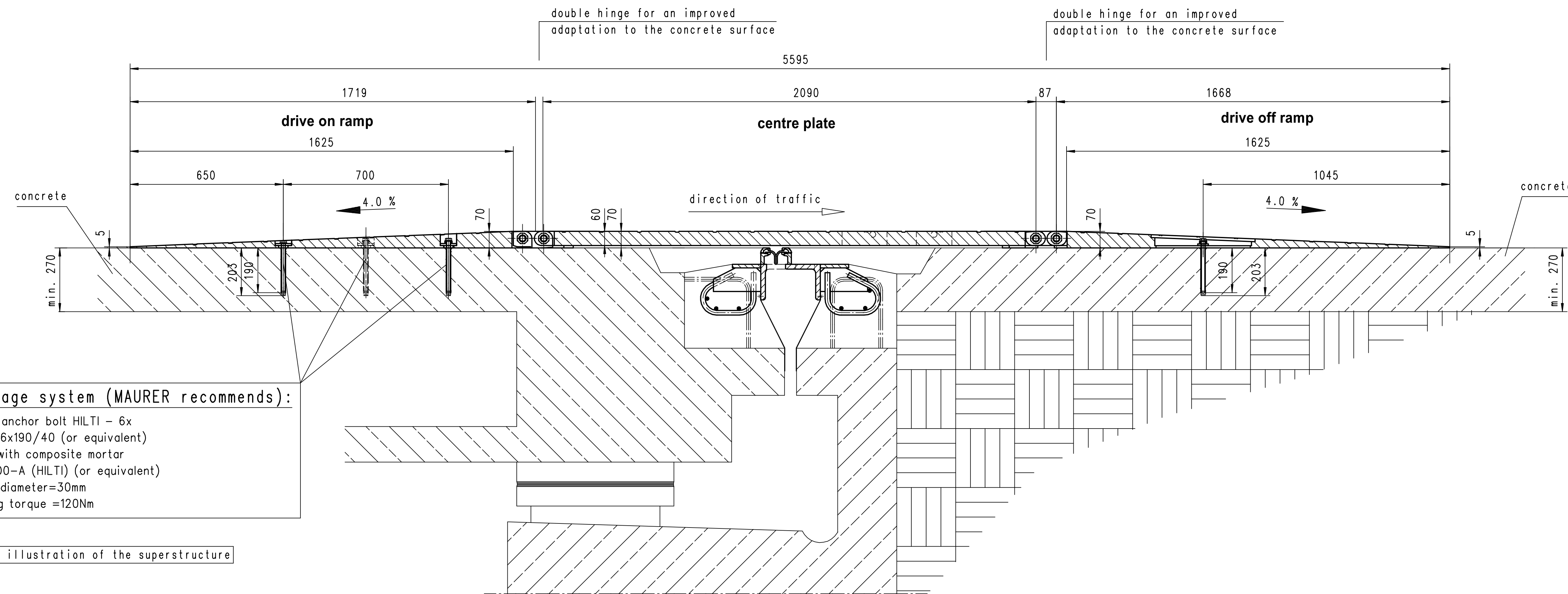


MAURER MODULAR BRIDGING SYSTEMS - MMBS

Max crossing speed is 80 km/h. The client must determine and enforce the actual speed limit based on the max MMBS crossing speed and the conditions at the construction site.

