

REPAIR TABLE					
REPAIR	DETAILS	INDICATIVE REPAIR SIZE	NUMBER	HAZARDS	LIVE LOAD RESTRICTION
A	GRIT BLAST AND REPAINT ALL ACCESSIBLE STEELWORK	-	WHOLE STRUCTURE	A, B, C, D, E	NO
B	PROVIDE A BOLTED STRENGTHENING PLATE TO THE BOTTOM FLANGE IN ACCORDANCE WITH NR/CIV/SD/816 - TYPE 6. PLATE SIZES AND QUANTITIES ARE TO BE CONFIRMED FOLLOWING THE POST GRIT BLAST INSPECTION	457mm x 150mm (REFER TO DRAWING NO. 152093-ARC-DRG-ECV-000016)	2.0	C, D, E	NO
C	INSTALL BOLTS AND SEAL HOLES	APPROXIMATELY 100 REPLACEMENT BOLTS (NOT COUNTING BOLTS THAT ARE PART OF STRENGTHENING)	100 NOS.	A, B, C, D, E	NO
D	CUT OUT CORRODED SECTION BACK TO SOUND MATERIAL	-	-	A, B, C, D, E	NO
E	CLEAR THE DEBRIS IN THE JOINTS	500mm x 500mm	1.0	A, C, D	NO
F	REMOVE THE EXISTING REPAIR STEELWORK. DETAILS OF STEELWORK HAVE BEEN SHOWN IN DRAWING NO. 152093-ARC-DRG-ECV-000014	REFER TO DRAWING NO. 152093-ARC-DRG-ECV-000014	-	A, B, C, D, E	NO
G	REPLACE THE OVERHEAD BEAMS DURING ABNORMAL POSSESSION IN ACCORDANCE WITH DRAWING NO. 152093-ARC-DRB-ECV-000021	-	4 BEAMS	B, C, E, G, H	YES - CLOSURE
H	INSTALL STEELWORK TO BEARING IN ACCORDANCE WITH DRAWING NO. 152093-ARC-DRG-ECV-000025	-	1.0	C, E, K	YES - CLOSURE
I	CUT BACK CORRODED PORTION OF WEB TO SOUND METAL AND INSTALL NEW WEB PLATE TO TOP BOOM	4000mm LONG TOTAL	3 NOS. TOTAL	A, B, C, D, E	NO
J	PROVIDE STRENGTHENING STEELWORK TO TOP BOOM IN ACCORDANCE WITH DRAWINGS NO. 152093-ARC-DRG-ECV-000015 TO 000018 AND 000022	REFER TO DRAWINGS NO. 152093-ARC-DRG-ECV-000015 TO 000020	-	A, B, C, D, E	NO
K	PROVIDE STRENGTHENING STEELWORK TO TRUSS VERTICAL / DIAGONAL IN ACCORDANCE WITH DRAWINGS NO. 152093-ARC-DRG-ECV-000015 TO 000020 AND 000022	REFER TO DRAWINGS NO. 152093-ARC-DRG-ECV-000015 TO 000020	-	A, B, C, D, E	NO
L	PROVIDE STRENGTHENING STEELWORK TO BOTTOM BOOM IN ACCORDANCE WITH DRAWINGS NO. 152093-ARC-DRG-ECV-000016, 000018 AND 000022	REFER TO DRAWINGS NO. 152093-ARC-DRG-ECV-000015 TO 000020	-	A, B, C, D, E	NO
M	CUT BACK CORRODED PORTION OF ANGLE LEG FLUSH WITH CONNECTED LEG AND INSTALL NEW ANGLE STEELWORK	2200mm TOTAL		A, B, C, D, E	NO
N	PROVIDE WEB STRENGTHENING PLATE TO CROSS GIRDER IN ACCORDANCE WITH DRAWINGS NO. 152093-ARC-DRG-ECV-000016 AND 000018	XG11 AND XG12	-	A, B, C, D, E	NO
P	PROVIDE BOTTOM FLANGE STRENGTHENING PLATES TO CROSS GIRDER IN ACCORDANCE WITH DRAWING NO. 152093-ARC-DRG-ECV-000018	XG11	-	A, B, C, D, E	NO
Q	REPLACE CAISSON STRAPPING	-	12 NOS. APPROX.	A, C, D, F	YES - CLOSURE

NOTE:-

THE REPAIRS N AND P ARE STRENGTHENING PROPOSALS ON THE AS-BUILT CROSS SECTIONS TO IMPROVE THE ASSESSMENT RATING.

