TOBIN

Farranamartin, Tuam

Co. Galway

Stage 1

Road Safety Audit

Gilligan



BUILT ON KNOWLEDGE

| Document Cont | Document Control Sheet | | | | |
|-----------------------|-------------------------------|--|--|--|--|
| Document Reference | TR01 Road Safety Audit | | | | |
| Client: | Gilligan Consulting Engineers | | | | |
| Project Reference | 12128 | | | | |

| Rev | Description | Author | Date | Reviewer | Date | Approval | Date |
|-----|-------------|--------|----------|----------|----------|----------|----------|
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Table of Contents

| 1. IN | ITRODUCTION | 1 |
|------------|---|---|
| 1.1 | EXISTING ENVIRONMENT | 1 |
| 1.2 | PROPOSED DEVELOPMENT | 1 |
| 1.3 | AUDIT DETAILS | 2 |
| 1.4 | COLLISION DATA | 2 |
| 2. IT | EMS RESULTING FROM THIS ROAD SAFETY AUDIT | 3 |
| 2.1 | Problem | 3 |
| 2.2 | Problem | 4 |
| 2.3 | Problem | 5 |
| 2.4 | Problem | |
| 2.5 | Problem | 7 |
| 3. Ol | 9 | |
| 3.1 | Observation | 9 |
| 3.2 | Observation | 9 |
| Appendi | ices endix A-I List of Documents Examined | |
| | endix A-II Problem Map | |
| | endix A-III Feedback Form | |
| , 1919 | | |
| List of Fi | igures | |
| Figure 1- | -1 Site Location | 1 |
| Figure 2- | -1 Right Turn Movement | 3 |
| Figure 2- | -2 Ramp Details | 4 |
| Figure 2- | -3 Underground Utility | 5 |
| Figure 2- | -4 Footpath Width | 6 |
| | 5 Visibility Splay | |
| Figure 2- | -6 Visibility Envelope - Warning Signage | 8 |
| Figure 3- | -1 Signpost | 9 |
| Figure 3- | -2 Overhead Utility | 9 |
| | | |

1. INTRODUCTION

This report describes the Stage 1 Road Safety Audit carried out on an entrance to a proposed housing estate in Farranamartin, Tuam, Co. Galway. The proposed scheme is located within the jurisdictional boundary of Galway County Council seen in Figure 1-1.



Figure 1-1 Site Location

1.1 EXISTING ENVIRONMENT

The scheme is located along the R939 Regional Road, within the urban limits of Tuam. Co Galway, within the speed limit set at 50km/h. The existing environment comprising of linear ribbon developments, industrial and housing estates along both sides of the road. A road width of 7.2m, with an adjacent footpath width of 1.6m.

1.2 PROPOSED DEVELOPMENT

The proposed scheme is a housing estate, located along the R939 Regional Road. The proposed development consists of semi-detached and detached housing along with a proposed access onto the R939 with adjacent footpaths.

1.3 AUDIT DETAILS

The initial audit took place at the Galway office of TOBIN in March 2025. The audit comprised an examination of the documents provided by the Design Team, listed in Appendix A-I. In addition, a day-time site visit took place on Thursday the 27th of March 2025. Throughout the duration of the site visit, the weather was wet and overcast with the footpath carriageway surfaces were wet throughout.

The following information was not made available to the Audit Team:

- Site clearance.
- Swept path analysis.
- Utilities diversions.

The Audit Team members were as follows:

Audit Team Leader

 Maria Rooney - BEng (Hons) Civil Eng., CEng., MIEI, Senior Engineer for Roads & Transportation, TOBIN. - TII Reference MR3384505

Audit Team Member

 Kevin Duffy- BEng (Hons) Civil Eng., MIEI. Design Engineer for Roads & Transportation, TOBIN, - TII Reference KD*364

This Stage 1 Audit has been carried out in accordance with the relevant sections of Transport Infrastructure Ireland Publication (Standards) "Road Safety Audit" GE-STY-01024 (December 2017). The team have examined and reported only on the road safety implications of the design submitted and has not examined or verified the compliance of the design to any other criteria. However, to clearly explain a problem or a recommendation, it may be necessary to refer to another Standard or Advice Note, but such reference will not conflict with the requirements of the above Terms of Reference.

The Design Team and Employer (Client) is reminded that the Road Safety Audit Feedback Form, in Appendix A-III shall be completed and returned to the Road Safety Audit Team Leader for sign off.

1.4 COLLISION DATA

Collision data has not been supplied with this scheme. Road Collision Data is not currently available on the Road Safety Authority Database, and therefore the audit team has no access to the historical collision information for this site and / or adjacent roads.

2. ITEMS RESULTING FROM THIS ROAD SAFETY AUDIT

2.1 PROBLEM

Right Turn Movements

The Audit Team observed onsite the existing environment along the R939 (Galway Road). The Audit Team are concerned about volume of traffic potentially turning right into the proposed estate. It may result in rear end collision(s) with stationary traffic wanting to turn right with approaching traffic.

