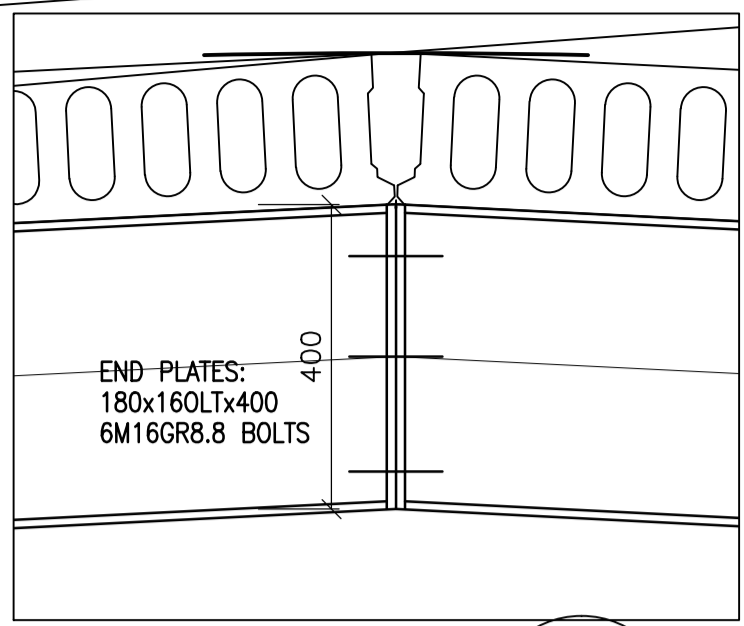
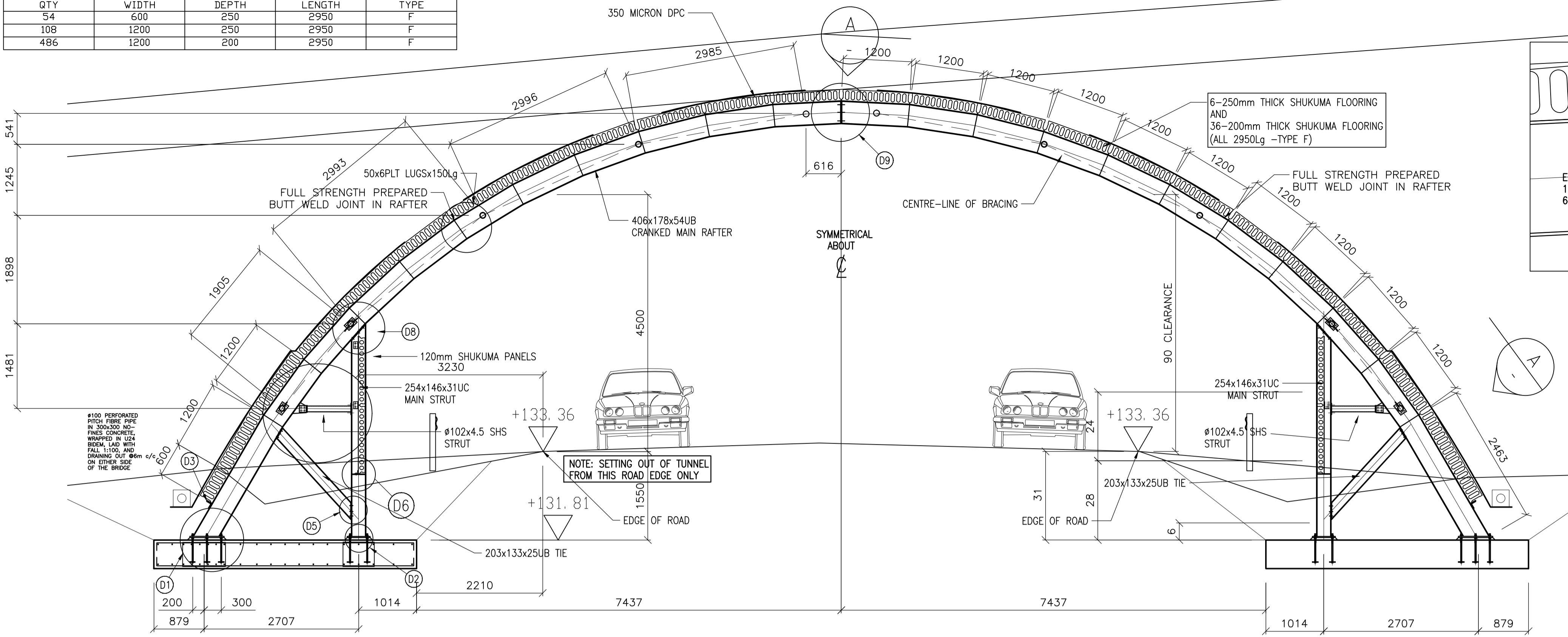
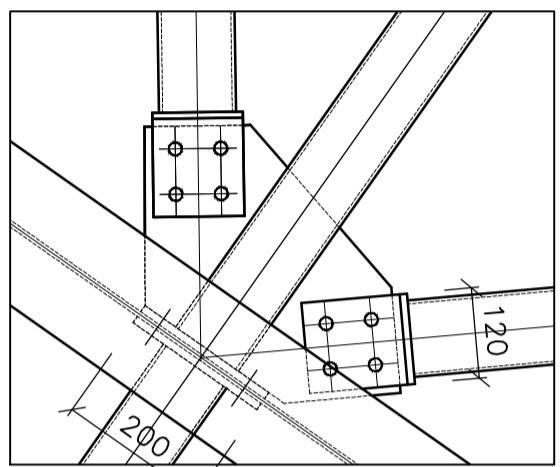


