PROJECT No.	NUMBER	REV.
3451	801	C0

DRAWN	M.E.M	SCALE
CHECKED	R.J.Y / M.E.M	
DATE	15.04.2020	PLAN

Y+S YOUNG + SATHARIA
consulting structural and civil engineers
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COLOMBO 4501
TELEPHONE (0)112072523
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DATE	REV	DESCRIPTION
10-06-2020	0	ISSUED FOR CONSTRUCTION

P - DENOTES PRELIMINARY ISSUE
C - DENOTES CONSTRUCTION ISSUE

ARCHITECT

BRICK STACK
SECTIONS
ELEVATIONS

LOCATION

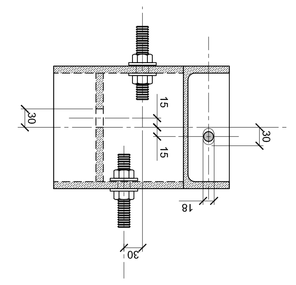
PROPOSED REINSTATEMENT
OF BUILDING STABILITY
ILLOVIO SUGAR MILL
SIZELA

PROJECT

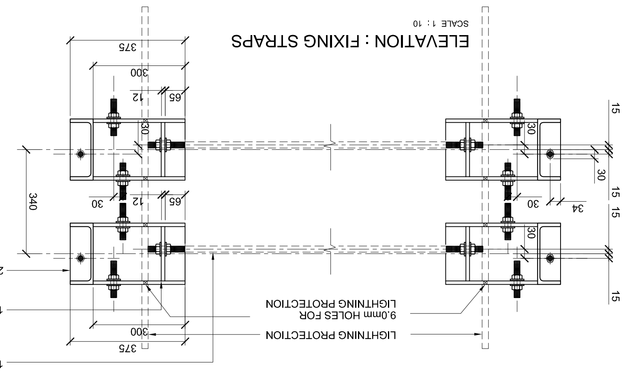
0 10 20 30 40 50 60 70 80 90 100
100mm ON ORIGINAL SCALE

NOTES:
1.ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF SANS 2001-CS1 :2005 CONSTRUCTION WORKS-PART CS1 : STRUCTURAL STEELWORK
2. ALL MILD STEEL SHALL BE HOT DIP GALVANISED.
3. ALL WELDS SHALL BE 6.0mm CONTINUOUS FILLET WELDS UNLESS OTHERWISE NOTED.
4. ALL BUTT-WELDS SHALL BE FULL PENETRATION WELDS.
5. STRUCTURAL STEELWORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING :
- HOT ROLLED SECTIONS : SANS 1431 Gr. 350LR
-COLLED ROLLED SECTIONS-MW. YIELD = 235MPa.
- HOT ROLLED PLATE : SANS 1431 Gr. S350LR
- HOT ROLLED STRUCTURAL TUBING : SANS 1431 Gr. 350LR
6. ALL STEELWORK SHALL BE HOT DIP GALVANISED IN ACCORDANCE WITH ISO-1461 OR SANS 121:2011.