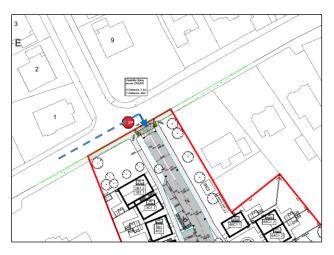


Figure 2-1 Right Turn Movement

Recommendation

The design team should ensure the planned traffic volumes don't require a queueing lane.

2.2 PROBLEM

Ramp Details

The Audit Team noted on the design drawings the proposed raised table crossing and kerbing detail. The Audit Team are concerned that the proposed ramp will commence out on the carriageway, due to required kerb and gradient standard. This may result in road users striking the ramp edge and directing them towards other vehicles resulting in a head on collision

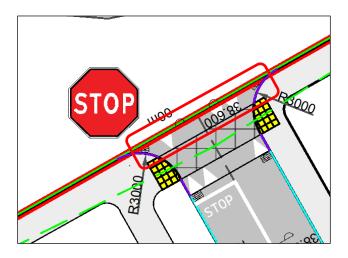


Figure 2-2 Ramp Details

Recommendation

The design team should ensure the proposed raised table crossing meet the required standards.

2.3 PROBLEM

Utilities

The Audit Team observed onsite existing utility/water metre in the footpath of the proposed access. The Audit Team is concerned that the underground utility/water metre hasn't been accounted for in the design teams proposed design. This may result in the utility cover becoming at trip hazard if not flush with the pavement resulting in potential slips or trips by Vulnerable Road Users .



Figure 2-3 Underground Utility

Recommendation

The design team should ensure all utilities are flush with the proposed works.

2.4 PROBLEM

Footpath Width

The Audit Team observed onsite the exiting footway width is approximately 1.6m. The Audit Team are concerned that the footpath is insufficient in width to allow vulnerable road users to pass two abreast. This may result in vulnerable road users entering the carriageway in order to pass one another. This may result in a collision between a vulnerable road user and a vehicle.



Figure 2-4 Footpath Width

Recommendation

The design team should ensure the footway width is as per standard.

2.5 PROBLEM

2.5.1 Visibility Envelope

Visibility Splay

The Audit Team noted on the design drawings the visibility splay, at the proposed access. The Audit Team is concerned that the visibility splay shown are for vehicles on the pedestrian crossing, not at the STOP line. Inadequate visibility may result in vehicles entering the carriageway with oncoming vehicles, which may result in a side swipe type collision.

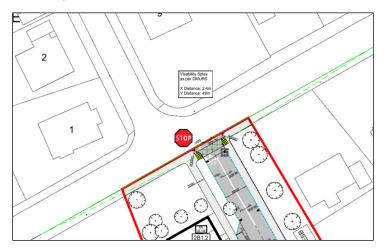


Figure 2-5 Visibility Splay

Recommendation

The design team should ensure visibility splay is provided as per standard.

2.5.2 Visibility Envelope

Visibility Splay - Warning Signage

The Audit Team observed onsite the location of the existing warning signage. The Audit Team are concerned that the high sided vehicles will have their visibility obstructed by the signage when exiting. Inadequate visibility may result in vehicles edging out into the carriageway, which may result in a side swipe type collision with approaching vehicles.

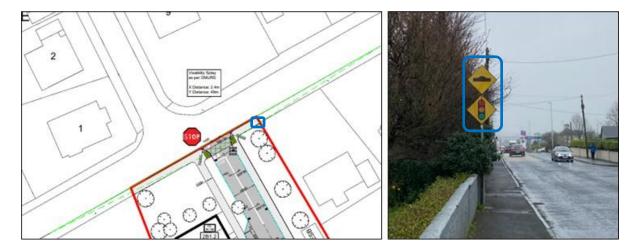


Figure 2-6 Visibility Envelope - Warning Signage

Recommendation

The design team should ensure the visibility envelope is clear form any obstructions.

3. OBSERVATION

3.1 OBSERVATION

Signpost

The Audit Team observed onsite a redundant post at the back of the footpath.



Figure 3-1 Signpost

3.2 OBSERVATION

Overhead Utility

The Audit Team observed onsite the overhead utility wires at the existing field access.

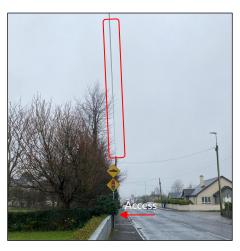


Figure 3-2 Overhead Utility

4. AUDIT TEAM STATEMENT

We certify that we have examined the design drawings and other information listed in the Appendices to this report and have carried out a desktop study. This examination has been carried out with the sole purpose of identifying any features of the scheme that can be removed or modified in order to improve the safety of the scheme. The problems that we have identified have been noted in this report, together with suggestions for improvement, which we recommend should be studied for implementation. We have not been involved with the scheme design.

AUDIT TEAM LEADER

Name: Maria Rooney Signed:

TII Reference: MR3384505 Date: 01/08/25

Position: Senior Engineer

Organisation: TOBIN

Address: Fairgreen House,

Fairgreen Road,

Galway.

AUDIT TEAM MEMBERS

Name: Kevin Duffy Signed: Main Manual Signed:

TII Reference: KD*364 Date: 01/08/25

Position: Design Engineer

Organisation: TOBIN

Address: Fairgreen House,

Fairgreen Road,

Galway.



