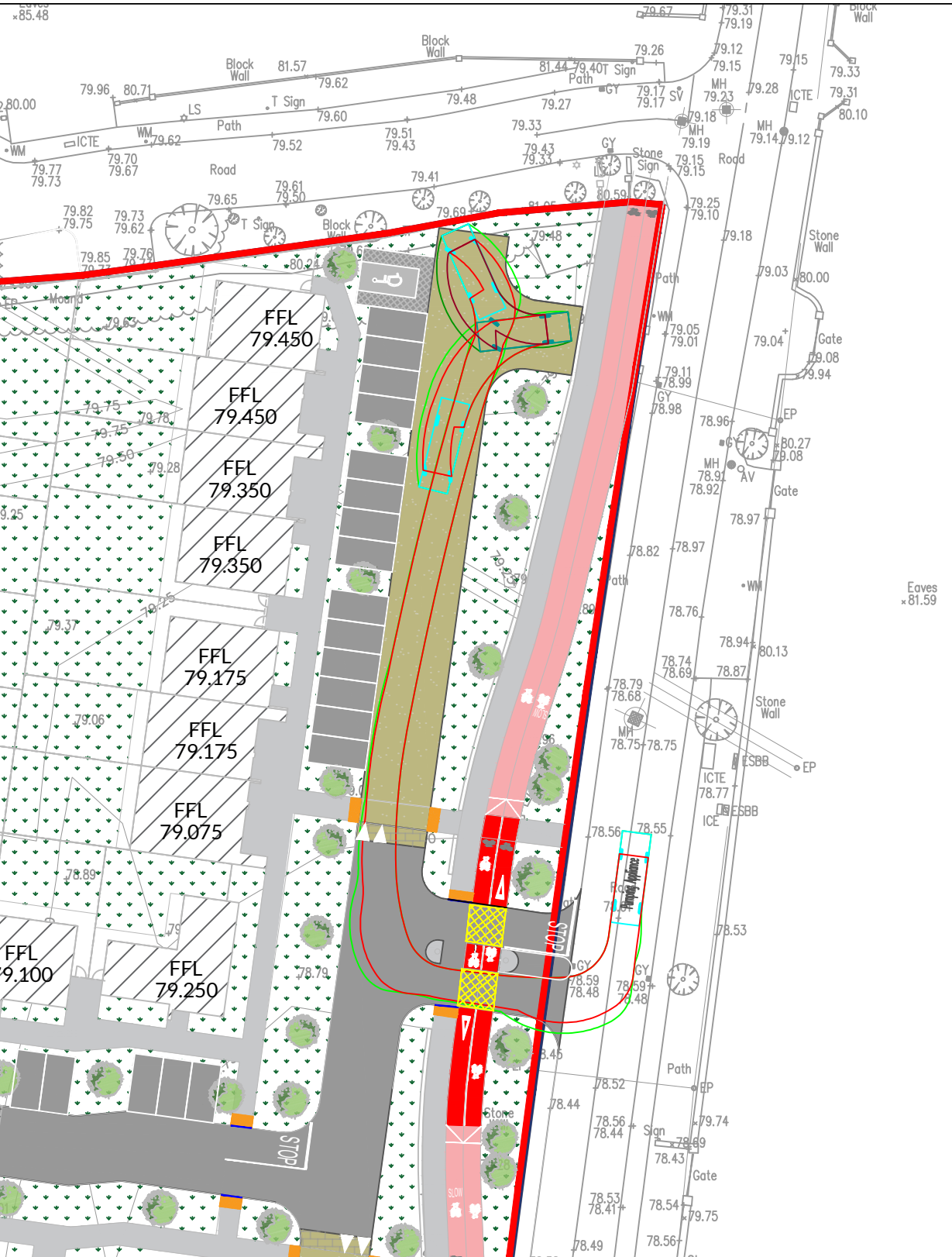
Drawing No.: 11942-2005
Revision: DO



SWEPT PATH ANALYSIS - REFUSE VEHICLE
SCALE 1:500



SWEPT PATH ANALYSIS - REFUSE VEHICLE
SCALE 1:500

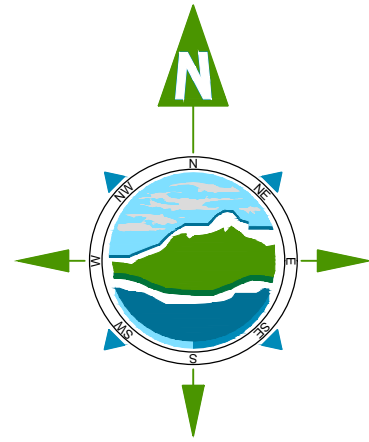


SWEPT PATH ANALYSIS - FIRE TENDER
SCALE 1:500



SWEPT PATH ANALYSIS - FIRE TENDER
SCALE 1:500

- NOTES:
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LEGEND:

- WHEEL TRACK - FORWARD MOVEMENT
- SWEPT PATH OF VEHICLE BODY - FORWARD MOVEMENT
- WHEEL TRACK - REVERSING MOVEMENT
- SWEPT PATH OF VEHICLE BODY - REVERSING MOVEMENT
- VEHICLE PLAN

VEHICLE PROFILE

Pumping Appliance

Overall Length: 7.900m
Overall Width: 2.500m
Overall Body Height: 3.300m
Min Body Ground Clearance: 0.140m
Track Width: 2.500m
Lock-to-lock time: 4.00s
Curb to curb Turning Radius: 7.750m

DB32 Refuse Vehicle

Overall Length: 7.900m
Overall Width: 2.400m
Overall Body Height: 3.183m
Min Body Ground Clearance: 0.588m
Max Track Width: 2.400m
Lock-to-lock time: 6.00s
Curb to curb Turning Radius: 9.625m



SWEPT PATH ANALYSIS - REFUSE VEHICLE
SCALE 1:500



SWEPT PATH ANALYSIS - FIRE TENDER
SCALE 1:500

DO	13.08.2024	Draft for Issue	A.O. S.B.
Rev	Date	Description	By Chkd.

Client: Galway County Council

Project: Housing Development at
Cosmona, Loughrea,
Co. Galway

Title: SWEPT PATH ANALYSIS
SHEET 1 OF 3

Scale @ A1: As Shown

Prepared by: A.O. Checked by: S.B. Date: 07.06.2024

Drawing Status: PLANNING

TOBIN

Tel: +353 (0)91 565 211
Email: info@tobin.ie
www.tobin.ie

Drawing No.: 11942-2006
Revision: DO



SWEPT PATH ANALYSIS - LARGE CAR
SCALE 1:500



SWEPT PATH ANALYSIS - LARGE CAR
SCALE 1:500



SWEPT PATH ANALYSIS - LARGE CAR
SCALE 1:500



SWEPT PATH ANALYSIS - LARGE CAR
SCALE 1:500

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- SWEPT PATH OF VEHICLE BODY - FORWARD MOVEMENT
- WHEEL TRACK - REVERSING MOVEMENT
- SWEPT PATH OF VEHICLE BODY - REVERSING MOVEMENT
- VEHICLE PLAN

VEHICLE PROFILE

Large Car (2006)

Overall Length	5.079m
Overall Width	1.872m
Overall Height	1.525m
Min. Body Ground Clearance	0.240m
Max. Track Width	1.831m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	5.900m

- NOTES:
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DO	13.08.2024	Draft for Issue	A.O	S.B
Rev	Date	Description	By	Chkd.