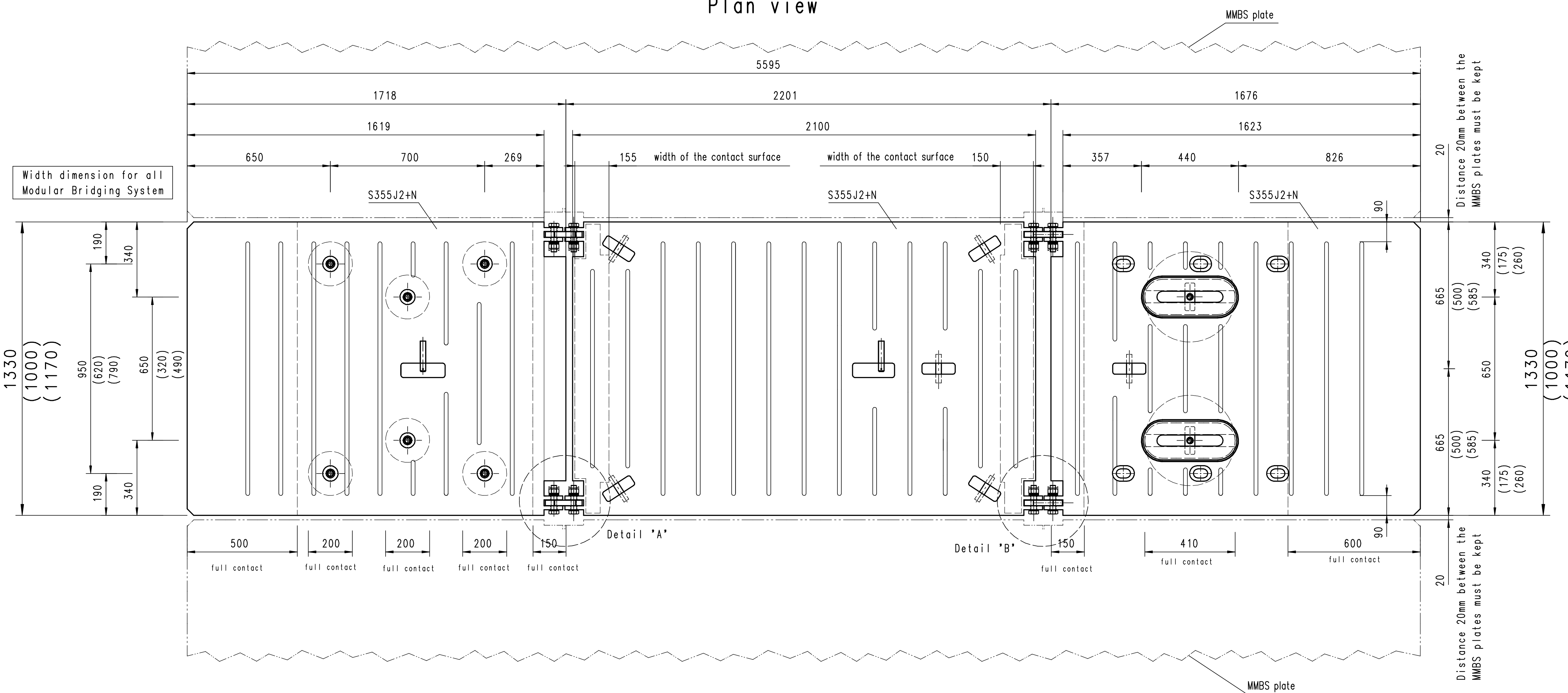
≤ 80km/h (49 mph)



Anchorage system (MAURER recommends):
 concrete anchor bolt HILTI - 6x
 HDA-T M16x190/40 (or equivalent)
 inserted with composite mortar
 HIT HY 200-A (HILTI) (or equivalent)
 Drill hole diameter=30mm
 Tightening torque =120Nm

Schematic illustration of the superstructure

Plan view

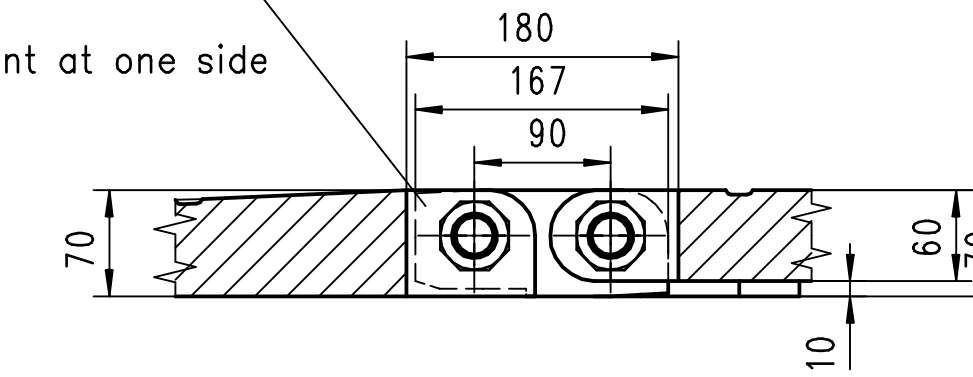


Width dimension for all Modular Bridging System

DETAIL 'A'

