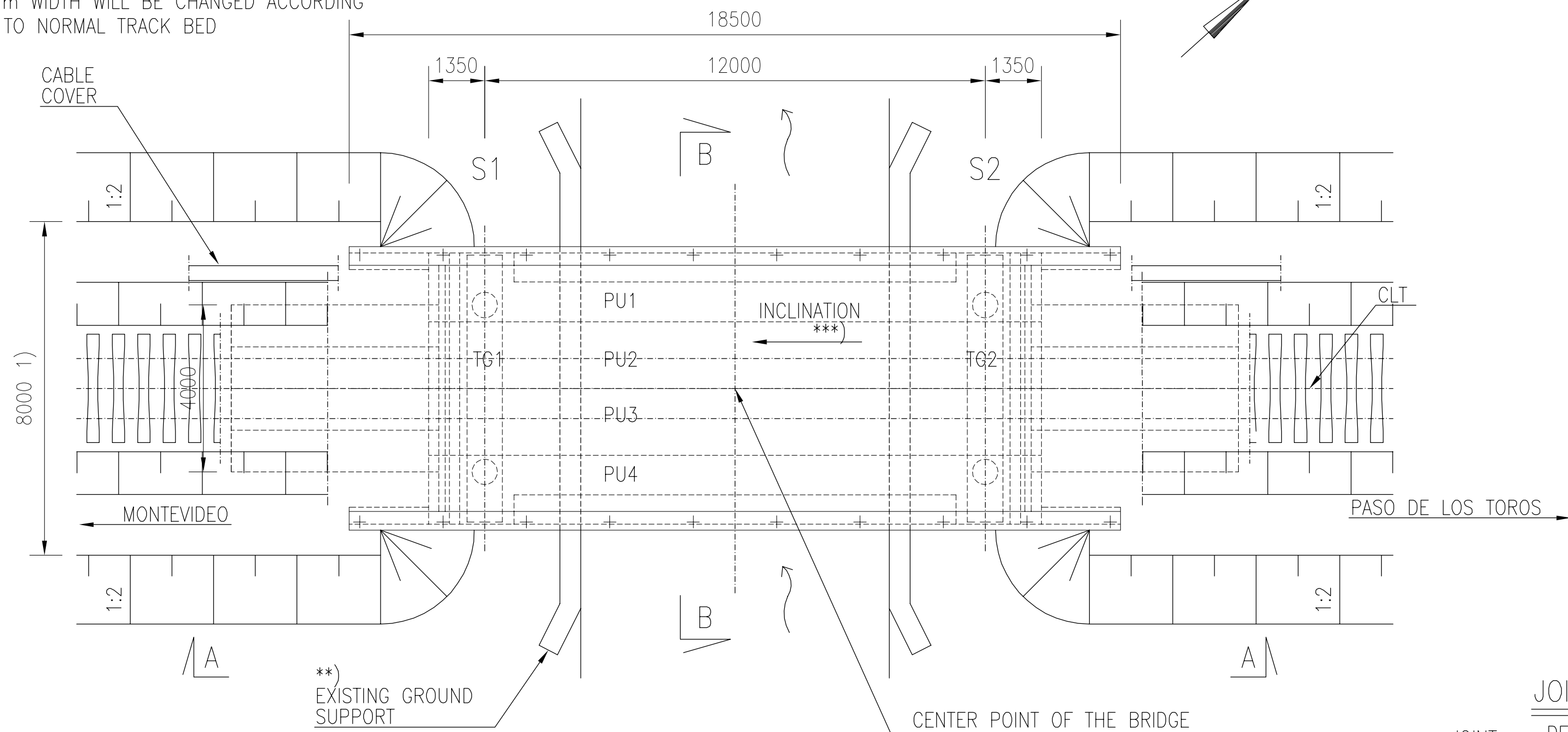


1) THE WIDTH OF THE TRACK BED 8.0 m
IN THE END OF THE BRIDGE, AFTER 10
m WIDTH WILL BE CHANGED ACCORDING
TO NORMAL TRACK BED

