

Specifications:

This scheme is to be constructed within the following Network Rail standard specifications NR/L3/CIV/140 Issue 12.

- 010 General
- 040 Demolition & Site Clearance
- 160 General Requirements for Structural Timber
- 162 Workmanship for Structural Timber
- 164 Timber Preservation and Fire Protection
- 170 General Requirements for Protective Treatments
- 171 Maintenance Coating Works
- 172 Protective Coating of New Steelwork
- 173 Protective Coating of Existing Structural Steelwork and Ironwork
- 176 Protective Coating Systems
- 1800 Structural Steelwork

Site Location:

- Footbridge: WEB/10A - Green Lane Footbridge
- Mileage: 92m 1144yds (52chs)
- OS Grid Ref: TF 242 224

Scope of Works:

- Mechanically prepare and repair.
- Replacement of timber deck and stair treads like for like.
- Steelwork repairs and strengthening.

General:

- Network Rail Standard Colour Key (shown on all drawings):

| KEY         |                                  |
|-------------|----------------------------------|
| <div></div> | (Black) - Existing Elements      |
| <div></div> | (Red) - Proposed Elements        |
| <div></div> | (Blue) - Elements To Be Modified |
| <div></div> | (Green) - Elements To Be Removed |

- The contractor shall be responsible for the design, fabrication, erection and removal of all temporary works.
- The contractor to check all setting out prior to commencement of the works.
- Elements are to be marked clearly with relevant reference (i.e. East, West, North or South) to ensure correct placement.
- All proprietary products and materials are to be used and installed in accordance with the manufacturer's instructions and recommendations by suitably competent persons.

Timber Deck and Antislip Surfacing:

- New timber deck to have GRP anti-slip surface with slip resistance (wet and dry) of 35 as measured in accordance with the pendulum floor friction test BS EN 13036-4. Method for assessment of slip/skip resistance of a surface - the pendulum test
- Front edge of steps to have non slip nosing conspicuously marked. Nosing shall be colour contrasted from the rest of the step, for its full width to a depth of 55mm on tread and riser. In line with current DFT requirements.
- Nosing at the top and bottom of each flight to be yellow, intermediate step nosings to be white.
- New timber deck to be:
  - Landing areas and footbridge span area formed from 270mmx100mm to match existing timber units.
  - Stair treads to be formed from 300mmx75mm to match existing timber units.
- All timber decking and treads (except nosings) to be covered by separate Dura tread anti-slip surfacing or equal approved.
- Timber to be softwood in accordance with BS EN 14081 or BS 4978 or hardwood in accordance with BS 5756. Preferred timber to be Accoya.
- Timber strenght class to be from BS EN 338 and to be minimum grade C24 for softwood or D24 for hardwood.
- All timber components shall have traceable certified origin, auditable treatment and a stated underwritten warranty.
- Timber to be treated in accordance with BS 5268-5 or BS 8417.

Warning Surfaces:

- Corundum precast slab at the foot of the stairs formed from 400mm x 400mm x 50mm concrete slabs. Colour to be agreed with Network Rail.
- Corundum tactile strips at the top of the stairs on the bridge deck to be 400mmx400mm timber surface mounted hazard cordunry by Viztek or similar approved. Colour to be agreed with Network Rail.

Steelwork:

- All proposed steelwork to be grade S355 J2 in accordance with BS EN 10025.
- Steelwork to comply with BS EN 1090 for Execution class EXC3 and Tolerance Class 2.
- Site templates of all new elements are to be created. All new elements to be match marked and drilled on site prior to installation. Under no circumstances are these drawings to be used to fabricate new steelwork elements.
- TCBs to have sufficient length to connect existing and proposed steelwork. Lengths to be verified on site.
- TCBs S10T are in accordance with BS EN 14399-10:2018.
- Existing rivets are to be replaced by TCBs at locations shown. Holes shall be reamed out by a minimum 2mm then sized to suit the new bolts.

Protective Coatings:

- All new steelwork to receive a Network Rail approved N1 paint system in accordance with NR/L3/CIV/039, NR/L3/CIV/040 and NR/GN/CIV/002.
- All exposed metal to be mechanically prepared to S3 (BS EN ISO 8501-1) using power or hand tools repainted with an M34 paint system in accordance with NR/L3/CIV/039 and NR/L3/CIV/040.
- Paint colour to be Hollybush Green (RAL 14-C-39) to match existing.