Scale 1:5

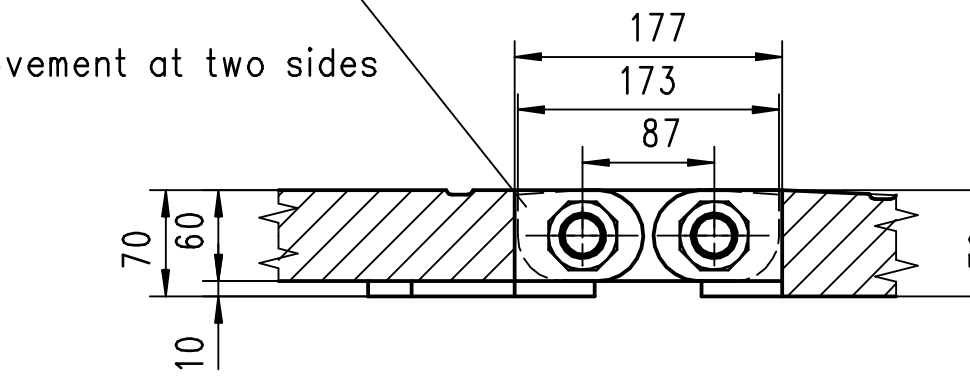
centrally positioned hinge connection with mechanic stop for limitation of movement at one side



DETAIL 'B'

Scale 1:5

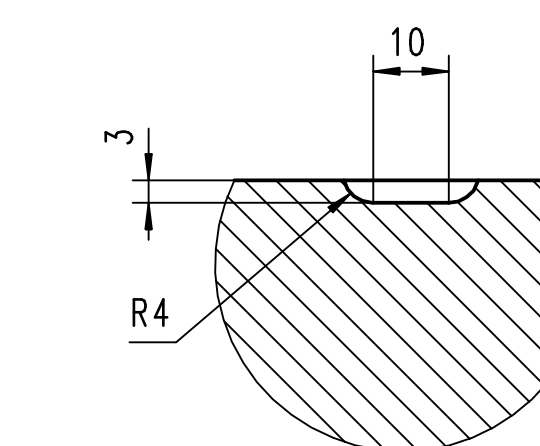
centrally positioned hinge connection with mechanic stop for limitation of movement at two sides



high-tension fitted bolt connection
 high-tension fitting bolt M24x115 10.9 acc. to DIN EN 14399-8, hot-dip galvanised
 high-tension hex. nut M24, strength class 10 acc. to DIN EN 14399-4, hot-dip galvanised
 high-tension washers 25 acc. to DIN EN 14399-6

DETAIL 'GROOVE'

