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Example 1
- outstand to built-up rivetted diagonal, with rivets for connection to incoming cross bracing
- angle to inside runs between continuous diagonals in opposite direction, typically with 3 bays of X-bracing
- at least 2 holes per length of outstand

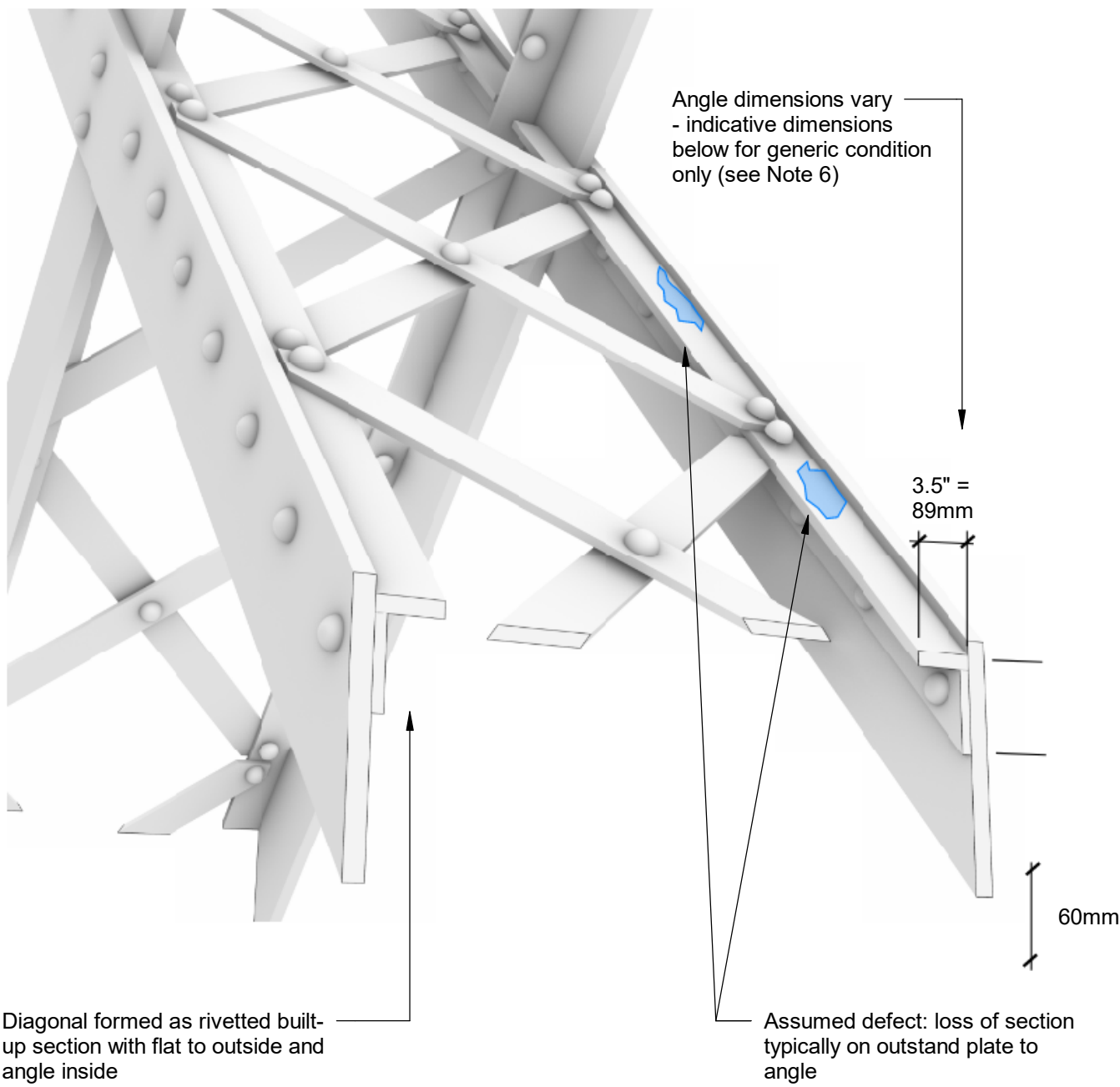
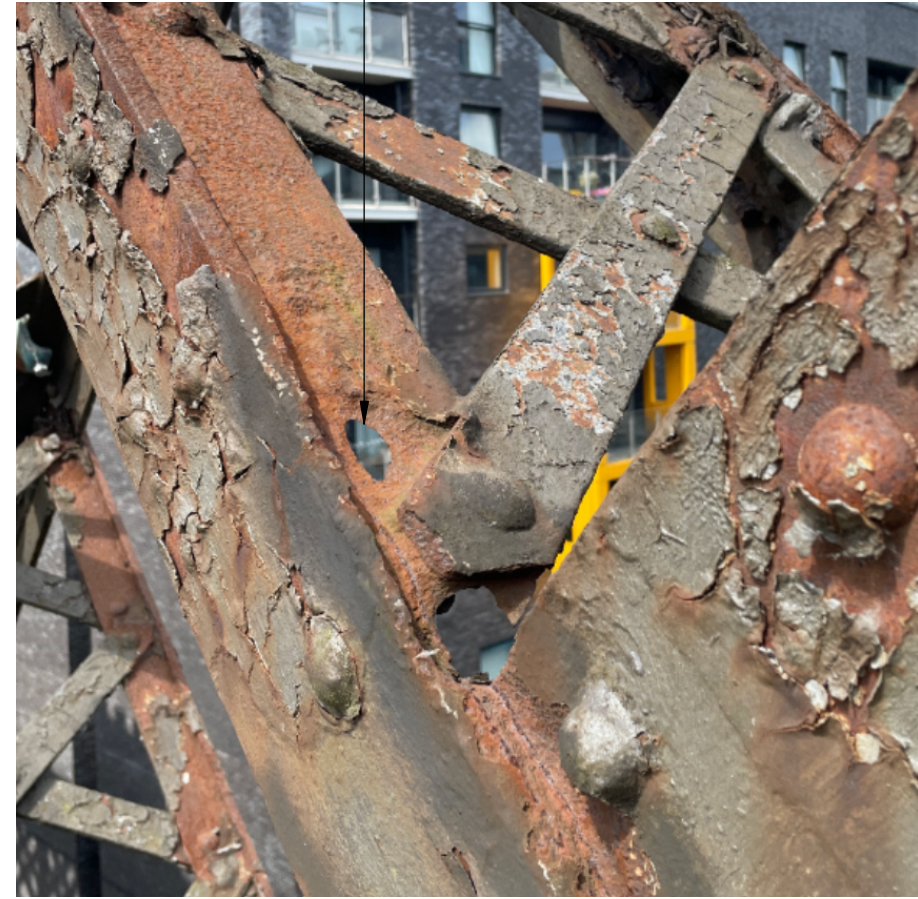


