

REF.	LOCATION	PHOTO REF.	DRAWING REF.	DESCRIPTION OF DEFECT	NO. OF DEFECTS	DEFECT REF.	INDICATIVE DEFECT SIZE (mm)	REPAIR TYPE	INDICATIVE REPAIR SIZE (mm)
SPAN 5 - DEFECTS SCHEDULE AND REPAIR PROPOSAL									
R1	MGE2	95	000004	50 TO 100mm HIGH SURFACE CORROSION TO TOPSIDE OF WEB	1	D1	-	A	-
R2	MGE1	97	000004	CORROSION TO HANDRAIL	1	D2	17000mm	A,E,L	-
R3	MGE2 - NEAR IS6	98	000004	VEGETATION GROWTH IN THE BALLASTED PORTION	1	D3	-	J	-
R4	CROSS GIRDER SOFFIT	99	000005	4 TO 5mm LOSS TO ALL CROSS GIRDER BOTTOM FLANGES THICKNESS DUE TO SIGNIFICANT CORROSION	-	D4	-	A	-
R5	RAIL BEARERS		000005	SURFACE CORROSION TO 80% AREA OF ALL LSI BOTTOM FLANGES (THROUGHOUT LENGTH)	-	D5	-	A	-
R6	SOFFIT OF DECK PLATE	100	000005	SURFACE CORROSION TO 30% OF DECK SOFFIT AREA	-	D6	-	A	WHOLE DECK
R7	IS5 - COLUMNS 1 AND 2	106	000011	SURFACE CORROSION TO PIER CAP	2	D7	-	A	-
R8	IS5 - TOP BANDING	104	000011	SURFACE CORROSION	-	D8	-	A	-
R9	IS5 - X BRACING CONNECTION	102	000011	SIGNIFICANT CORROSION TO BRACING CONNECTION	1	D9	-	A, D	6 BOLTS
R10	IS5 - COLUMNS 1 AND 2	102	000011	SIGNIFICANT CORROSION AROUND BANDING	-	D10	-	A	-
R11	IS5 - COLUMNS 1 AND 2	102	000011	FLAKED PAINTWORK THROUGHOUT AND MOSS FORMATION ON CAISSONS UP TO HALF OF THE HEIGHT	-	D11	-	A	-
R12	IS5 - COLUMN 1	106	000011	2 TO 3mm LOCALISED SECTION LOSS DUE TO PITTING CORROSION	1	D12		A	-
R13	IS5 - COLUMNS 1 AND 2	104	000011	VEGETATION GROWTH AT THE TOP OF PIER CAP	2	D13	-	J	-
R14	TRACK SIDE OF BRIDGE	96	-	LOSS OF WATERPROOFING LAYER OVER BALLAST RETENTION PLATE THROUGHOUT ITS LENGTH	1	D14	-	K	-
R15	MAINTENANCE ACCESS GANGWAY	99	-	SIGNIFICANT CORROSION AND DELAMINATION TO MAINTENANCE ACCESS GANGWAY	-	D15	-	A	-
SPAN 6 - DEFECTS SCHEDULE AND REPAIR PROPOSAL									
R1	MGE2	-	000004	50 TO 100mm HIGH SURFACE CORROSION TO TOPSIDE OF WEB	1	D1	12000mm	A	-
R2	MGE2 TRACK SIDE	-	000004	LOSS OF WATERPROOFING LAYER TO BALLAST PLATE	1	D2	12000mm	K	-
R3	MGE1 - NEAR 2/3rd POINTS OF SPAN	108	000004	HOLES FORMATION IN HANDRAILS DUE TO CORROSION	2	D3	-	A,E,L	-
R4	MGE1	107	000004	SLIGHT MOSS FORMATION ON WEB AND BOTTOM FLANGE (OUTER SIDE)	1	D4	-	A	-
R5	MGE1 - OVER ABUTMENT	-	000004	VEGETATION GROWTH IN THE BALLASTED PORTION	1	D5	-	J	-
R6	SECOND CROSS GIRDER FROM ABUTMENT	111	000005	SIGNIFICANT CORROSION AND DELAMINATION TO CROSS GIRDER BOTTOM FLANGE (4 TO 5mm SECTION LOSS) TO THICKNESS	1	D6	3000mm	A	-
R7	RAIL BEARERS	113	000005	SURFACE CORROSION TO ALL RAIL BEARERS (THROUGHOUT LENGTH)	-	D7	-	A	-
R8	SOFFIT OF DECK PLATE	113	000005	25% AREA OF DECK SOFFIT HAS SURFACE CORROSION	-	D8	-	A	-
R9	DECK STIFFENERS	113	000005	SURFACE RUST RASH TO DECK STIFFENERS	-	D9	-	A	-
R10	ABUTMENT - NEAR MGE2	115	000013	MASONRY SPALLING AT ABUTMENT WINGWALL INTERFACE	1	D10	1500mm x 1500mm	N/A	-
R11	WINGWALL 1 - NEAR PILASTER	114	000013	OPEN JOINTS IN FIRST TWO COPERS	2	D11	-	H	-
R12	PILASTER AT THE BOTTOM OF WINGWALL 1	-	000013	OPEN JOINTS IN PILASTER MASONRY	2	D12	-	H	-
R13	WINGWALL 1	114	000013	OPEN JOINTS IN STONE MASONRY	4	D13	9100mm TOTAL	H	-
R14	INTERFACE OF WINGWALL AND ABUTMENT	114	000013	EXCESSIVE VEGETATION GROWTH	-	D14	1800mm x 3500mm TOTAL	J	-
R15	INTERFACE OF WINGWALL 1 AND ABUTMENT - BOTTOM	114	000013	PRESENCE OF VEGETATION AND STONE BLOCKS	-	D15	APPROX. 4000000mm²	J	-
R16	IS6 - COLUMNS 1 AND 2	117	000013	SURFACE CORROSION TO PIER CAP	2	D16	-	A	
R17	IS6 - COLUMN 2	117	000013	THREE ROWS OF EMPTY RIVET HOLES	> 50 RIVET HOLES	D17	-	A/A	80 NOS.
R18	IS6	116	000013	NO TRESTLE SUPPORTS TO THIS PIER	1	D18	-	N/A	-