Scale 1:1

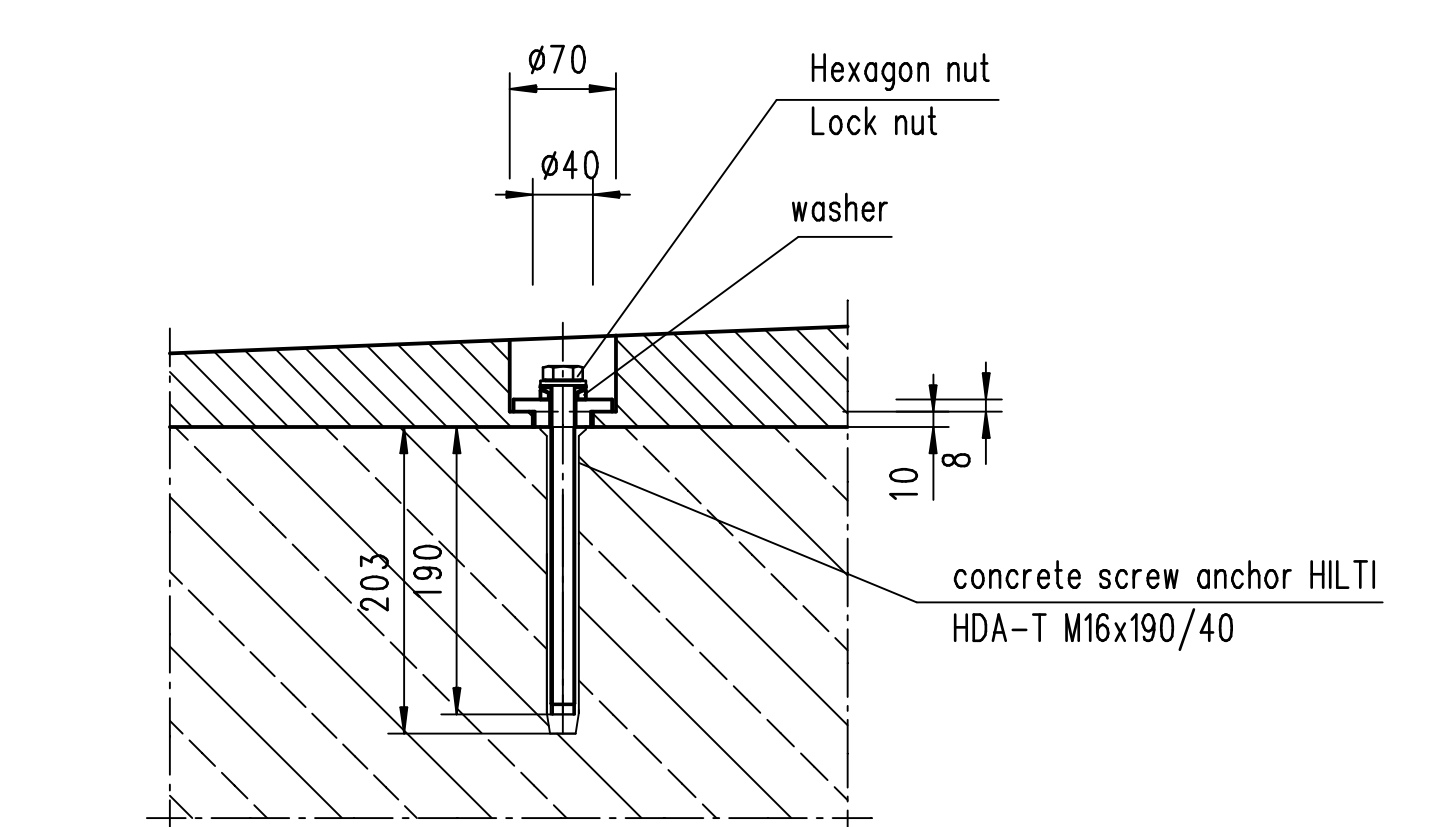


high-tension fitted bolt connection /
 high-tension fitting bolt M24x115 10.9 acc. to DIN EN 14399-8, hot-dip galvanised
 high-tension hex. nut M24, strength class 10 