QTY	WIDTH	DEPTH	LENGTH	TYPE
54	600	250	2950	F
108	1200	250	2950	F
486	1200	200	2950	F



DETAIL D9
SCALE 1:10

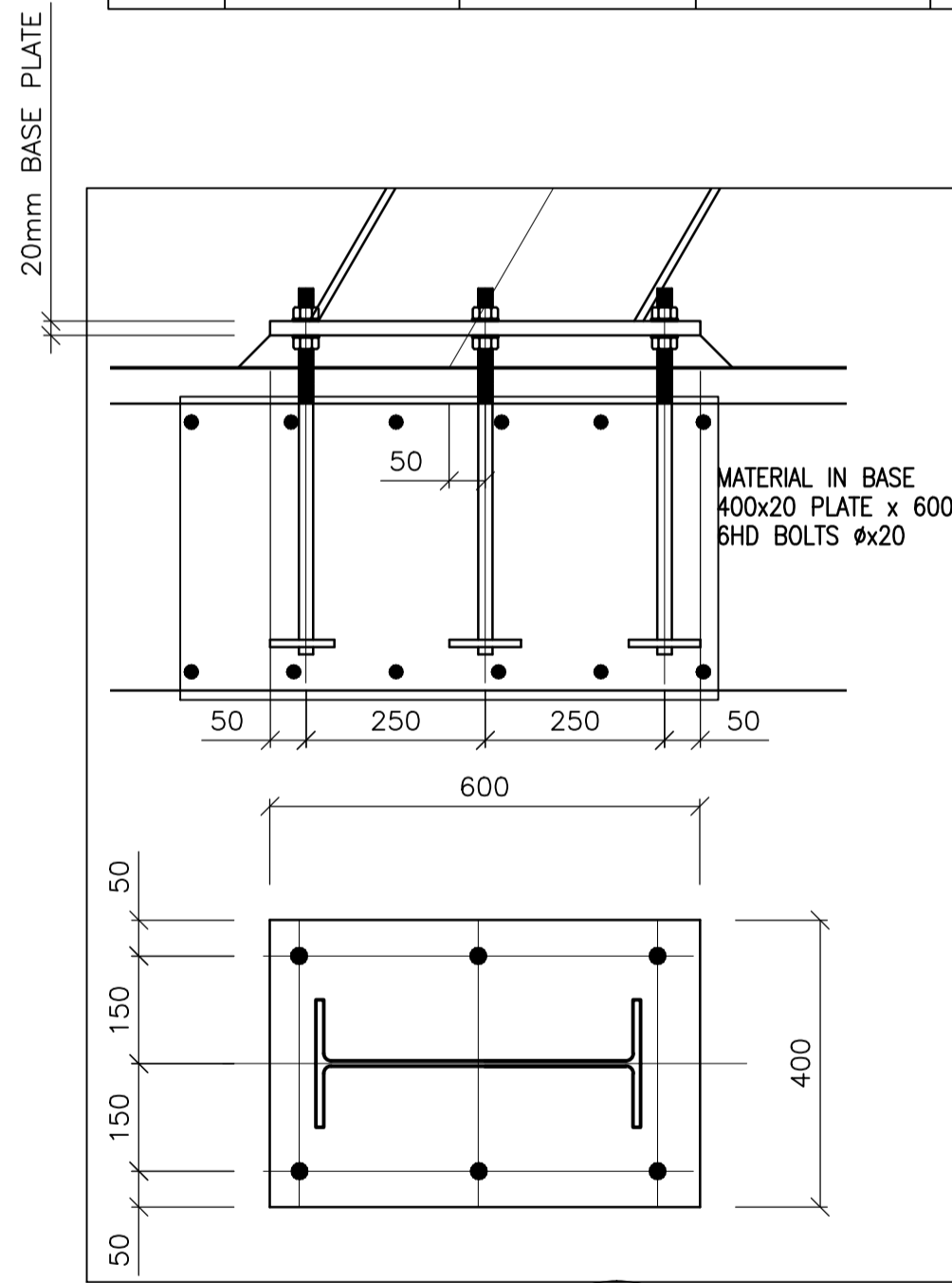
- J. STRUCTURAL STEELWORK:**
- ALL STRUCTURAL STEELWORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH SABS 1200 H.
 - WELDS SHALL CONFORM TO SABS 0167 – 1984 AND 044 SPES.
 - ALL DIMENSIONS SHALL BE CHECKED ON SITE BEFORE SHOP DRAWINGS COMMENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - A COMPLETE SET OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE FABRICATION COMMENCES.
 - ALL STRUCTURAL STEELWORK SHALL BE GRADE S355JR.
 - ALL STRUCTURAL BOLTS SHALL BE GRADE 8.8 UNLESS OTHERWISE NOTED.
 - WHERE TEMPORARY BRACING OR PROPPING IS NECESSARY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, ERECTION, MAINTENANCE AND REMOVAL (WHERE NECESSARY) OF SUCH SUPPORTS. IF SPLICES IN TRUSSES ARE REQUIRED BECAUSE OF TRANSPORT, PROPOSAL OF THIS SHALL BE SUBMITTED TO THE ENGINEER AT AN EARLY STAGE FOR WRITTEN APPROVAL.
 - CORROSION PROTECTION SHALL CONSIST OF:
8.1 HOT DIPPED GALVANIZING (HEAVY DUTY)
8.2 ALL NUTS, BOLTS AND WASHERS TO BE HOT DIPPED GALVANIZED
8.3 ALL STEELWORK BELOW GROUND TO BE PAINTED WITH EPOXY-TAR AS WELL.
 - WHERE APPLICABLE, GROUT SHALL BE PROVIDED UNDER BASE PLATES BEFORE ANY PRIMARY LOADS ARE APPLIED TO THE STRUCTURE.
 - ALL WELDING TO BE 6mm FILLET WELD UNLESS OTHERWISE SHOWN.