THE HANDRAILS ON SWING SPAN ARE TO BE FULLY REPLACED.

PAINTWORK SPECIFICATIONS:

1.

CLEANING AND PAINTING TO BE CARRIED OUT ACCORDANCE WITHIN NETWORK RAIL NR/SP/CIV/039 'SPECIFICATION FOR THE ASSESSMENT AND CERTIFICATION OF PROTECTIVE COATINGS AND SEALANTS' AND NR/GN/CIV/002 'USE OF PROTECTIVE TREATMENTS AND SEALANTS'.
2.

CONTRACTOR TO SUBMIT SAFETY METHOD STATEMENT FOR PROTECTION OF PERSON, PROPERTY AND EQUIPMENT TO THE EMPLOYER'S REPRESENTATIVE FOR ACCEPTANCE BEFORE WORK COMMENCES.
3.

PRIOR TO APPLICATION OF ANY PAINT COAT THE SURFACE SHALL BE CLEAN, DRY AND FREE FROM ALL SURFACE CONTAMINANTS SUCH AS DUST, DIRT, GRIT, OIL, GREASE, LOOSE PAINT, ETC. AND THE RESIDUE REMOVED WITH A SUITABLE SOLVENT.
4.

ALL STEELWORK TO HAVE THE FOLLOWING PAINT SPECIFICATION IN ACCORDANCE WITH NR/L3/CIV/040 'SPECIFICATION FOR THE USE OF PROTECTIVE COATING SYSTEMS', BASED UPON THE FOLLOWING REQUIREMENTS:

•

PROTECTIVE SYSTEM = M20 WITH 25 YEARS DESIGN LIFE (ALL STEELWORK OTHER THAN TRACKSIDE FACES AND FROM TOP OF CAISSONS DOWN TO 1m ABOVE HIGH-WATER LEVEL).
= M34 WITH 15 YEARS DESIGN LIFE (FOR TRACKSIDE STEELWORK AND FOR CAISSONS UP TO A HEIGHT OF 1m ABOVE HIGH-WATER LEVEL).

•

EXPOSURE CONDITION (TO BS EN ISO 12944-2) = C4 (ALL STEELWORK EXCEPT CAISSONS) = C5 (CAISSON STEELWORK)

•

THERE MAY BE LEAD PRESENT IN THE EXISTING PAINT COATING.

5.

ALL METALLIC ELEMENTS ON THE TRACK SIDE AND CAISSONS (UP TO 1m ABOVE HIGH WATER LEVEL) ARE TO BE CLEANED TO ACHIEVE A SURFACE FINISH OF ST3 AND REPAINTED.

6.

ALL METALLIC ELEMENTS (SUPERSTRUCTURE - OTHER THAN IN THE TRACK SIDE) ON DECK AND CAISSONS (1m ABOVE HIGH WATER LEVEL AND HIGHER) ARE TO BE GRIT BLASTED TO ACHIEVE A SURFACE FINISH OF SA2.5 AND REPAINTED.

7.

ALL GAPS, EDGES AND JOINTS TO BE SEALED WITH MASTIC SEALANT BETWEEN APPLICATION OF INTERMEDIATE AND TOP COATS.

8.

COMPATIBILITY TESTS OF THE EXISTING PAINTWORK TO BE UNDERTAKEN BY SPECIALIST PAINTING CONTRACTOR PRIOR TO THE WORKS COMMENCING.

9.

PAINT COLOUR TO MATCH THE ORIGINAL COLOUR.

10.

PAINT PROTECTIVE SYSTEM FOR CAISSON STEELWORK TO BE SHERWIN WILLIAMS XM92/M34-181 OR EQUIVALENT APPROVED BY NR.
- NOTES:
1.

ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES ADD UNLESS NOTED OTHERWISE.

2.

