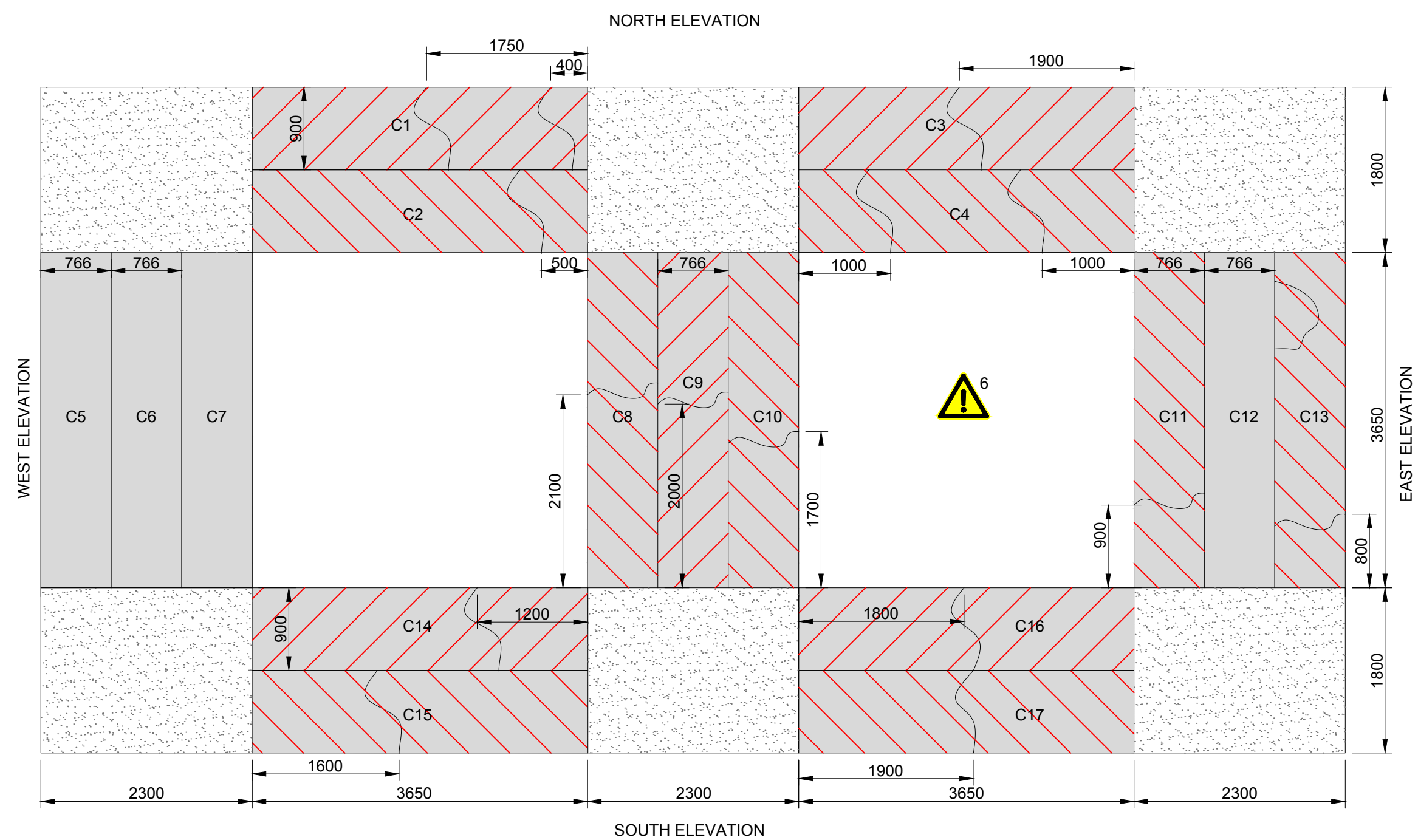


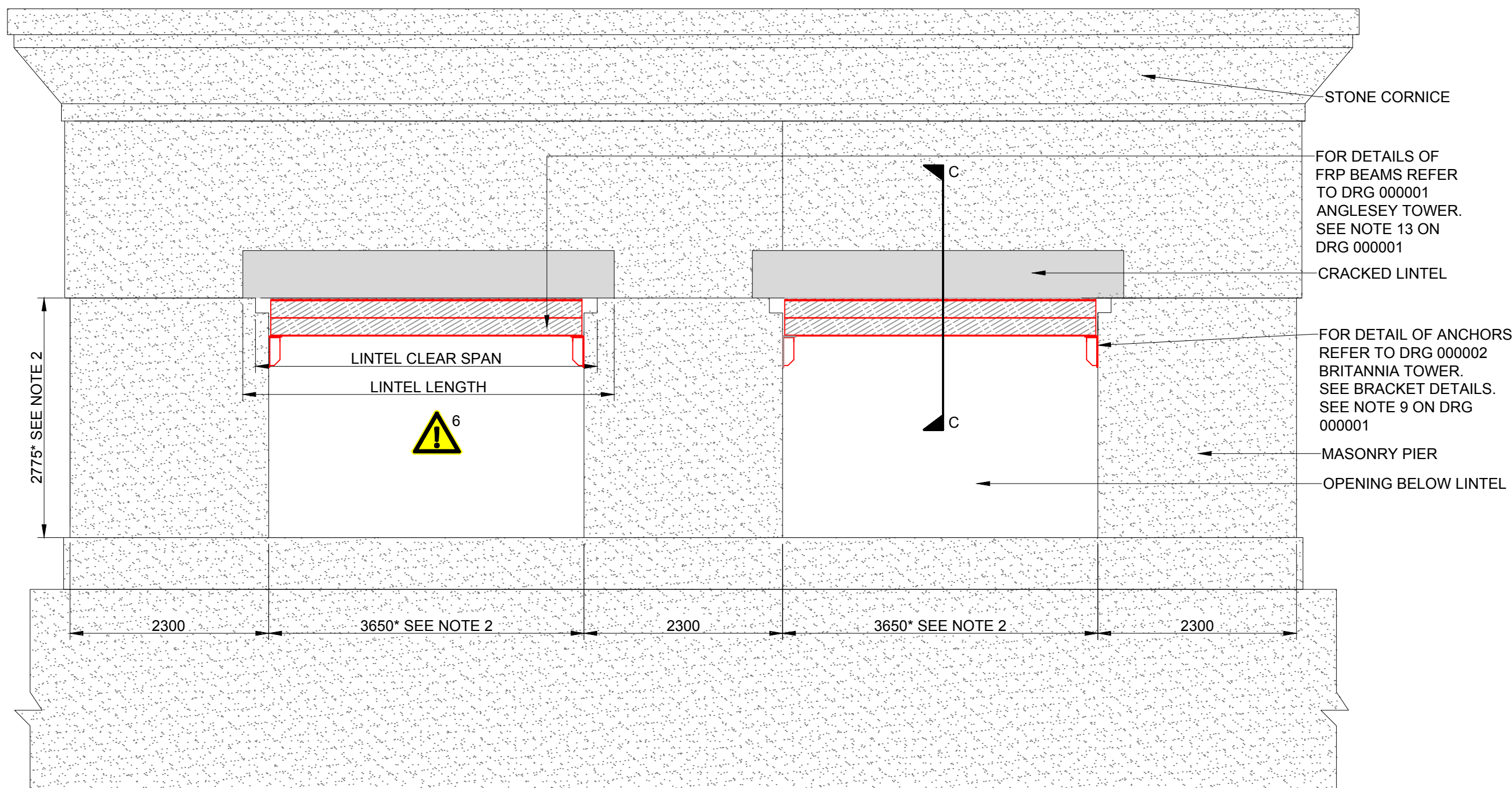
