





GRANGE CASTLE BUSINESS PARK

PROPOSED GATEWAY /  
SIGNAGE / MARKING

GRAND CANAL

CLONBURRIS SDZ

SHEET 01  
SHEET 02

EXISTING SHARED SURFACE  
BRIDGE OVER GRAND  
CANAL

LEGEND:

- SHARED SURFACE
- CYCLE TRACK
- FOOTPATH
- CARRIAGEWAY
- GRASS AREA / VERGE
- RAISED TABLE
- BOARDWALK
- BRIDGE TO BE REPLACED
- BRIDGE TO BE RETAINED
- HIGH QUALITY PAVEMENT
- EXISTING PAVEMENT TO BE REMOVED
- PROPOSED LIGHTING
- BUS STOP LOCATIONS
- BUS SHELTER
- HERITAGE FEATURES
- SITE BOUNDARY LINE
- EXISTING SIGN
- PROPOSED WAY FINDING SIGN



SCALE 1:500 @ A1; 1:1000 @ A3

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Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.  
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| Rev | Date     | Dwn | Chk'd | App'd | Description            |
|-----|----------|-----|-------|-------|------------------------|
| P01 | 14/06/22 | JR  | AM    | DC    | Draft Issue for Review |
| P02 | 20/07/22 | JR  | AM    | DC    | Draft Issue for Review |
| P03 | 12/08/22 | JR  | AM    | DC    | Issue For NTA Approval |
|     |          |     |       |       |                        |
|     |          |     |       |       |                        |
|     |          |     |       |       |                        |

Client  
Comhairle Contae  
Atha Cliath Theas  
South Dublin County Council

Engineering Designer  
ARUP

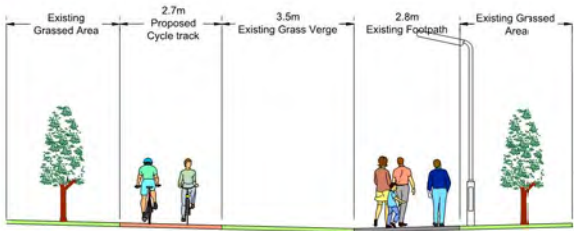
Programme Title  
Grand Canal to Lucan Urban Greenway

Drawing Title  
Grand Canal to Lucan Urban Greenway  
General Arrangement

|              |            |                 |                           |          |           |         |    |          |    |
|--------------|------------|-----------------|---------------------------|----------|-----------|---------|----|----------|----|
| Date         | 12/08/2022 | Scale           | 1:500 @ A1<br>1:1000 @ A3 | Drawn    | JR        | Checked | AM | Approved | DC |
| Project Code | 284399-00  | Originator Code | ARP                       | QMS Code | 284399-00 |         |    |          |    |

|                   |                             |              |          |        |   |     |     |
|-------------------|-----------------------------|--------------|----------|--------|---|-----|-----|
| Drawing File Name | 284399-ARUP-ZZ-XX-DR-C-0001 | Sheet Number | 01 of 21 | Status | A | Rev | P03 |
|-------------------|-----------------------------|--------------|----------|--------|---|-----|-----|

- LEGEND:**
- SHARED SURFACE
  - CYCLE TRACK
  - FOOTPATH
  - CARRIAGEWAY
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SCALE 1:500 @ A1; 1:1000 @ A3

SHARD SURFACE TO TIE INTO THE  
EXISTING BRIDGE

EXISTING 2.8m WIDE FOOTPATH TO  
BE CONVERTED TO A TWO-WAY  
CYCLE TRACK

PROPOSED IMPROVEMENTS TO BE  
DELIVER AS PART OF THE  
BLONBURRIS SDZ. SDCC PLANNING  
REF. SDZ20A/0021

KISSING GATE TO BE REPLACED  
WITH BCLLARDS, OR SIMILAR

EXISTING ROAD TO BE UPGRADED  
TO A SHARED STREET (FUTURE  
IMPROVEMENTS TO TAKE PLACE AS  
PART OF THE CLONBURRIS SDZ)

EXISTING 2.8m WIDE FOOTPATH TO  
BE RETAINED AND TIED INTO  
SHARED SURFACE

CLONBURRIS SDZ

PROPOSED REST  
AREA

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|     |          |     |       |       |                        |

Client  
**Comhairle Contae  
Atha Cliath Theas  
South Dublin County Council**

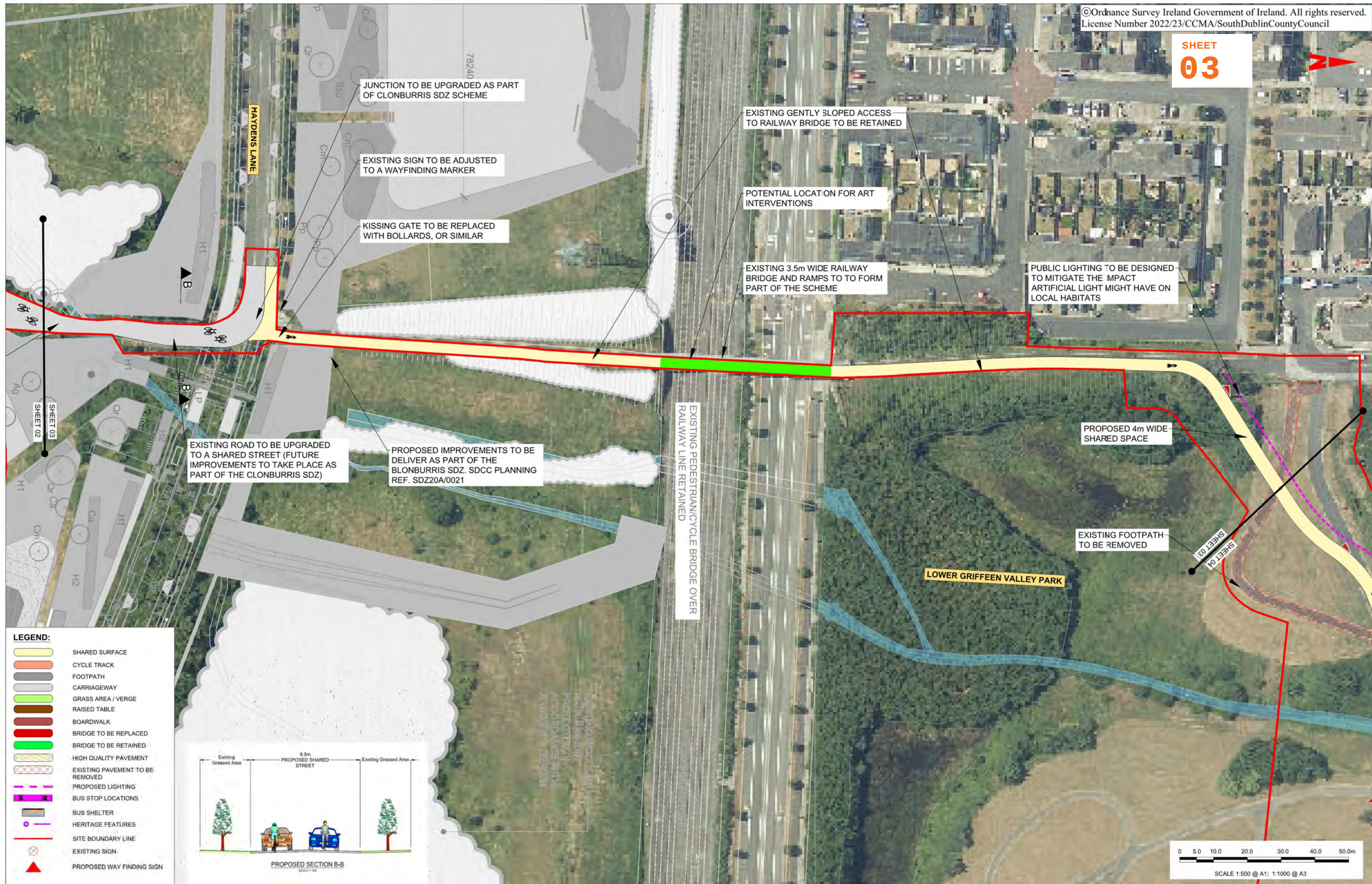
Engineering Designer  
**ARUP**

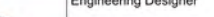
Programme Title  
**Grand Canal to Lucan Urban Greenway**