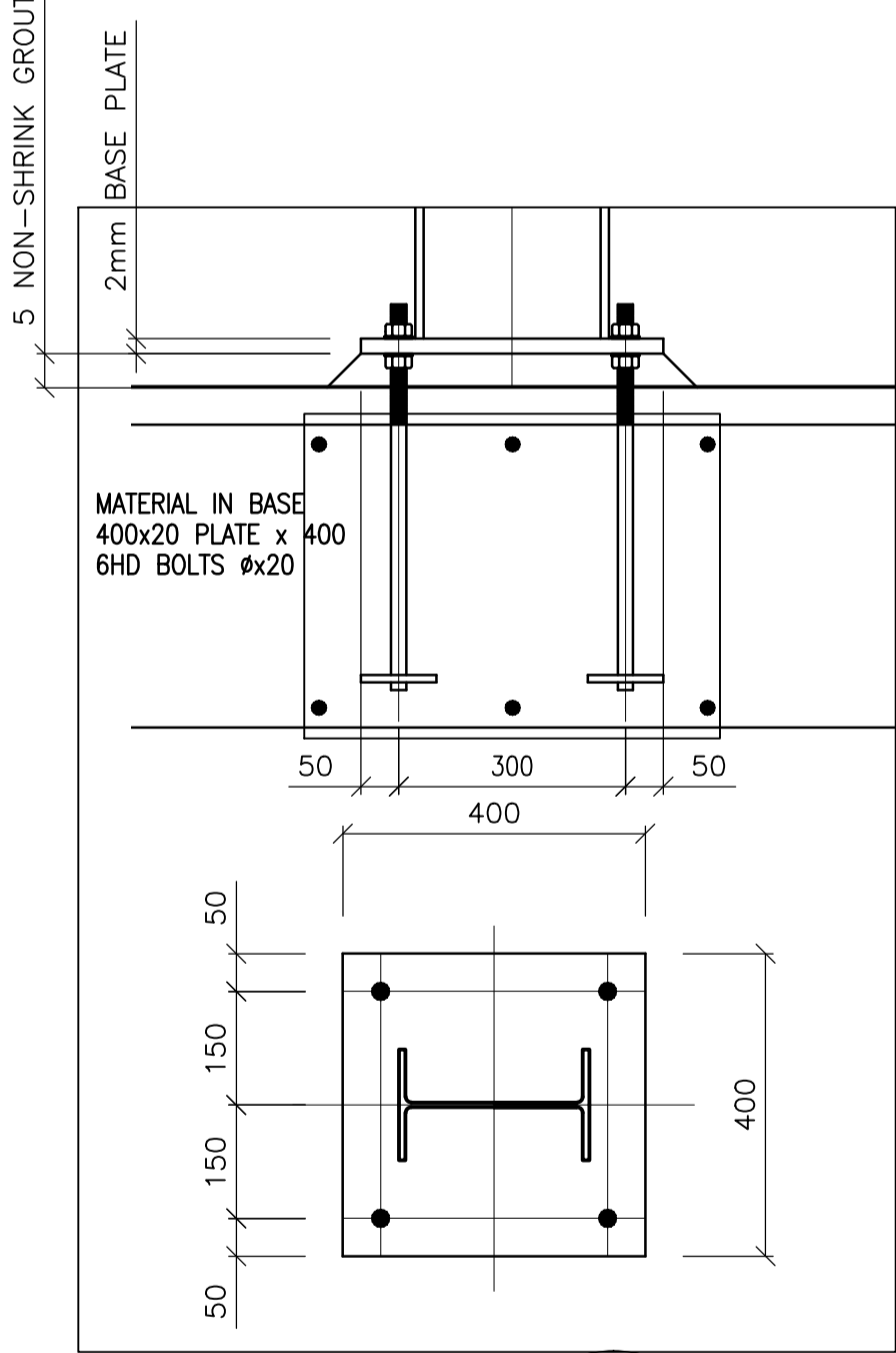
DETAIL D10
SCALE 1:10

SIDES OF TUNNEL SHUKUMA SCHEDULE				
QTY	WIDTH	DEPTH	LENGTH	TYPE
108	1200	120	2950	F

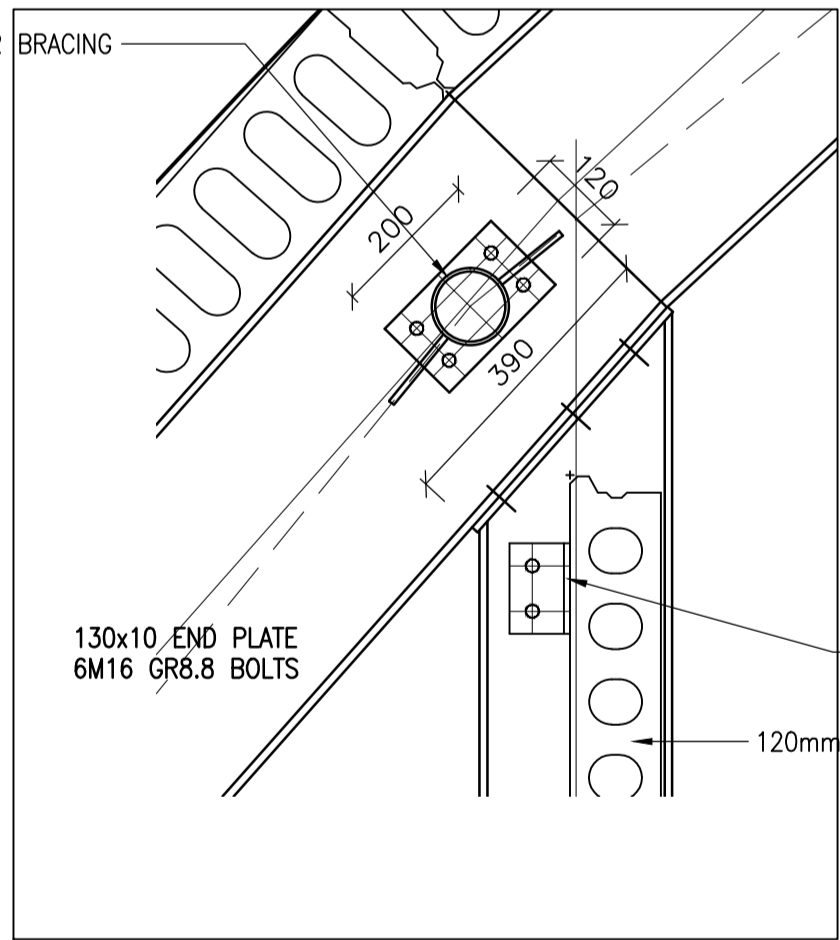
SECTION THROUGH CAR TUNNEL
SCALE 1:50



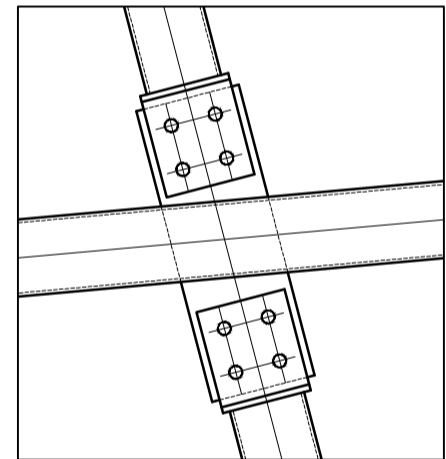
DETAIL D1
SCALE 1:10



