

AtkinsRéalis



Stage 3 Road Safety Audit

City of Edinburgh Council

April 2024
8003_867

CORSTORPHINE CONNECTIONS – PHASE 2

Notice

This document and its contents have been prepared and are intended solely as information for City of Edinburgh Council and use in relation to the footway and carriageway amendments across south Corstorphine, Edinburgh .

AtkinsRéalis assumes no responsibility to any other party in respect of or arising out of or in connection with this document and/or its contents.

This document has 26 pages including the cover.

Document history

Document title: Corstorphine Connections Phase 2 - Stage 3 Road Safety Audit

Document reference: 8003_867

| Revision | Purpose description | Originated | Checked | Reviewed | Authorised | Date |
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| 1.0 | For Issue | | | | | 24/04/2024 |
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Project Detail

| | |
|-------------------------|------------------------------------|
| Client | City of Edinburgh Council |
| Client Reference | RSA/21/045c |
| Project | Corstorphine Connections – Phase 2 |
| Job number | 5222088 |



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INTRODUCTION

1. Introduction

1.1 Project details

| | |
|----------------------------------|---|
| Report Title: | Corstorphine Connections – Phase 2 Stage 3 Road Safety Audit |
| Date: | April 2024 |
| Document Reference and Revision: | 8003_867 |
| Prepared by: | AtkinsRéalís |
| Overseeing Organisation: | City of Edinburgh Council |

AtkinsRéalís has been commissioned by City of Edinburgh Council (CEC) to undertake a stage 3 road safety audit (RSA) on the footway and carriageway amendments across south Corstorphine, Edinburgh. This report documents the outcome of the RSA in the form of identified road safety problems and associated recommendations.

A combined stage 1 and 2 RSA has been previously undertaken on the scheme in September 2023 by AtkinsRéalís (formerly known as Atkins).

1.2 Terms of reference

The RSA has been conducted in accordance with GG 119 Road safety audit, in the Design Manual for Roads and Bridges subject to the exceptions noted in Section 1.7 of this audit report. The RSA team has examined and reported only on the road safety implications of the highway scheme proposals and has not examined or verified the compliance of the designs to any other criteria. Where there are issues that may be of interest to the design organisation, but not necessarily within the scope of the RSA, these have been provided to the Overseeing Organisation separately.

In addition to GG 119, this RSA has been informed by the RSA brief prepared by [REDACTED] of [REDACTED] and approved by [REDACTED] of [REDACTED].

1.3 RSA team

The RSA team, as approved by [REDACTED] of [REDACTED], was as follows:

| | |
|------------|--|
| [REDACTED] | [REDACTED] RSA Team Leader, AtkinsRéalís Transportation |
| [REDACTED] | [REDACTED] RSA Team Member, AtkinsRéalís Transportation (Certificate of Competency in RSA, 2017) |

The RSA Team Leader held a Microsoft Teams meeting with PC Stewart Sinclair to ascertain if Police Scotland had any concerns regarding the scheme. This meeting took place on 24 April 2024, and PC Sinclair raised no additional concerns.

1.4 Site visit

The RSA comprised a desktop review of the information provided and a site visit, undertaken during daylight hours on 9th April 2024 between 18:15 and 19:15 with both members of the RSA team in attendance. During the site visit the road surface was dry and the weather was fine. Traffic was free flowing with no congestion evident. Pedestrian levels were moderate and cycling levels were low.

A further site visit was undertaken during the hours of darkness on 9th April 2024 between 22:00 and 22:35. During the site visit the road surface was dry, the weather was fine. Traffic levels were low with no congestion evident. Pedestrian and cycle levels were low.

1.5 Scope

This RSA reviews the permanent footway and carriageway amendments introduced to provide a safer and more attractive walking and cycling environment across the area of south Corstorphine in west Edinburgh. The scheme forms Phase 2 of the Corstorphine Connections project which relates to the trialling of a low traffic neighbourhood.

The streets included in Phase 2 of the project and this RSA are:

- Ladywell Road
- Corstorphine High Street
- Manse Road
- Saughton Road North
- Kirk Loan
- Dovecot Road
- Manse Street
- Featherhall Avenue
- Featherhall Terrace
- Tyler's Acre Avenue
- Lampacre Road
- Carrick Knowe Gardens
- Station Road
- Corstorphine Park Gardens
- St Johns Road

The above streets are subject to a posted 20mph speed limit, with street lighting and footways provided. The area comprises residential properties, two primary schools, parks and a variety of shops and amenities.

The measures include:

- footway widening and buildouts;
- pedestrian crossing infrastructure including dropped kerbs and tactile paving;
- parking restrictions;
- cycle stand installation;
- refuge island amendments and installation; and
- associated road marking and sign installation.



1.6 Report outline

Section 2 of this report documents any outstanding issues identified from previous Audit Reports and Section 3 documents the findings of the current RSA stage. Section 4 comprises the RSA team statement.

Details of the information provided about the scheme are included in Appendix A and the problems and recommendation locations for the current RSA stage are shown on the plan included in Appendix B.

1.7 Notes and clarifications

The recommendations included within this report should not be regarded as being prescriptive design solutions to the problems raised. They are intended only to indicate a proportionate and viable means of eliminating or mitigating the identified problem; alternative methods should be considered by the design organisation. GG 119 provides requirements and advice on the process for responding to this RSA report including the production and agreement of a separate RSA response report. The RSA response report provides the full audit trail of decision making at each stage of the process and captures the changes made as a result of the recommendations made here.

At the time of the site visit, school street signage was in place at Manse Street, and not at Featherhall Road or Lampacre Road. The speed cushions proposed at Corstorphine High Street, east of Ladywell Avenue were not installed.



ITEMS OUTSTANDING FROM PREVIOUS AUDITS

2. Items outstanding from previous audits

After examination of the previous Combined Stage 1 and 2 RSA Report, issued in September 2023 and the associated Response Report, no outstanding issues have been identified.