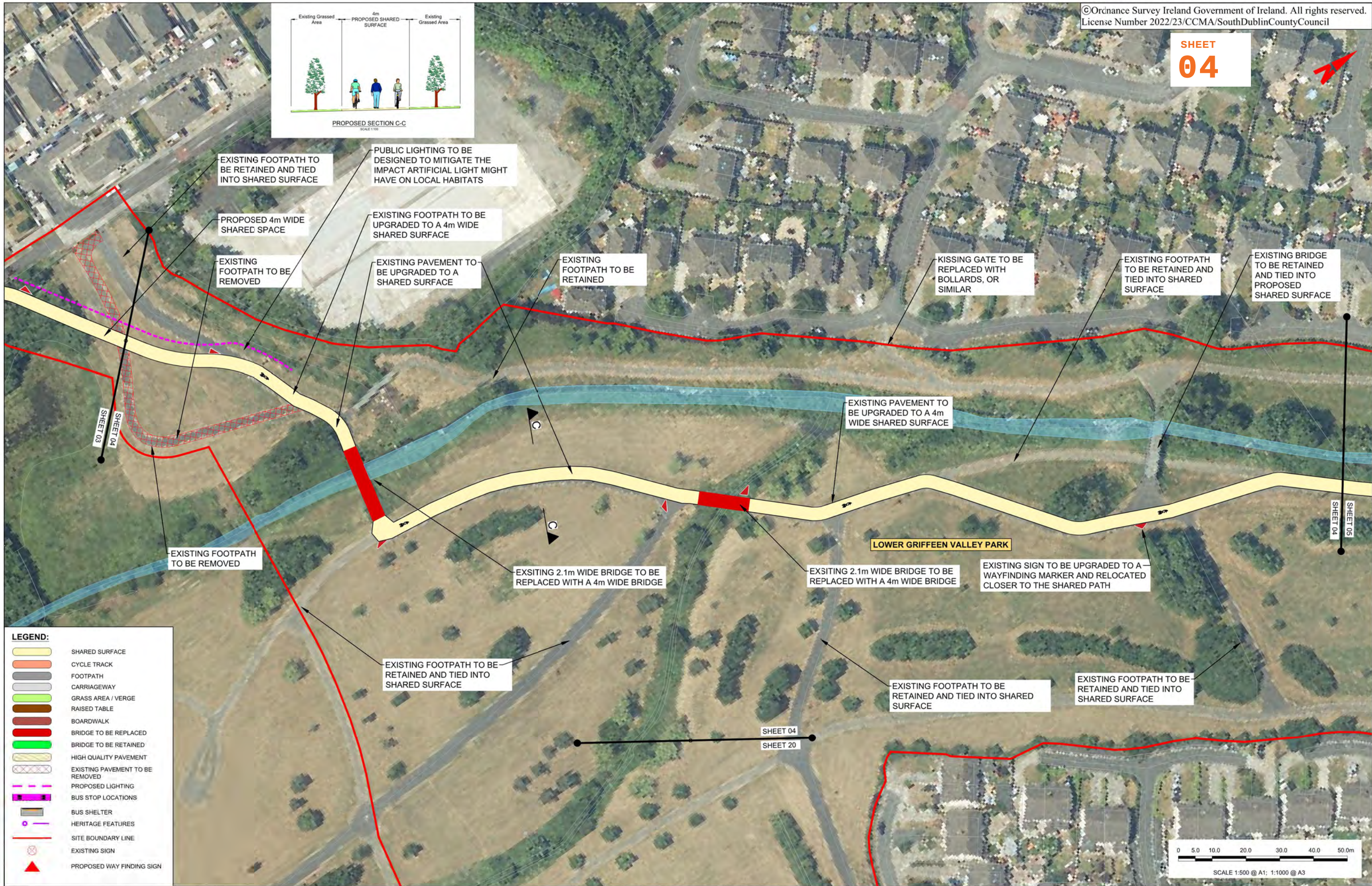
Drawing Title  
**Grand Canal to Lucan Urban Greenway  
General Arrangement**

|              |            |                 |                           |          |    |           |    |          |    |
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| Date         | 12/08/2022 | Scale           | 1:500 @ A1<br>1:1000 @ A3 | Drawn    | JR | Checked   | AM | Approved | DC |
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| Drawing File Name | 284399-ARUP-ZZ-XX-DR-C-0002 | Sheet Number | 02 of 21 | Status | A | Rev | P03 |
|-------------------|-----------------------------|--------------|----------|--------|---|-----|-----|

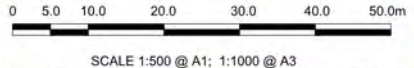


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| Rev                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Date     | Dwn                                            | Chk'd | App'd                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |                                                             |  |  |                                     |                        |                       |       |       |             |     |          |    |    |    |                        |     |          |    |    |    |                        |     |          |    |    |    |                        |                                                                                                                                                                                             |  |                                                                                                                                         |  |                                                                   |  |  |  |
| P01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 14/06/22 | JR                                             | AM    | DC                               | Draft Issue for Review                                                                                                                                                                                                                                                                                                                                                                                                          |                           |                                                             |  |  |                                     |                        |                       |       |       |             |     |          |    |    |    |                        |     |          |    |    |    |                        |     |          |    |    |    |                        |                                                                                                                                                                                             |  |                                                                                                                                         |  |                                                                   |  |  |  |
| P02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 22/07/22 | JR                                             | AM    | DC                               | Draft Issue for Review                                                                                                                                                                                                                                                                                                                                                                                                          |                           |                                                             |  |  |                                     |                        |                       |       |       |             |     |          |    |    |    |                        |     |          |    |    |    |                        |     |          |    |    |    |                        |                                                                                                                                                                                             |  |                                                                                                                                         |  |                                                                   |  |  |  |
| P03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12/08/22 | JR                                             | AM    | DC                               | Issue For NTA Approval                                                                                                                                                                                                                                                                                                                                                                                                          |                           |                                                             |  |  |                                     |                        |                       |       |       |             |     |          |    |    |    |                        |     |          |    |    |    |                        |     |          |    |    |    |                        |                                                                                                                                                                                             |  |                                                                                                                                         |  |                                                                   |  |  |  |
| <p>Drawing Title</p> <p>Grand Canal to Lucan Urban Greenway<br/>General Arrangement</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                                |       |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |                                                             |  |  |                                     |                        |                       |       |       |             |     |          |    |    |    |                        |     |          |    |    |    |                        |     |          |    |    |    |                        |                                                                                                                                                                                             |  |                                                                                                                                         |  |                                                                   |  |  |  |
| <p>Date</p> <p>12/08/2022</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | <p>Scale</p> <p>1:500 @ A1<br/>1:1000 @ A3</p> |       | <p>Drawn</p> <p>JR</p>           | <p>Checked</p> <p>AM</p>                                                                                                                                                                                                                                                                                                                                                                                                        | <p>Approved</p> <p>DC</p> | <p>Drawing File Name</p> <p>284399-ARUP-ZZ-XX-DR-C-0003</p> |  |  | <p>Sheet Number</p> <p>03 of 21</p> | <p>Status</p> <p>A</p> | <p>Rev</p> <p>P03</p> |       |       |             |     |          |    |    |    |                        |     |          |    |    |    |                        |     |          |    |    |    |                        |                                                                                                                                                                                             |  |                                                                                                                                         |  |                                                                   |  |  |  |
| <p>Project Code</p> <p>284399-00</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          | <p>Originator Code</p> <p>ARP</p>              |       | <p>QMS Code</p> <p>284399-00</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |                                                             |  |  |                                     |                        |                       |       |       |             |     |          |    |    |    |                        |     |          |    |    |    |                        |     |          |    |    |    |                        |                                                                                                                                                                                             |  |                                                                                                                                         |  |                                                                   |  |  |  |