PREFABRICATED BRIDGE 12 m 1:100



***) BRIDGE WILL BE BUILT MIN. 1 %
INCLINATION ACCORDING TO VERTICAL
GEOMETRY OF TRACK

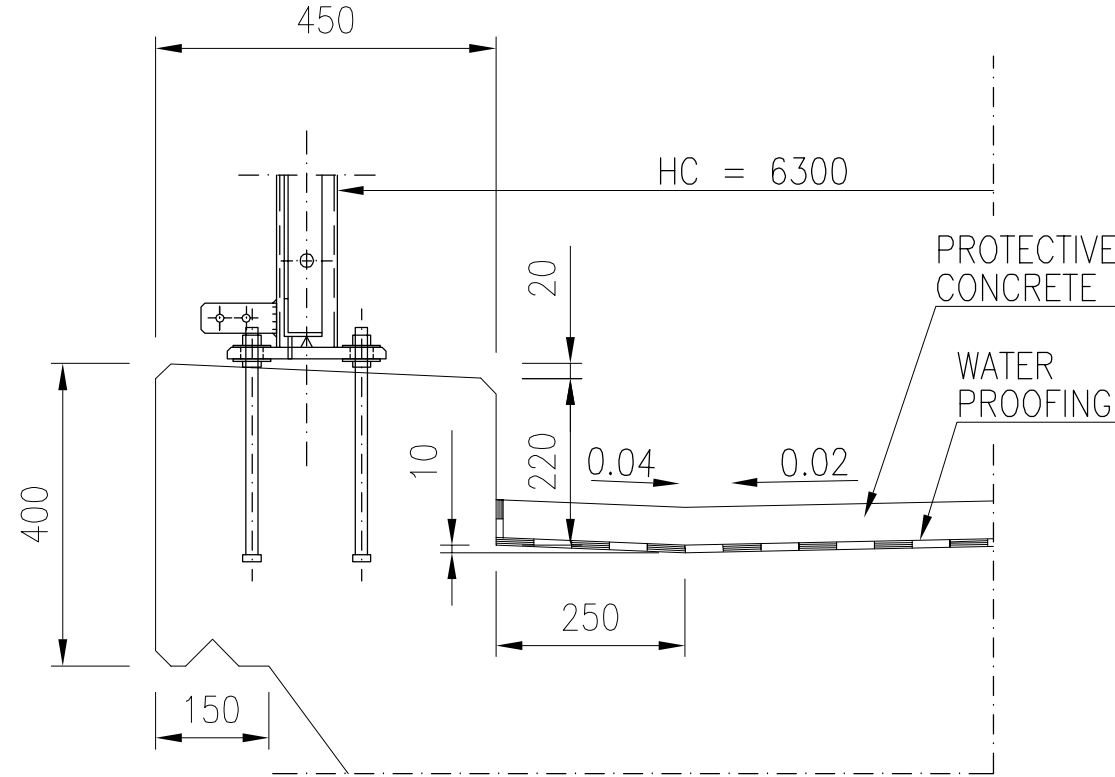
PU = PRECAST UNIT
TG = TRANSVERSE GIRDER

ESTIMATED AMOUNT OF CONCRETE
PILES: 11 m³
TRANSVERSE GIRDER: 13 m³
SUPERSTRUCTURE: 99 m³

ESTIMATED REINFORCING STEEL
PILES: 1200 kg
TRANSVERSE GIRDER: 200 kg/m³ (CONCRETE)
SUPERSTRUCTURE: 170 kg/m³ (CONCRETE)
TRANSITION SLABS: 325 kg/m³ (CONCRETE)

