

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 repaint.
•• Replacement of timber deck and stair treads like for like.
•• Steelwork repairs and strengthening.

General:
1. Network Rail Standard Colour Key (shown on all drawings):

KEY	
	(Black) - Existing Elements
	(Red) - Proposed Elements
	(Blue) - Elements To Be Modified
	(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 55 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. Nosings 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:

- Corduroy precast slab at the foot of the stairs formed from 400mm x 400mm x 50mm concrete slabs. Colour to be agreed with Network Rail.
- Corduroy tactile strips at the top of the stairs on the bridge deck to be 400mmx400mm timber surface mounted hazard corduroy 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 St3 (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	
1.	Establish site compound and safe system of work
2.	Establish diversion route when the bridge is closed
3.	Remove timber deck (p)
4.	Mechanically prepare the areas for repairing. (p)
5.	Inspect structure for additional defects previously hidden by the deck.
6.	Repaint structure (p)
7.	Undertake steelwork repairs and strengthening (p)
8.	Install timber deck units (p)
9.	Install anti-slip surfacing
10.	Install timber stair treads.
11.	Reopen footbridge and demobilise site

SAFETY, HEALTH AND ENVIRONMENT INFORMATION	
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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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- [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	Des.	Chkd.

Suitability
S4 - Fit For Stage Approval

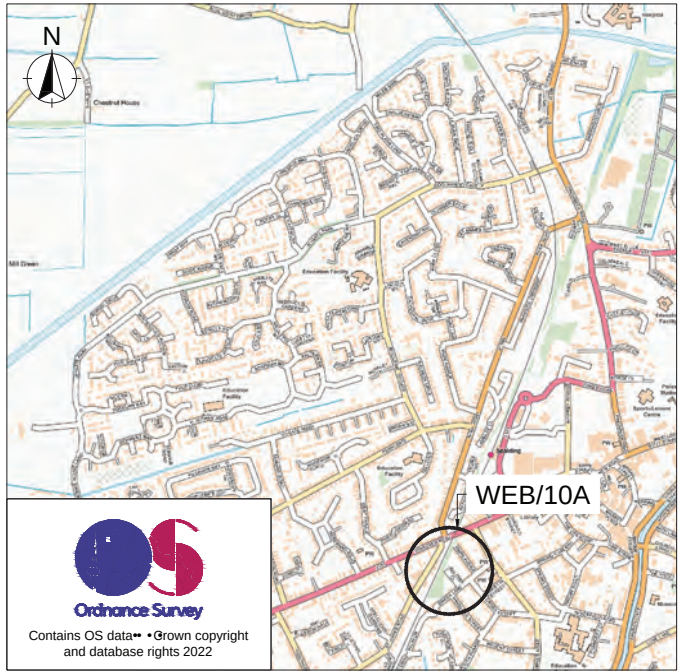


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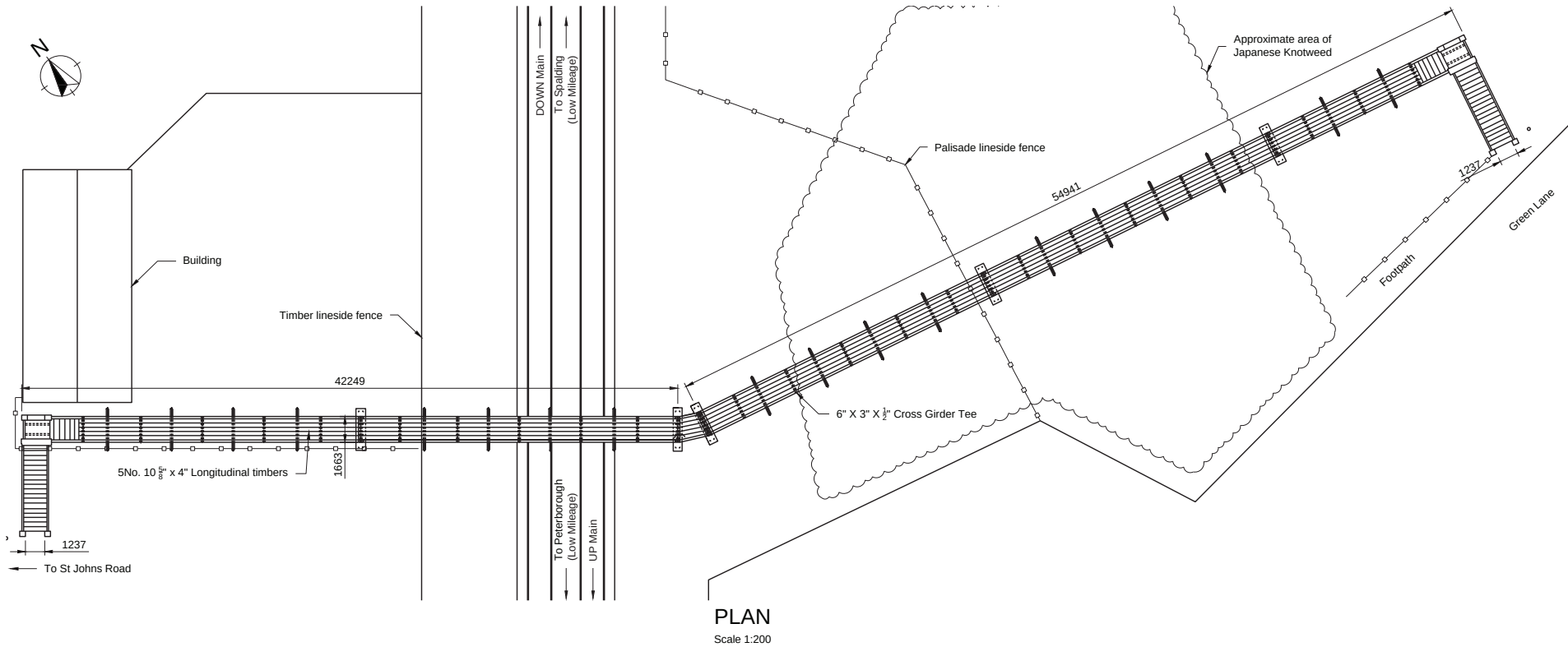
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Client	
AMCO GIFFEN	
Client Job No.	
5674A_LNE_AMC	
Contract	
WEB/10A GREEN LANE FOOTBRIDGE 92m 1144yds (52ch)	
Title	
GENERAL NOTES AND SPECIFICATIONS	
Scale (A1)	
AS SHOWN	
Drawing No.	Issue
CC0946-AMD-01-XX-DR-C-0001	P02