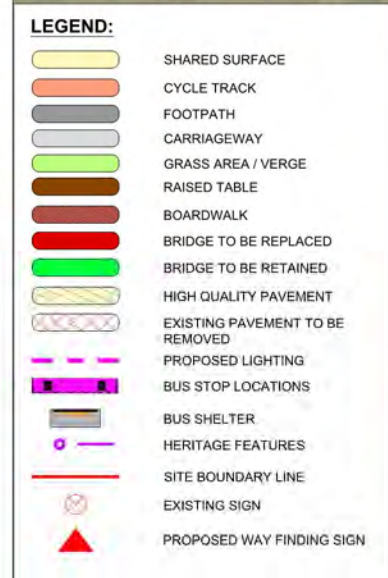
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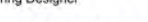
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| Rev                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Date       | Dwn                                                                                                                                                                                                                                                                                                                                                                                                                             | Chk'd                     | App'd    | Description            |         |            |             |                           |          |    |         |    |                        |     |              |           |                 |     |                        |           |          |    |    |    |                                                             |                                                                                                                |                                                                                                                              |                                                                   |
| P01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 14/06/22   | JR                                                                                                                                                                                                                                                                                                                                                                                                                              | AM                        | DC       | Draft Issue for Review |         |            |             |                           |          |    |         |    |                        |     |              |           |                 |     |                        |           |          |    |    |    |                                                             |                                                                                                                |                                                                                                                              |                                                                   |
| P02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 22/07/22   | JR                                                                                                                                                                                                                                                                                                                                                                                                                              | AM                        | DC       | Draft Issue for Review |         |            |             |                           |          |    |         |    |                        |     |              |           |                 |     |                        |           |          |    |    |    |                                                             |                                                                                                                |                                                                                                                              |                                                                   |
| P03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12/08/22   | JR                                                                                                                                                                                                                                                                                                                                                                                                                              | AM                        | DC       | Issue For NTA Approval |         |            |             |                           |          |    |         |    |                        |     |              |           |                 |     |                        |           |          |    |    |    |                                                             |                                                                                                                |                                                                                                                              |                                                                   |
| <p>Drawing Title</p> <p>Grand Canal to Lucan Urban Greenway<br/>General Arrangement</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |          |                        |         |            |             |                           |          |    |         |    |                        |     |              |           |                 |     |                        |           |          |    |    |    |                                                             |                                                                                                                |                                                                                                                              |                                                                   |
| <table><tr><td>Date</td><td>12/08/2022</td><td>Scale</td><td>1:500 @ A1<br/>1:1000 @ A3</td><td>Drawn</td><td>JR</td><td>Checked</td><td>AM</td><td>Approved</td><td>DC</td></tr><tr><td>Project Code</td><td>284399-00</td><td>Originator Code</td><td>ARP</td><td>QMS Code</td><td colspan="5">284399-00</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |          |                        | Date    | 12/08/2022 | Scale       | 1:500 @ A1<br>1:1000 @ A3 | Drawn    | JR | Checked | AM | Approved               | DC  | Project Code | 284399-00 | Originator Code | ARP | QMS Code               | 284399-00 |          |    |    |    | <p>Drawing File Name</p> <p>284399-ARUP-ZZ-XX-DR-C-0004</p> | <p>Sheet Number</p> <p>04 of 21</p>                                                                            | <p>Status</p> <p>A</p>                                                                                                       | <p>Rev</p> <p>P03</p>                                             |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12/08/2022 | Scale                                                                                                                                                                                                                                                                                                                                                                                                                           | 1:500 @ A1<br>1:1000 @ A3 | Drawn    | JR                     | Checked | AM         | Approved    | DC                        |          |    |         |    |                        |     |              |           |                 |     |                        |           |          |    |    |    |                                                             |                                                                                                                |                                                                                                                              |                                                                   |
| Project Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 284399-00  | Originator Code                                                                                                                                                                                                                                                                                                                                                                                                                 | ARP                       | QMS Code | 284399-00              |         |            |             |                           |          |    |         |    |                        |     |              |           |                 |     |                        |           |          |    |    |    |                                                             |                                                                                                                |                                                                                                                              |                                                                   |





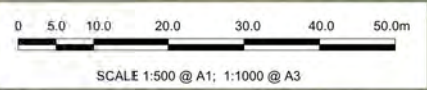
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| Client                                                                                                                                                                 |                        | Engineering Designer                                                                  |                           |             |               |                |
|  <p>Comhairle Contae<br/>Atha Cliath Thosaigh<br/>South Dublin County Council</p> |                        |  |                           |             |               |                |
| Date                                                                                                                                                                   | 12/08/2022             | Scale                                                                                 | 1:500 @ A1<br>1:1000 @ A3 | Drawn<br>JR | Checked<br>AM | Approved<br>DC |
| Project Code<br>284399-00                                                                                                                                              | Originator Code<br>ARP | QMS Code                                                                              | 284399-00                 |             |               |                |

|                                                            |  |              |        |     |
|------------------------------------------------------------|--|--------------|--------|-----|
| Programme Title                                            |  |              |        |     |
| Grand Canal to Lucan Urban Greenway                        |  |              |        |     |
| Drawing Title                                              |  |              |        |     |
| Grand Canal to Lucan Urban Greenway<br>General Arrangement |  |              |        |     |
| Drawing File Name                                          |  | Sheet Number | Status | Rev |
| 284399-ARUP-ZZ-XX-DR-C-0006                                |  | 06 of 21     | A      | P03 |



**LEGEND:**

- SHARED SURFACE
- CYCLE TRACK
- FOOTPATH
- CARRIAGEWAY
- GRASS AREA / VERGE
- RAISED TABLE
- BOARDWALK
- BRIDGE TO BE REPLACED
- BRIDGE TO BE RETAINED
- HIGH QUALITY PAVEMENT
- EXISTING PAVEMENT TO BE REMOVED
- PROPOSED LIGHTING
- BUS STOP LOCATIONS
- BUS SHELTER
- HERITAGE FEATURES
- SITE BOUNDARY LINE
- EXISTING SIGN
- PROPOSED WAY FINDING SIGN



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| Rev | Date     | Dwn | Chk'd | App'd | Description            |
|-----|----------|-----|-------|-------|------------------------|
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| P02 | 22/07/22 | JR  | AM    | DC    | Draft Issue for Review |
| P03 | 12/08/22 | JR  | AM    | DC    | Issue For NTA Approval |
|     |          |     |       |       |                        |
|     |          |     |       |       |                        |
|     |          |     |       |       |                        |