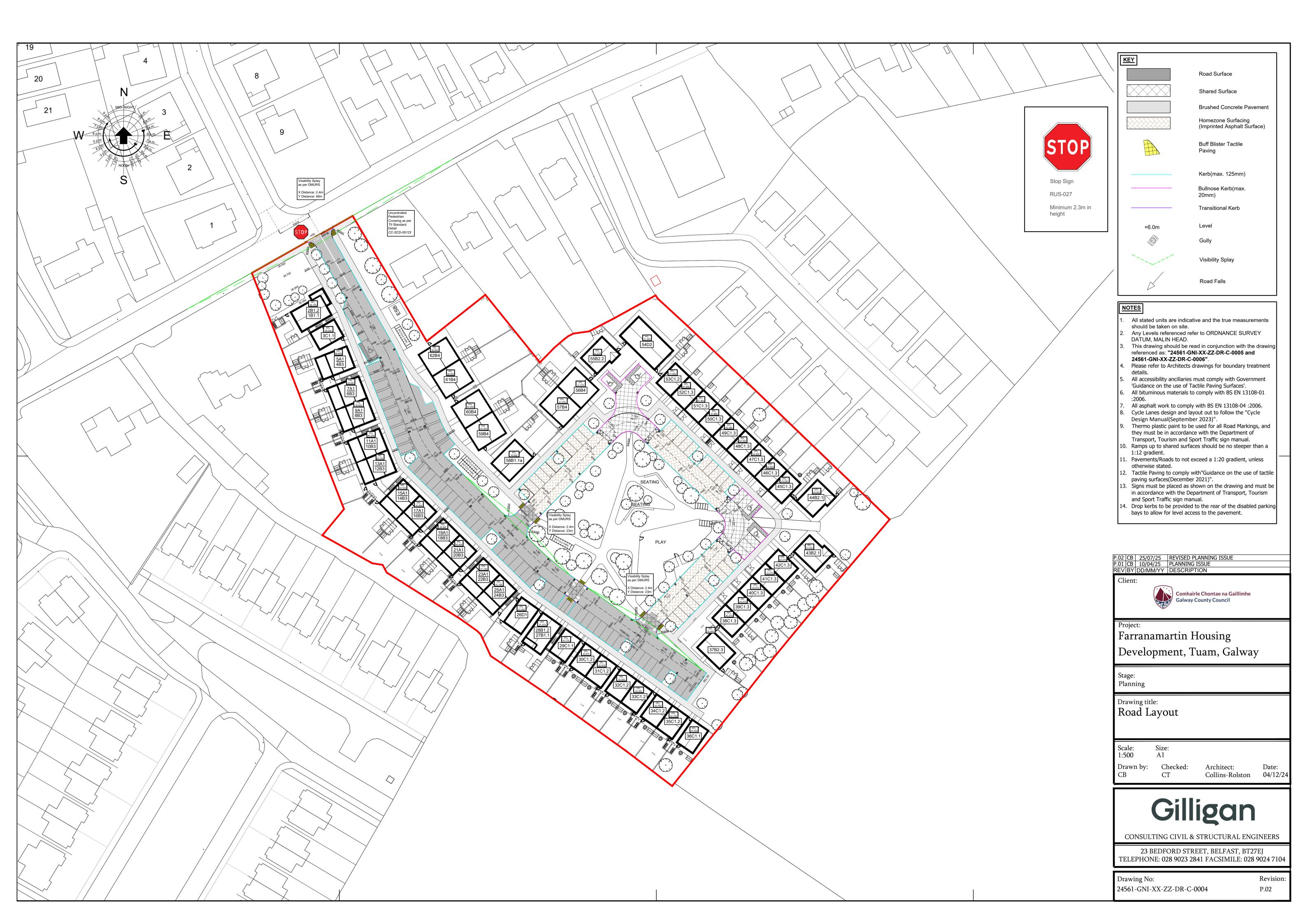
Appendix A-I LIST OF DOCUMENTS EXAMINED

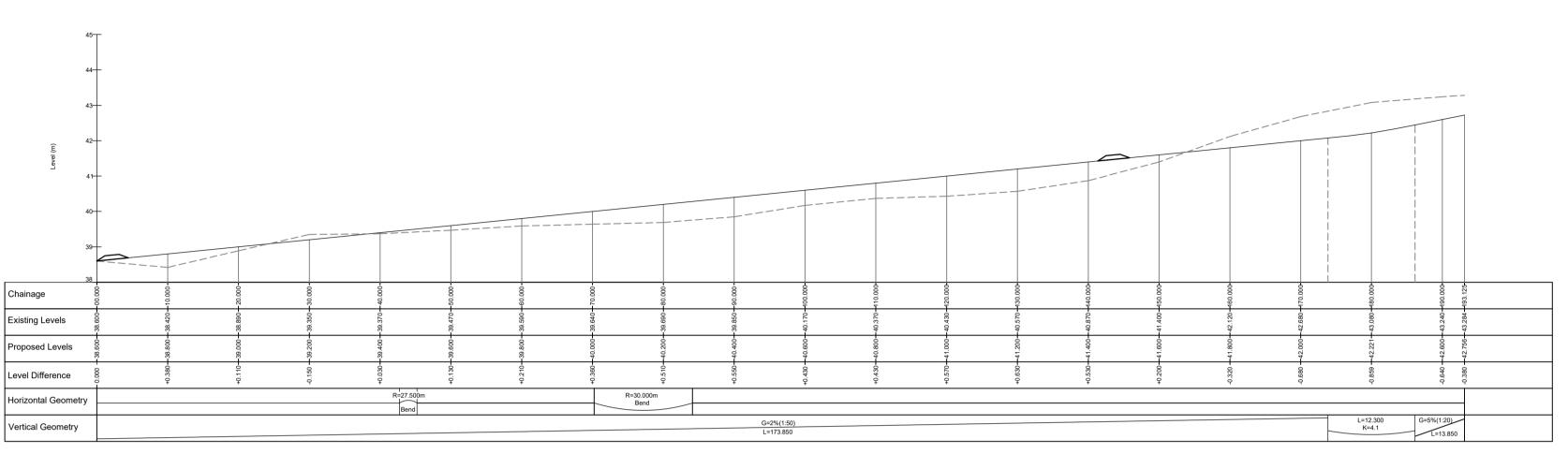
Road Layout - Rev P.02 24561-GNI-XX-ZZ-DR-C-0004

Road Long Section - Rev P.02 24561-GNI-XX-ZZ-DR-C-0005

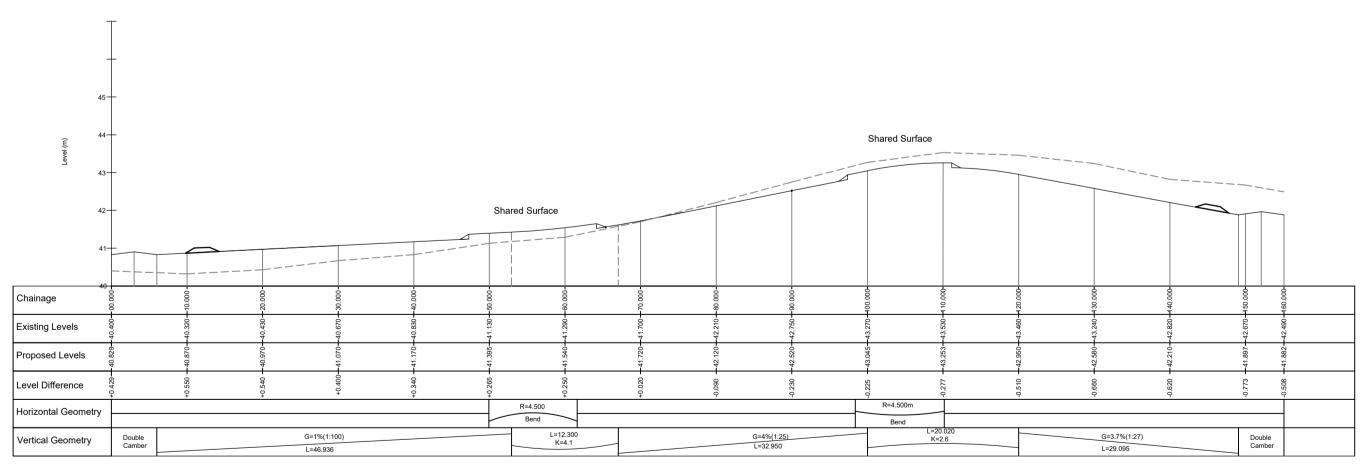
Road Construction Details - Rev P.02 24561-GNI-XX-ZZ-DR-C-0006





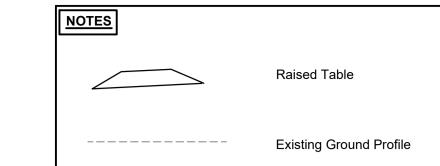


ROAD ALIGNMENT 1 - LONGSECTION



ROAD ALIGNMENT 2 - LONGSECTION

SCALE: H 1:500,V 1:100. DATUM: 40.000



NOTES

- All stated units are indicative and the true
- measurements should be taken on site. Any Levels referenced refer to ORDNANCE SURVEY DATUM, MALIN HEAD.
- This drawing should be read in conjunction with the drawing referenced as:
- "24561-GNI-XX-ZZ-DR-C-0004".
- Please refer to Architects drawings for boundary treatment details.
- All accessibility ancillaries must comply with Government 'Guidance on the use of Tactile Paving
- Surfaces'. All bituminous materials to comply with BS EN
- 13108-01 :2006.
- All asphalt work to comply with BS EN 13108-04:2006.
- Thermo plastic paint to be used for all Road Markings, and they must be in accordance with the Department
- of Transport, Tourism and Sport Traffic sign manual. Ramps up to shared surfaces should be no steeper
- than a 1:12 gradient. .0. Pavements/Roads to not exceed a 1:20 gradient, unless otherwise stated.
- . Tactile Paving to comply with "Guidance on the use of
- tactile paving surfaces(December 2021)". 2. Signs must be placed as shown on the drawing and
- must be in accordance with the Department of Transport, Tourism and Sport Traffic sign manual.
- 3. Drop kerbs to be provided to the rear of the disabled parking bays to allow for level access to the pavement.