LOCATION PLAN
NTS

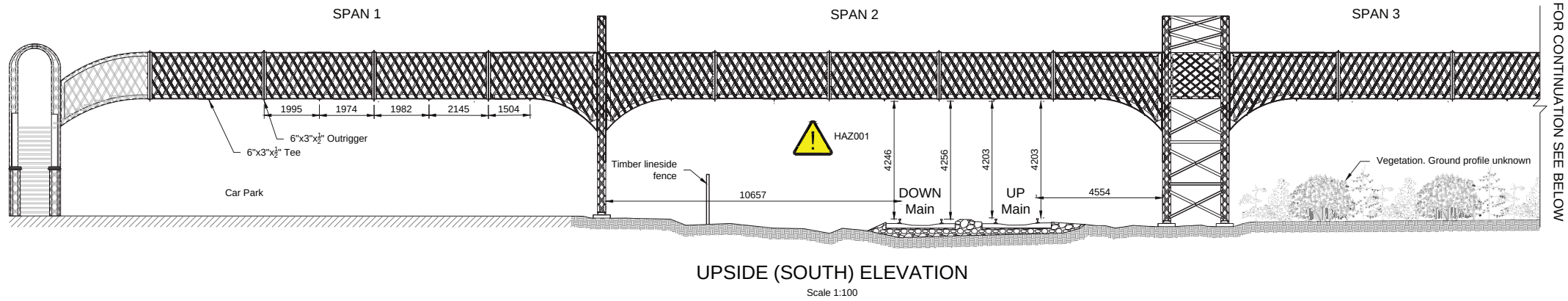


PLAN
Scale 1:200

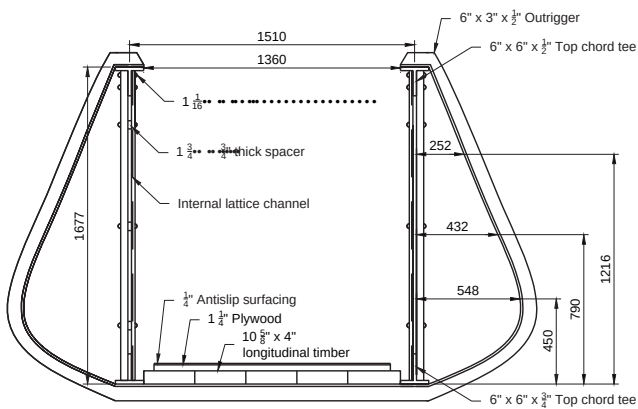
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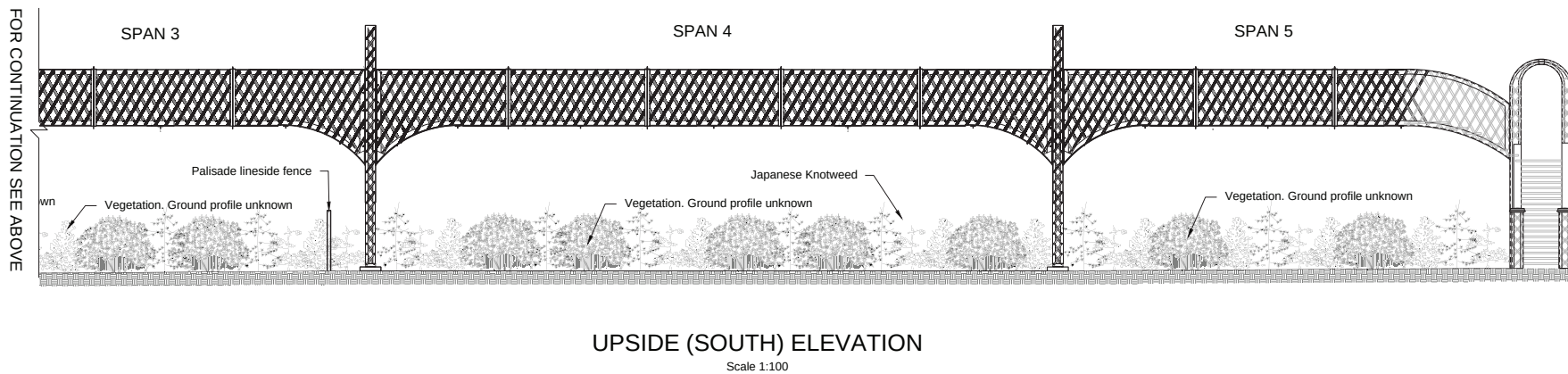
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UPSIDE (SOUTH) ELEVATION
Scale 1:100



SECTION 1-1
Scale 1:20



UPSIDE (SOUTH) ELEVATION
Scale 1:100

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Client

AMCO GIFFEN

Client Job No.

5674A_LNE_AMC

Contract

WEB/10A Green Lane
92m 1144yds (52ch)

Title

EXISTING
GENERAL ARRANGEMENT

Scale (A1)

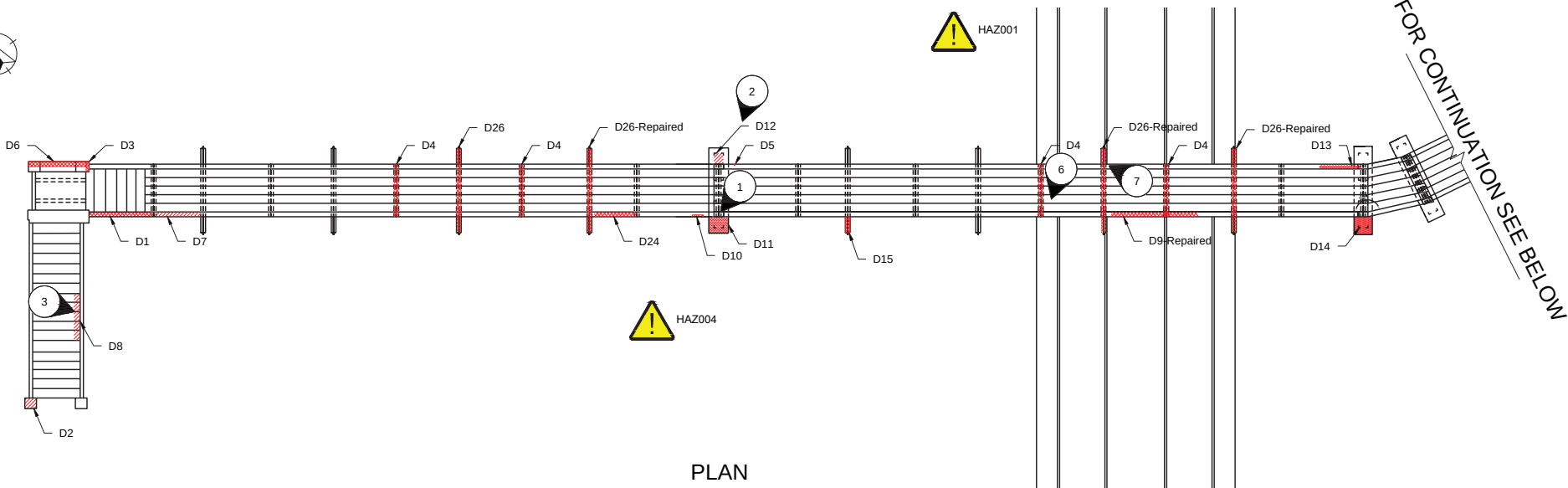
AS SHOWN

Drawing No.

CC0946-AMD-01-XX-DR-C-0002

Issue

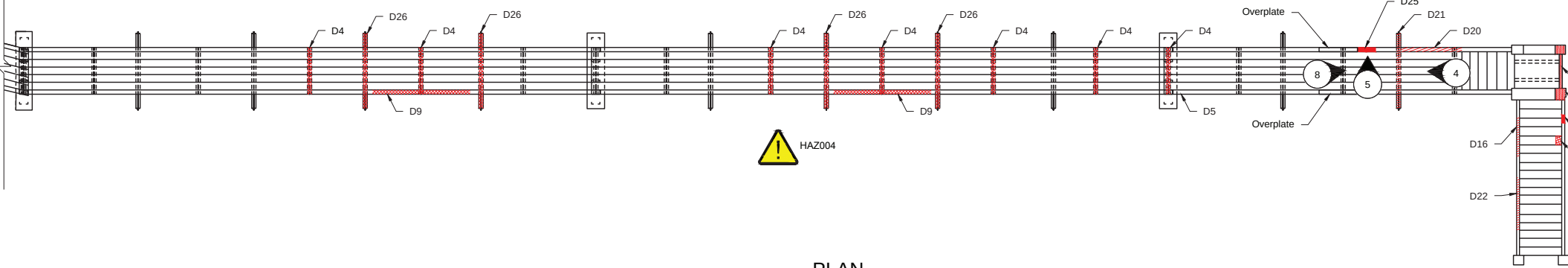
P01



PLAN
Scale 1:100



FOR CONTINUATION SEE ABOVE



PLAN
Scale 1:100



PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4



PHOTO 5



PHOTO 6

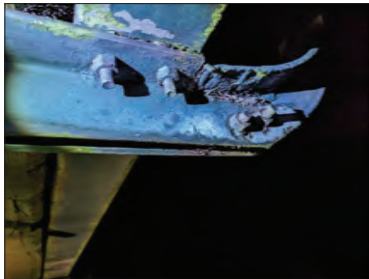


PHOTO 7



PHOTO 8

SAFETY, HEALTH AND ENVIRONMENT INFORMATION	
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009	Signal Sighting Obstruction
010	Services