Comhairle Contae  
Atha Cliath Theas  
South Dublin County Council

Client

Engineering Designer

**ARUP**

Date 12/08/2022

Scale 1:500 @ A1  
1:1000 @ A3

Drawn JR

Checked AM

Approved DC

Project Code 284399-00

Originator Code ARP

QMS Code 284399-00

Programme Title

**Grand Canal to Lucan Urban Greenway**

Drawing Title

**Grand Canal to Lucan Urban Greenway  
General Arrangement**

Drawing File Name

284399-ARUP-ZZ-XX-DR-C-0007

Sheet Number

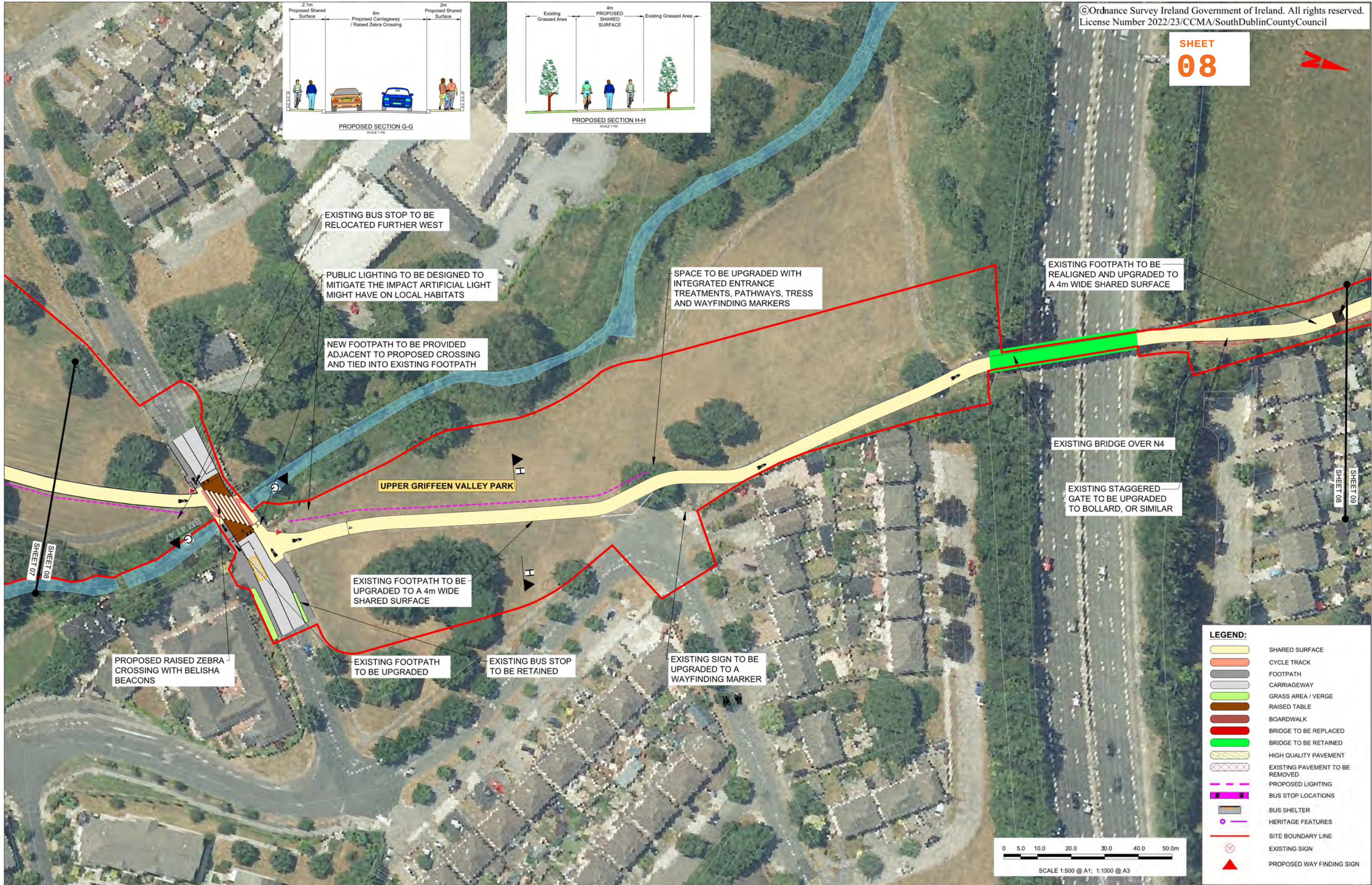
07 of 21

Status

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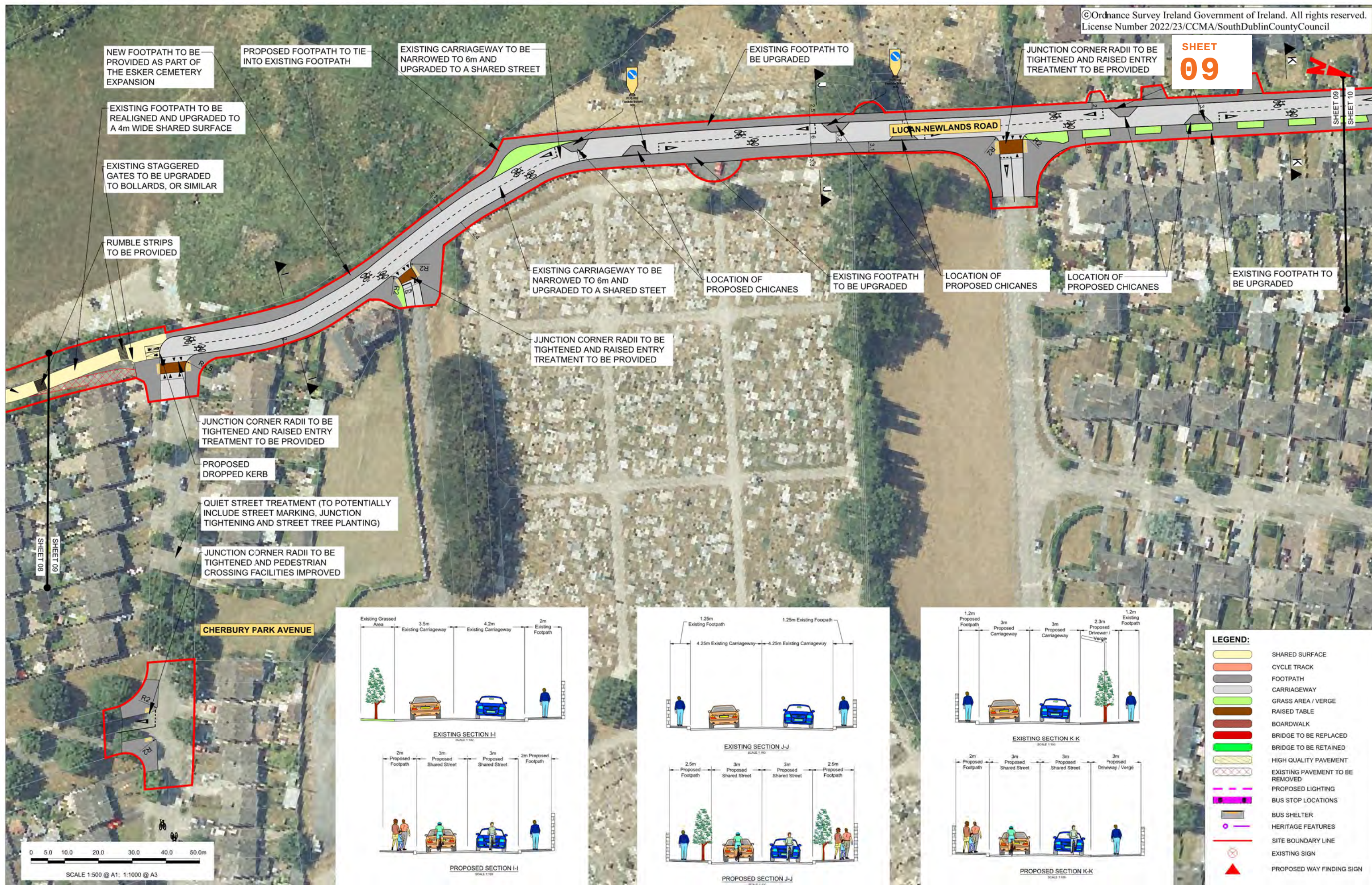
Rev