acc. to DIN EN 14399-4, hot-dip galvanised
 high-tension washers 25 acc. to DIN EN 14399-6

Detail bolted connection

schematic view

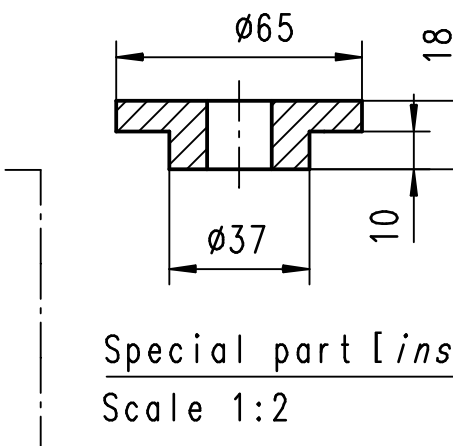
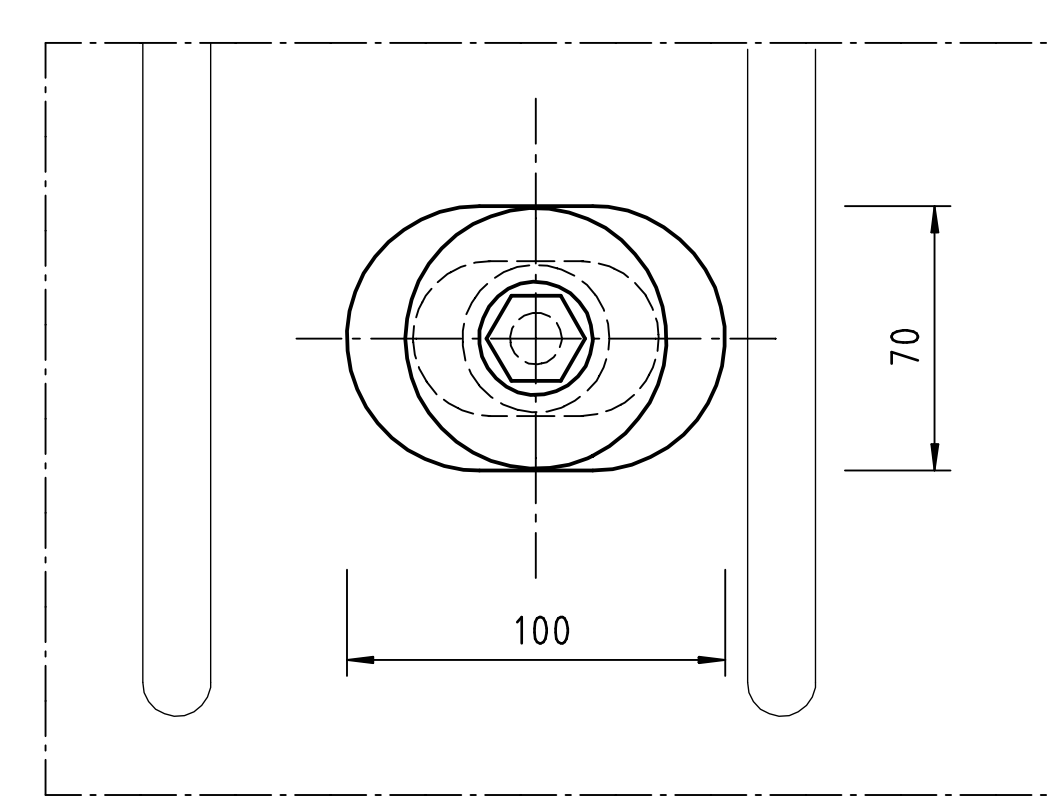
Scale 1:5