DEFECTS AND REPAIR SCHEDULE		
REF	DESCRIPTION	PROPOSED REPAIR
D1	Staircase support angles corrosion 6-12mm deep, approx 0.5m² total	Angles to be replaced when the stair tread is replaced. Refer to drawing CC0946-AMD-01-XX-DR-C-0005 for details
D2	End post LOS	Break out ground, overplate angle. Refer to drawing CC0946-AMD-01-XX-DR-C-0005 for details
D3	Staircase supports corrosion 1-5mm & LOS to diagonal bracings	Replacement of lattice bracing
D4	Under Slung T braces corrosion 4-6mm. Top flanges corrosion 1-3mm	Strengthening underslung T-brace or replacement by new element. Refer to drawing CC0946-AMD-01-XX-DR-C-0005 for details
D5	Section of MG TF cut out 50x30mm	Do nothing. Subject to assessment result of this element.
D6	Pier legs and diagonal bracings corrosion 1-5mm	Replacement of defective lattice bracing
D7	LOS to MG BF approx 500x30mm	To be inspected following mechanical preparation to determine LOS thickness. Likely do nothing.
D8	Staircase stringers corrosion 3-6mm deep. Loss to edges of steps	To be inspected following mechanical preparation to determine LOS thickness. Likely do nothing for surface LOS. Replacement of cleats for severe LOS during the replacement of the stair treads. Refer to drawings CC0946-AMD-01-XX-DR-C-0005 & 0006 for details
D9	MG BF corrosion 1-5mm. Joint plates LOS 5-15mm and corrosion 4-8mm.	To be inspected following mechanical preparation. If the LOS is severe, it is proposed to strengthen with an overplate fixed with TCBs. Refer to drawing CC0946-AMD-01-XX-DR-C-0005 for details
D10	Lattice bracings LOS 15x20mm	No repair proposed
D11	Ivy growing up high mileage end pier	Clear vegetation
D12	To pier legs, isolated lattices LOS 30x40mm. Internal bracings corrosion 1-5mm With LOS 100x20mm	Replacement of defective lattice bracing.
D13	Corrosion to support plates 3-6mm	To be inspected further. Information is not clear from the Detailed Examination.
D14	Vegetation growing up to and all around pier	Clear vegetation
D15	T bracings corrosion 1-3mm to all bolts	No repair proposed
D16	Staircase MG LOS 200x30mm with surrounding 200x400mm area corrosion 3-5mm	Overlapping stair stringer subject to inspection of LOS thickness.
D17	Vegetation growing up around staircase	Clear vegetation
D18	Staircase MG 2 No. missing bolts/rivets	Reinstall new bolts
D19	Lattice bracings isolated LOS 30x20mm	Replacement of defective lattice bracing
D20	MG BF LOS 2mx10mm	To be inspected following mechanical preparation. If the LOS is severe, overlapping bottom flange of main girder. If it is surface LOS, do nothing.
D21	2No. Areas MG BF LOS 900x10mm with repair plates fitted	To be inspected following mechanical preparation. If the LOS is severe, it is proposed to replace the T-brace. If it is surface LOS, do nothing.
D22	Staircase MG LOS 5-15mm on bottom edge	Overlapping stair stringer subject to inspection of LOS thickness (similar to D16)
D23	Plate below cleat treads corrosion 3-6mm	To be inspected further. All cleats might be replaced subject to condition.
D24	1-5mm LOS & pitting to underside of bottom flange	To be inspected following mechanical preparation. If the LOS is severe, it is proposed to strengthen with an overplate fixed with TCBs.
D25	LOS to bottom flange of MG. Approx. 30-50mm x 1m length full loss of section along internal flange	Defect to be repaired with overplate. Reer to drawing CC0946-AMD-01-XX-DR-C-0005 for details.
D26	Under slung Outtrigger braces corrosion 4-6mm. Top flange corrosion 1-3mm	Strengthening underslung outrigger brace or replacement by new element

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- Defects are taken from Detailed Examination Report in 2017 by Amey.

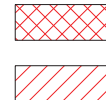
IF IN DOUBT ASK

SYMBOL KEY



Photo location and direction

HATCH KEY



Corrosion
Loss of Section

KEY



P02	22.11.23	Issued For Approval	BWS	MAS	DAW
P01	10.11.23	Issued For Comment	BWS	MAS	DAW
Issue	Date	Description	Drawn	Des.	Chkd.

Suitability

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Client

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Client Job No.

5674A_LNE_AMC

Contract

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

Title

DEFECTS AND
PROPOSED REPAIRS

Scale (A1)

AS SHOWN

Drawing No.

CC0946-AMD-01-XX-DR-C-0003

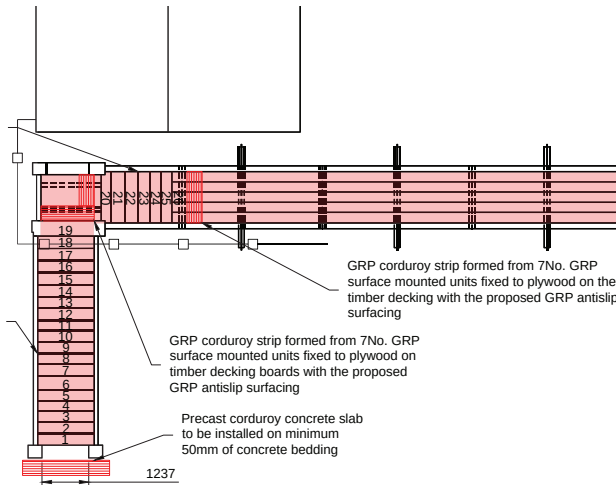
Issue

P02

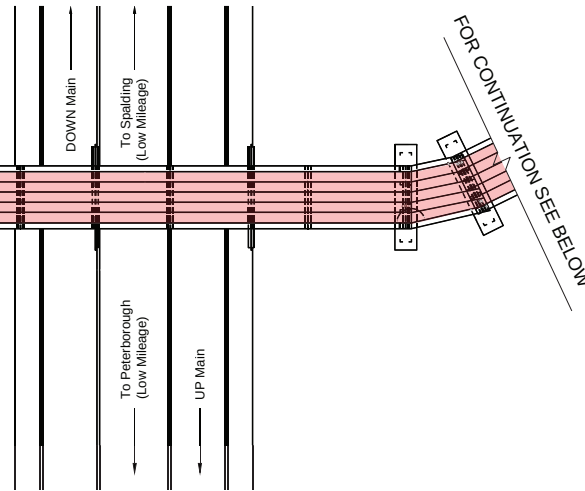


6No. Timber treads to replace the original treads. All timber treads to be covered with a suitable GRP antislip surfacing with a distinct nosing strip of at least 100mm

18No. Timber treads to replace the original treads. All timber treads to be covered with a suitable GRP antislip surfacing with a distinct nosing strip of at least 100mm



PLAN
Scale 1:100



FOR CONTINUATION SEE BELOW

SAFETY, HEALTH AND ENVIRONMENT INFORMATION	
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008	Working with Chemicals
009	Signal Sighting Obstruction
010	Services

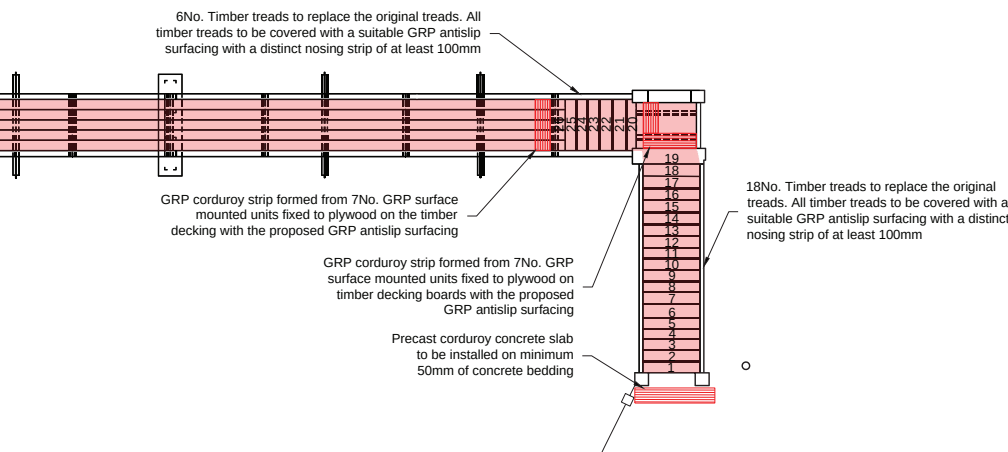
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 - Refer to drawing CC0946-AMD-01-XX-DR-C-0001 for general notes and specifications.
 - Timber deck and treads to be replaced like for like using Accoya softwood timber.
 - Footbridge to be mechanically prepared to ST3 standard and painted using a Network Rail PADSnet approved M34 system. Top coat to be Holly-Green (14-C-39).
- IF IN DOUBT ASK



FOR CONTINUATION SEE ABOVE

PLAN
DETAILS FOR GRP OPTION ONLY
Scale 1:100



KEY	
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	(Red) - Proposed Elements
	(Blue) - Elements To Be Modified
	(Green) - Elements To Be Removed