P03



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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | P02                                                                                                                                                                                                                                                                                                                                                                                                                             | 22/07/22 | JR   | AM    | DC    | Draft Issue for Review |             |     |          |    |    |    |                        |     |          |    |    |    |                        |     |          |    |    |    |                        |                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                           |                                                                                                                                 |                                                                                                                                                                                                                                                                             |                                                                                                                                        |
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SHEET  
09



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Rev Date Dwn Chk'd App'd Description  
P01 14/06/22 JR AM DC Draft Issue for Review  
P02 22/07/22 JR AM DC Draft Issue for Review  
P03 12/08/22 JR AM DC Issue For NTA Approval

Client  
Comhairle Contae  
Atha Cliath Theas  
South Dublin County Council

Engineering Designer  
ARUP

Programme Title  
Grand Canal to Lucan Urban Greenway

Drawing Title  
Grand Canal to Lucan Urban Greenway  
General Arrangement

Drawing File Name  
284399-ARUP-ZZ-XX-DR-C-0009

Sheet Number  
09 of 21

Status  
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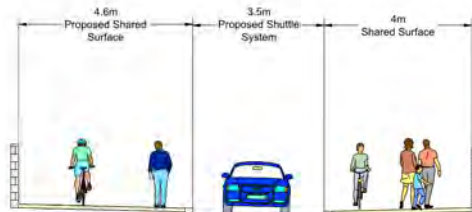
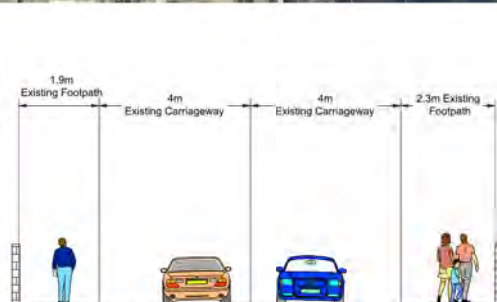
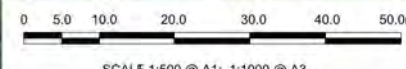
Rev  
P03

Date 12/08/2022 Scale 1:500 @ A1 1:1000 @ A3  
Project Code 284399-00 Originator Code ARP  
QMS Code 284399-00

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



- LEGEND:**
- SHARED SURFACE
  - CYCLE TRACK
  - FOOTPATH
  - CARRIAGEWAY
  - GRASS AREA / VERGE
  - RAISED TABLE
  - BOARDWALK
  - BRIDGE TO BE REPLACED
  - BRIDGE TO BE RETAINED
  - HIGH QUALITY PAVEMENT
  - EXISTING PAVEMENT TO BE REMOVED
  - PROPOSED LIGHTING
  - BUS STOP LOCATIONS
  - BUS SHELTER
  - HERITAGE FEATURES
  - SITE BOUNDARY LINE
  - EXISTING SIGN
  - PROPOSED WAY FINDING SIGN



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Client  
**Comhairle Contae  
Atha Cliath  
South Dublin County Council**

Engineering Designer  
**ARUP**

Programme Title  
**Grand Canal to Lucan Urban Greenway**  
Drawing Title  
**Grand Canal to Lucan Urban Greenway  
General Arrangement**

|              |            |                 |                           |          |           |         |    |          |    |
|--------------|------------|-----------------|---------------------------|----------|-----------|---------|----|----------|----|
| Date         | 12/08/2022 | Scale           | 1:500 @ A1<br>1:1000 @ A3 | Drawn    | JR        | Checked | AM | Approved | DC |
| Project Code | 284399-00  | Originator Code | ARP                       | QMS Code | 284399-00 |         |    |          |    |

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|-------------------|-----------------------------|--------------|----------|--------|---|-----|-----|
| Drawing File Name | 284399-ARUP-ZZ-XX-DR-C-0010 | Sheet Number | 10 of 21 | Status | A | Rev | P03 |
|-------------------|-----------------------------|--------------|----------|--------|---|-----|-----|

SHEET  
11

SHEET 11  
SHEET 12

KISSING GATE TO BE  
REPLACED WITH  
BOLLARDS, OR SIMILAR

JUNCTION CORNER RADII  
TO BE TIGHTENED AND  
PEDESTRIAN CROSSING  
FACILITIES IMPROVED

QUIET STREET TREATMENT (TO  
INCLUDE STREET MARKING,  
JUNCTION TIGHTENING AND  
STREET TREE PLANTING)

JUNCTION CORNER RADII  
TO BE TIGHTENED AND  
PEDESTRIAN CROSSING  
FACILITIES IMPROVED

BEECH PARK

QUIET STREET TREATMENT (TO  
INCLUDE STREET MARKING, JUNCTION  
TIGHTENING AND STREET TREE  
PLANTING)

LEGEND:

- SHARED SURFACE
- CYCLE TRACK
- FOOTPATH
- CARRIAGEWAY
- GRASS AREA / VERGE
- RAISED TABLE
- BOARDWALK
- BRIDGE TO BE REPLACED
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- BUS SHELTER
- HERITAGE FEATURES
- SITE BOUNDARY LINE
- EXISTING SIGN
- PROPOSED WAY FINDING SIGN

0 5.0 10.0 20.0 30.0 40.0 50.0m

SCALE 1:500 @ A1; 1:1000 @ A3

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Client  
Comhairle Contae  
Atha Cliath Theas  
South Dublin County Council