PLAN VIEW ON BRIDGE LAYOUT

SCALE N.T.S



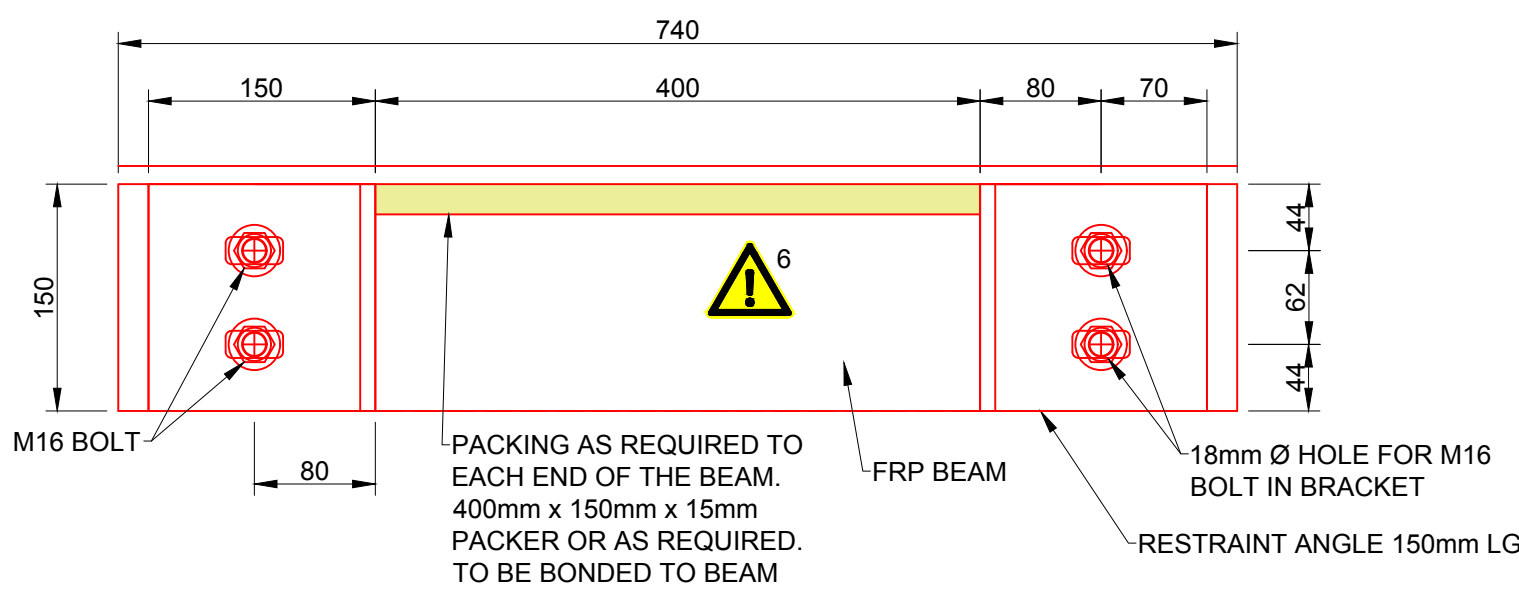
LINTEL PLAN SHOWING DEFECTS