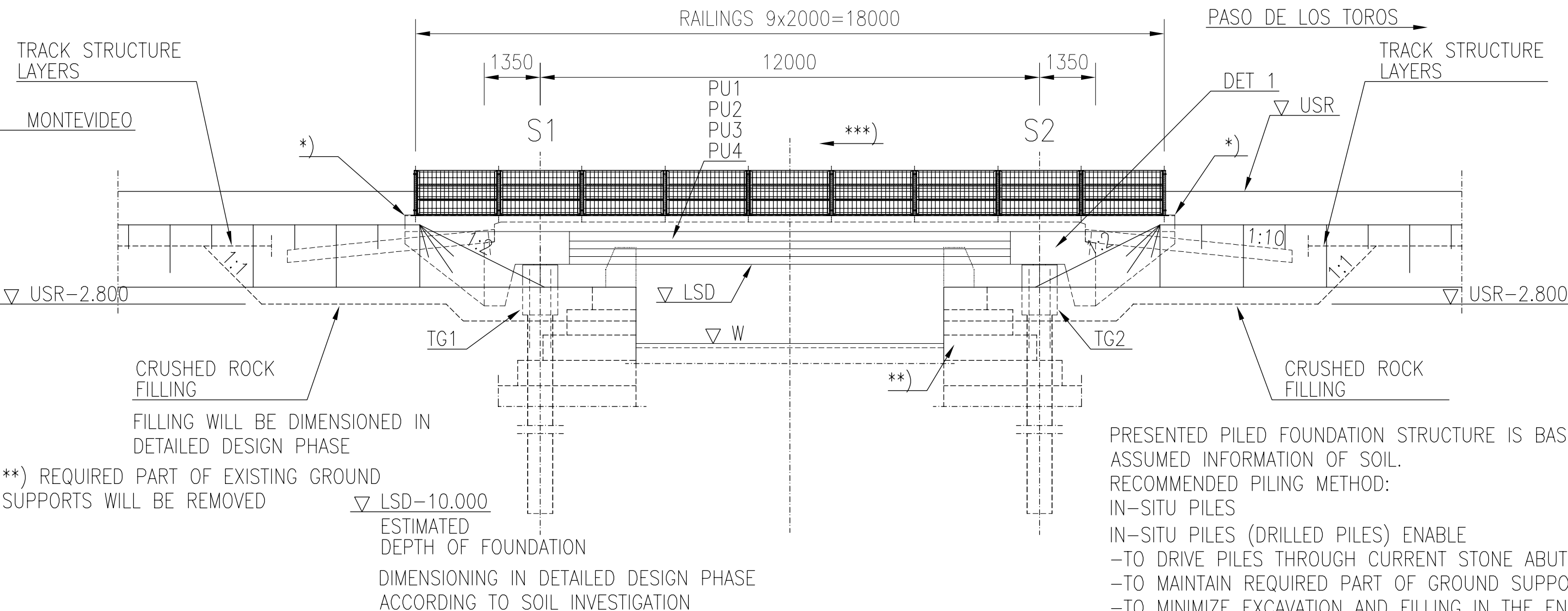
PROTECTIVE CONCRETE: 3 kg/m²

EDGE BEAM 1:10



A - A 1:100

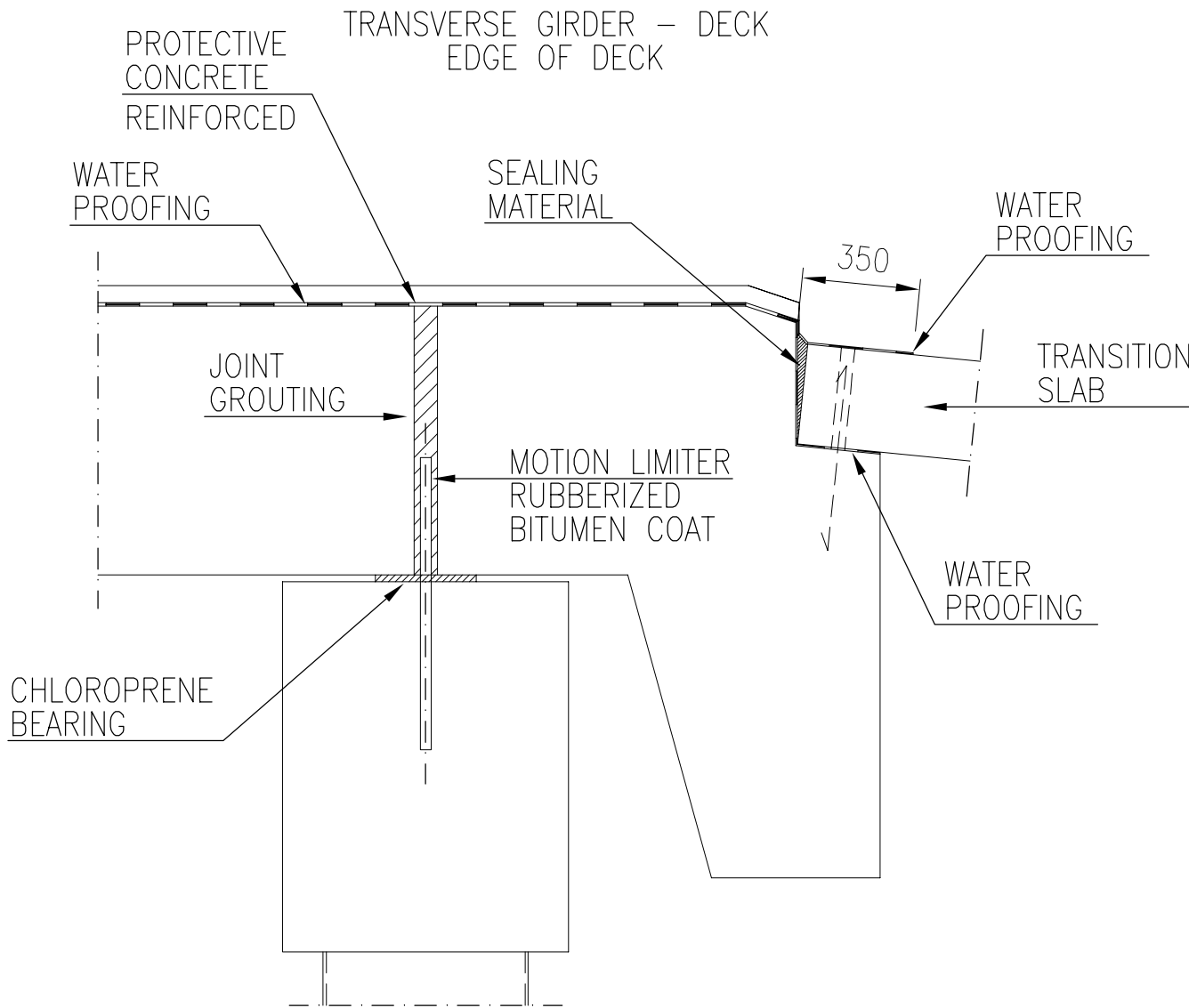
*) THE LENGTH OF THE WING WALLS WILL BE
VERIFIED IN DETAILED DESIGN PHASE OR BEFORE
FABRICATION OF PRECAST UNITS



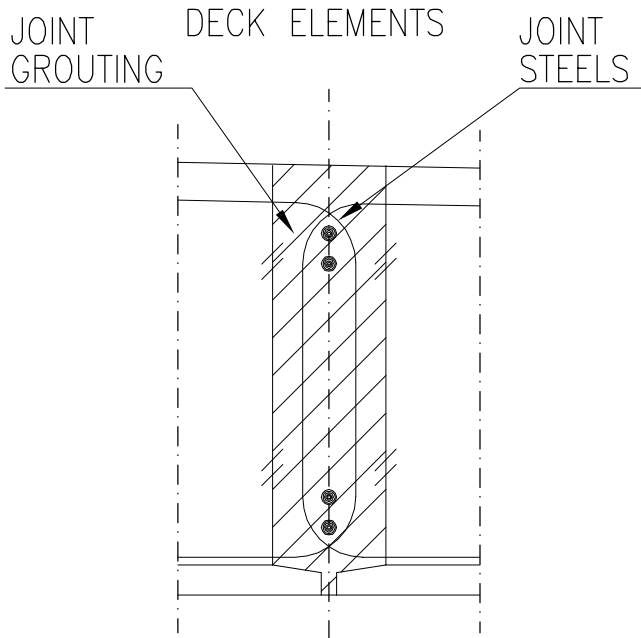
**) REQUIRED PART OF EXISTING GROUND
SUPPORTS WILL BE REMOVED
LSD-10.000
ESTIMATED
DEPTH OF FOUNDATION
DIMENSIONING IN DETAILED DESIGN PHASE
ACCORDING TO SOIL INVESTIGATION

PRESENTED PILED FOUNDATION STRUCTURE IS BASED ON
ASSUMED INFORMATION OF SOIL.
RECOMMENDED PILING METHOD:
IN-SITU PILES
IN-SITU PILES (DRILLED PILES) ENABLE
-TO DRIVE PILES THROUGH CURRENT STONE ABUTMENT
-TO MAINTAIN REQUIRED PART OF GROUND SUPPORT
-TO MINIMIZE EXCAVATION AND FILLING IN THE END OF
THE BRIDGE
-TO SHORTEN THE NEEDED CONSTRUCTION TIME