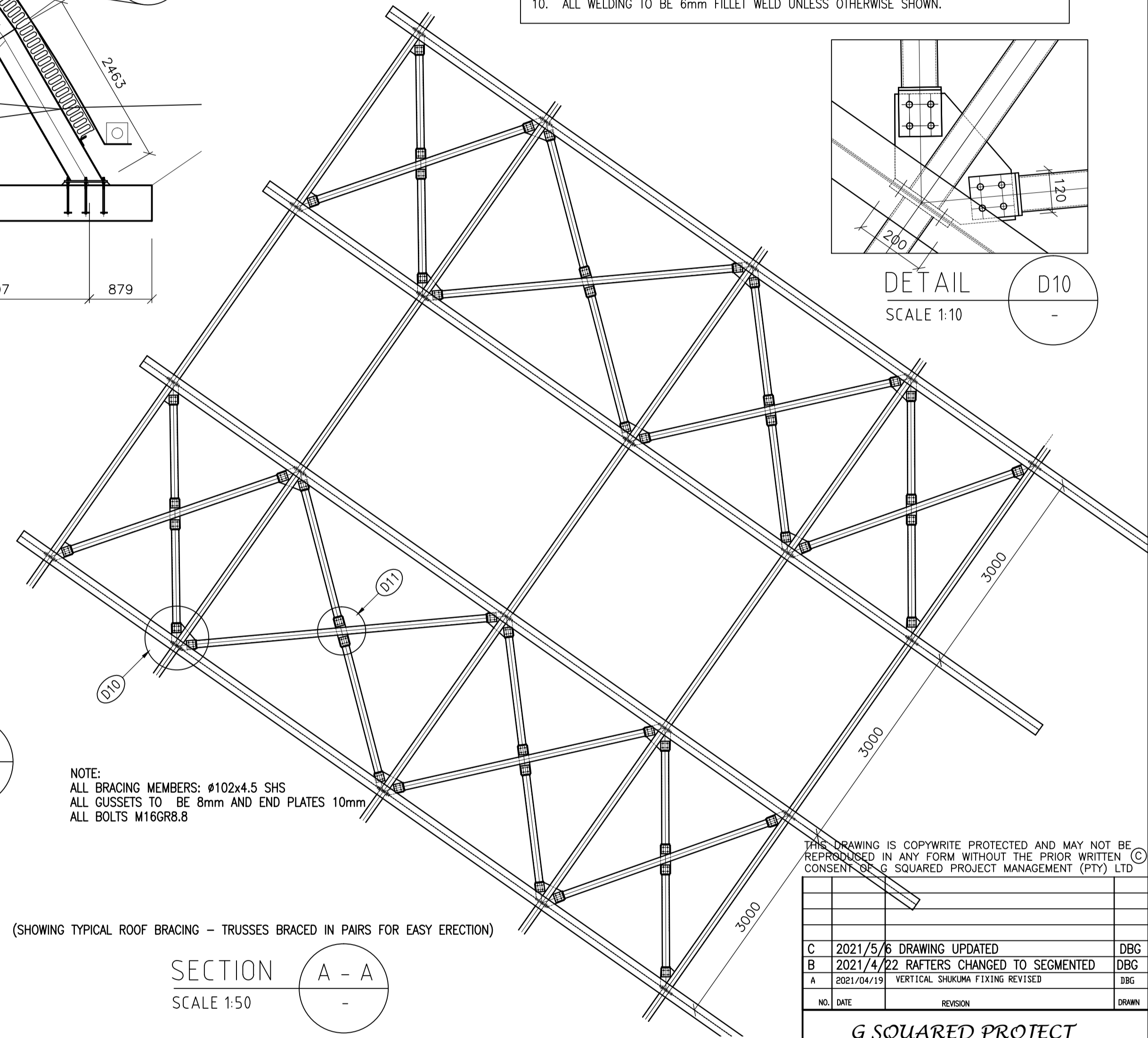
DETAIL D2
SCALE 1:10



DETAIL D4
SCALE 1:10



DETAIL D11
SCALE 1:10



SECTION A-A
SCALE 1:50

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NO.	DATE	REVISION	DRAWN
C	2021/5/6	DRAWING UPDATED	DBG
B	2021/4/22	RAFTERS CHANGED TO SEGMENTED	DBG