Plan view

screwed connection abutment

Scale 1:2

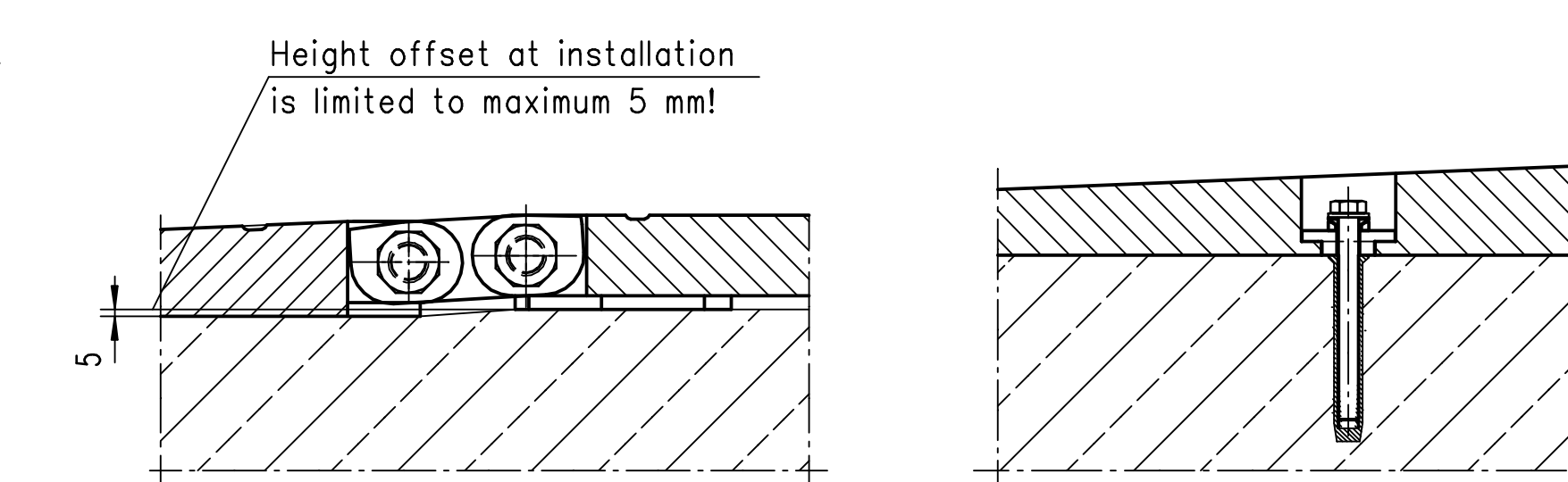


REQUIREMENTS FOR THE INSTALLATION

applies equally to both the drive-on and drive-off side

Scale 1:5

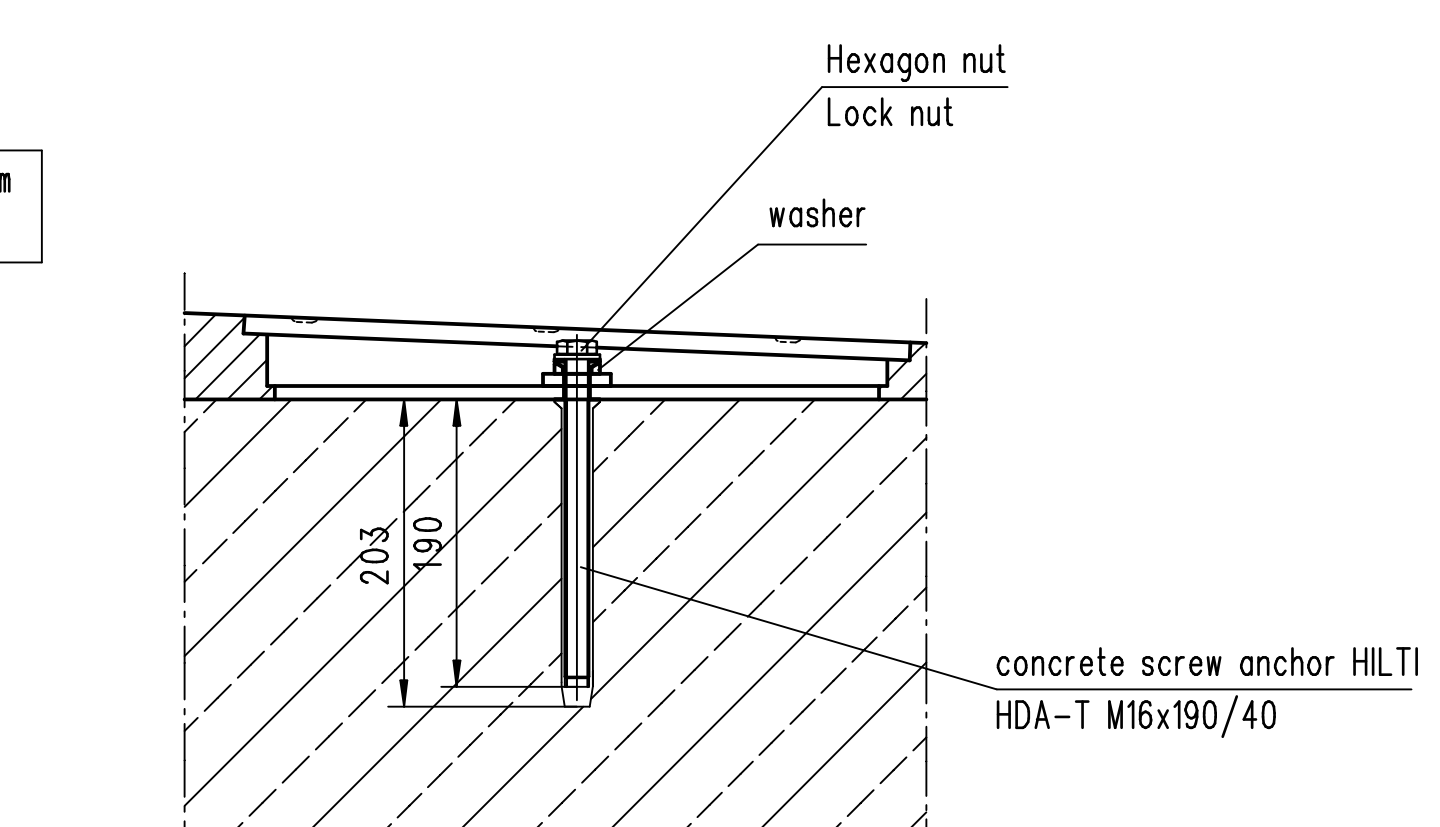
Tightening torque of the metric bolt on the hold-down clamp: 5.5 Nm
 Tightening torque of the HDA-T bolt: 120 Nm