P02	22.11.23	Issued For Approval	BWS	MAS	DAW
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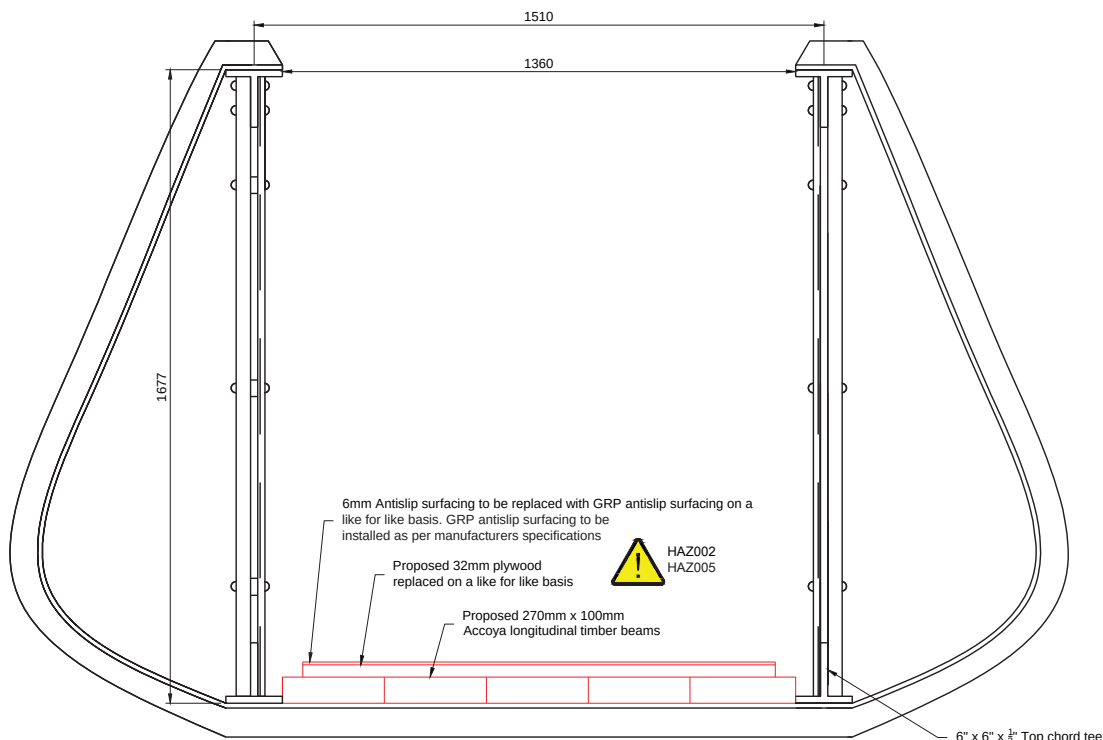
Contract
WEB/10A GREEN LANE
FOOTBRIDGE
92m 1144yds (52ch)

Title
PROPOSED DECK
REPLACEMENT

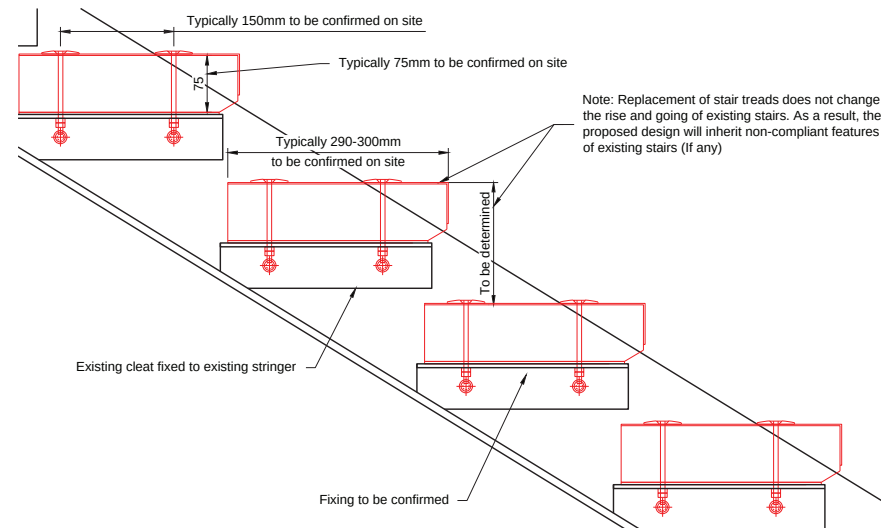
Scale (A1)
AS SHOWN

Drawing No.
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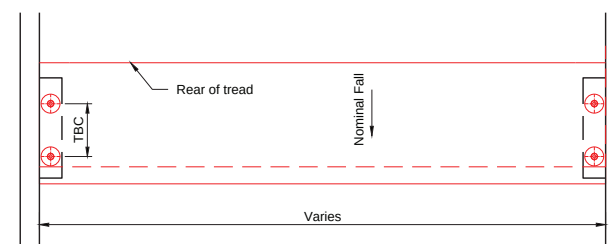
Issue
P02



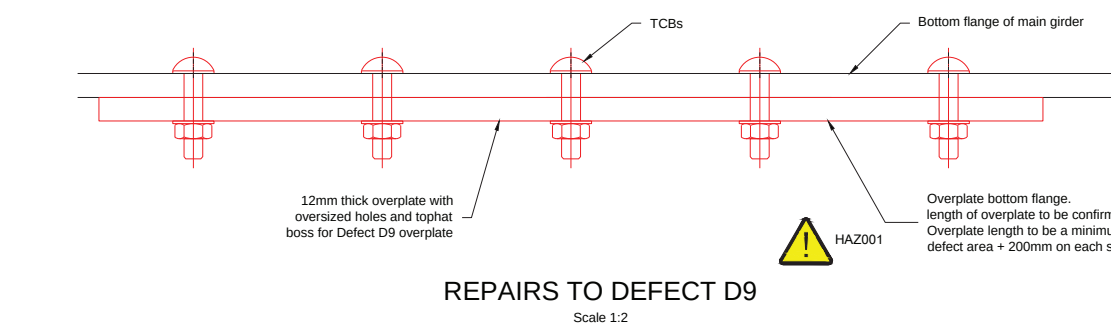
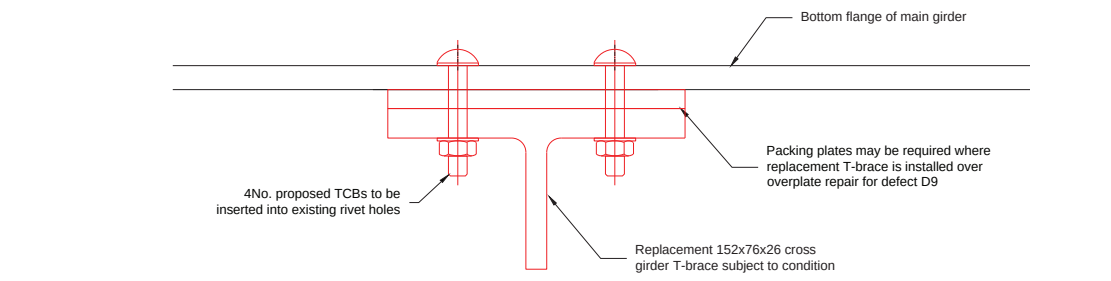
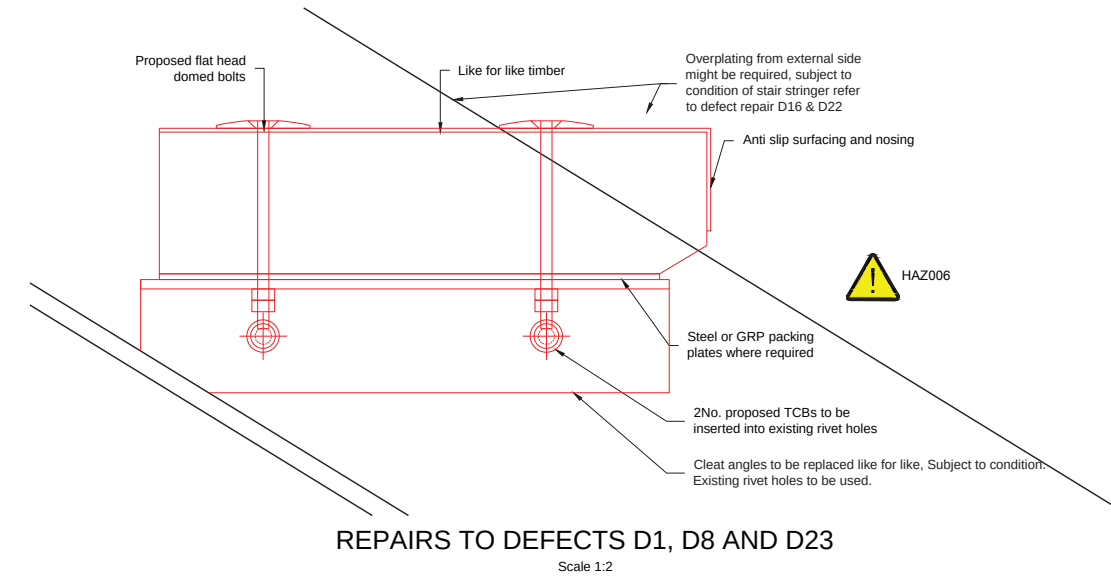
TYPICAL DECK REPLACEMENT SECTION
LIKE FOR LIKE REPLACEMENT
Scale 1:10