SCALE 1:50



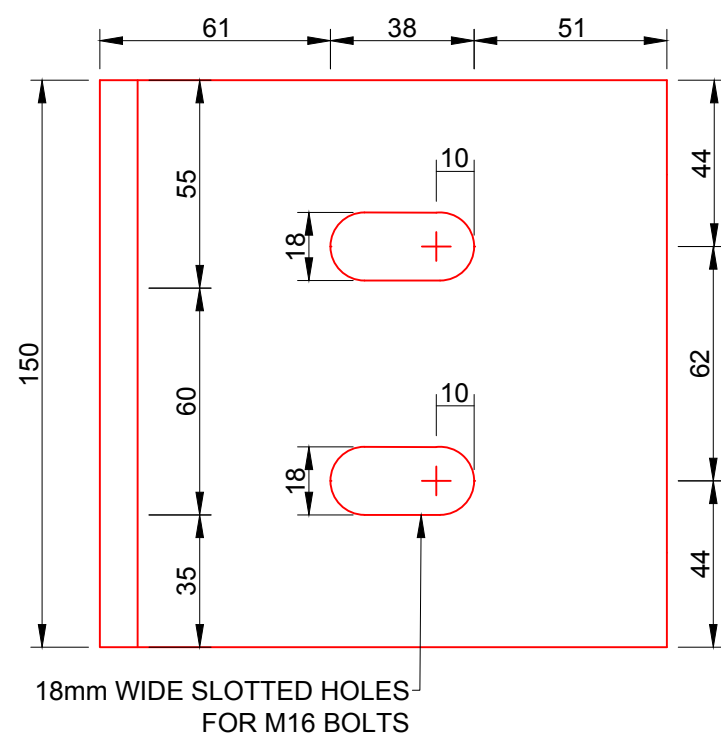
PART SOUTH ELEVATION - TOP OF TOWER