ITEMS RAISED AT THIS STAGE 3 RSA

3. Items raised at this Stage 3 RSA

This section details the items raised in this stage 3 RSA.

| | |
|---------------------|--|
| Problem: | 3.1 |
| Location(s): | Scheme extents |
| Drawing(s): | 60636731-SHT-C-P2-LTN-0701 to 0706 |
| Summary: | Surface water may result in slips and falls. |



Ladywell Avenue

Tyler's Acre Gardens

Description:

During the site visit, pooling water was observed at several amended crossing facilities, examples of which are pictured above. Standing water increases the risk of crossing pedestrians sustaining an injury from slips and falls. These risks are exacerbated during colder temperatures when water can form ice.

Recommendation:

It is recommended that positive drainage is provided across the scheme extents.



| | | |
|---------------------|--|--|
| Problem: | 3.2 | |
| Location(s): | Saughton Road North – between Roull Road and Broomfield Crescent |  |
| Drawing(s): | 60636731-SHT-C-P2-LTN-0703 | |
| Summary: | Risk of pedestrians striking refuge island beacons. | |

Description:

The beacons installed at the two upgraded refuge islands are located within the tactile paved pedestrian crossing area. Pedestrians using the crossing, particularly those with visual impairments who are following the alignment of the tactile paving, could walk into the beacons resulting in injury.

Furthermore, the beacons reduce the effective width and storage space of the refuge islands. As a result, they may prevent multiple users, those with prams and/or wheelchairs from being able to simultaneously congregate whilst crossing the carriageway. This increases the risk of pedestrians standing within the carriageway, increasing the risk of collision.

Recommendation:

It is recommended that the beacons are relocated to the kerbed island areas of the refuges.



| | | |
|---------------------|--|--|
| Problem: | 3.3 | |
| Location(s): | Corstorphine High School – opposite primary school |  |
| Drawing(s): | 60636731-SHT-C-P2-LTN-0701 | |
| Summary: | Restricted visibility could result in collisions between pedestrians and vehicles. | |

Description:

It was observed on site that visi-rail on the west side of the crossing facility has been installed incorrectly. Consequently, the visi-rail restricts driver / pedestrian intervisibility on approach to the crossing facility. This increases the likelihood of pedestrian and vehicle collisions should a pedestrian inadvertently enter the carriageway, or a vehicle fail to obey a red signal. The risk is exacerbated due to the positioning of the school gate behind the visi-rail and increased volumes of school aged pedestrians at this location.

Recommendation:

It is recommended that the visi-rail is reinstalled at the correct orientation.



RSA TEAM STATEMENT

4. RSA Team Statement

We certify that this road safety audit has been carried out in accordance with GG 119.

AUDIT TEAM LEADER:

Name: [REDACTED]
[REDACTED]

Position: Engineer
Organisation: AtkinsRéalis

Signed: [REDACTED]

Date: 24/04/2024

AUDIT TEAM MEMBER:

Name: [REDACTED]
[REDACTED]

Position: Associate
Organisation: AtkinsRéalis

Signed: [REDACTED]

Date: 24/04/2024



| Road Safety Audit Response | | RSA File Ref | 8003_867 | | |
|-----------------------------------|--|---|--|----------------------------------|----------------------------------|
| PROJECT DETAILS | | | | | |
| Report Title | Corstorphine Connections - Phase 2 - Stage 3 RSA | | | | |
| PREPARED BY | | | | | |
| Name | | | Date | 10/05/2024 | |
| Position | Senior Engineer | | | | |
| Organisation | AECOM | | | | |
| Signed | | | | | |
| APPROVED BY | | | | | |
| Name | | | Date | 10/05/2024 | |
| Position | Regional Director | | | | |
| Organisation | AECOM | | | | |
| Signed | | | | | |
| RSA DECISION LOG | | | | | |
| | RSA Problem | RSA Recommendation | Design Organisation Response | Overseeing Organisation Response | Agreed RSA Action |
| 3.1 | Surface water may result in slips and falls | It is recommended that positive drainage is provided across the scheme extents. | Problem noted and accepted. Issue to be investigated and consider solutions to remedy any surface water ponding where it may occur across the scheme. | Agree with designer response | Action as per designers response |
| 3.2 | Risk of pedestrians striking refuge island beacons | It is recommended that the beacons are relocated to the kerbed island areas of the refuges. | Problem noted and accepted - Contractor to remove line of tactiles within beacon over the full crossing length. Council standard is for refuge lighting columns to be within the carriageway footprint rather than on islands. | Agree with designer response | Action as per designers response |
| 3.3 | Restricted visibility could result in collisions between pedestrians and vehicles. | It is recommended that the visi-rail is reinstalled at the correct orientation. | Problem noted and accepted - Contractor to re-orientate visirail. | Agree with designer response | Action as per designers response |



| DESIGN ORGANISATION STATEMENT | | | |
|--|---------------------------------------|------|------------|
| On behalf of the design organisation I certify that: | | | |
| 1) the RSA actions identified in response to the road safety audit problems in the road safety audit have been discussed and agreed with the Overseeing Organisation. | | | |
| Name | | Date | 22/05/2024 |
| Position | Regional Director | | |
| Organisation | Aecom | | |
| Signed | | | |
| OVERSEEING ORGANISATION STATEMENT | | | |
| On behalf of the Overseeing Organisation I certify that: | | | |
| 1) the RSA actions identified in response to the road safety audit problems in the road safety audit have been discussed and agreed with the design organisation; and | | | |
| 2) the agreed RSA actions will be progressed. | | | |
| Name | | Date | 21/05/2024 |
| Position | Senior Project Manager, Active Travel | | |
| Organisation | City of Edinburgh Council | | |
| Signed | | | |



APPENDICES

Appendix A. Drawings and documents

A.1 Drawings

| Reference | Description | Revision | Date |
|---|------------------------------|----------|------------|
| 60636731-SHT-C-P2-LTN-0101 | Overview | - | 02/06/2023 |
| 60636731-SHT-C-P2-LTN-0201to0206 | Site Clearance | - | 02/06/2023 |
| 60636731-SHT-C-P2-LTN-0501to0506 | Drainage | - | 02/06/2023 |
| 60636731-SHT-C-P2-LTN-0701to0706 | General Arrangement Drawings | - | 02/06/2023 |
| 60636731-SHT-C-P2-LTN-0708to0713 | Setting Out | - | 02/06/2023 |
| 60636731-SHT-C-P2-LTN-0715to0720 | Construction Areas | - | 02/06/2023 |
| 60636731-SHT-C-P2-LTN-0901to0902 | Construction Details | - | 02/06/2023 |
| 60636731-SHT-C-P2-LTN-1201to1206 | Road Markings and Signage | - | 02/06/2023 |
| 60636731-SHT-C-P2-LTN-1208 | Sign Schedule | - | 02/06/2023 |
| CCLTN_Lighting design pack - Updated_V2.0 | Lighting works | - | Sep-2023 |