Example 2
- loss of section to outer angle in this example, across 2 bays of X-bracing
- at least 2 holes per length of outstand

Note conditions with outstand running through to rear of opposing diagonal



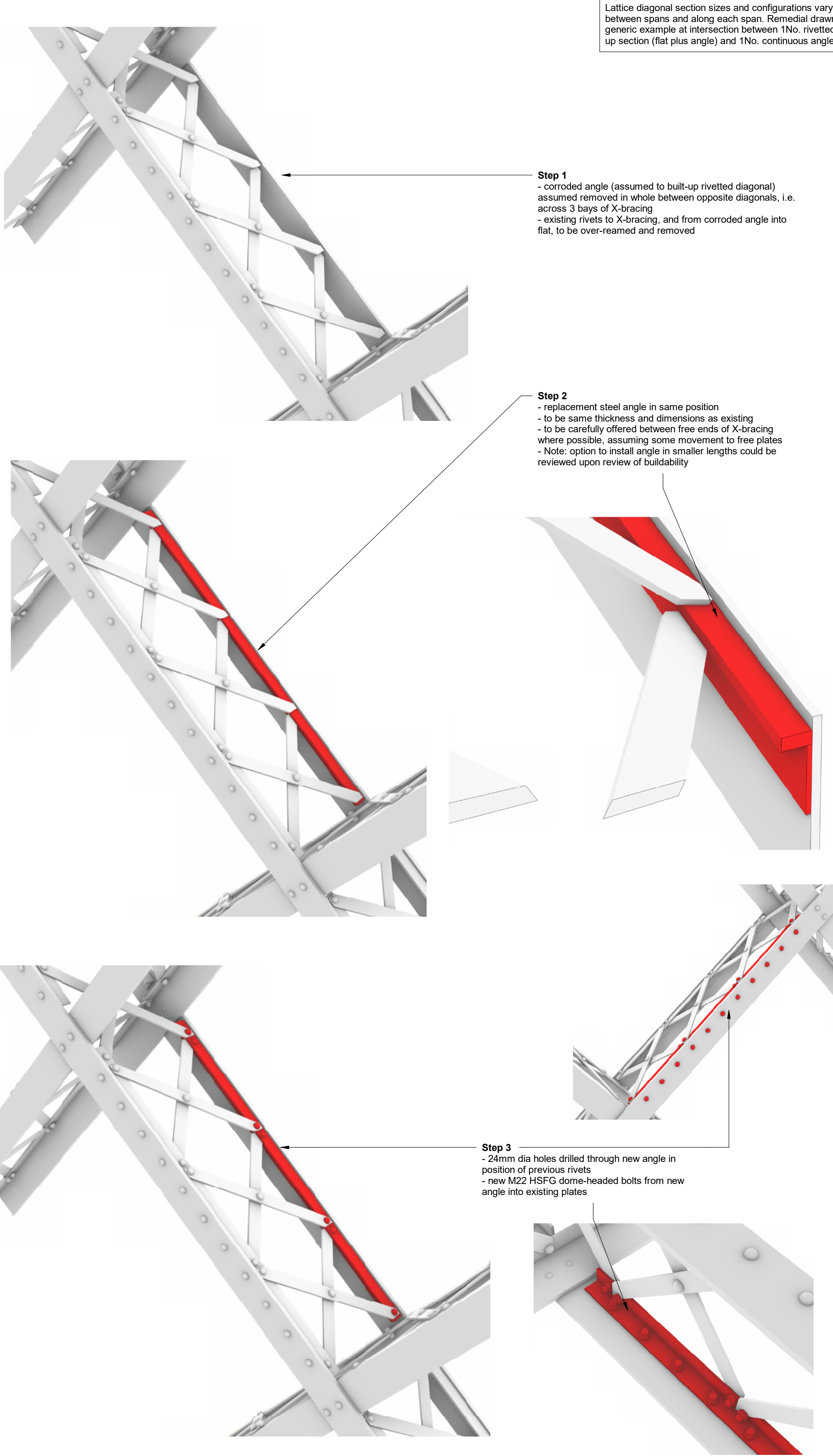
Example 4
- minor loss of section to inner angle to local area only
- only 1 hole per length of outstand
- remaining plate in reasonable condition
- no remedial required for this example