SCALE 1:50

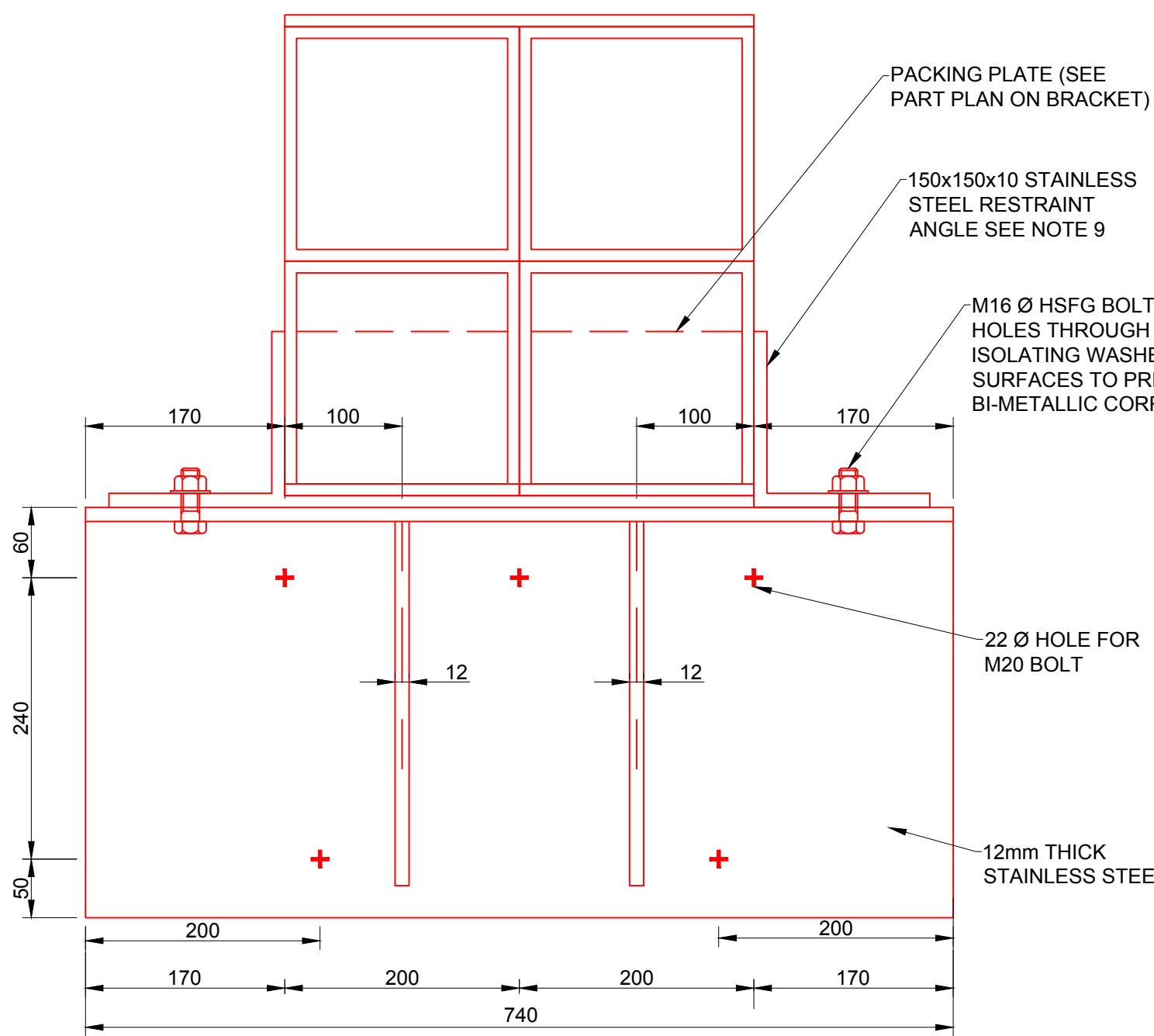


PART PLAN ON BRACKET

SCALE 1:5