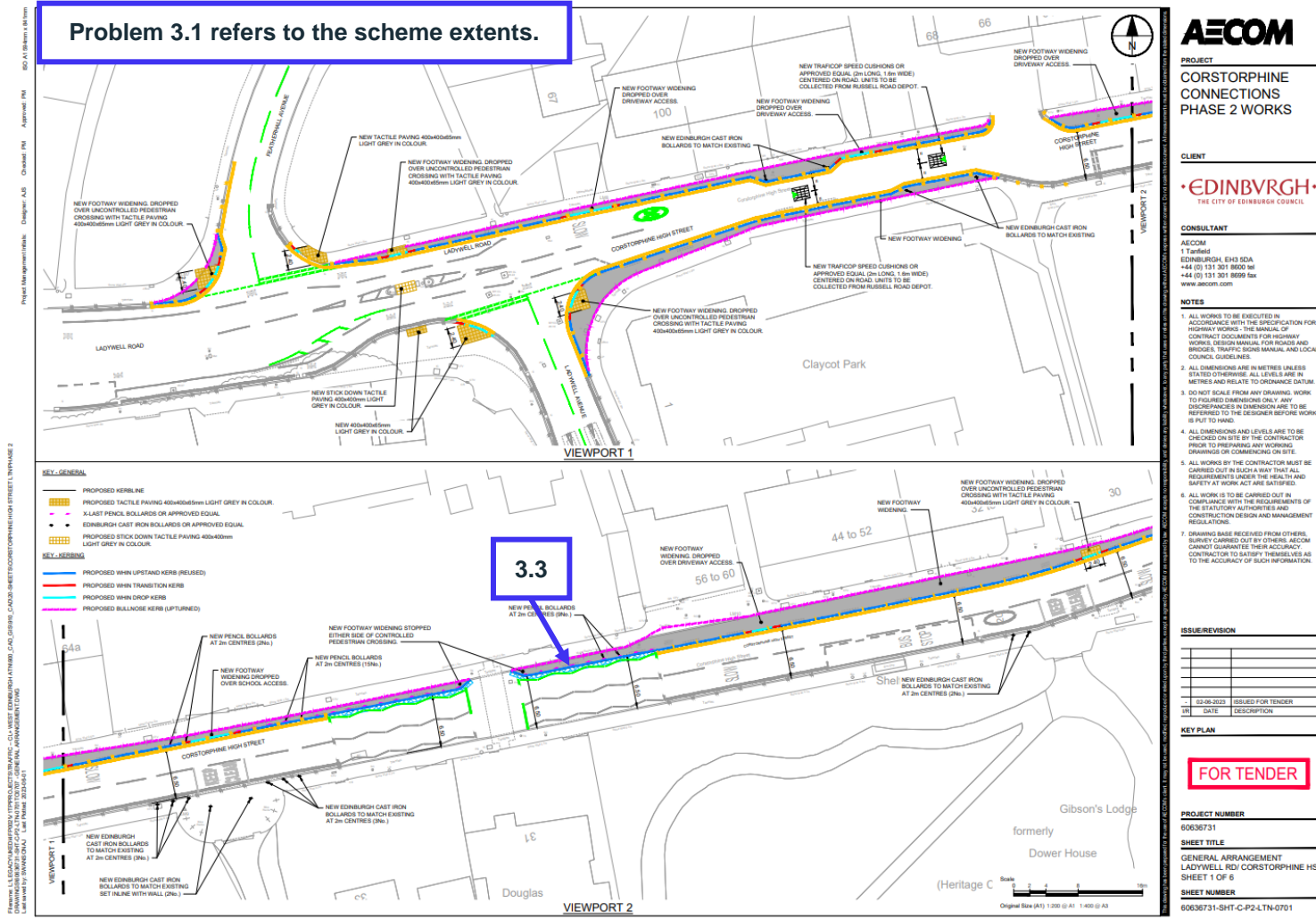
A.2 Documents

| Type | Description | Revision | Date |
|---------------|--|----------|-----------|
| RSA Brief | Corstorphine Connections - Phase 2 RSA/21/045c | - | - |
| Previous RSA | Stage 1 and 2 RSA and Response Report | - | Sept-2023 |
| Accident Data | Corstorphine Connections Accident Data | - | June-2023 |