Engineering Designer

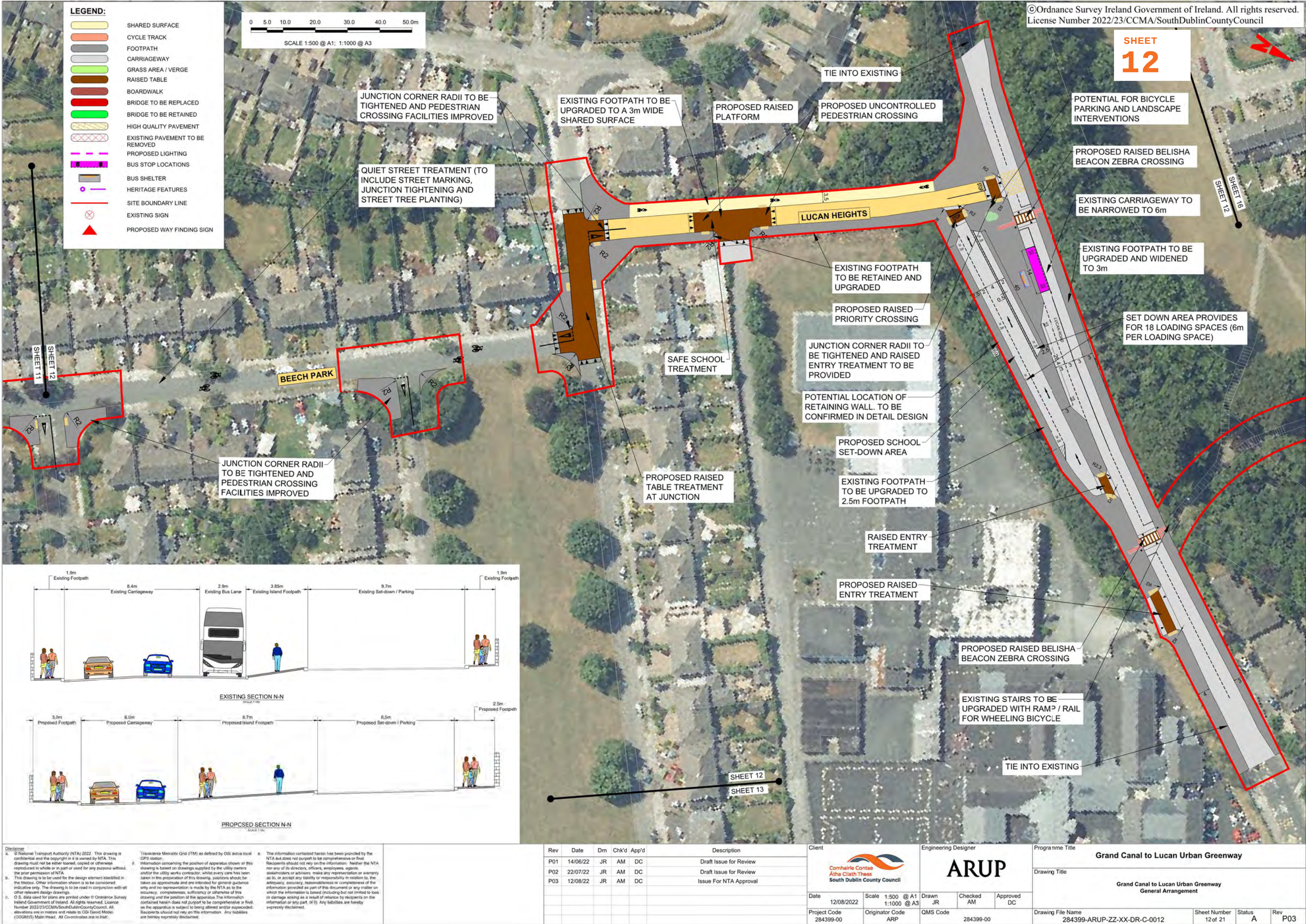
ARUP

Programme Title  
Grand Canal to Lucan Urban Greenway

Drawing Title  
Grand Canal to Lucan Urban Greenway  
General Arrangement

|              |            |                 |                           |          |           |         |    |          |    |
|--------------|------------|-----------------|---------------------------|----------|-----------|---------|----|----------|----|
| Date         | 12/08/2022 | Scale           | 1:500 @ A1<br>1:1000 @ A3 | Drawn    | JR        | Checked | AM | Approved | DC |
| Project Code | 284399-00  | Originator Code | ARP                       | QMS Code | 284399-00 |         |    |          |    |

|                   |                             |              |          |        |   |     |     |
|-------------------|-----------------------------|--------------|----------|--------|---|-----|-----|
| Drawing File Name | 284399-ARUP-ZZ-XX-DR-C-0011 | Sheet Number | 11 of 21 | Status | A | Rev | P03 |
|-------------------|-----------------------------|--------------|----------|--------|---|-----|-----|



EXISTING FOOTPATH TO  
BE UPGRADED TO A 3m  
WIDE FOOTPATH

LUCAN ROAD

TIE INTO  
EXISTING

PROPOSED RAISED  
ENTRY TREATMENT

QUIET STREET TREATMENT (TO  
POTENTIALLY INCLUDE STREET MARKING,  
JUNCTION TIGHTENING AND STREET TREE  
PLANTING)

LUCAN HEIGHTS

LEGEND:

- SHARED SURFACE
- CYCLE TRACK
- FOOTPATH
- CARRIAGEWAY
- GRASS AREA / VERGE
- RAISED TABLE
- BOARDWALK
- BRIDGE TO BE REPLACED
- BRIDGE TO BE RETAINED
- HIGH QUALITY PAVEMENT
- EXISTING PAVEMENT TO BE REMOVED
- PROPOSED LIGHTING
- BUS STOP LOCATIONS
- BUS SHELTER
- HERITAGE FEATURES
- SITE BOUNDARY LINE
- EXISTING SIGN
- PROPOSED WAY FINDING SIGN



SCALE 1:500 @ A1; 1:1000 @ A3

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| Rev | Date     | Dwn | Chk'd | App'd | Description            |
|-----|----------|-----|-------|-------|------------------------|
| P01 | 14/06/22 | JR  | AM    | DC    | Draft Issue for Review |
| P02 | 22/07/22 | JR  | AM    | DC    | Draft Issue for Review |
| P03 | 12/08/22 | JR  | AM    | DC    | Issue For NTA Approval |
|     |          |     |       |       |                        |
|     |          |     |       |       |                        |
|     |          |     |       |       |                        |

Client  
**Comhairle Contae  
Atha Cliath Theas  
South Dublin County Council**

Engineering Designer

**ARUP**

Programme Title  
**Grand Canal to Lucan Urban Greenway**

Drawing Title  
**Grand Canal to Lucan Urban Greenway  
General Arrangement**

|              |            |                 |                           |          |    |         |           |          |    |
|--------------|------------|-----------------|---------------------------|----------|----|---------|-----------|----------|----|
| Date         | 12/08/2022 | Scale           | 1:500 @ A1<br>1:1000 @ A3 | Drawn    | JR | Checked | AM        | Approved | DC |
| Project Code | 284399-00  | Originator Code | ARP                       | QMS Code |    |         | 284399-00 |          |    |

|                   |                             |              |          |        |   |     |     |
|-------------------|-----------------------------|--------------|----------|--------|---|-----|-----|
| Drawing File Name | 284399-ARUP-ZZ-XX-DR-C-0013 | Sheet Number | 13 of 21 | Status | A | Rev | P03 |
|-------------------|-----------------------------|--------------|----------|--------|---|-----|-----|





**LEGEND:**

|  |                                 |
|--|---------------------------------|
|  | SHARED SURFACE                  |
|  | CYCLE TRACK                     |
|  | FOOTPATH                        |
|  | CARRIAGEWAY                     |
|  | GRASS AREA / VERGE              |
|  | RAISED TABLE                    |
|  | BOARDWALK                       |
|  | BRIDGE TO BE REPLACED           |
|  | BRIDGE TO BE RETAINED           |
|  | HIGH QUALITY PAVEMENT           |
|  | EXISTING PAVEMENT TO BE REMOVED |
|  | PROPOSED LIGHTING               |
|  | BUS STOP LOCATIONS              |
|  | BUS SHELTER                     |
|  | HERITAGE FEATURES               |
|  | SITE BOUNDARY LINE              |
|  | EXISTING SIGN                   |
|  | PROPOSED WAY FINDING SIGN       |