P.02 CB 25/07/25 REVISED PLANNING ISSUE
P.01 CB 10/04/25 PLANNING ISSUE
REV BY DD/MM/YY DESCRIPTION

Client:



Farranamartin Housing Development, Tuam, Galway

Planning

Drawing title:
Road Long Section

Scale: Size: As Shown A1

Drawn by:

Checked:

Architect: Collins-Rolston 04/12/24

Date:

Revision:

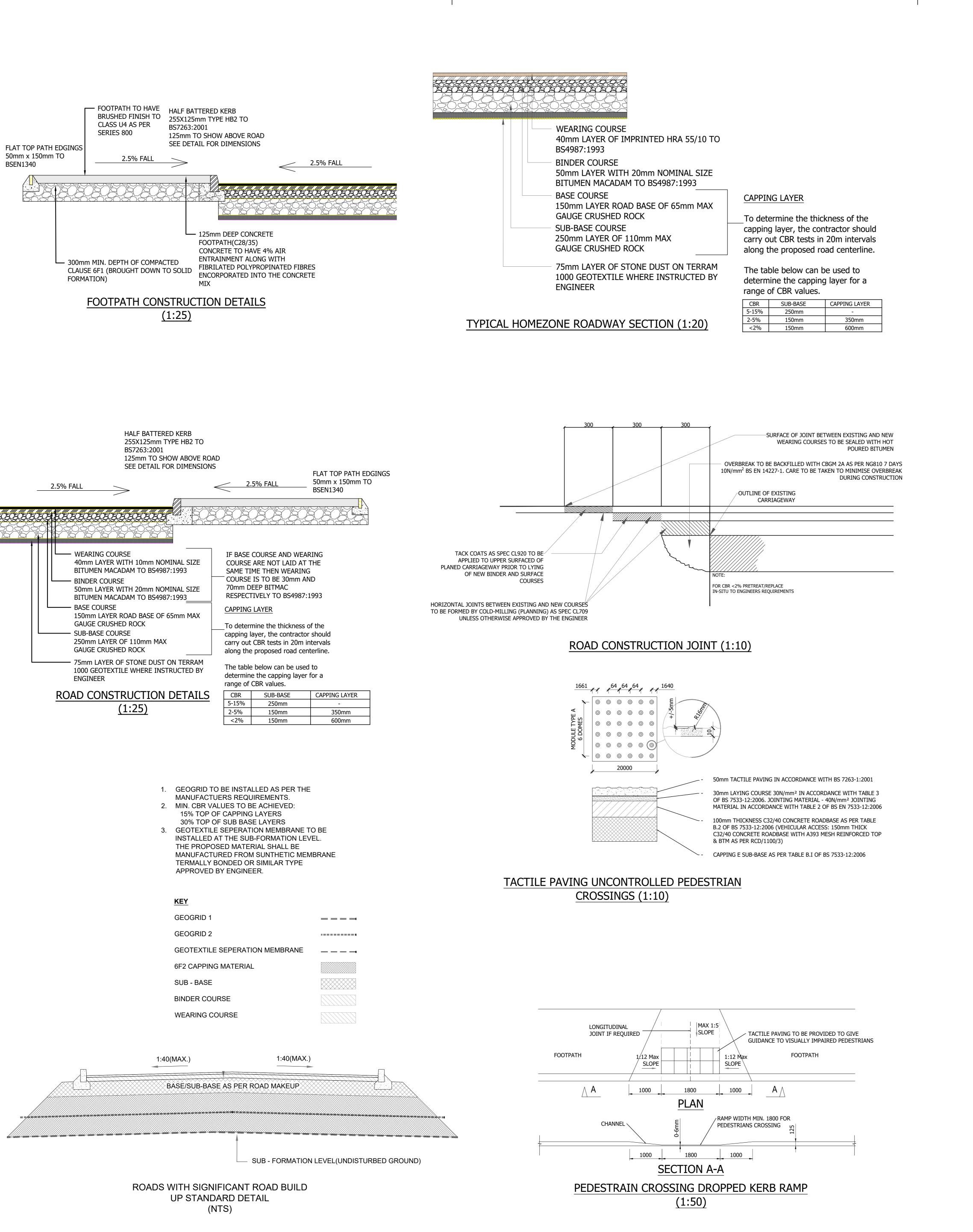
Gilligan

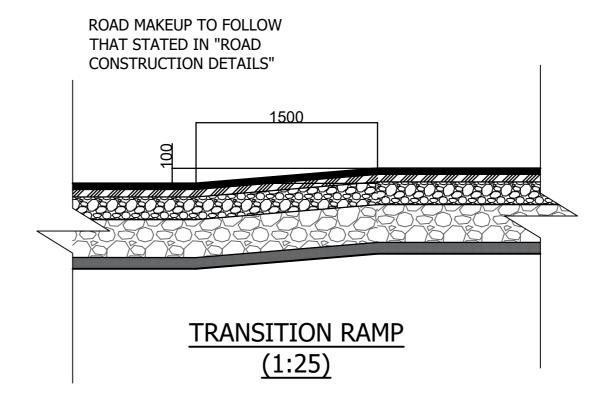
CONSULTING CIVIL & STRUCTURAL ENGINEERS

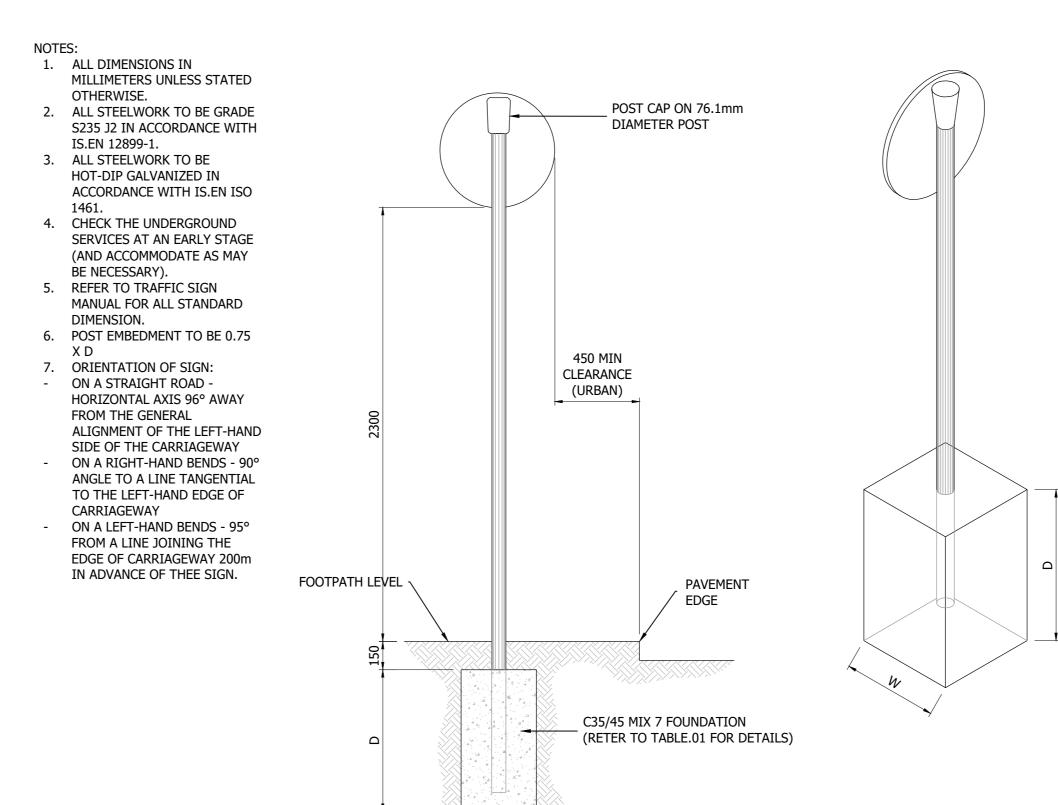
23 BEDFORD STREET, BELFAST, BT27EJ TELEPHONE: 028 9023 2841 FACSIMILE: 028 9024 7104