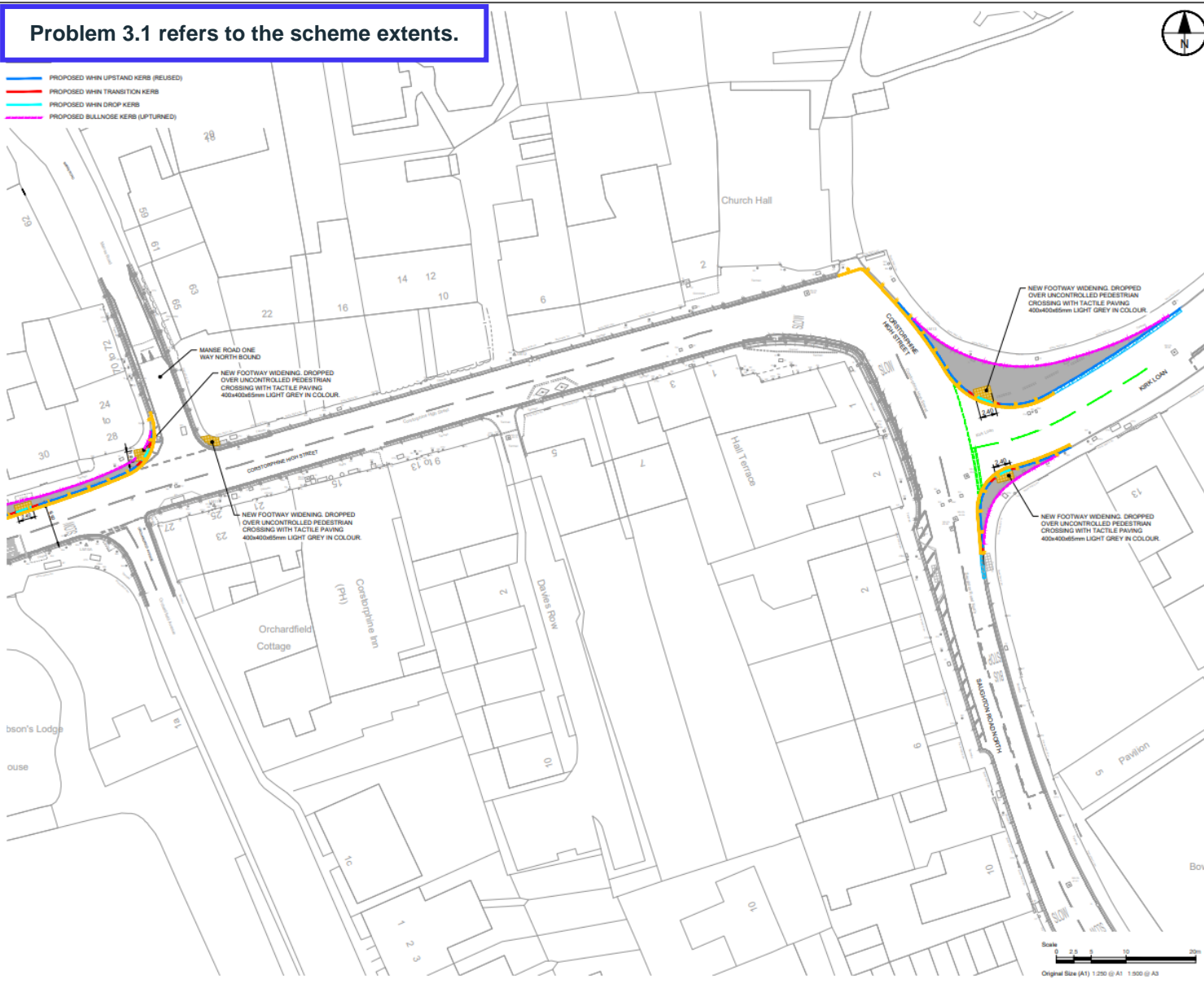
Appendix B. Location of problems

Note: Locations of problems and associated recommendations are approximate only.



Problem 3.1 refers to the scheme extents.

- PROPOSED WHN UPSTAND KERB (REUSED)
- PROPOSED WHN TRANSITION KERB
- PROPOSED WHN DROP KERB
- PROPOSED BULLNOSE KERB (UPTURNED)



PROJECT
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| NO. | DATE | DESCRIPTION |
|-----|------------|-------------------|
| 1 | 02-06-2023 | ISSUED FOR TENDER |

KEY PLAN

FOR TENDER

PROJECT NUMBER
 60636731

SHEET TITLE
 GENERAL ARRANGEMENT
 CORSTORPHINE HS/ KIRK LOAN
 SHEET 2 OF 6

SHEET NUMBER
 60636731-SHT-C-P2-LTN-0702

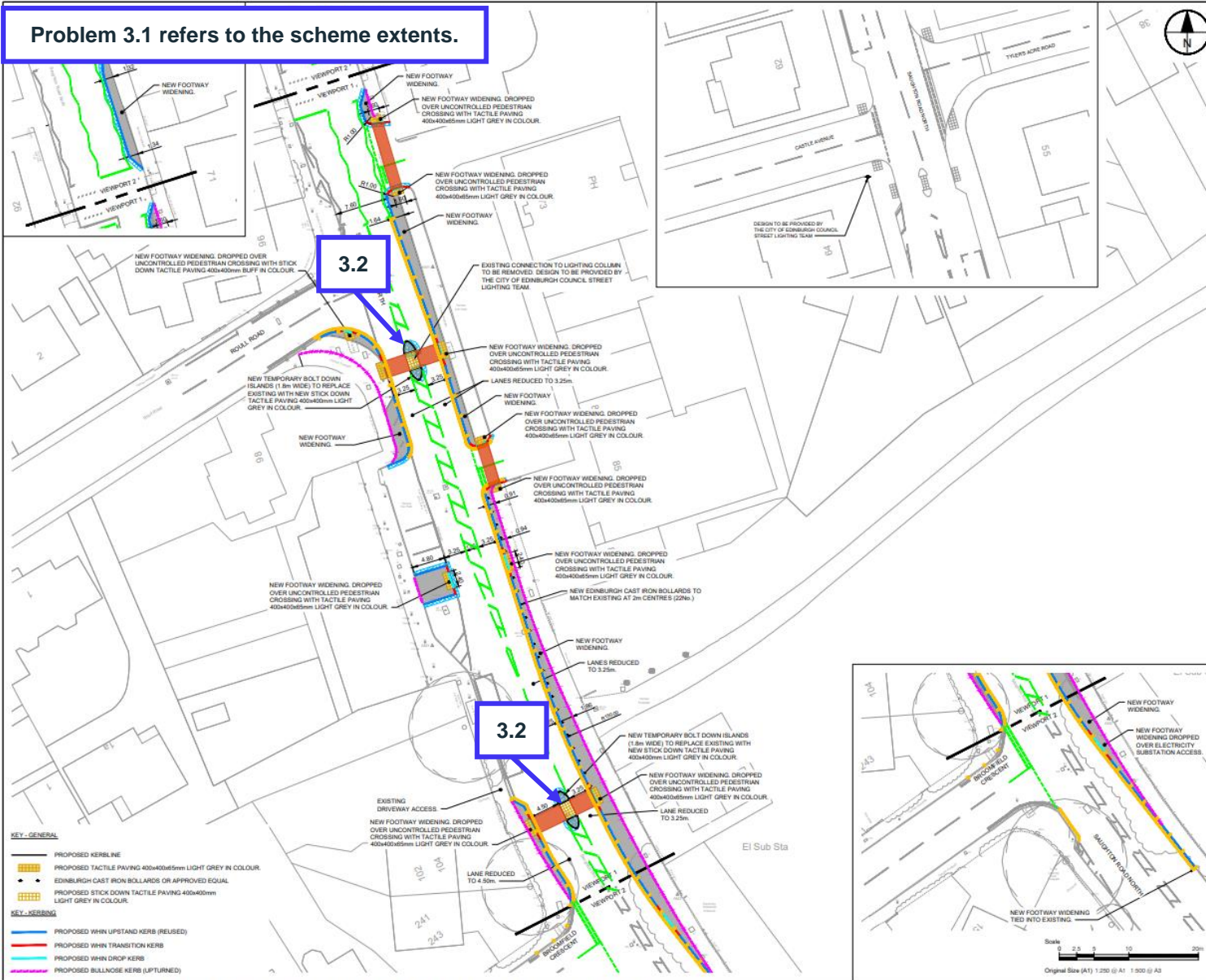
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 CHECKED BY: 60636731-SHT-C-P2-LTN-0702-0701-GENERAL ARRANGEMENT
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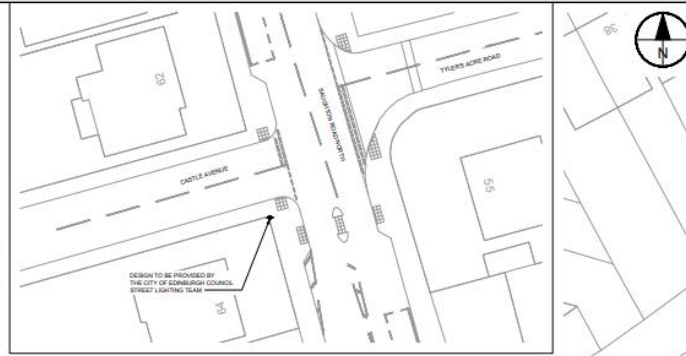
Problem 3.1 refers to the scheme extents.