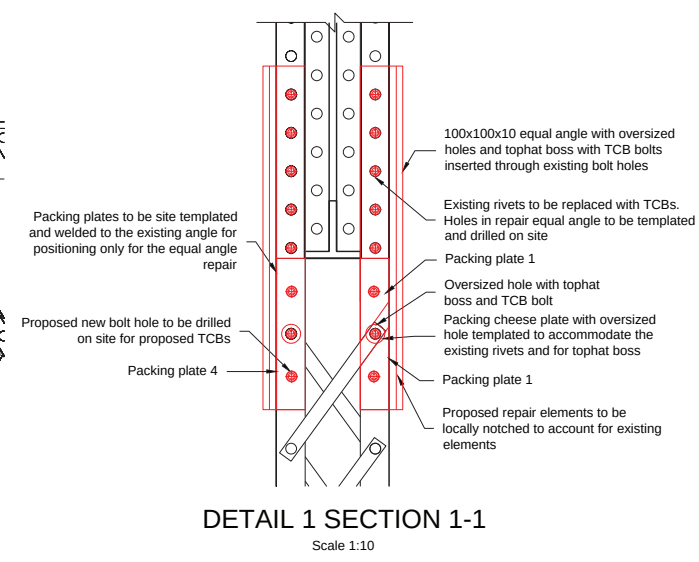
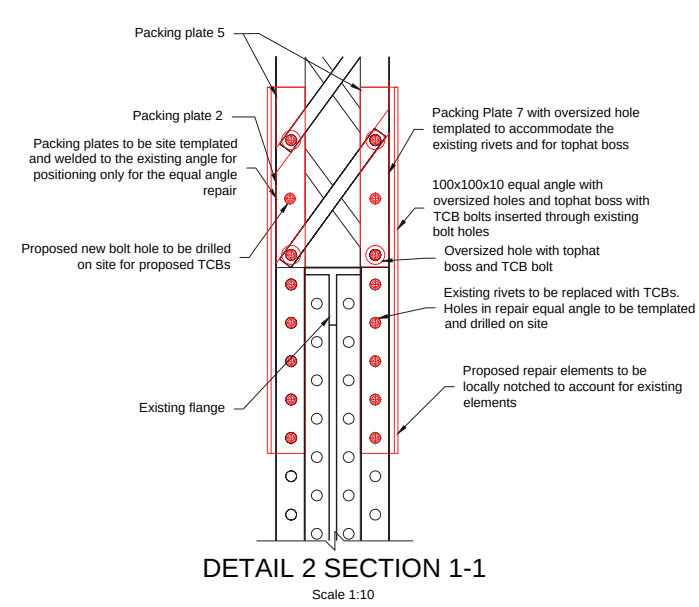
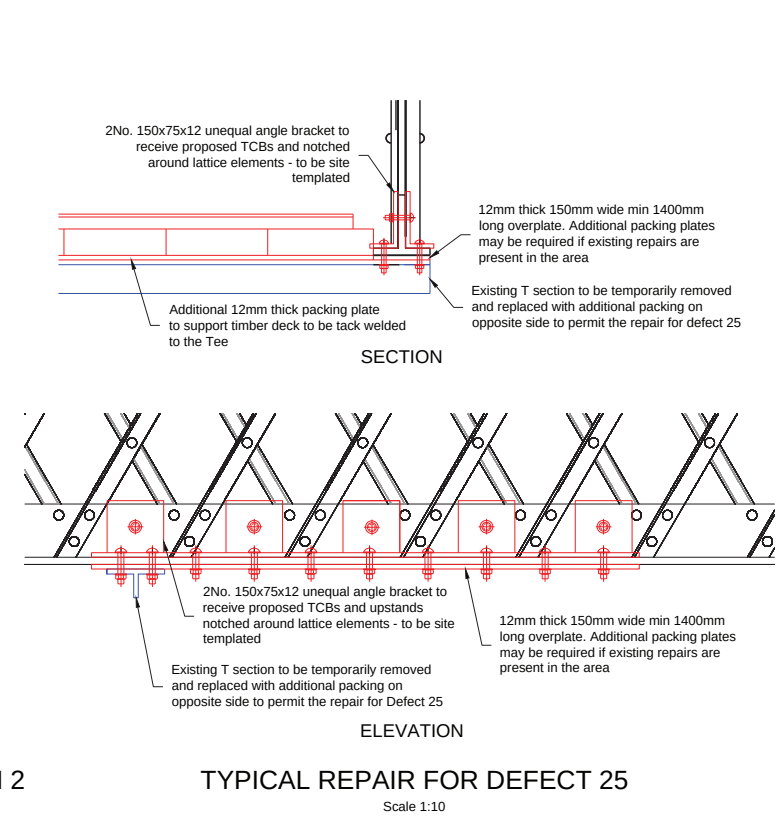
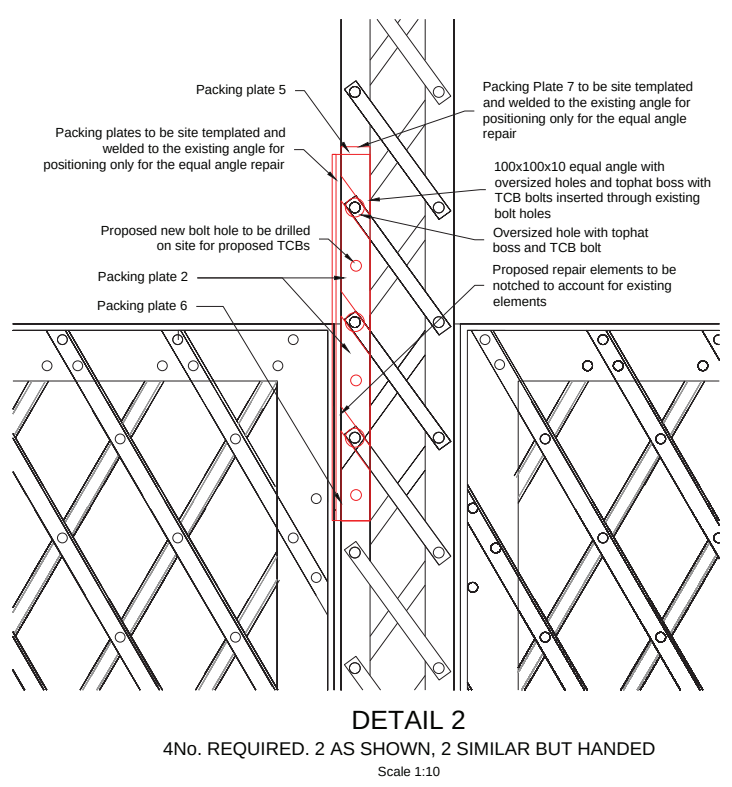
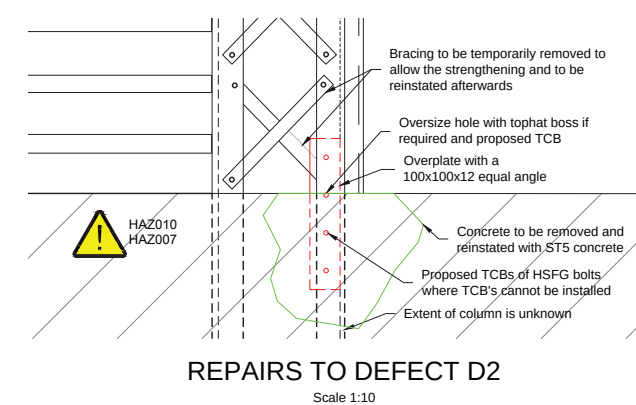
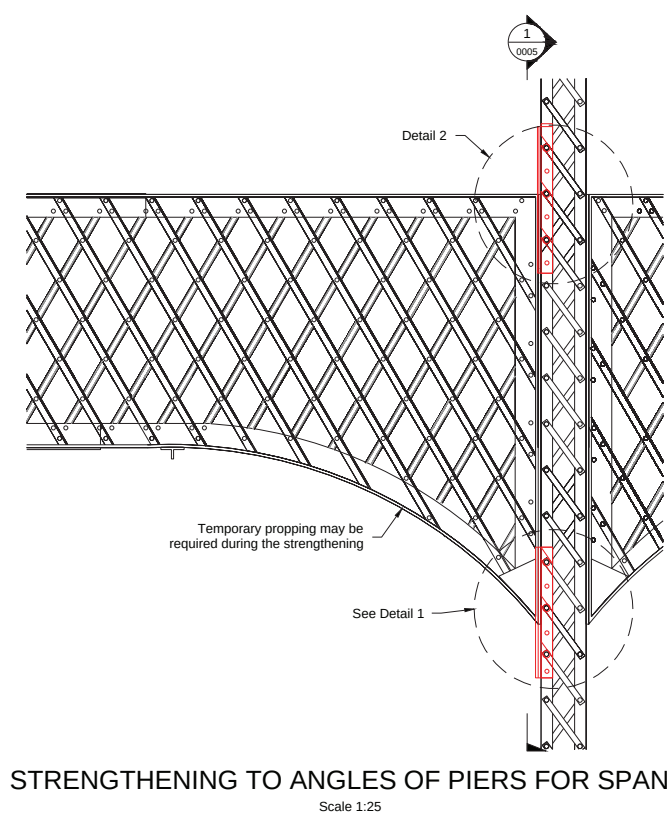
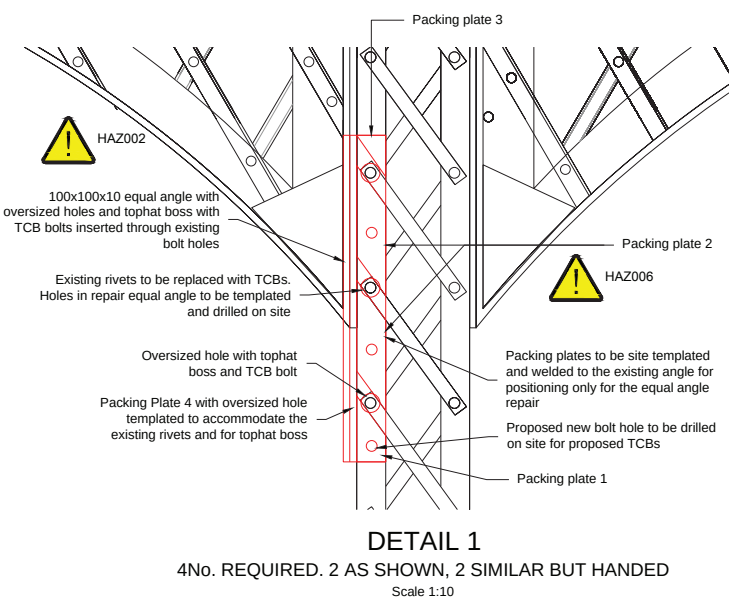
TYPICAL STAIR SECTION
Scale 1:5