STEELWORK TO BE REINSPECTED IMMEDIATELY AFTER GRIT BLASTING TO CONFIRM FULL EXTENT OF REPAIR REQUIRED AND EXACT DIMENSIONS. CONTRACTOR/FABRICATOR TO MEASURE UP FOR ALL REPAIRS/REPLACEMENT TO EXISTING STEEL ELEMENTS AND RIVETS PRIOR TO FABRICATION.

3.

ONCE ALL STEELWORK REPAIRS HAVE BEEN UNDERTAKEN, ALL EXISTING STEELWORK TO HAVE SURFACE PROTECTIVE SYSTEM M20/M34 (AS SPECIFIED) IN ACCORDANCE WITH NR/L3/CIV/039 "SPECIFICATION FOR THE ASSESSMENT AND CERTIFICATION OF PROTECTIVE COATINGS AND SEALANTS" AND NR/GN/CIV/002 "THE USE OF PROTECTIVE COATINGS AND SEALANTS".

4.

ALL VEGETATION WITHIN 3m OF STRUCTURE TO BE REMOVED. ALL TREE AND STUMPS TO BE TREATED TO PREVENT REGROWTH. HERBICIDE TO BE USED IN ACCORDANCE WITH NETWORK RAIL STANDARD NR/L2/CIV/140"MODEL CLAUSES FOR SPECIFYING RAIL ENGINEERING WORKS".

5.

PHOTOS REFERENCED WITHIN TABLE CAN BE FOUND IN THE INSPECTION REPORT REF. 152093-ARC-REP-ECV-000001-A02.

6.

FOR NODE NUMBERING OF TRUSS NODES AND ELEMENT NUMBERING OF TRUSS VERTICALS / DIAGONALS, REFER TO DRAWING NO. 152093-ARC-DRG-ECV-000007.

7.

BOLTS TO BE INSTALLED IF POST GRIT BLAST INSPECTION REVEALS SIGNIFICANT LOSS OF RIVETS IN EXISTING STEELWORK.

8.

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE THE FOLLOWING DRAWINGS
- EXISTING GA DRAWINGS:-
152094-ARC-DRG-ECV-000004,
152094-ARC-DRG-ECV-000005,
152094-ARC-DRG-ECV-000007,
152094-ARC-DRG-ECV-000009,
152094-ARC-DRG-ECV-000012,
152094-ARC-DRG-ECV-000014,
- STRENGTHENING DRAWINGS:-
152094-ARC-DRG-ECV-000015 TO 22
- GENERAL NOTES DRAWING:-
152094-ARC-DRG-ECV-000023.
- | | | | | | |
|-----|------------|--------------------------|-------|------|------|
| | | | | | |
| A02 | 12.06.2020 | UPDATED TO DRN COMMENTS | T.A | B.K | J.L |
| A01 | 24.04.2020 | FOR FORM 001 REVIEW | N.M | B.K | J.L |
| Rev | Date | Description of Revisions | Drawn | Chkd | Appr |
- | | | |
|--------|---------------------|-------------|
| Status | FOR FORM 001 REVIEW | Suitability |
| | | S3 |
-
- Contractor(s):
-
- Project:
- RIVER NEATH SWING
BRIDGE GRIP 4
- Drawing Title:

PROPOSED REPAIRS SCHEDULE
(SPAN 4)
(SHEET 3 OF 3)
- | | | | | | |
|---------------------------|-----------|------------------------------|-----|------|------------|
| Designed | S. ALURU | Signed | S.A | Date | 12.06.2020 |
| Drawn | N.MANISHA | Signed | N.M | Date | 12.06.2020 |
| Checked | B. KING | Signed | B.K | Date | 12.06.2020 |
| Approved | J. LYNN | Signed | J.L | Date | 12.06.2020 |
| Scale(s) | | ELR & Mileage | | | |
| | | AS SHOWN @ A1 SDI1 207m 63ch | | | |
| Alternative Reference | | | | | Sheet |
| 152093 | | | | | 3 of 3 |
| Drawing Number | | | | | Revision |
| 152093-ARC-DRG-ECV-000030 | | | | | A02 |
- 100mm on Original
- C:\Users\lati00420\ARCADIS\River Neath - GRIP 4 - E - Our Drawings\F001\152093-ARC-DRG-ECV-000028 & 000029 & 0000030_ Proposed Repire Schedule(Sheet 1& 2 &3).dwg
- Sheet Size A1 594 x 841