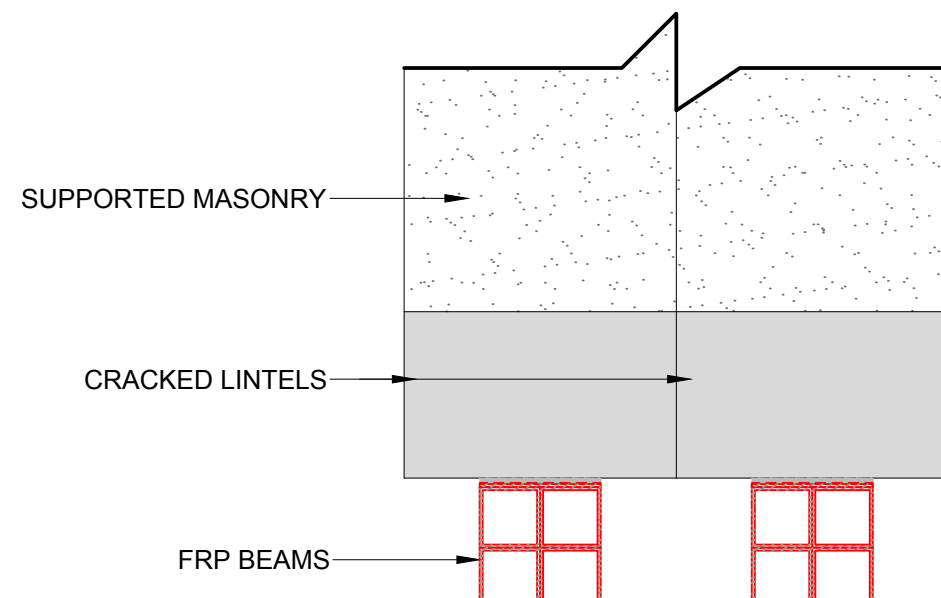
PLAN ON RESTRAINT ANGLE
SHOWING SLOTTED HOLES