A	2021/04/19	VERTICAL SHUKUMA FIXING REVISED	DBG

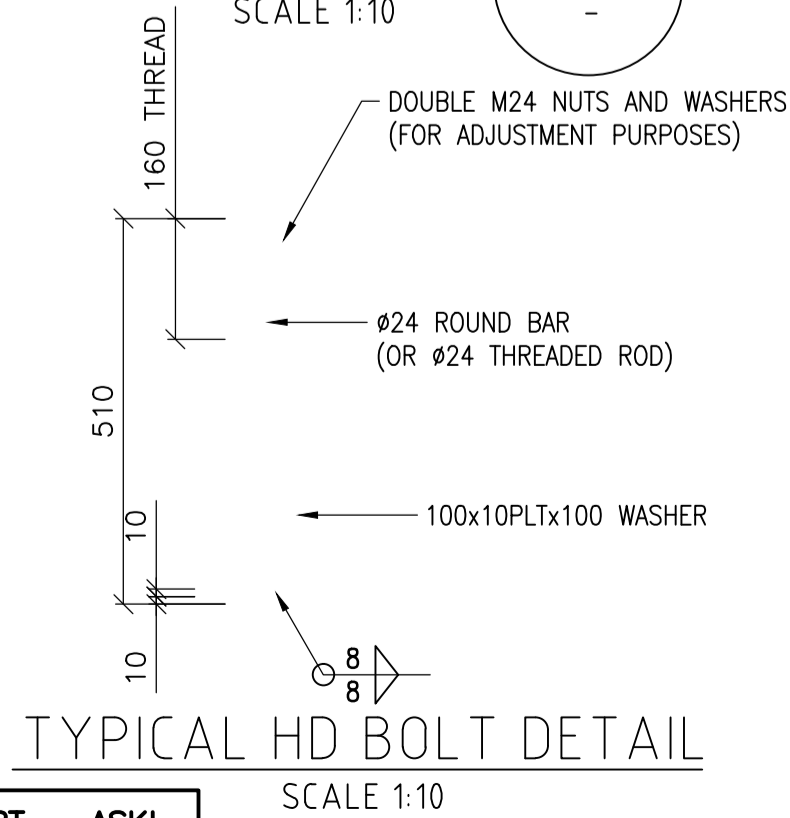
G SQUARED PROJECT MANAGEMENT (PTY) LTD
Project managers & Consulting Engineers

1 Kingston Road
Adcockvale
Port Elizabeth
Tel: 041 374 1551
Cell: 084 444 9478
Fax: 086 546 1324
Email: don@gsgquaredpm.com