Drawing No: 24561-GNI-XX-ZZ-DR-C-0005

P.02

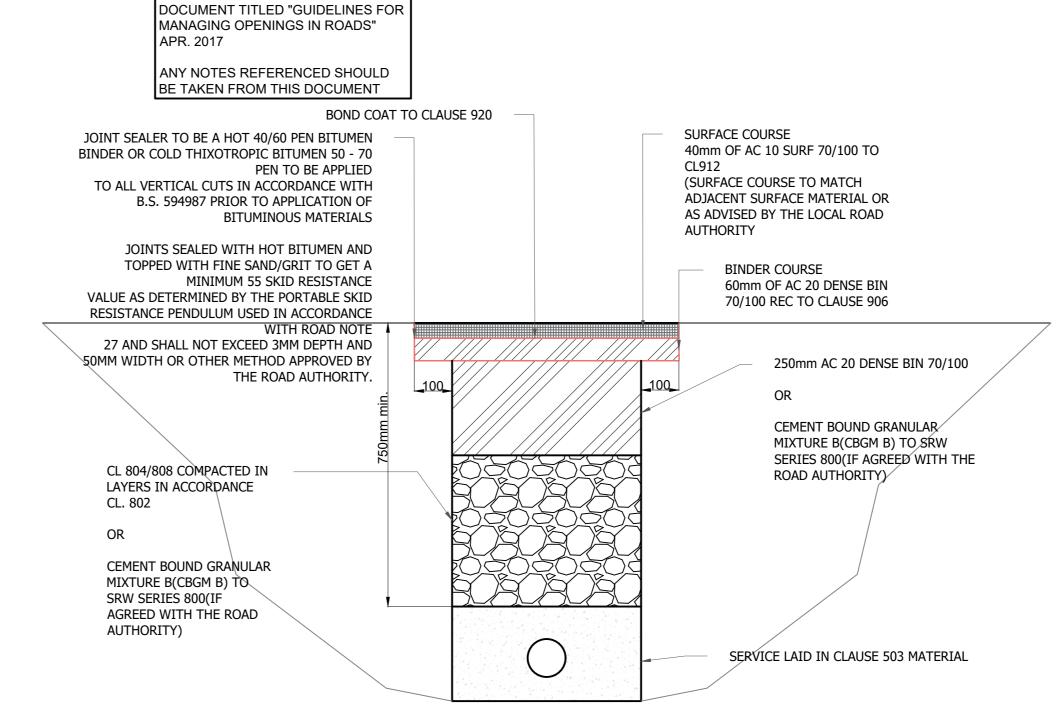






(1:20)TABLE.01 SUMMARY TRADITIONAL FOUNDATION | TRADITIONAL FOUNDATION | PLANTED FOUNDATION POST DETAILS OPTION 1 SIGN FACE AREA Ø | WALL THICKNESS | TYPE L W [≤0.283 m² (Ø600mm) CHS 0.75 | 0.40 | 0.55 0.55 | 0.55 | 0.55 0.40 0.50 3.2 CHS 0.283 \(AREA \(\le 0.5625 m^2 \) 0.75 | 0.65 | 0.65 0.70 | 0.70 | 0.70 0.40 0.65 3.2 (BETWEEN 600Ø & 750x750) CHS 0.5625≤AREA≤1.189m² 1.00 0.75 0.50 0.80 | 0.80 | 0.80 0.40 0.75 3.2 (750X750 TO 940x1265m²)

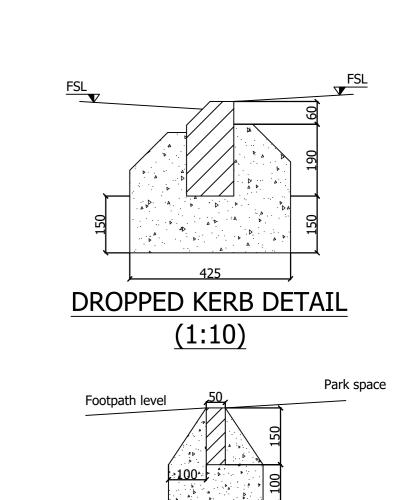
TRAFFIC SIGN (SINGLE POST)

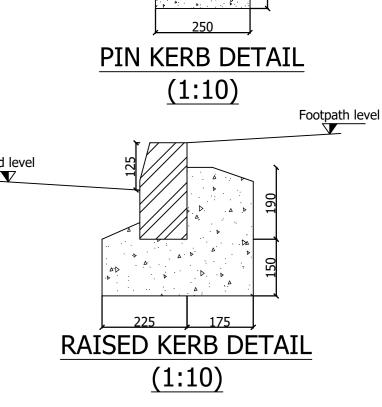


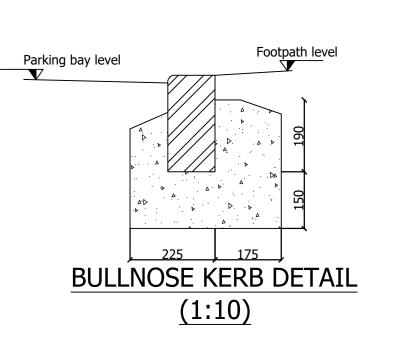
STANDARD DETAIL SD4 WITHIN THE

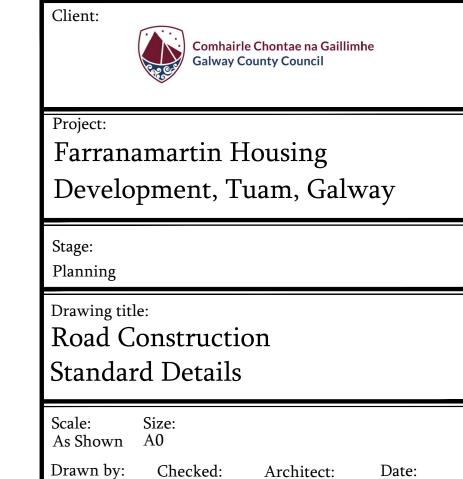
TYPICAL SERVICE REINSTATEMENT DETAIL WITHIN AN ASPHALT ROAD
(1:10)

All stated units are indicative and the true measurements should be taken on site. Any Levels referenced refer to ORDNANCE SURVEY DATUM, MALIN HEAD. This drawing should be read in conjunction with the drawin referenced as: "24561-GNI-XX-ZZ-DR-C-0004". Please refer to Architects drawings for boundary treatment All accessibility ancillaries must comply with Government 'Guidance on the use of Tactile Paving Surfaces'. All bituminous materials to comply with BS EN 13108-01 All asphalt work to comply with BS EN 13108-04:2006. Thermo plastic paint to be used for all Road Markings, and they must be in accordance with the Department of Transport, Tourism and Sport Traffic sign manual. Ramps up to shared surfaces should be no steeper than a). Pavements/Roads to not exceed a 1:20 gradient, unless otherwise stated. Tactile Paving to comply with "Guidance on the use of tactile paving surfaces(December 2021)". Signs must be placed as shown on the drawing and must be in accordance with the Department of Transport, Tourism and Sport Traffic sign manual. 3. Drop kerbs to be provided to the rear of the disabled parking bays to allow for level access to the pavement.