SCALE 1:2



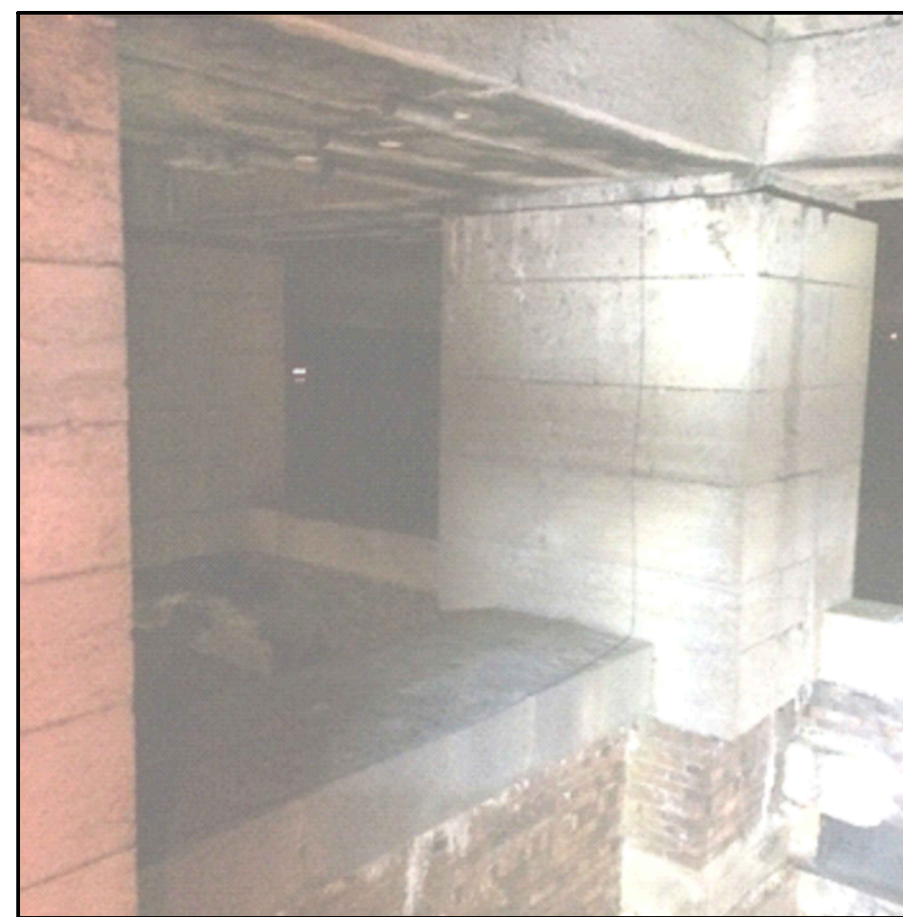
SUPPORT BRACKET DETAILS

SCALE 1:5



SECTION C-C

SCALE 1:25

PHOTO 1 - CAERNARFON TOWER,
VIEW ON LINTELS AND MASONRY PIERPHOTO 2 - CAERNARFON TOWER,
VIEW ON TO CARRIAGE WAY

APPROVED FOR CONSTRUCTION

Signed by  DARREN TASSELL
Contractor's Engineering Manager (Design Phase)Signed by _____
Contractor's Engineering Manager (Construction Phase)

Caernarfon tower		Type of support	No of beams	Existing Lintels			Proposed FRP beam supporting lintel	
Elevation	Lintel			Width (mm)	Depth (mm)	Clear span (mm)	Span (mm)	S.W.* (kg)
North	C1	Structural	1	900	610	3962	3558	220
North	C2	Structural	1	900	610	3962	3558	220
North	C3	Structural	1	900	610	3962	3558	220
North	C4	Structural	1	900	610	3962	3558	220
West	C5	Dummy	1	766	610	3962	3558	220
West	C6	None	0	766	610	3962	3558	0
West	C7	None	0	766	610	3962	3558	0
Centre	C8	Structural	1	766	610	3962	3558	220
Centre	C9	Structural	1	766	610	3962	3558	220
Centre	C10	Structural	1	766	610	3962	3558	220
East	C11	Structural	1	766	610	3962	3558	220
East	C12	None	0	766	610	3962	3558	0
East	C13	Structural	1	766	610	3962	3558	220
South	C14	Structural	1	900	610	3962	3558	220
South	C15	Structural	1	900	610	3962	3558	220
South	C16	Structural	1	900	610	3962	3558	220
South	C17	Structural	1	900	610	3962	3558	220

Total number of brackets: 14

28

*S.W. denotes self-weight.

LINTEL SUPPORT SCHEDULE

Legend/Notes

FOR NOTE 1 TO 14 REFER TO DRAWING 000001.

15. LINTEL C5 FEATURES 'DUMMY' LINTEL SUPPORT WHICH ARE TO MAINTAIN SYMMETRY AND CONSISTENCY OF APPEARANCE, BUT WILL HAVE THE SAME STRUCTURAL DESIGN.