TYPICAL STAIR DETAIL
Scale 1:10



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Notes:

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- 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.
- For plate details for repairs refer to drawing CC0946-AMD-01-XX-DR-C-0007.
- Refer to drawing CC0946-AMD-01-XX-DR-C-0001 for general notes and specifications.
- Timber deck and treads to be replaced like for like using Accoya softwood timber.
- Footbridge to be mechanically prepared to ST3 standard and painted using a Network Rail PADNet approved M34 system. Top coat to be Holly-Green (14-C-39).

IF IN DOUBT ASK

KEY					
	(Black) - Existing Elements				
	(Red) - Proposed Elements				
	(Blue) - Elements To Be Modified				
	(Green) - Elements To Be Removed				

P02	22.11.23	Issued For Approval	BWS	MAS	DAW
P01	10.11.23	Issued For Comment	BWS	MAS	DAW
Issue	Date	Description	Drawn	Des.	Chkd.

Suitability

S4 - Fit For Stage Approval

Whaley Road, Barugh, Barnsley, S75 1HT
Tel: +44(0)1226 243413
Fax: +44(0)1226 320202
www.amco.co.uk

Client

Client Job No.

5674A_LNE_AMC

Contract

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

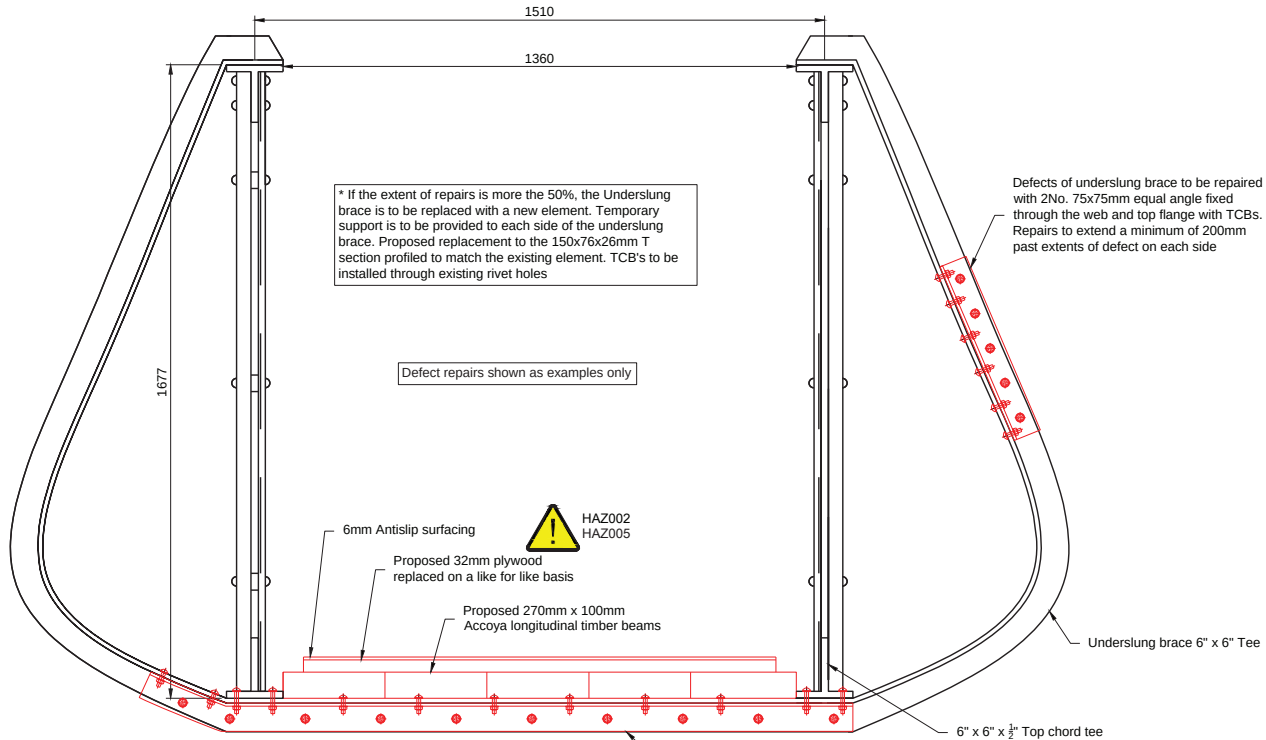
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PROPOSED STEELWORK REPAIRS AND STRENGTHENING SHEET 1 OF 2

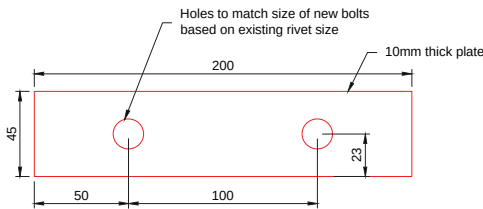
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AS SHOWN

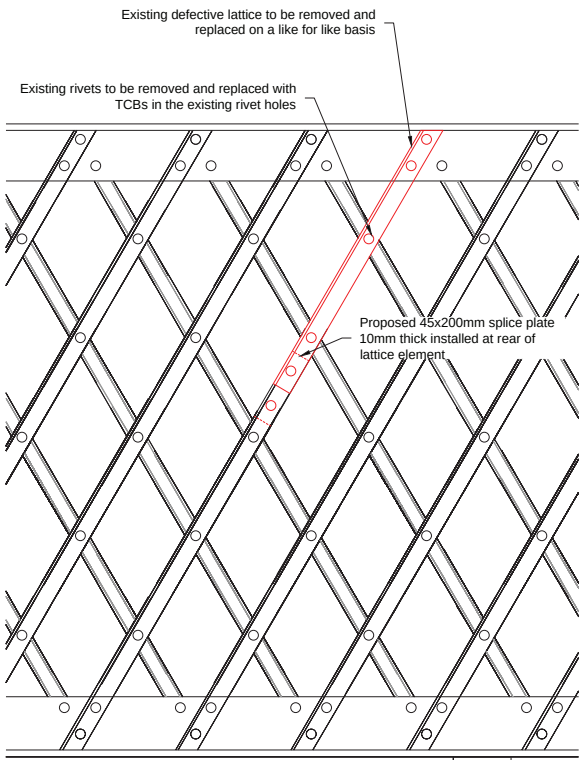
Drawing No.	Issue
CC0946-AMD-01-XX-DR-C-0005	P02