Client: Galway County Council

Project: Housing Development at Cosmona, Loughrea, Co. Galway

Title: Swept Path Analysis Sheet 2 of 3

Scale @ A1: 1:250

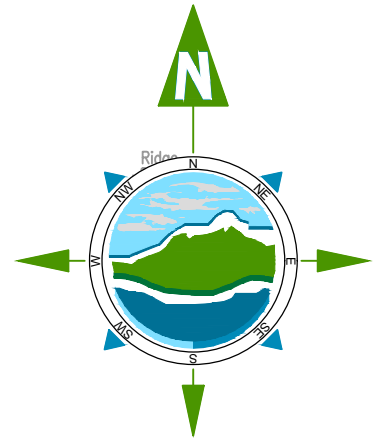
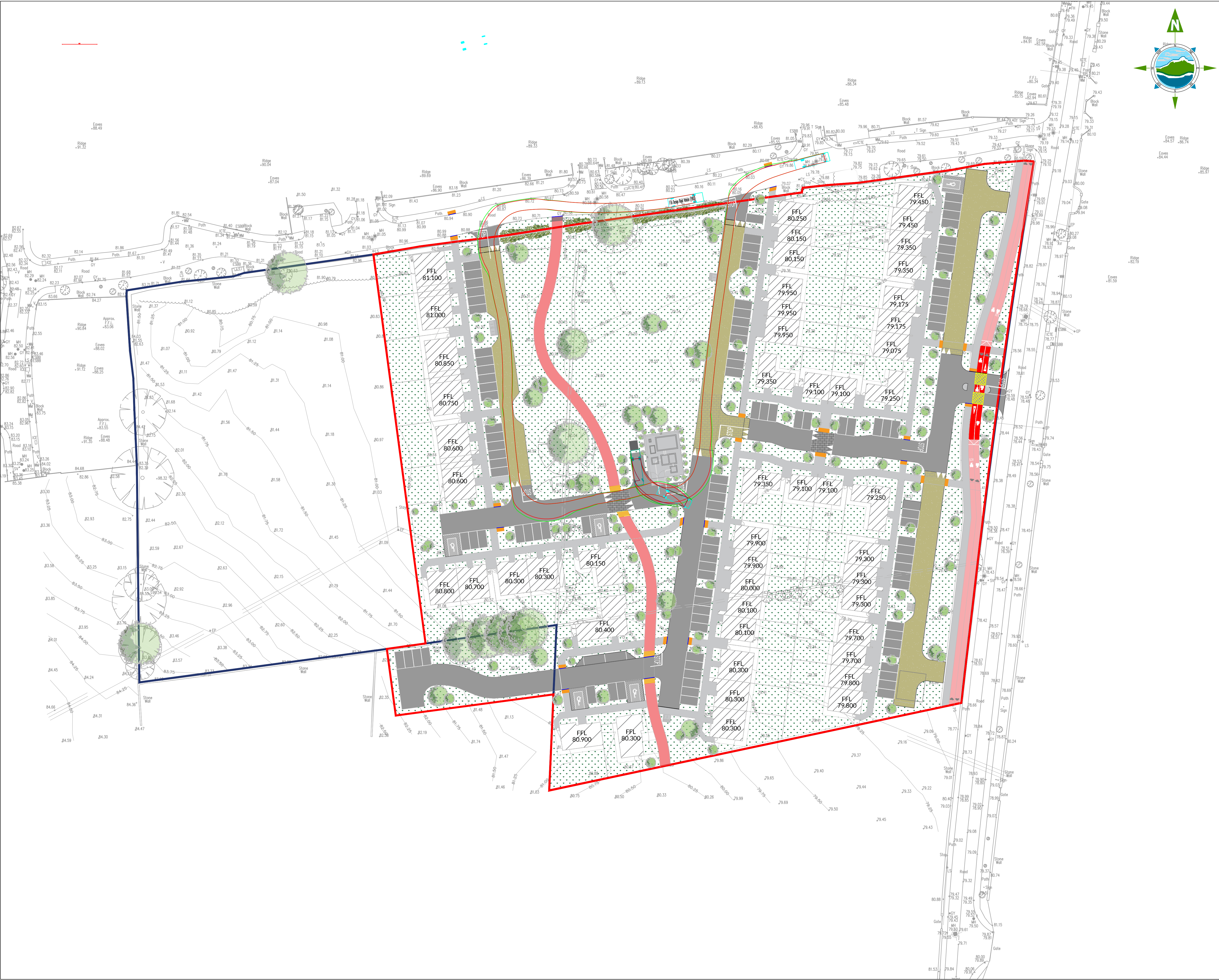
Prepared by: G.M Checked by: S.B Date: 07.06.2024

Drawing Status: Planning

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Email: info@tobin.ie
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Drawing No.: 11942-2007 Revision: DO

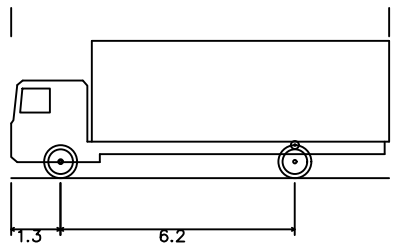


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ITM COORDINATE SYSTEM

LEGEND:

- WHEEL TRACK - FORWARD MOVEMENT
- SWEPT PATH OF VEHICLE BODY - FORWARD MOVEMENT
- WHEEL TRACK - REVERSING MOVEMENT
- SWEPT PATH OF VEHICLE BODY - REVERSING MOVEMENT
- VEHICLE PLAN

VEHICLE PROFILE



FTA Design Rigid Vehicle
Overall Length 10.000m
Overall Width 2.500m
Overall Body Height 3.332m
Min Body ground Clearance 0.422m
Track Width 2.500m
Lock-to-lock time 4.00s
Curb to curb Turning Radius 12.000m

NOTES:

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Rev	Date	Description	By	Chkd.

Client: Galway County Council

Project: Housing Development at
Cosmona, Loughrea,
Co. Galway

Title: SWEPT PATH ANALYSIS
SHEET 3 OF 3

Scale @ A1: 1:500

Prepared by: A.O Checked by: S.B Date: 07.06.2024

Drawing Status: Planning

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