P.02 CB 25/07/25 REVISED PLANNING ISSUE P.01 CB 10/04/25 PLANNING ISSUE REV BY DD/MM/YY DESCRIPTION

Gilligan

Collins-Rolston 05/02/2025

CONSULTING CIVIL & STRUCTURAL ENGINEERS
23 BEDFORD STREET, BELFAST, BT27EJ

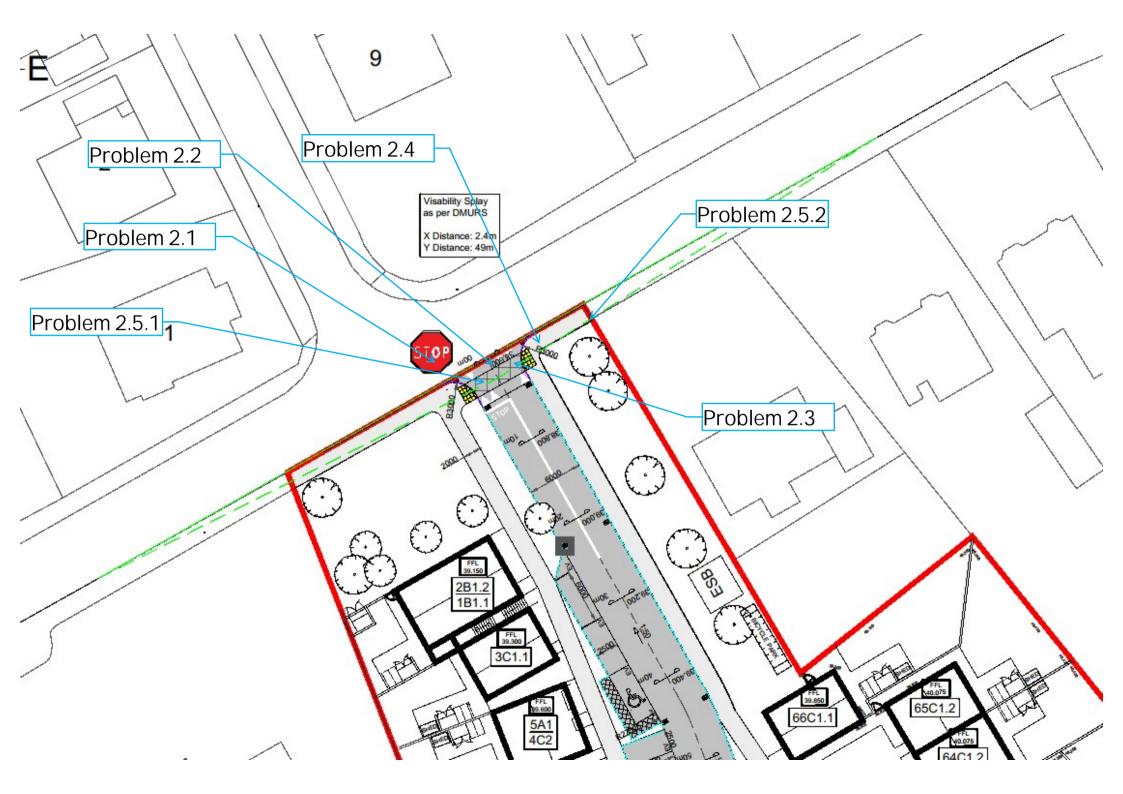
ELEPHONE: 028 9023 2841 FACSIMILE: 028 9024 7104

Drawing No: Revision: 24561-GNI-XX-ZZ-C-0006 P.02

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Appendix A-II PROBLEM MAP





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Appendix A-III FEEDBACK FORM

| Road Safety Audit Feedback Form | | | | | | |
|---|------------|---------------------------|--|--|--|--|
| Scheme: Farranamartin, Tuam - New Housing Estate Access | | | | | | |
| Audit Stage: 1 | Route R939 | Date of Audit: 27/03/2025 | | | | |

| | To Be Completed by Audit Team Leader | | | |
|--|---|--|---|--|
| Paragraph No. in Safety Audit Report | Problem accepted (yes/no) | Recommended Measures Accepted (yes /no) | Alternative Measures (describe). Give reason for not accepting recommended measure | Alternative Measures or reasons accepted by auditors (yes /no) |
| 2.1 | YES | NO | TTA is being completed for the site. In receipt of the TTA, discussions will be had with GCC in relation to this. | Yes |
| 2.2 | YES | NO | Alternatively, a standard pedestrian crossing is to be put in here at the junction in accordance with CC-SCD-05123. | Yes |
| 2.3 | YES | YES | | |
| 2.4 | YES | NO | Footpath within the site, along the Galway Road will be 2.0m wide. GCC have been informed and made aware of the slimer footpath provision outside of the site boundary. | Yes |
| 2.5.1 | YES | YES | | |
| 2.5.2 | YES | YES | | |

| Signed: | Conall Browne | Designer | Conall Browne - Gilligan | Date: | 11/04/2025 |
|---------|---------------|-------------------|--|-------|------------|
| Signed: | Inthre Meny | Client | Eithne Murphy – Galway County Council | Date: | 11/04/2025 |
| Signed: | Hadia Rooney. | Audit Team Leader | Maria Rooney - TOBIN | Date: | 01/08/2025 |