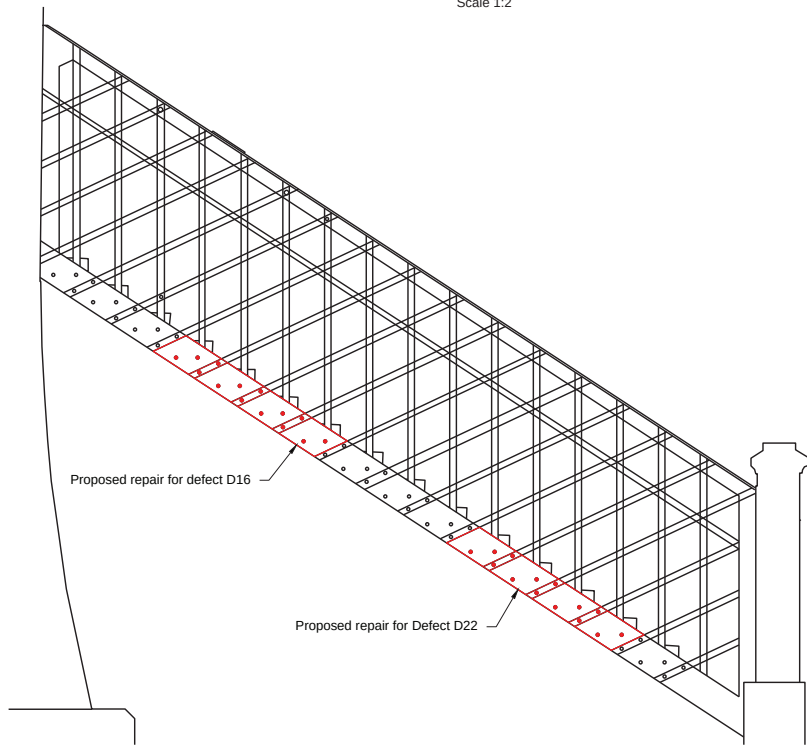
TYPICAL STRENGTHENING REPAIRS
FOR DEFECT D21 & D26
Scale 1:10



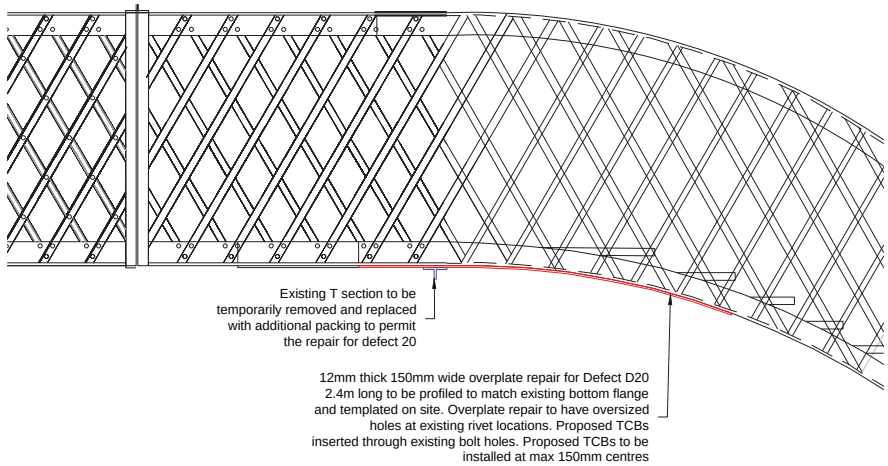
SPLICE PLATE DETAIL
Scale 1:2



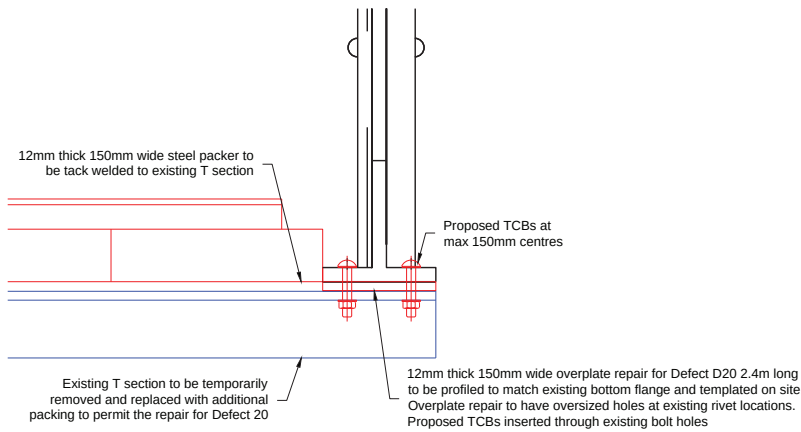
TYPICAL LATTICE REPAIR DETAIL
Scale 1:10



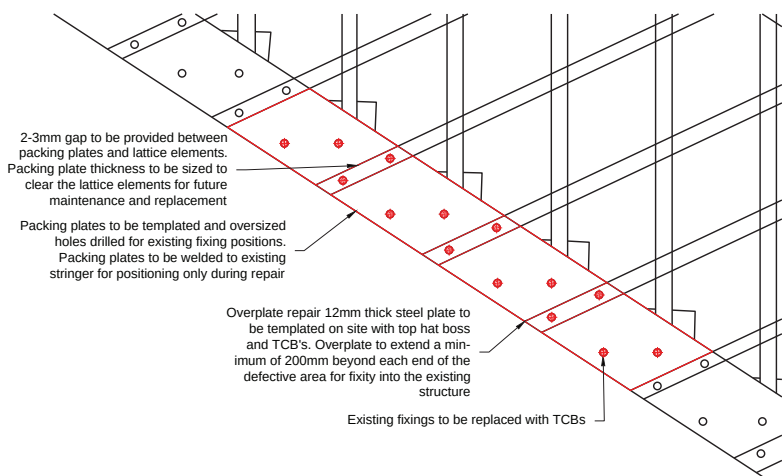
OVERPLATE REPAIR ELEVATION FOR DEFECT 16 & 22
Scale 1:25



OVERPLATE REPAIRS FOR DEFECT 20
ELEVATION
Scale 1:25



OVERPLATE REPAIRS FOR DEFECT 20
SECTION
Scale 1:10



TYPICAL OVERPLATE REPAIR DETAIL FOR DEFECT 8, 16 & 22
Scale 1:10

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

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 - Refer to drawing CC0946-AMD-01-XX-DR-C-0001 for general notes and specifications.
 - Timber deck and treads to be replaced like for like using Accoya softwood timber.
 - Footbridge to be mechanically prepared to ST3 standard and painted using a Network Rail PADSnet approved M34 system. Top coat to be Holly-Green (14-C-39).

IF IN DOUBT ASK

KEY	
—	(Black) - Existing Elements
—	(Red) - Proposed Elements
—	(Blue) - Elements To Be Modified
—	(Green) - Elements To Be Removed

P02	22.11.23	Issued For Approval	BWS	MAS	DAW
P01	10.11.23	Issued For Comment	BWS	MAS	DAW
Issue	Date	Description	Drawn	Des.	Chkd.

Suitability
S4 - Fit For Stage Approval



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Barnsley, S75 1HT
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Client Job No. 5674A_LNE_AMC

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

Title PROPOSED
STEELWORK REPAIRS AND
STRENGTHENING
SHEET 2 OF 2

Scale (A1) AS SHOWN

Drawing No. CC0946-AMD-01-XX-DR-C-0006	Issue P02
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Notes:

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- Refer to drawing CC0946-AMD-01-XX-DR-C-0001 for general notes and specifications.
- Timber deck and treads to be replaced like for like using Accoya softwood timber.
- Footbridge to be mechanically prepared to ST3 standard and painted using a Network Rail PADSnet approved M34 system. Top coat to be Holly-Green (14-C-39).
- Mass of proposed plates are as follows:
 - Packing Plate for Defect 8, 16 & 22 - 6kg
 - Overplate for Defect 8, 16 & 22 - Dependant on size
 - Overplate for Defect 20 - 35kg
 - Packing Plate 1 for Detail 1 - 2kg
 - Packing Plate 2 for Detail 1 & 2 - 2kg
 - Packing Plate 3 for Detail 1 - 1kg
 - Packing Plate 4 for Detail 1 - 1kg
 - Packing Plate 5 for Detail 2 - 2kg
 - Packing Plate 6 for Detail 2 - 3kg
 - Packing Plate 7 for Detail 2 - 3kg

IF IN DOUBT ASK

KEY

- (Black) - Existing Elements
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P02	22.11.23	Issued For Approval	BWS	MAS	DAW
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Issue	Date	Description	Drawn	Des.	Chkd.