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	400mm x 150mm	3 NOS.	A, B, C, D	NO
C	PROVIDE A BOLTED STRENGTHENING PLATE TO THE TOP FLANGE IN ACCORDANCE WITH NR/CIV/SD/820 TO 822. PLATE SIZES AND QUANTITIES ARE TO BE CONFIRMED FOLLOWING THE POST GRIT BLAST INSPECTION	-	3 NOS.	A, B, C, D	NO
D	INSTALL BOLTS AND SEAL HOLES	-	100 NOS.	C, D	NO
E	CUT OUT CORRODED SECTION BACK TO SOUND MATERIAL	CIRCA 2000mm	4 NOS.	A, C, D	NO
F	REPLACE CAISSON STRAPPING	-	7 NOS.	A, C, D, F	YES-CLOSURE
G	CLEAR THE DEBRIS IN THE JOINTS	-	3 NOS. JOINTS BETWEEN SPANS	A, C	YES-CLOSURE
H	RE-POINTING THROUGHOUT SUBSTRUCTURE (NR/CIV/SD/101)	SUPERSCRIPT FOR 2	WHOLE STRUCTURE	A, C	NO
I	REPLACE THE SUPPORT TO MAINTENANCE GANGWAY	-	1 NOS.	A, B, C, D, E	NO
J	DEVEGETATION WITHIN 3m OF THE BRIDGE	-	WHOLE STRUCTURE	A, B, C, D	NO
K	EXCAVATE EXCESS BALLAST AWAY- BREAK DOWN THE EXISTING WATERPROOFING TO A SQUARE EDGE TO ATLEAST 100mm BELOW BALLAST LEVEL AND APPLY NEW ROBUST PAINT SYSTEM	-	-	A, B, C, D, E	YES-CLOSURE
L	LOCALLY REPLACE HANDRAIL	CIRCA 08NOS. HANDRAIL PANELS	-	A, B, C, D, E	YES-CLOSURE

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES AOD 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-AR-REP-ECV-000001-A02.
6. ALL STEELWORK TO BE PAINTED WITHIN M20 PROTECTIVE SYSTEM IN ACCORDANCE WITH NR/L3/CIV/039

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				S3



Contractor(s):



Project:

RIVER NEATH SWING
BRIDGE GRIP 4

Drawing Title:

PROPOSED REPAIRS SCHEDULE
SPANS 1, 2, 3, 5 & 6
(SHEET 2 OF 2)

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					2 of 2
Drawing Number					Revision
152093-ARC-DRG-ECV-000032					A02