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| Rev | Date     | Drm | Chk'd | App'd | Description            |
|-----|----------|-----|-------|-------|------------------------|
| P01 | 14/06/22 | JR  | AM    | DC    | Draft Issue for Review |
| P02 | 22/07/22 | JR  | AM    | DC    | Draft Issue for Review |
| P03 | 12/08/22 | JR  | AM    | DC    | Issue For NTA Approval |
|     |          |     |       |       |                        |
|     |          |     |       |       |                        |

|              |            |                          |                           |                |
|--------------|------------|--------------------------|---------------------------|----------------|
| Client<br>   |            | Engineering Designer<br> |                           |                |
| Date         | 12/08/2022 | Scale                    | 1:500 @ A1<br>1:1000 @ A3 | Drawn<br>JR    |
| Project Code | 284399-00  | Originator Code          | ARP                       | Checked<br>AM  |
|              |            | QMS Code                 | 284399-00                 | Approved<br>DC |

|                                                                                     |                             |              |          |        |
|-------------------------------------------------------------------------------------|-----------------------------|--------------|----------|--------|
| Programme Title<br><b>Grand Canal to Lucan Urban Greenway</b>                       |                             |              |          |        |
| Drawing Title<br><b>Grand Canal to Lucan Urban Greenway<br/>General Arrangement</b> |                             |              |          |        |
| Drawing File Name                                                                   | 284399-ARUP-ZZ-XX-DR-C-0015 | Sheet Number | 15 of 21 | Status |
|                                                                                     |                             |              |          | A      |
|                                                                                     |                             |              |          | Rev    |
|                                                                                     |                             |              |          | P03    |

**LEGEND:**

- SHARED SURFACE
- CYCLE TRACK
- FOOTPATH
- CARRIAGEWAY
- GRASS AREA / VERGE
- RAISED TABLE
- BOARDWALK
- BRIDGE TO BE REPLACED
- BRIDGE TO BE RETAINED
- HIGH QUALITY PAVEMENT
- EXISTING PAVEMENT TO BE REMOVED
- PROPOSED LIGHTING
- BUS STOP LOCATIONS
- BUS SHELTER
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- SITE BOUNDARY LINE
- EXISTING SIGN
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| Rev                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Date       | Dwn             | Chk'd                     | App'd    | Description            |         |    |          |    |     |      |     |       |       |             |     |          |    |    |    |                        |     |          |    |    |    |                        |     |          |    |    |    |                        |      |            |       |                           |       |    |         |    |          |    |              |           |                 |     |          |           |  |  |  |  |
| P01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 14/06/22   | JR              | AM                        | DC       | Draft Issue for Review |         |    |          |    |     |      |     |       |       |             |     |          |    |    |    |                        |     |          |    |    |    |                        |     |          |    |    |    |                        |      |            |       |                           |       |    |         |    |          |    |              |           |                 |     |          |           |  |  |  |  |
| P02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 22/07/22   | JR              | AM                        | DC       | Draft Issue for Review |         |    |          |    |     |      |     |       |       |             |     |          |    |    |    |                        |     |          |    |    |    |                        |     |          |    |    |    |                        |      |            |       |                           |       |    |         |    |          |    |              |           |                 |     |          |           |  |  |  |  |
| P03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12/08/22   | JR              | AM                        | DC       | Issue For NTA Approval |         |    |          |    |     |      |     |       |       |             |     |          |    |    |    |                        |     |          |    |    |    |                        |     |          |    |    |    |                        |      |            |       |                           |       |    |         |    |          |    |              |           |                 |     |          |           |  |  |  |  |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12/08/2022 | Scale           | 1:500 @ A1<br>1:1000 @ A3 | Drawn    | JR                     | Checked | AM | Approved | DC |     |      |     |       |       |             |     |          |    |    |    |                        |     |          |    |    |    |                        |     |          |    |    |    |                        |      |            |       |                           |       |    |         |    |          |    |              |           |                 |     |          |           |  |  |  |  |
| Project Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 284399-00  | Originator Code | ARP                       | QMS Code | 284399-00              |         |    |          |    |     |      |     |       |       |             |     |          |    |    |    |                        |     |          |    |    |    |                        |     |          |    |    |    |                        |      |            |       |                           |       |    |         |    |          |    |              |           |                 |     |          |           |  |  |  |  |





**LEGEND:**

- SHARED SURFACE
- CYCLE TRACK
- FOOTPATH
- CARRIAGEWAY
- GRASS AREA / VERGE
- RAISED TABLE
- BOARDWALK
- BRIDGE TO BE REPLACED
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|     |          |     |       |       |                        |

|                                                                                                                                                                                  |                                    |                                         |               |                |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------|---------------|----------------|--|
| Client<br><br><b>Comhairle Contae<br/>Atha Cliath Theas<br/>South Dublin County Council</b> |                                    | Engineering Designer<br><br><b>ARUP</b> |               |                |  |
| Date<br>12/08/2022                                                                                                                                                               | Scale<br>1:500 @ A1<br>1:1000 @ A3 | Drawn<br>JR                             | Checked<br>AM | Approved<br>DC |  |
| Project Code<br>284399-00                                                                                                                                                        | Originator Code<br>ARP             | QMS Code<br>284399-00                   |               |                |  |

|                                                                                     |                          |             |            |
|-------------------------------------------------------------------------------------|--------------------------|-------------|------------|
| Programme Title<br><b>Grand Canal to Lucan Urban Greenway</b>                       |                          |             |            |
| Drawing Title<br><b>Grand Canal to Lucan Urban Greenway<br/>General Arrangement</b> |                          |             |            |
| Drawing File Name<br>284399-ARUP-ZZ-XX-DR-C-0018                                    | Sheet Number<br>18 of 21 | Status<br>A | Rev<br>P03 |





EXISTING PEDESTRIAN  
CROSSING TO BE UPGRADED  
TO A RAISED ZEBRA CROSSING  
WITH BELISHA BEACONS

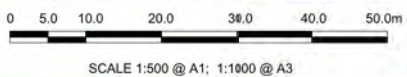
JUNCTION CORNER RADII TO  
BE TIGHTENED AND RAISED  
ENTRY TREATMENT TO BE  
PROVIDED

JUNCTION CORNER RADII TO  
BE TIGHTENED AND RAISED  
ENTRY TREATMENT TO BE  
PROVIDED

GRIFFEEEN AVENUE

LEGEND:

- SHARED SURFACE
- CYCLE TRACK
- FOOTPATH
- CARRIAGEWAY
- GRASS AREA / VERGE
- RAISED TABLE
- BOARDWALK
- BRIDGE TO BE REPLACED
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- EXISTING SIGN
- PROPOSED WAY FINDING SIGN



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| Rev                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Date       | Dwn             | Chk'd                     | App'd        | Description            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |          |                           |                             |       |             |     |          |    |              |           |                        |     |          |           |    |    |                        |                   |                             |    |    |    |                        |              |          |        |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                         |
| P01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 14/06/22   | JR              | AM                        | DC           | Draft Issue for Review |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |          |                           |                             |       |             |     |          |    |              |           |                        |     |          |           |    |    |                        |                   |                             |    |    |    |                        |              |          |        |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                         |
| P02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 22/07/22   | JR              | AM                        | DC           | Draft Issue for Review |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |          |                           |                             |       |             |     |          |    |              |           |                        |     |          |           |    |    |                        |                   |                             |    |    |    |                        |              |          |        |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                         |
| P03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12/08/22   | JR              | AM                        | DC           | Issue For NTA Approval |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |          |                           |                             |       |             |     |          |    |              |           |                        |     |          |           |    |    |                        |                   |                             |    |    |    |                        |              |          |        |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                         |
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| <table><tr><td>Date</td><td>12/08/2022</td><td>Scale</td><td>1:500 @ A1<br/>1:1000 @ A3</td><td>Drawn</td><td>JR</td><td>Checked</td><td>AM</td><td>Approved</td><td>DC</td></tr><tr><td>Project Code</td><td>284399-00</td><td>Originator Code</td><td>ARP</td><td>QMS Code</td><td colspan="4">284399-00</td><td>Drawing File Name</td><td>284399-ARUP-ZZ-XX-DR-C-0020</td></tr><tr><td colspan="4"></td><td>Sheet Number</td><td>20 of 21</td><td>Status</td><td>A</td><td>Rev</td><td>P03</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                 |                           |              |                        | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12/08/2022 | Scale    | 1:500 @ A1<br>1:1000 @ A3 | Drawn                       | JR    | Checked     | AM  | Approved | DC | Project Code | 284399-00 | Originator Code        | ARP | QMS Code | 284399-00 |    |    |                        | Drawing File Name | 284399-ARUP-ZZ-XX-DR-C-0020 |    |    |    |                        | Sheet Number | 20 of 21 | Status | A | Rev | P03 |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                         |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12/08/2022 | Scale           | 1:500 @ A1<br>1:1000 @ A3 | Drawn        | JR                     | Checked                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AM         | Approved | DC                        |                             |       |             |     |          |    |              |           |                        |     |          |           |    |    |                        |                   |                             |    |    |    |                        |              |          |        |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                         |
| Project Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 284399-00  | Originator Code | ARP                       | QMS Code     | 284399-00              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |          | Drawing File Name         | 284399-ARUP-ZZ-XX-DR-C-0020 |       |             |     |          |    |              |           |                        |     |          |           |    |    |                        |                   |                             |    |    |    |                        |              |          |        |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                         |
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EXISTING FOOTPATH TO BE  
RETAINED AND TIED INTO  
SHARED SURFACE