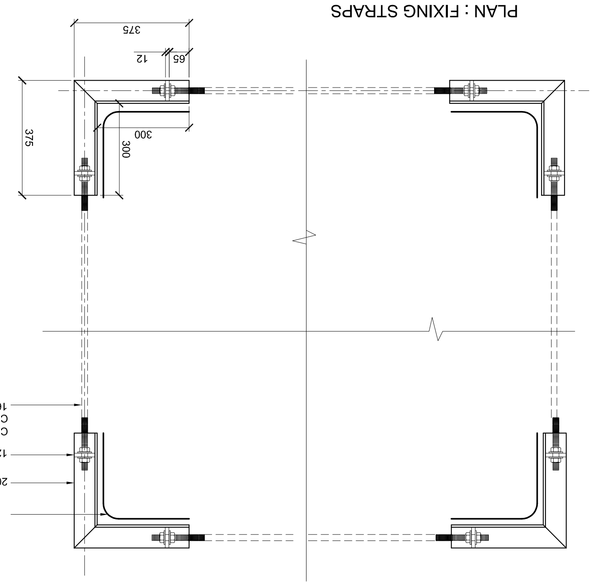
ELEVATION : TYPICAL FITTING
SCALE 1 : 5



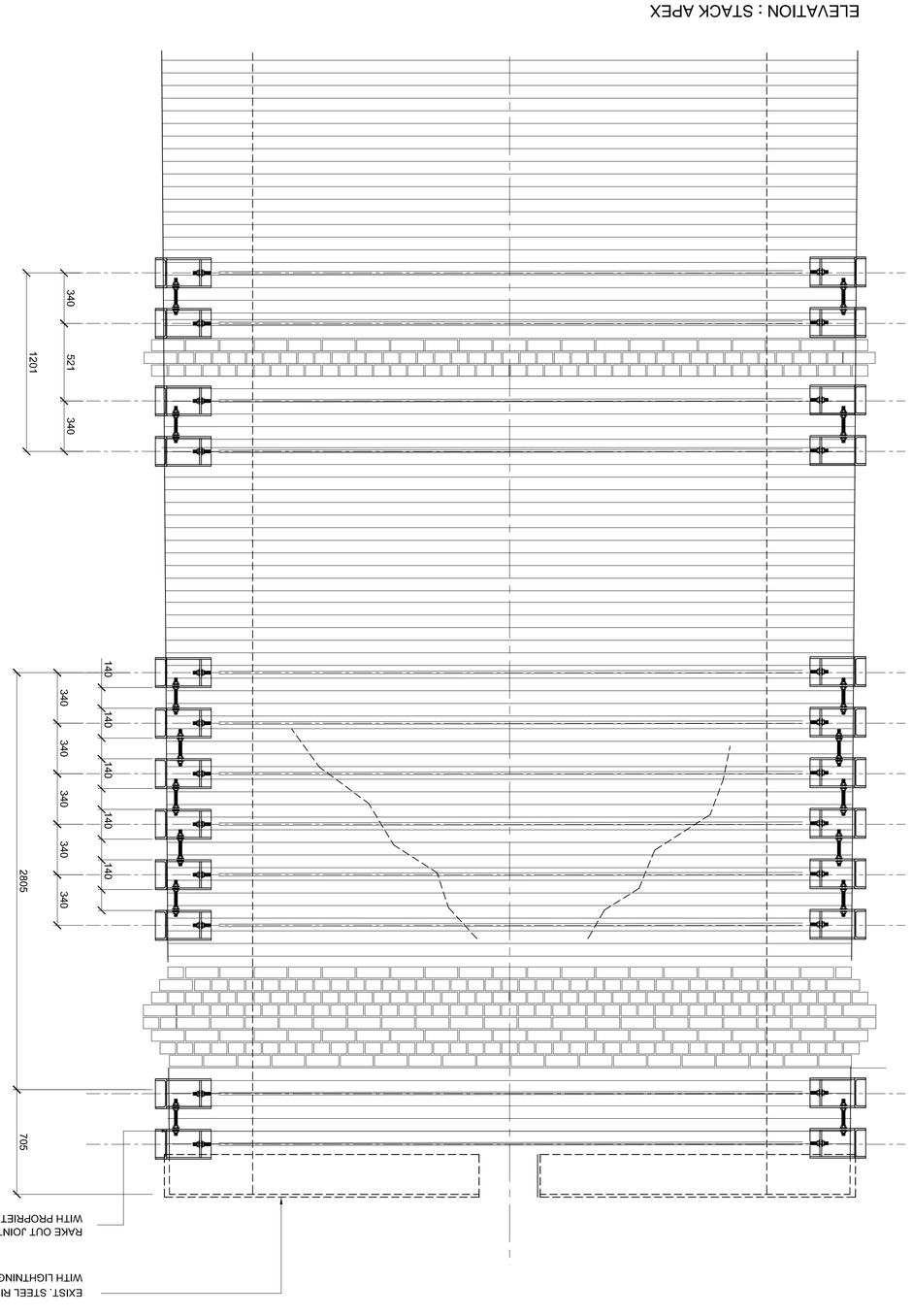
ELEVATION : FIXING STRAPS
SCALE 1 : 10



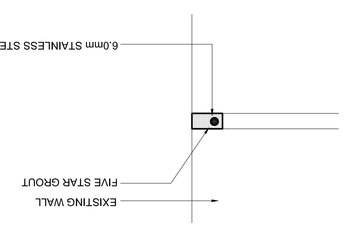
PLAN : FIXING STRAPS
SCALE 1 : 10



ELEVATION : STACK APEX
SCALE 1 : 5

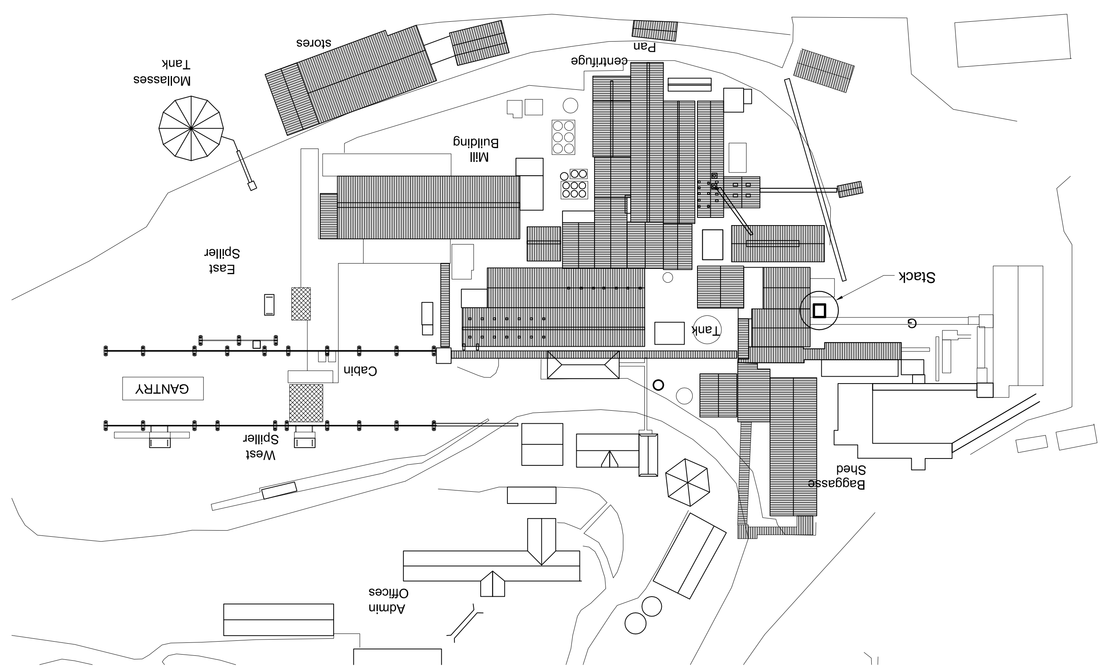


TYPICAL JOINT REPAIR
SCALE 1 : 2



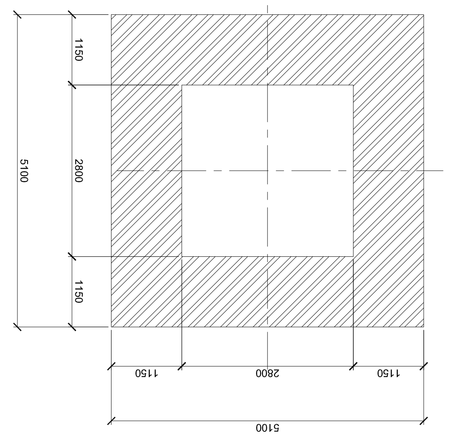
CONSTRUCTION PROCEDURE:
1. CHASE INTO EXISTING JOINT, 30mm DEEP
2. CLEAN VOID THOROUGHLY,
3. INSERT BAR INTO VOID
4. FILL WITH PROSTRUCT 514 GROUT OR EQUAL APPROVED GROUT

PART SITE PLAN
SCALE 1 : 1250