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 Created by: 2024/04/24 10:54:00



- KEY - GENERAL**
- PROPOSED KERBLINE
 - PROPOSED TACTILE PAVING 400x400x55mm LIGHT GREY IN COLOUR
 - EDINBURGH CAST IRON BOLLARDS OR APPROVED EQUAL
 - PROPOSED STICK DOWN TACTILE PAVING 400x400mm LIGHT GREY IN COLOUR
- KEY - KERBS**
- PROPOSED WHN UPSTAND KERB (REUSED)
 - PROPOSED WHN TRANSITION KERB
 - PROPOSED WHN DROP KERB
 - PROPOSED BULLNOSE KERBS (LIFTURINED)

BASED UPON THE ORDINANCE SURVEY MAPPING WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE (S) DRAWN COPY FROM: LICENSE NO. AL 10895285. ALL LOCATION IMAGES SOURCED FROM GOOGLE MAPS.



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| 1 | 02-08-2023 | ISSUED FOR TENDER |

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PROJECT NUMBER
60636731

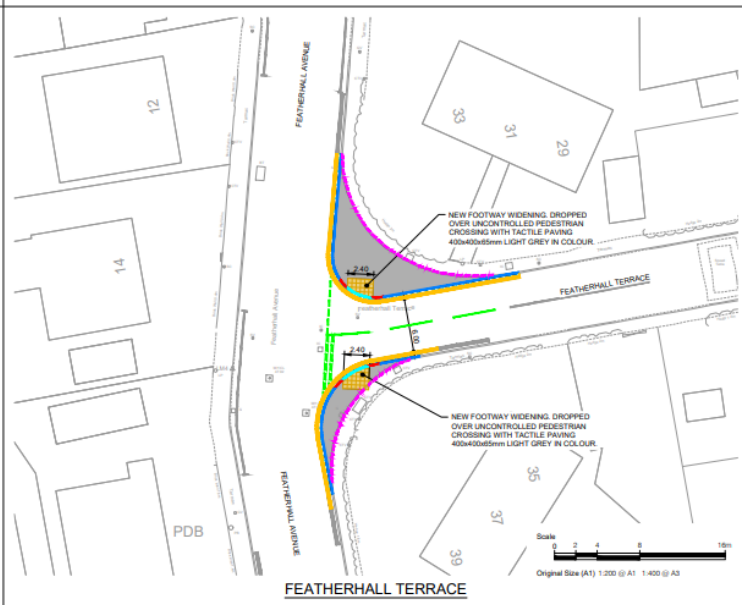
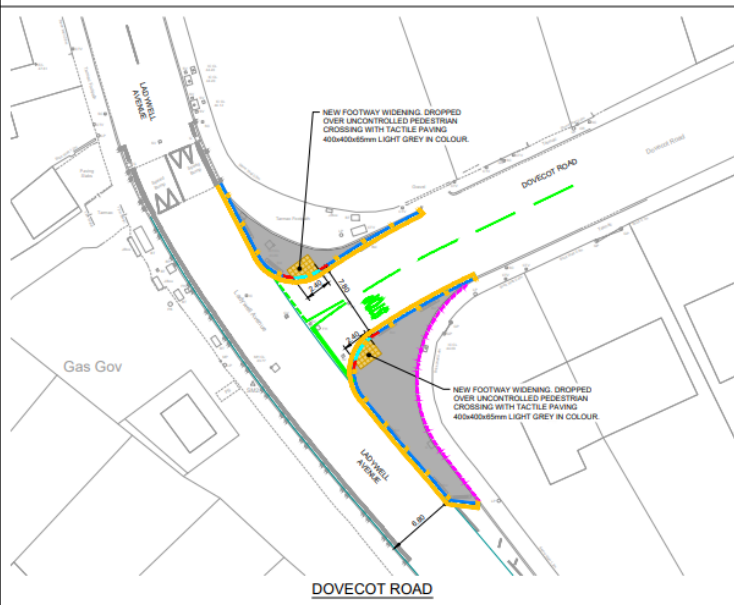
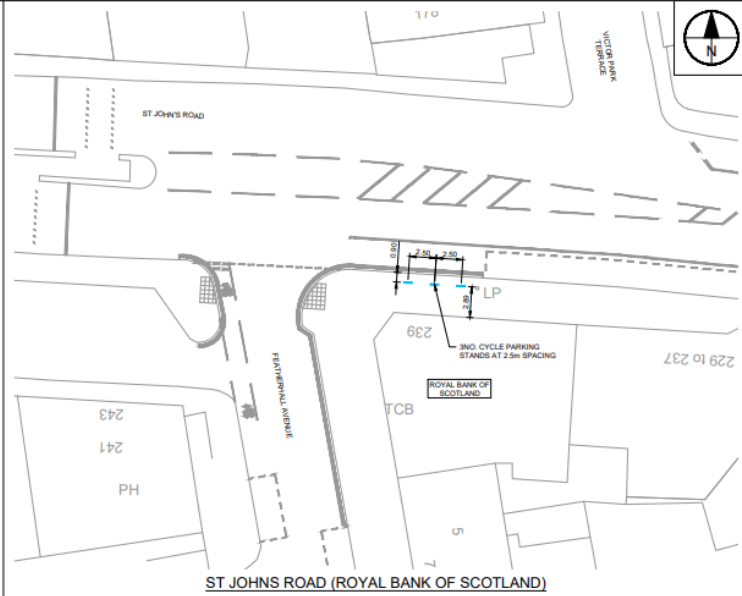
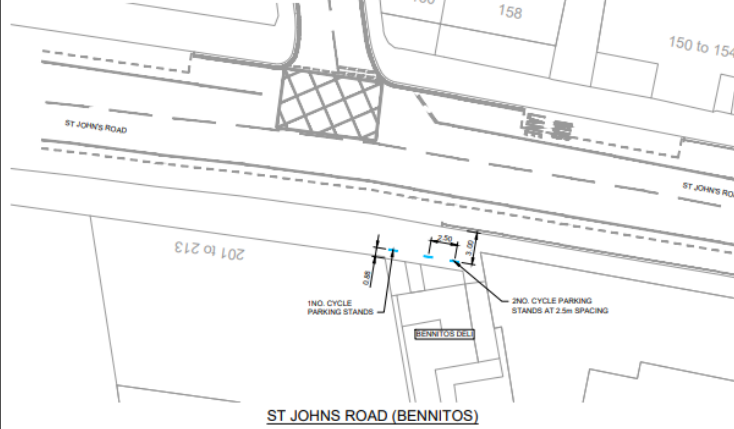
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GENERAL ARRANGEMENT SAUGHTON ROAD NORTH SHEET 3 OF 6