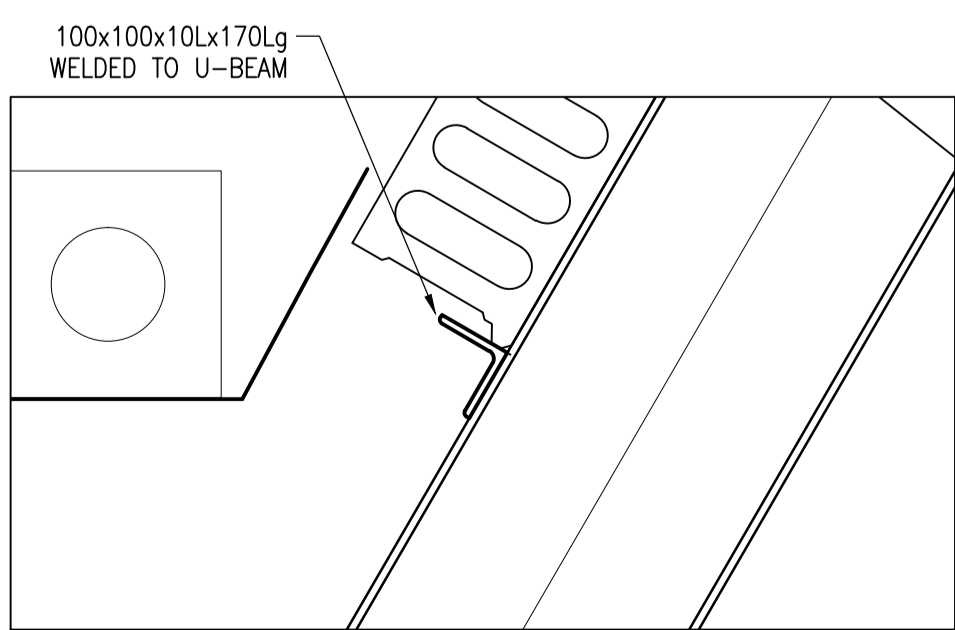


CLIENT	NETWORKING FOR ANIMALS		
ARCHITECT / MAIN AGENT	G SQUARED ARCHITECTURAL		
PROJECT	ADD ELEPHANT BRIDGE OVER ROAD AND TRAIN		
DRAWING TITLE	CAR TUNNEL TYPICAL DETAILS STRUCTURAL STEELWORK IN PORTAL		