IMPORTANT CDM / H&S NOTE

THE DESIGNERS WOULD DRAW THE READERS ATTENTION TO THE KEY RESIDUAL HEALTH AND SAFETY RISKS THAT HAVE NOT BEEN ELIMINATED FROM THE DESIGNS SHOWN ON THIS DRAWING BY THE DESIGN PROCESS.

DRA
REF:SIGNIFICANT DESIGNER'S
IDENTIFIED HAZARDS

- 1 WORKING AT HEIGHT - CONTRACTOR TO DEVELOP SAFE SYSTEM OF WORK. STAFF TO BE COMPETENT AND TRAINED.
- 2 USING LIFTING EQUIPMENT - CONTRACTOR TO DEVELOP SAFE SYSTEM OF WORK. LANE CLOSURES TO BE USED DURING LIFTING. CRASH DECK / FALL ARREST TO BE USED IF DEEMED NECESSARY.
- 3 WORKING IN ADVERSE WEATHER, SUCH AS HIGH WINDS OR RAIN - WEATHER FORECAST TO BE TAKEN INTO ACCOUNT WHEN PLANNING THE WORKS. CONDITIONS TO BE MONITORED AND WORKS TO BE SUSPENDED AT SET LIMITS (WIND SPEED, RAIN INTENSITY).
- 4 INSUFFICIENT PULL-OUT RESISTANCE OF ANCHORS - ANCHOR TESTING TO BE UNDERTAKEN PRIOR TO MAIN WORKS AND INSTALLATION. SEE ANCHOR TESTING SPECIFICATION 164137-NRD-SPE-ECV-000001.
- 5 DEFECTS IN THE MASONRY SUBSTRATE - CONTRACTOR TO INSPECT EACH ANCHOR / FIXING HOLE TO ENSURE SOLID MASONRY AND NO VOIDING. NR SITE REPRESENTATIVE TO BE CONSULTED IF FOUND.
- 6 DIMENSIONAL TOLERANCES - CONTRACTOR TO CONFIRM ALL DIMENSIONS PRIOR TO FABRICATION INCLUDING BEAM LENGTHS AND BEAM TO SOFFIT CLEARANCE. REFER TO NOTE 2.

FOR MORE DETAILED INFORMATION ON THE HIGHLIGHTED HAZARDS, REFER TO THE DESIGNER'S RISK ASSESSMENT FOR THIS PROJECT 164137-NRD-RAR-ECV-000001

*EVERYDAY LOW RISK HAZARDS AND THOSE HAZARDS WHICH SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR HAVE NOT BEEN INDICATED ON THIS DRAWING

SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED DURING THE COURSE OF THE WORKS, THE CONTRACTOR SHALL NOTIFY ALL RELEVANT MEMBERS OF THE PROJECT TEAM

0 200 400 600 800 1000mm

SCALE 1:10

0 0.5 1.0 1.5 2.0 2.5m

SCALE 1:25

0 1 2 3 4 5m

SCALE 1:50

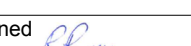
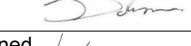
C01	08/04/20	AFC	NJA	IM	AK
B03	12/03/20	FOR DRN COMMENTS	NJA	IM	AK
B02	21/02/20	REVISE FROM DRN COMMENTS	NJA	IM	AK
B01	24/01/20	FOR DRN COMMENTS	NJA	IM	AK
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Status
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Fax: 01173 720394Project
BRITANNIA BRIDGE

LINTELS SUPPORTS

Drawing Title

PROPOSED FRP LINTEL SUPPORT BEAMS
CAERNARFON TOWER

Designer	ROB RUSSELL	Signed 	Date	24/01/20
Drawn	JAMES JOHNSON	Signed 	Date	24/01/20
Checked	IVAN MUKOV	Signed 	Date	08/04/20
Approved	AHMAD KAMARA	Signed 	Date	08/04/20
Scale(s) at A1	Sheet Size A1 594 x 841	ELR & Mileage	241m	0'198yds
AS SHOWN	Alternative Reference	ELR : CNH3	3 OF 3	
N/A				
Drawing Number	164137-NRD-DRG-ECV-000003	Revision		C01