DRAWING LIST

| Drawing Number             | Revision | Drawing Name                                              |
|----------------------------|----------|-----------------------------------------------------------|
| CC0946-AMD-01-XX-DR-C-0001 | P02      | General Notes and Specifications                          |
| CC0946-AMD-01-XX-DR-C-0002 | P01      | Existing General Arrangement                              |
| CC0946-AMD-01-XX-DR-C-0003 | P02      | Defects and Proposed Repairs                              |
| CC0946-AMD-01-XX-DR-C-0004 | P02      | Proposed Deck Replacement                                 |
| CC0946-AMD-01-XX-DR-C-0005 | P02      | Proposed Steelwork Repairs and Strengthening Sheet 1 of 2 |
| CC0946-AMD-01-XX-DR-C-0006 | P02      | Proposed Steelwork Repairs and Strengthening Sheet 2 of 2 |
| CC0946-AMD-01-XX-DR-C-0007 | P02      | Proposed Repair Plates Details                            |

ENVISAGED CONSTRUCTION SEQUENCE

(p) indicates possession may be required

- Establish site compound and safe system of work
- Establish diversion route when the bridge is closed
- Remove timber deck (p)
- Mechanically prepare the areas for repairing. (p)
- Inspect structure for additional defects previously hidden by the deck.
- Repair structure (p)
- Undertake steelwork repairs and strengthening (p)
- Install timber deck units (p)
- Install anti-slip surfacing
- Install timber stair treads.
- Reopen footbridge and demobilise site

SAFETY, HEALTH AND ENVIRONMENT INFORMATION

The following notes highlight significant residual hazards identified by the designer. Typical hazards that should be identified by a competent contractor are not included. The contractor shall carry out the works using an approved safe system of work. Further information on hazards can be found in the DRA and / or CSM hazard log.

| HAZ | Residual Hazard                               |
|-----|-----------------------------------------------|
| 001 | Interface with operational Railway and Public |
| 002 | Working at height                             |
| 003 | Prefabricated elements                        |
| 004 | Additional unknown defects                    |
| 005 | Manual handling                               |
| 006 | Existing paint containing toxic metals        |
| 007 | Dust and Noise                                |
| 008 | Working with Chemicals                        |
| 009 | Invasive Species                              |
| 010 | Services                                      |

TABLE OF RESULTS

| PAINT FLAKE ANALYSIS (UNITS: %w/w) |         |
|------------------------------------|---------|
| Aluminium (Al)                     | 1.4     |
| Arsenic (As)                       | 0.0083  |
| Cadmium (Cd)                       | 0.00055 |
| Chromium (Cr)                      | 0.022   |
| Lead (Pb)                          | 21      |
| Zinc (Zn)                          | 0.96    |
| N.B. Allowable lead content is 1%  |         |

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Notes:

- Unless shown otherwise or indicated in the Specification, whichever is the more onerous, dimensional tolerance is to be in accordance with Tables 1 and 2 of BS 5606.
- All dimensions are in millimetres (mm) unless noted otherwise. DO NOT SCALE FROM THIS DRAWING, USE FIGURED DIMENSIONS ONLY.
- This drawing is to be read in conjunction with the Specification and any Specialist drawings.
- UNLESS THE REVISION OF THIS DRAWING IS DENOTED BY THE PREFIX C THEN THIS DRAWING IS NOT FOR CONSTRUCTION.

IF IN DOUBT ASK

|       |          |                     |       |       |        |
|-------|----------|---------------------|-------|-------|--------|
| P02   | 22.11.23 | Issued For Approval | BWS   | MAS   | DAW    |
| P01   | 10.11.23 | Issued For Comment  | BWS   | MAS   | DAW    |
| Issue | Date     | Description         | Drawn | Desk. | Chk'd. |

|             |                             |
|-------------|-----------------------------|
| Suitability | S4 - Fit For Stage Approval |
|-------------|-----------------------------|



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Client

**AMCO-GIFFEN**

Client Job No.

5674A\_LNE\_AMC

Contract

WEB/10A GREEN LANE  
FOOTBRIDGE  
92m 1144yds (52ch)

Title

GENERAL NOTES AND  
SPECIFICATIONS

Scale (A1)

AS SHOWN

|                            |       |
|----------------------------|-------|
| Drawing No.                | Issue |
| CC0946-AMD-01-XX-DR-C-0001 | P02   |