SIGNATURE	DATE	SHEET SIZE	
DESIGNED: DBG	Pr.Eng No. 930170	2021/03/03	A1
DRAWN: DBG		2021/03/17	SCALE
CHECKED:			
DP3976-	-	S-001P-C	
REVISION	A	B	C

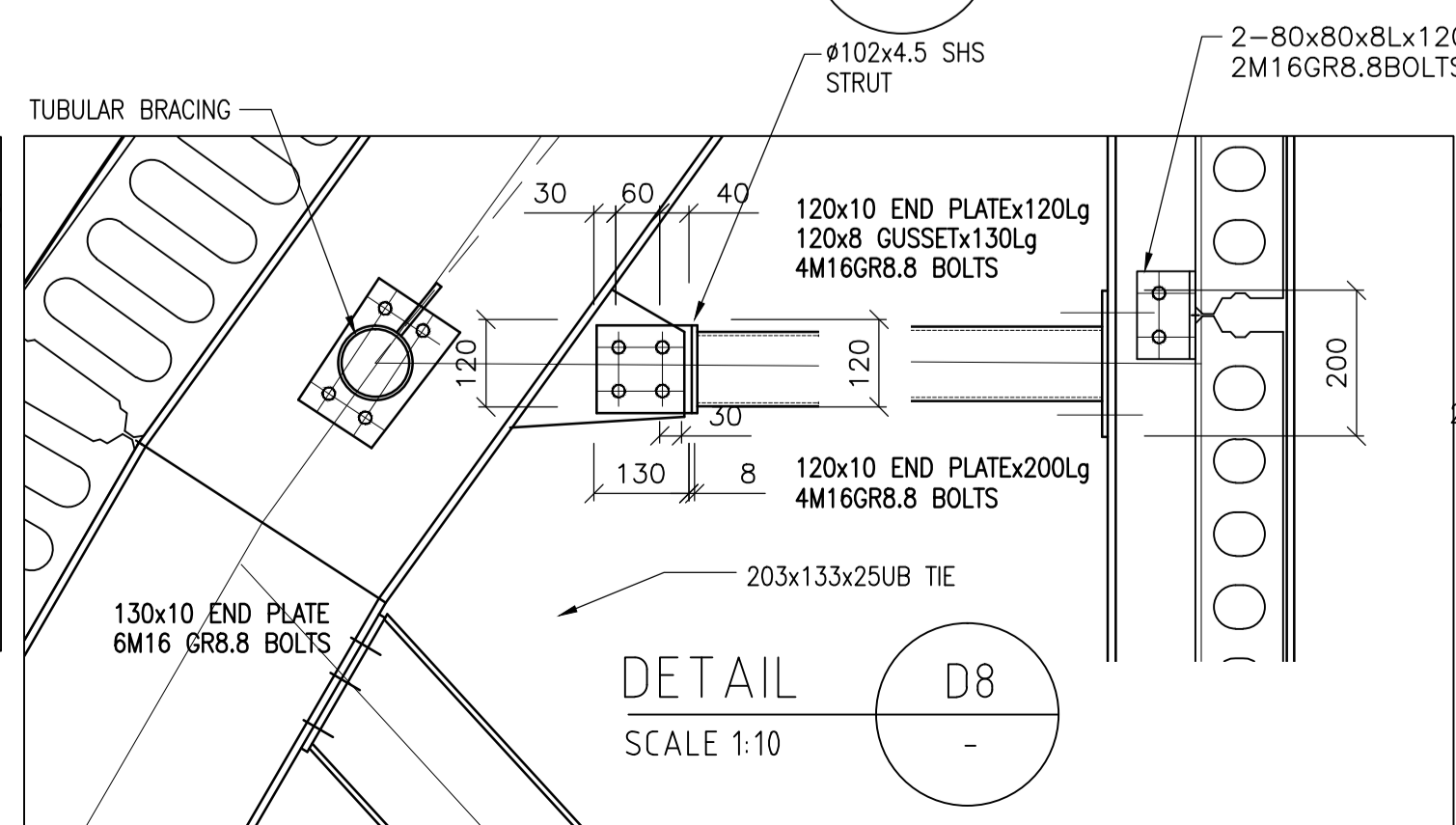
IF IN DOUBT – ASK!
DO NOT SCALE, USE
DIMENSIONS ONLY