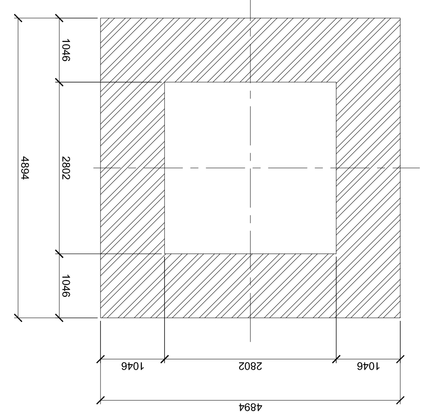


NOTES / PROPOSED METHOD OF TEMPORARY REPAIR.
1. THE TOP OF THE STACK MUST BE INSPECTED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF REMEDIAL WORKS.
2. THE ENGINEERS MUST ESTABLISH THE DEPTHS OF THE CRACKS IN THE BRICKWORK, EXTENT OF DELAMINATION, CONDITION OF MORTAR JOINTS, ETC.
3. THE STEELWORK MUST BE HOT DIP GALVANISED.
4. THE EXISTING BRICK JOINTS MUST BE FILLED WITH PROSTRUCT 514 OR EQUAL APPROVED GROUT
5. CRACKS IN THE BRICKWORK MUST BE FIXED USING PROPOSED JOINT REPAIR DETAILS.
6. THE WORK MUST BE CARRIED OUT BY AN APPROVED REPAIR SPECIALIST.