SHEET NUMBER
60636731-SHT-C-P2-LTN-0703



Problem 3.1 refers to the scheme extents.

- KEY - KERBS**
- PROPOSED WHN UPSTAND KERB (REUSED)
 - PROPOSED WHN TRANSITION KERB
 - PROPOSED WHN DROP KERB
 - PROPOSED BULLNOSE KERB (LIFTURNED)



AECOM

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| - | 02-08-2023 | ISSUED FOR TENDER |

KEY PLAN

FOR TENDER

PROJECT NUMBER
60636731

SHEET TITLE
GENERAL ARRANGEMENT
LADYWELL AVE/ FEATHERHALL TER
SHEET 4 OF 6

SHEET NUMBER
60636731-SHT-C-P2-LTN-0704

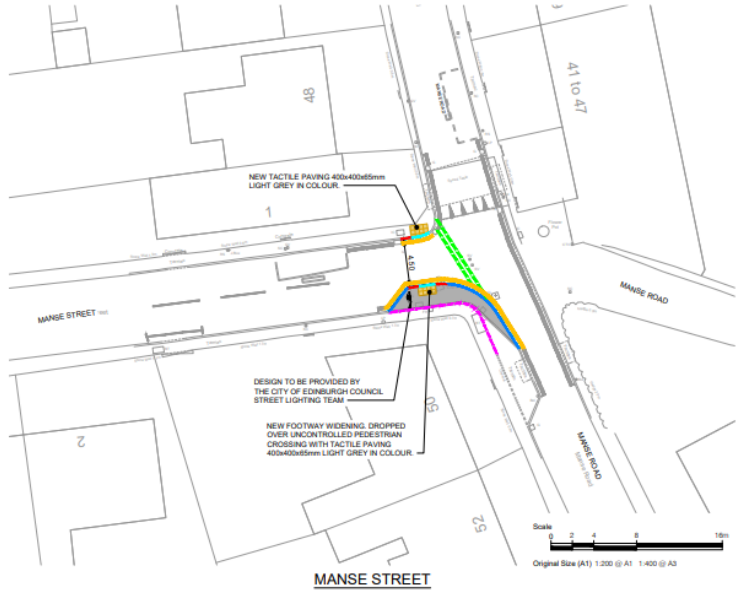
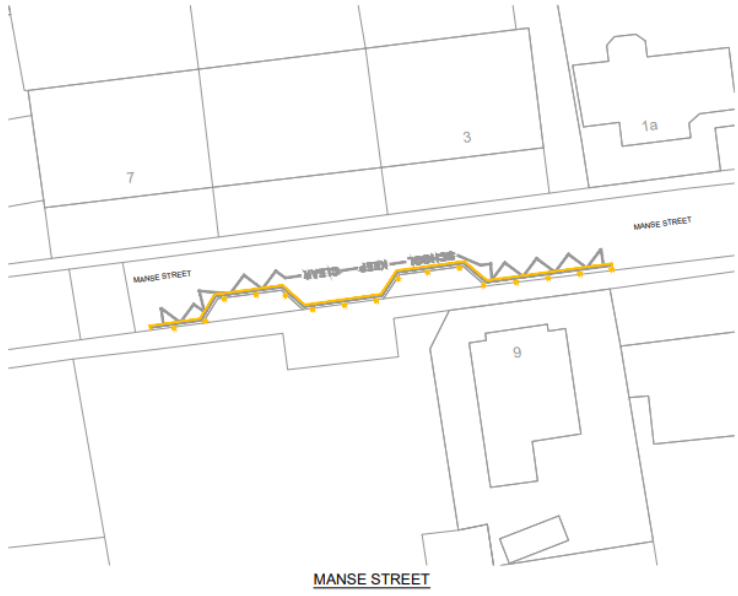
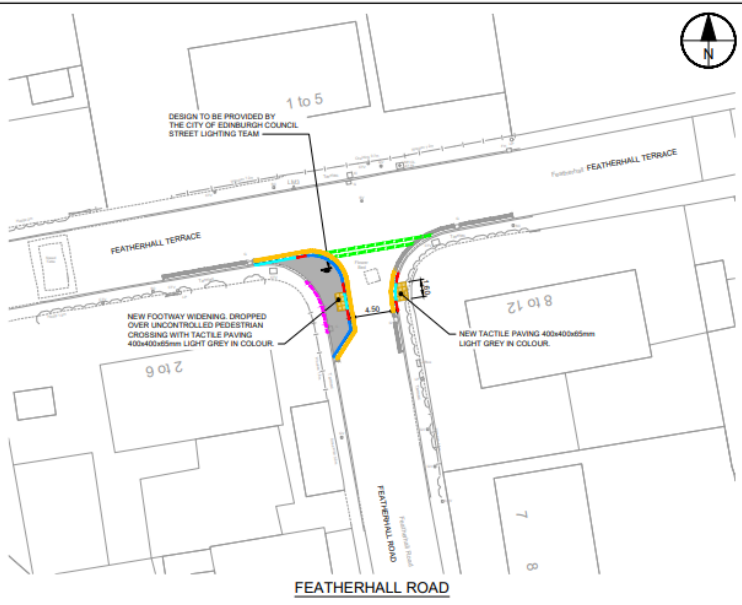
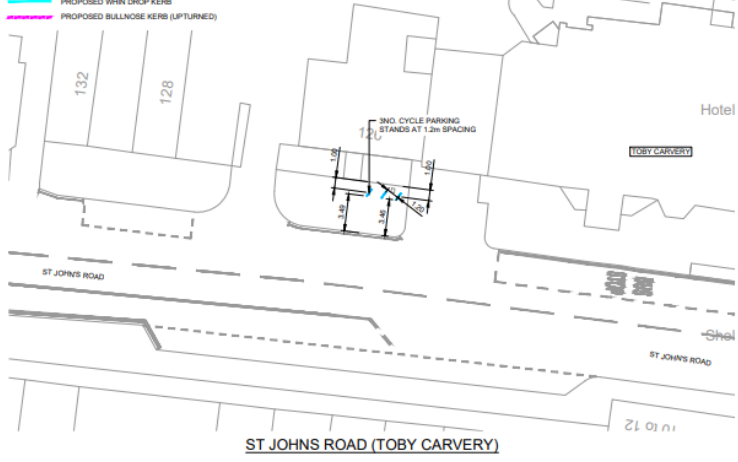
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 Date: 02/08/2023 10:41:01