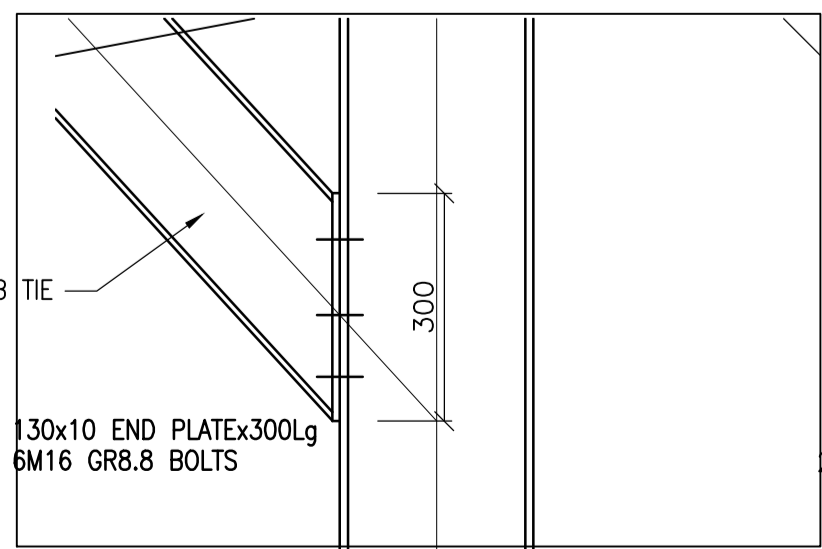
TYPICAL HD BOLT DETAIL
SCALE 1:10



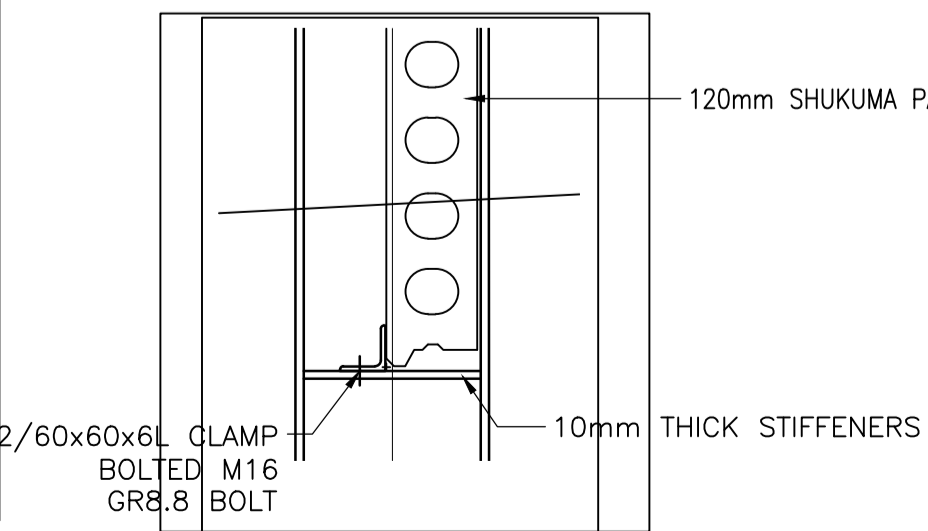
DETAIL D3
SCALE 1:10



DETAIL D8
SCALE 1:10



DETAIL D5
SCALE 1:10



DETAIL D6
SCALE 1:10