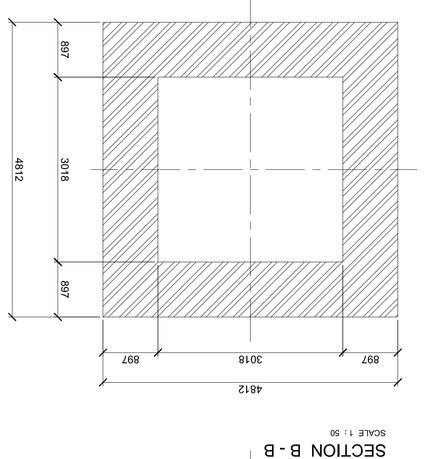
SECTION E - E
SCALE 1 : 50



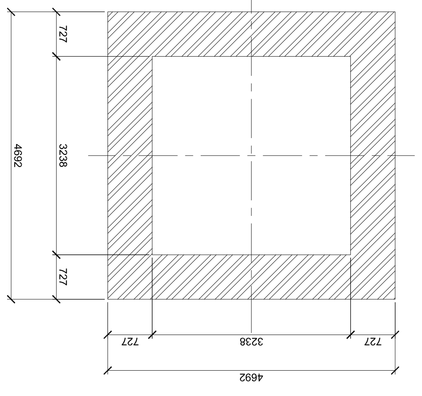
SECTION D - D
SCALE 1 : 50



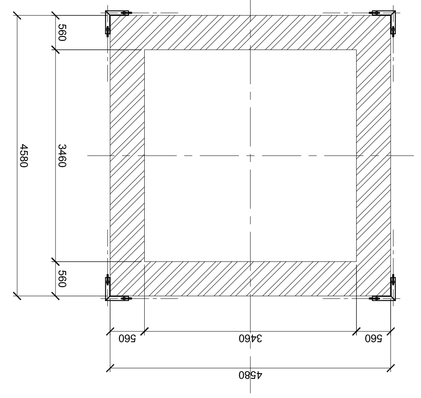
SECTION C - C
SCALE 1 : 50

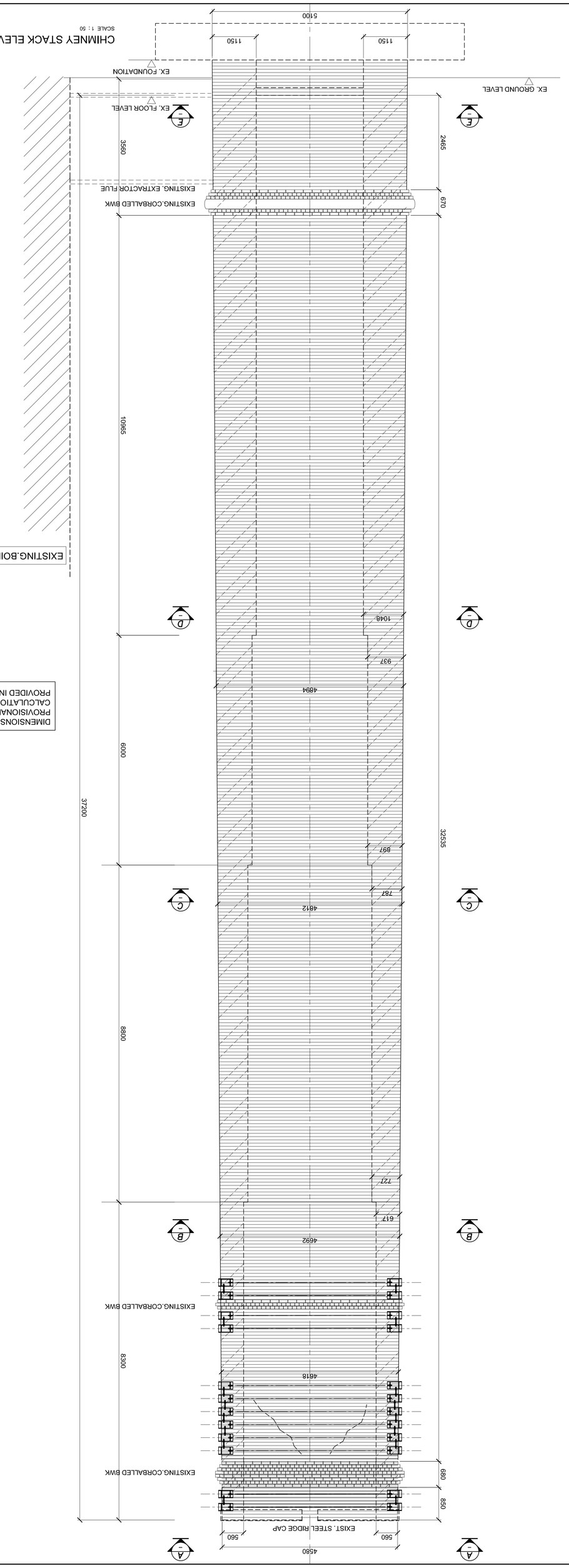


SECTION B - B
SCALE 1 : 50



SECTION A - A
SCALE 1 : 50



DIMENSIONS ARE PROVISIONAL -BASED ON VISUAL CALCULATIONS AND DETAILS PROVIDED IN REPORTS

CHIMNEY STACK ELEVATION
SCALE 1 : 50