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Problem 3.1 refers to the scheme extents.

- KEY - KERBING**
- PROPOSED WHN UPSTAND KERB (REUSED)
 - PROPOSED WHN TRANSITION KERB
 - PROPOSED WHN DROP KERB
 - PROPOSED BULLNOSE KERB (LIFT/TURNED)



AECOM

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- NOTES**
1. ALL WORKS TO BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS - THE MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS, DESIGN MANUAL FOR ROADS AND BRIDGES, TRAFFIC SIGNS MANUAL AND LOCAL COUNCIL GUIDELINES.
 2. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE. ALL LEVELS ARE IN METRES AND RELATIVE TO ORDNANCE DATUM.
 3. DO NOT SCALE FROM ANY DRAWING. WORK TO FIGURED DIMENSIONS ONLY. ANY DISCREPANCIES IN DIMENSION ARE TO BE REFERRED TO THE DESIGNER BEFORE WORK IS PUT TO HAND.
 4. ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO PREPARING ANY WORKING DRAWINGS OR COMMENCING ON SITE.
 5. ALL WORKS BY THE CONTRACTOR MUST BE CARRIED OUT IN SUCH A WAY THAT ALL REQUIREMENTS UNDER THE HEALTH AND SAFETY AT WORK ACT ARE SATISFIED.
 6. ALL WORK IS TO BE CARRIED OUT IN COMPLIANCE WITH THE REQUIREMENTS OF THE STATUTORY AUTHORITIES AND CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS.
 7. DRAWING BASE RECEIVED FROM OTHERS, SURVEY CARRIED OUT BY OTHERS. AECOM CANNOT GUARANTEE THEIR ACCURACY. CONTRACTOR TO SATISFY THEMSELVES AS TO THE ACCURACY OF SUCH INFORMATION.