DET 1 1:20



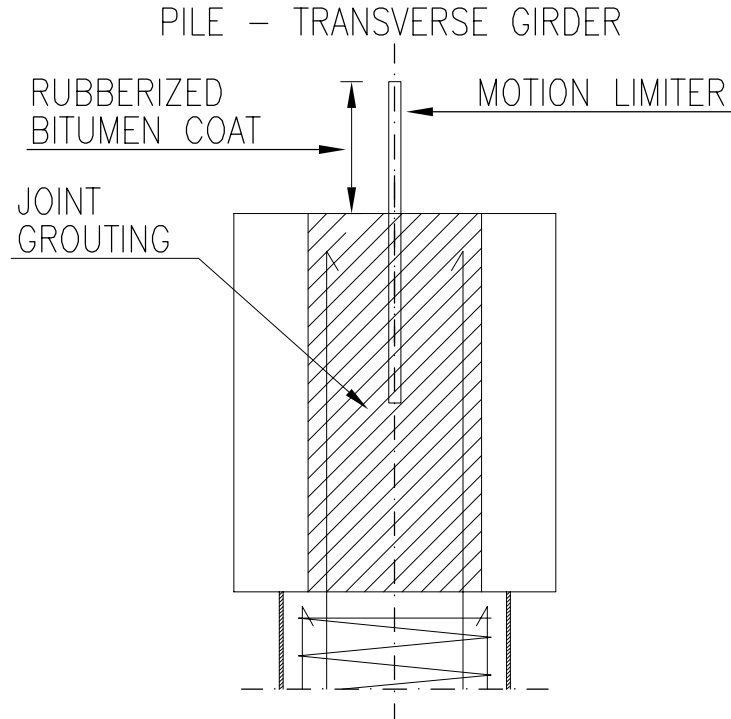
JOINTS 1:10



ELEMENTS ARE JOINED TOGETHER TO
STRENGTHEN THE DECK STRUCTURE

REINFORCING STEELS IN JOINTS WILL
BE DEFINED IN DETAIL DESIGN PHASE

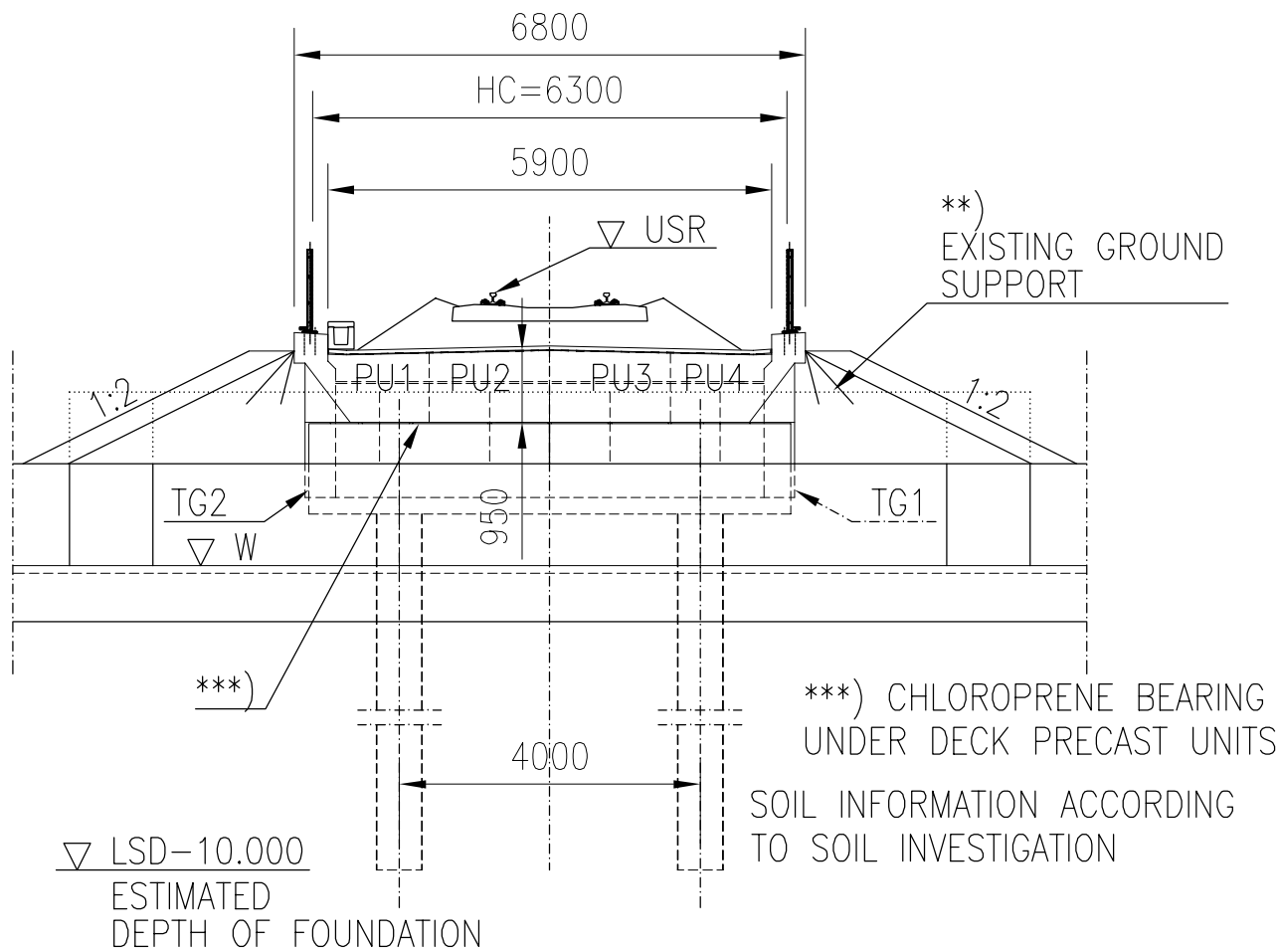
JOINTS 1:20



POSSIBLE REINFORCING WILL BE
DIMENSIONED IN DETAILED DESIGN
PHASE

SUPPORTING FOR TRANSVERSE GIRDER
DURING ASSEMBLY WILL BE DEFINED
IN DETAILED DESIGN PHASE

B - B 1:100



CONCRETE:	C35/45 Cmin=40 mm
REINFORCING STEEL:	B500B
REINFORCING MESH:	B500K
PILES / FOUNDATION:	DRILLED PILES D610x14,2 S355J2H
TRANSITION SLABS:	PREFABRICATED TRANSITION SLABS 2 x 4 x 1.0 m x 5,0 m OR CAST IN SITU 2 x 4,0 m x 5,0 m CONCRETE C35/45
CONSTRUCTIONAL STEEL:	S355 J2, HOT-DIP ZINC COATED
RAILING / FENCE:	h = 1.1 m S355J2H HORIZONTAL LINE LOAD 1.0 KN/m VERTICAL POINT LOAD 1.0 KN