EXISTING FOOTPATH TO BE  
RETAINED AND TIED INTO  
SHARED SURFACE

EXISTING FOOTPATH TO BE  
RETAINED AND TIED INTO  
SHARED SURFACE

SHEET 04  
SHEET 20

PROPOSED NATIVE  
HEDGING TO EXTEND  
EXISTING HEDGEROW

0 5.0 10.0 20.0 30.0 40.0 50.0m

SCALE 1:500 @ A1; 1:1000 @ A3

LEGEND:

- SHARED SURFACE
- CYCLE TRACK
- FOOTPATH
- CARRIAGEWAY
- GRASS AREA / VERGE
- RAISED TABLE
- BOARDWALK
- BRIDGE TO BE REPLACED
- BRIDGE TO BE RETAINED
- HIGH QUALITY PAVEMENT
- EXISTING PAVEMENT TO BE REMOVED
- PROPOSED LIGHTING
- BUS STOP LOCATIONS
- BUS SHELTER
- HERITAGE FEATURES
- SITE BOUNDARY LINE
- EXISTING SIGN
- PROPOSED WAY FINDING SIGN

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| Rev | Date     | Dwn | Chk'd | App'd | Description            |
|-----|----------|-----|-------|-------|------------------------|
| P01 | 14/06/22 | JR  | AM    | DC    | Draft Issue for Review |
| P02 | 22/07/22 | JR  | AM    | DC    | Draft Issue for Review |
| P03 | 12/08/22 | JR  | AM    | DC    | Issue For NTA Approval |
|     |          |     |       |       |                        |
|     |          |     |       |       |                        |

|                                                                                         |            |
|-----------------------------------------------------------------------------------------|------------|
| Client<br><b>Comhairle Contae<br/>Atha Cliath Theas<br/>South Dublin County Council</b> |            |
| Date                                                                                    | 12/08/2022 |
| Project Code                                                                            | 284399-00  |

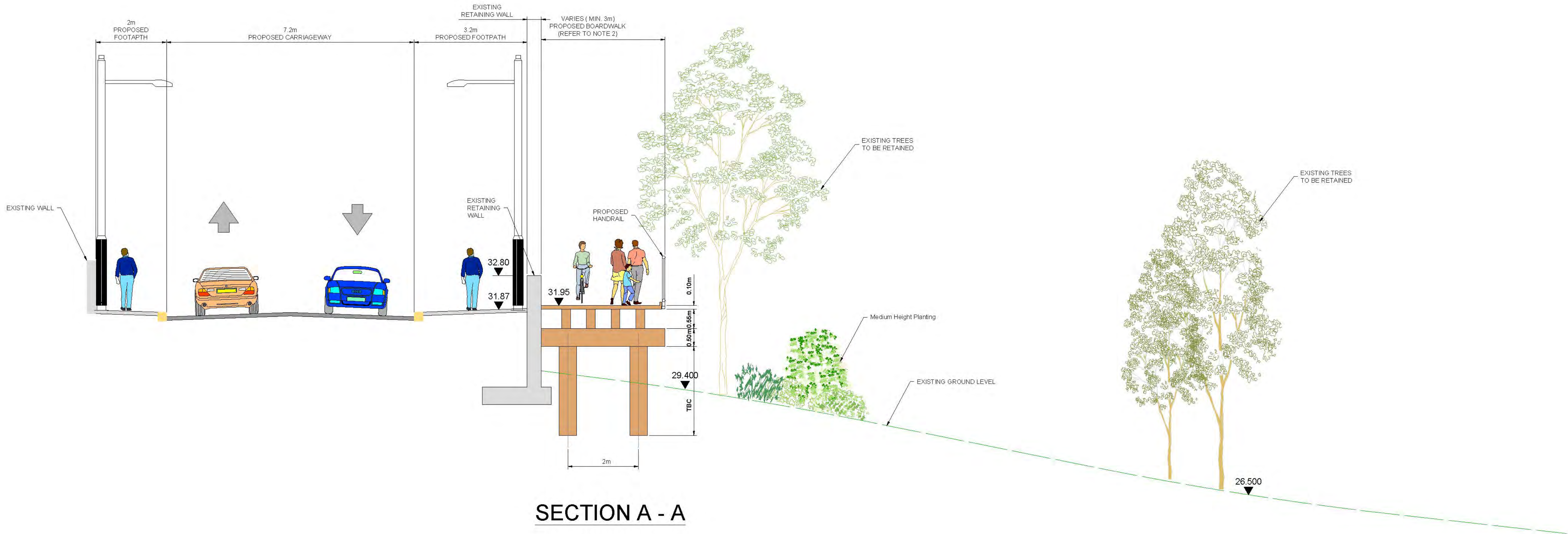
|                                     |                           |          |    |
|-------------------------------------|---------------------------|----------|----|
| Engineering Designer<br><b>ARUP</b> |                           |          |    |
| Scale                               | 1:500 @ A1<br>1:1000 @ A3 | Drawn    | JR |
| Checked                             | AM                        | Approved | DC |
| QMS Code                            | 284399-00                 |          |    |

|                                                                                     |                             |              |          |
|-------------------------------------------------------------------------------------|-----------------------------|--------------|----------|
| Programme Title<br><b>Grand Canal to Lucan Urban Greenway</b>                       |                             |              |          |
| Drawing Title<br><b>Grand Canal to Lucan Urban Greenway<br/>General Arrangement</b> |                             |              |          |
| Drawing File Name                                                                   | 284399-ARUP-ZZ-XX-DR-C-0021 | Sheet Number | 21 of 21 |
| Status                                                                              | A                           | Rev          | P03      |

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2) As the width of the boardwalk varies depending on it's proximity to existing trees to be retained, the numbers of beams and columns required will increase depending on the max width at any given location.

Legend:

- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE REMOVED
- BOARDWALK
- PROPOSED COLUMNS



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| P01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 06/09/2022 | JR      | AM              | DC       | For Planning |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |          |    |       |       |             |     |            |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |            |       |              |       |    |         |    |          |    |              |           |  |                 |  |  |          |  |  |  |                                                                                                                                                                                                                                                                                                 |       |    |         |    |          |    |          |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                       |              |          |        |         |
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