Example 3
- loss of section to inner angle, either side of X-bracing connection
- at least 2 holes per length of outstand

NOTE:
Defect examples taken from Arup 2024 visual surveys. Each represents a discrete example at a unique diagonal. Defect locations to be identified by re-survey.

DEFECT EXAMPLES
NTS



REMEDIAL DETAIL
NTS

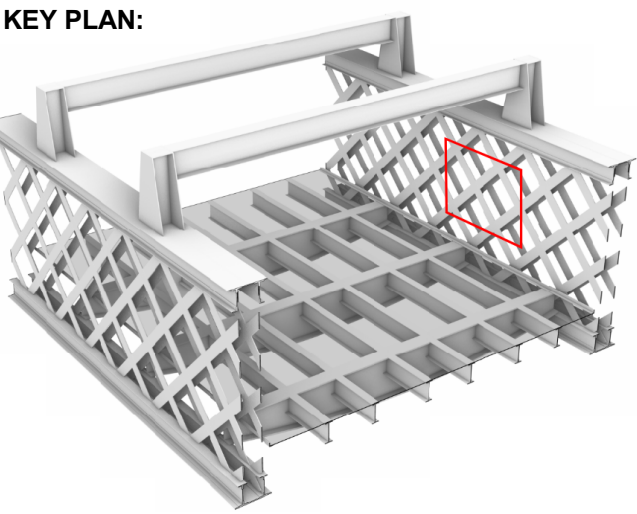
- Notes:
- These drawings shall be read in conjunction with all relevant Engineer's and Architect's drawings and with all relevant specifications
 - Existing condition drawn with dimensions from original archive drawings. All existing dimensions to be verified by the Contractor prior to fabrication or construction.
 - Drawing to be read in colour.
 - Do not scale from this drawing
 - For structural nomenclature refer to drawing CVI-ARUP-ZZ-ZZ-DR-S-1055. For structural notation of spans/beams/piers refer to drawing CVI-ARUP-ZZ-ZZ-DR-S-1056

- H&S / CDM Risks:**
- Specific risks highlighted thus:
- existing paintwork contains lead
 - limited structural capacity of viaduct deck plates
 - existing ballast contaminated with lead and hydrocarbons
 - working at height above water and public areas
- Refer to Arup risk register for further details.

- Legend:**
- Existing structure
 - unchanged unless noted otherwise
 - Proposed remedial
 - Indicative extent of defect
 - typical loss of section or thickness due to corrosion
 - Indicative packing plates
 - where required

NOTE:
The remedial details shown consider the most likely corrective intervention based on the expected type/extent of defect. Extent of defect to be confirmed pending future brush down, removal of debris, and subsequent tactile surveys. Further defect types and consequent remedials may also be identified.

- LOCATION / NUMBER OF REMEDIALS REQUIRED:**
- TBC
 - Refer to general notes drawing CVI-ARUP-ZZ-XX-DR-S-0001 for background context for proposed remedials



T1	14/08/24	RR	GH	Preliminary Issue
Rev	Date	Chkd	Appd	Issue Notes

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Client
The National Trust

Project Title
Castlefield Viaduct Phase 2

Drawing Title
**Remedials
Lattice Girders
Diagonal Outstands**

Scale at A1	1 : 100	Drawn By	Author
Role	Structural		
Status	S2 - For Information		
Arup Job No	282210	Rev	T1
ID	CVI-ARUP-ZZ-ZZ-DR-S-4012		