Suitability

S4 - Fit For Stage Approval



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Client
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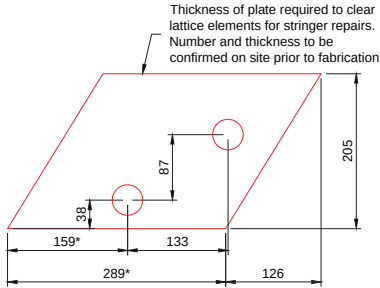
Client Job No.
5674A_LNE_AMC

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

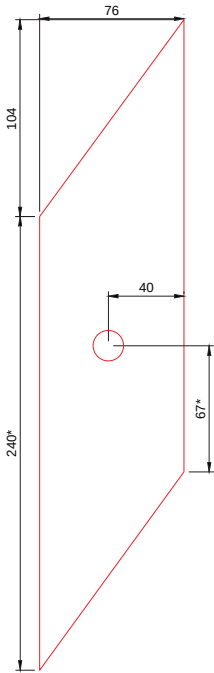
Title
PROPOSED PLATE DETAILS

Scale (A1) AS SHOWN

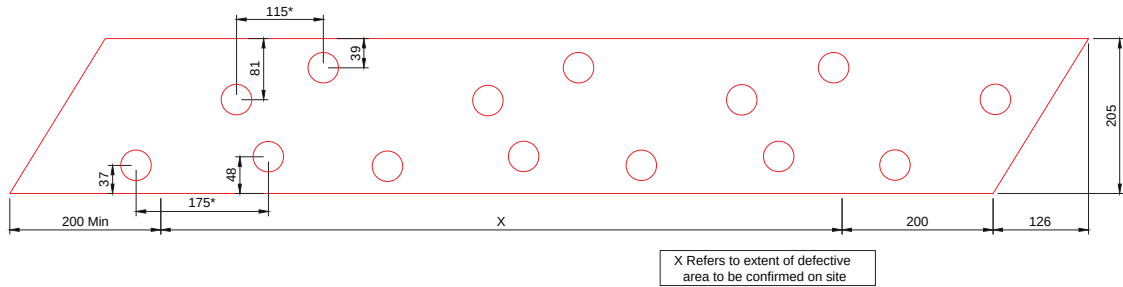
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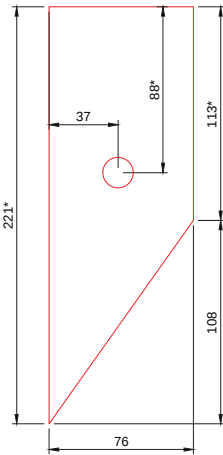
PACKING PLATES FOR DEFECTS 8, 16 & 22
No. TO BE DETERMINED FOLLOWING ON SITE TEMPLATING
FOR DEFECTS
SCALE 1:5



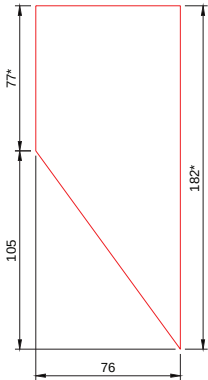
PACKING PLATE 2 FOR DETAIL 1 & 2
18No. REQUIRED - NUMBER TO BE CONFIRMED ON
SITE PRIOR TO FABRICATION
SCALE 1:2



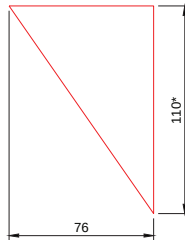
OVERPLATES FOR DEFECTS 8, 16 & 22
1No. PLATE REQUIRED PER DEFECT
SCALE 1:5



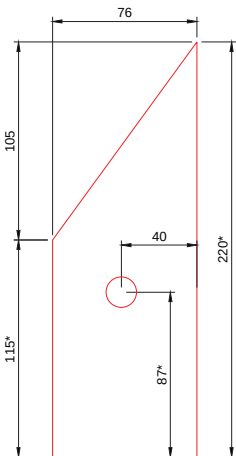
PACKING PLATE 1 FOR DETAIL 1
8No. REQUIRED - NUMBER TO BE CONFIRMED
ON SITE PRIOR TO FABRICATION
SCALE 1:2



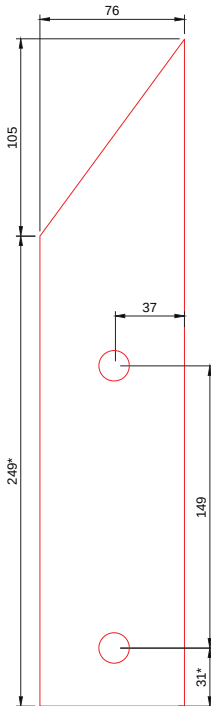
PACKING PLATE 5 FOR DETAIL 2
6No. REQUIRED - NUMBER TO BE CONFIRMED
ON SITE PRIOR TO FABRICATION
SCALE 1:2



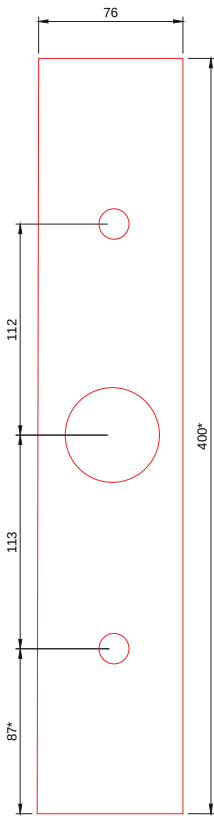
PACKING PLATE 3 FOR DETAIL 1
4No. REQUIRED - NUMBER TO BE CONFIRMED
ON SITE PRIOR TO FABRICATION
SCALE 1:2



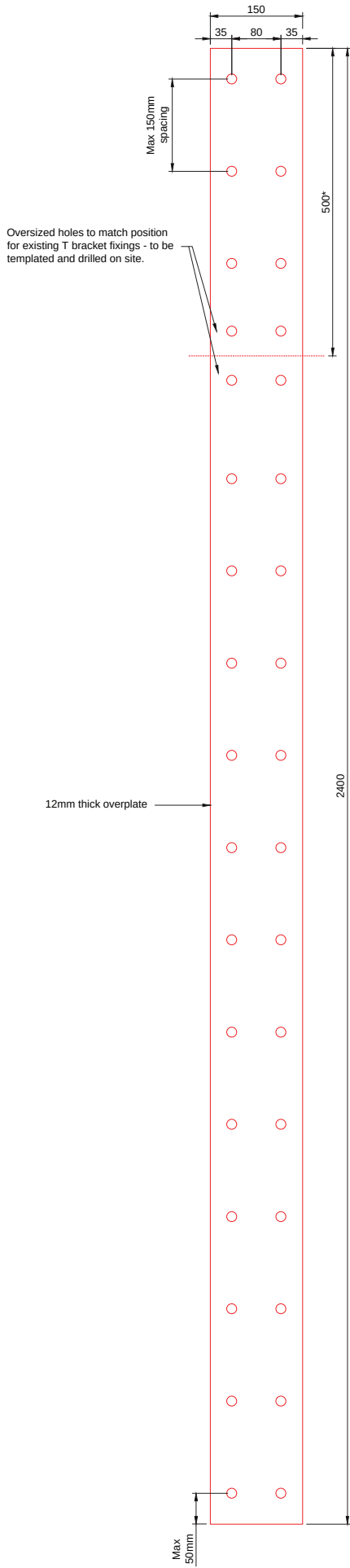
PACKING PLATE 6 FOR DETAIL 2
4No. REQUIRED - NUMBER TO BE CONFIRMED ON
SITE PRIOR TO FABRICATION
SCALE 1:2



PACKING PLATE 7 FOR DETAIL 2
2No. REQUIRED - NUMBER TO BE CONFIRMED
ON SITE PRIOR TO FABRICATION
SCALE 1:2



PACKING PLATE 4 FOR DETAIL 1
2No. REQUIRED - NUMBER TO BE CONFIRMED
ON SITE PRIOR TO FABRICATION
SCALE 1:2



OVERPLATE FOR DEFECT 20
1No. REQUIRED
SCALE 1:5

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ENVIRONMENT INFORMATION**

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