SURFACE STRUCTURE:	WATER PROOFING MATERIAL 10 mm PROTECTIVE CONCRETE 50 mm BALLAST 550 mm
FILLING:	REQUIREMENTS ACCORDING TO TRACK INTERMEDIATE LAYER

CLT = CENTER LINE of the TRACK
HC = HORIZONTAL CLEARANCE
LSD = LOWER SURFACE of the DECK
USR = UPPER SURFACE of the RAIL

MAP

BRIDGETYPE	PREFABRICATED BRIDGE
SPANS	1.35 m + 12.00 m + 1.35 m
HORIZONTAL CLEAR SPAN	—
HORIZONTAL CLEARANCE	6.30 m

VERSION
23.10.2017

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	MT OP				
Project	Railway Project				
Design phase	Pre-engineering, Phase 2				
Content	Prefabricated bridge 12 m Preliminary general drawing Km+m +-+				
Supplier	VR TRACK				
Drawer	23.10.2017	Ilkka Tiiri	Loading	LM71-25	
Designer	23.10.2017	Ilkka Tiiri	Coordinate and elevation reference system	WGS 84 UTM 21	
Supervisor	23.10.2017	Reima Niklander	Railway line		
Accept.	-	-	Archive	Type	Number
Cust. acc.	-	-	Rev.	Sheet	
			RB	-	1