Detail bolted connection

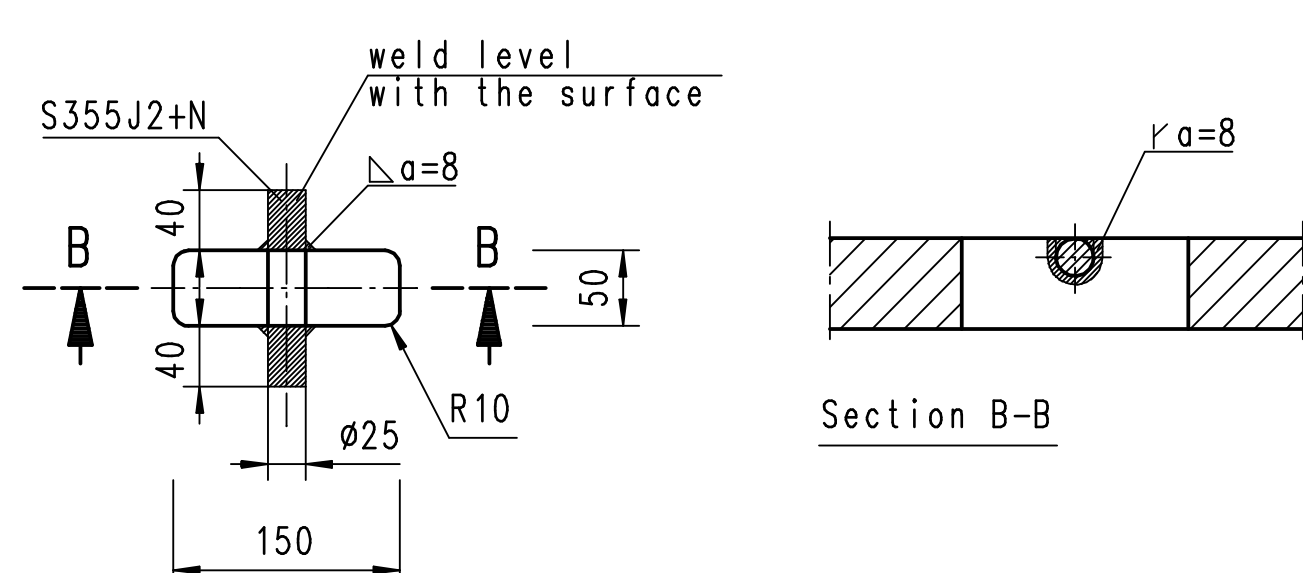
schematic view

Scale 1:5



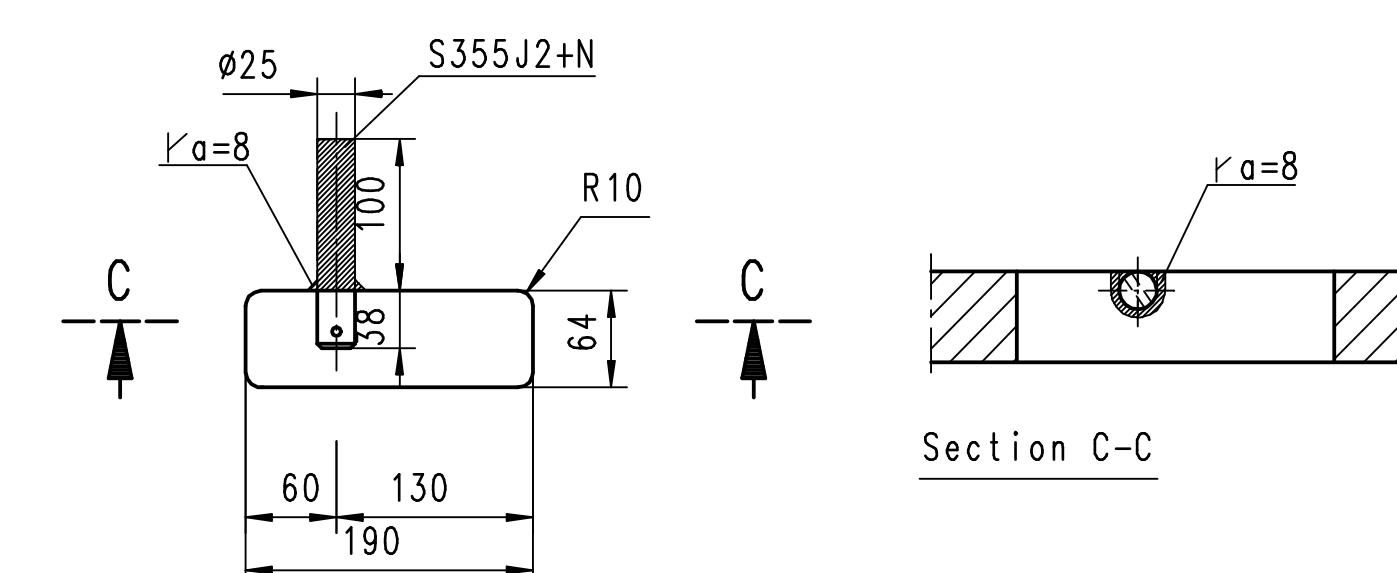
DETAIL - PULL POINTS

Scale 1:5



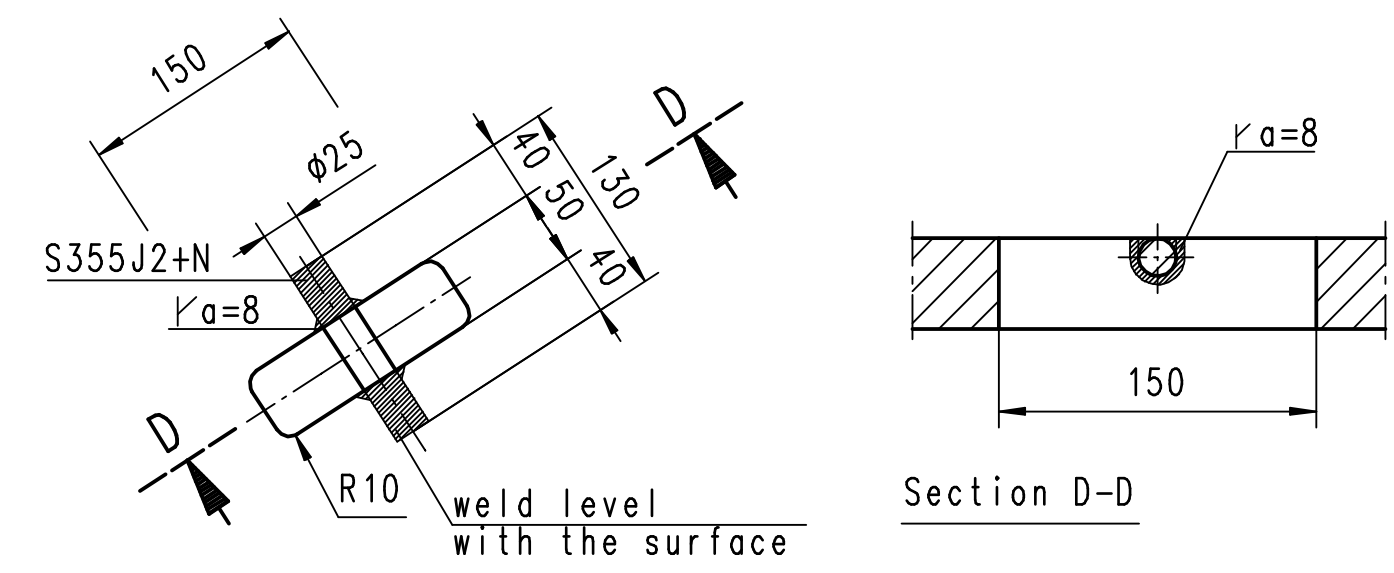
DETAIL - SOCKET 'TURNBUCKLE' STAY

Scale 1:5 exemplary illustration for the bridging element



DETAIL - LIFTING SPOTS

Scale 1:5



NOTES:

Please note Installation Manual and Maintenance Manual

The MMBS System shall be used according to installation and maintenance manual (doc PA 1.500 and AA 1.557).

The MMBS system shall be used for up to six months (= 6x4 weeks installation and maintenance interval) at a time at one location. The intervals are prescribed and must be observed according to the installation and maintenance instructions (doc. PA 1.500 and doc. AA 1.557).

If all maintenance intervals are respected, the system be able used for another 6 months.

The system meets the requirements of the Canadian Highway Bridge Design Code (CHBDC) S6-14, 2014; Supplement to CHBDC S6-14, 2016

GENERAL TOLERANCES

Welds: ISO 5817 B (please note work instruction AA 1.510)
 Weld construction: DIN EN ISO 13920 CC
 Other: DIN ISO 2768 m (please note work instruction AA 1.512)

Revision	Comment added	Date	Drawn
1		11.02.21	Trapp
2			
3			
4			
5			
6			
7			
8			
9			
10			

Client:	MAURER SE Munich	Order number:	V 303 873
Project:	MMBS for Moti BC	Scale:	1:10 / 5 P 104 676 001
Contract:	MAURER MODULAR BRIDGING SYSTEM - concrete anchor	Article No.:	1000089163 / 0002b
Project leader:	not galvanized	Sheet No.:	1000089170
Primer layer:	not galvanized	Thickness:	80-100 µm
Intermediate coat:	apoxid iron oxide	Thickness:	150 µm
Finishing coat:	PUR apoxid iron oxide	Thickness:	80 µm