ISSUE/REVISION

| NO | DATE | DESCRIPTION |
|----|------------|-------------------|
| 1 | 02-08-2023 | ISSUED FOR TENDER |

KEY PLAN

FOR TENDER

PROJECT NUMBER
60636731

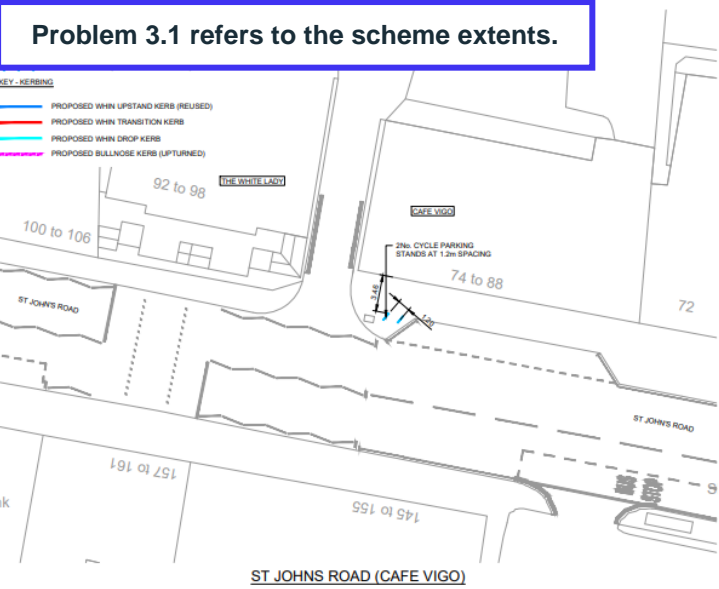
SHEET TITLE
GENERAL ARRANGEMENT
MANSE STREET/ FEATHERHALL RD
SHEET 5 OF 6

SHEET NUMBER
60636731-SHT-C-P2-LTN-0705

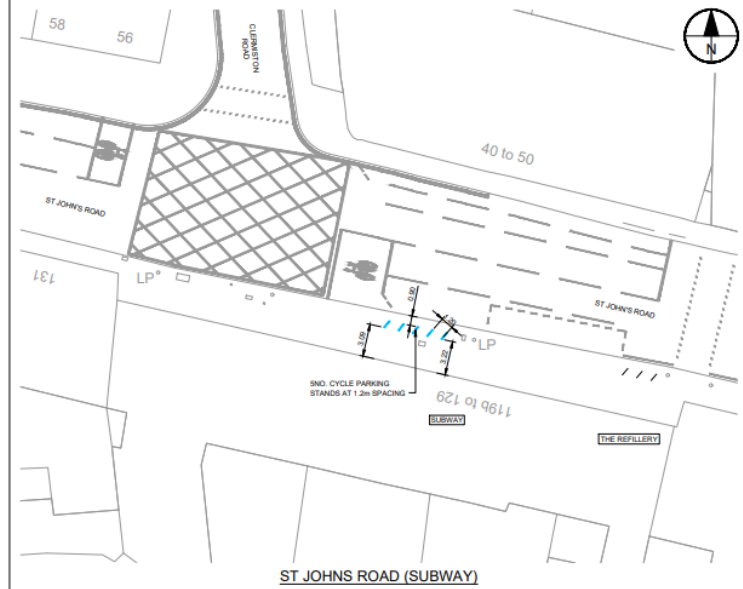
Project Management: J. Kelly, Designer: A.S. Chakrabarti, Checked: P.M. Approved: P.M. B00 At 16:00 on 08/08/2023
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 DRAWING: 60636731-SHT-C-P2-LTN-0705-0705-GENERAL_ARRANGEMENT.DWG
 Issued by: J. Kelly, Date: 08/08/2023

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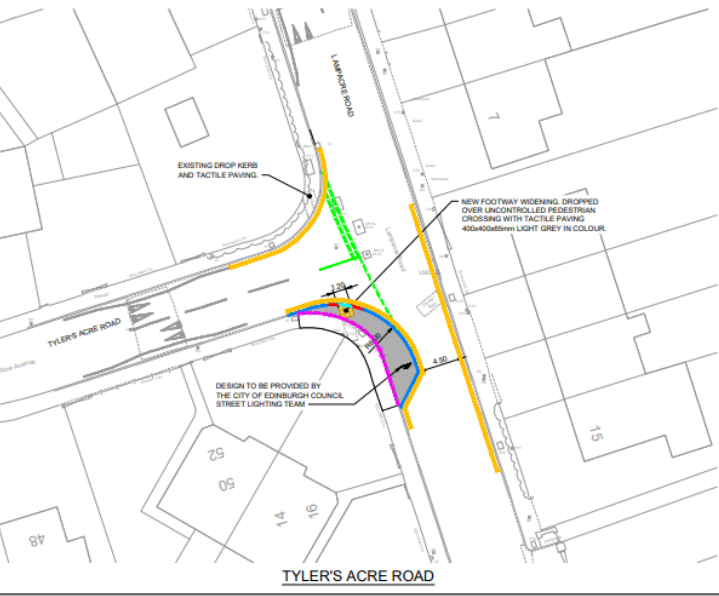




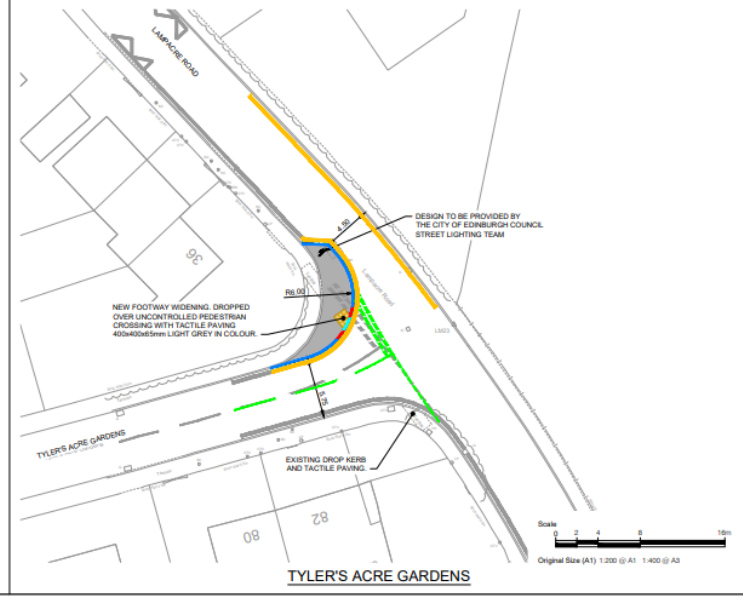
ST JOHN'S ROAD (CAFE VIGO)



ST JOHN'S ROAD (SUBWAY)



TYLER'S ACRE ROAD



TYLER'S ACRE GARDENS

Problem 3.1 refers to the scheme extents.

Project Management: IM/ML, Designer: ASB, Checked: FM, Approved: FM, 50, A1 18mm x 84mm

Framework: LE15AC0VAKEDHP181V17PR01CT21AT1C - CL - WEST EDINBURGH AREA - CAD - 058930 - CAD021811E12C210210RPHNE HIGH STREET UTM/OSZ
 Drawings: 058930/001/P1/02/01/000000 - GENERAL ARRANGEMENT LONG
 Drawing by: JENNIFER L. LAMBERT (02/2024)

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PROJECT
 CORSTORPHINE
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 PHASE 2 WORKS

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KEY PLAN

FOR TENDER

PROJECT NUMBER
 60636731
SHEET TITLE
 GENERAL ARRANGEMENT
 LAMPACRE ROAD
 SHEET 6 OF 6
SHEET NUMBER
 60636731-SHT-C-P2-LTN-0706



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