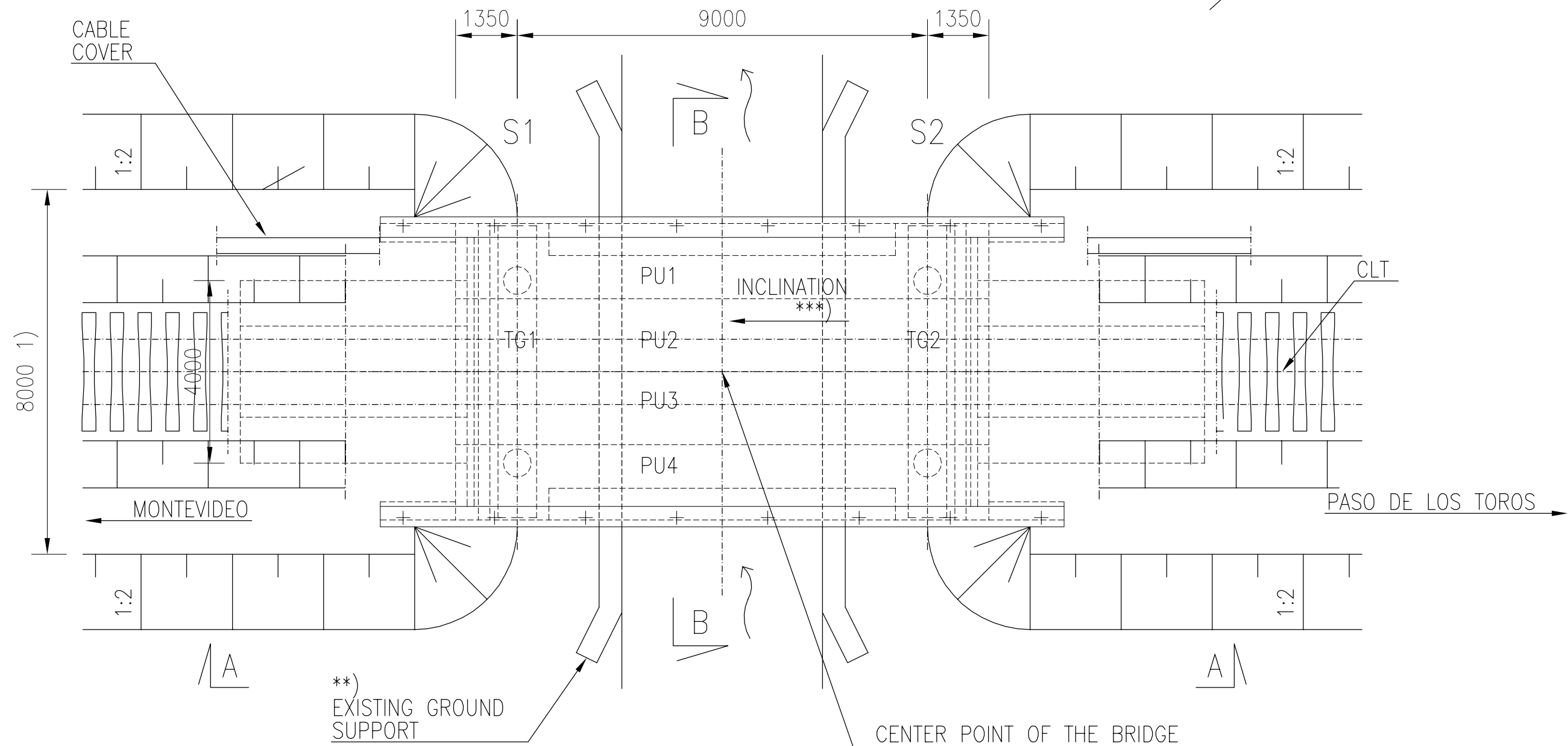


1) THE WIDTH OF THE TRACK BED 8.0 m
IN THE END OF THE BRIDGE, AFTER 10
m WIDTH WILL BE CHANGED ACCORDING
TO NORMAL TRACK BED

PREFABRICATED BRIDGE 9 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

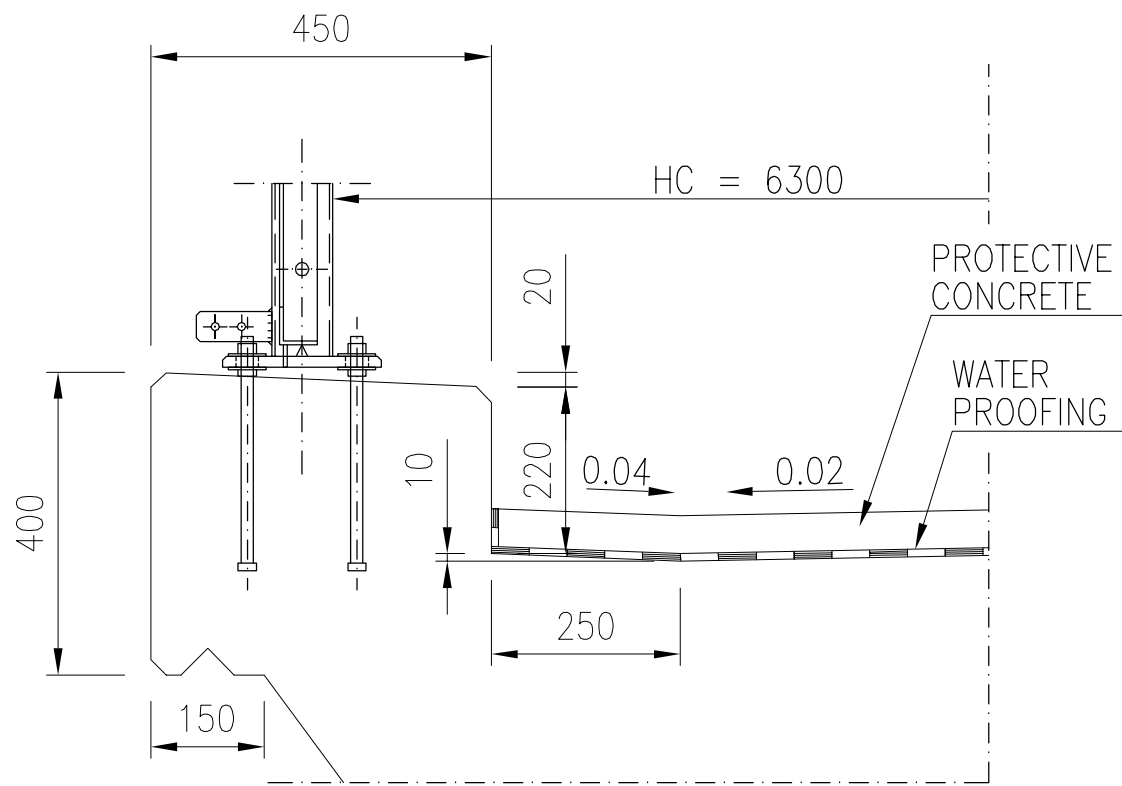
PILES: 11 m³
TRANSVERSE GIRDER: 12 m³
SUPERSTRUCTURE: 70 m³

ESTIMATED REINFORCING STEEL

PILES: 1200 kg
TRANSVERSE GIRDER: 200 kg/m³ (CONCRETE)
SUPERSTRUCTURE: 190 kg/m³ (CONCRETE)
TRANSITION SLABS: 325 kg/m³ (CONCRETE)

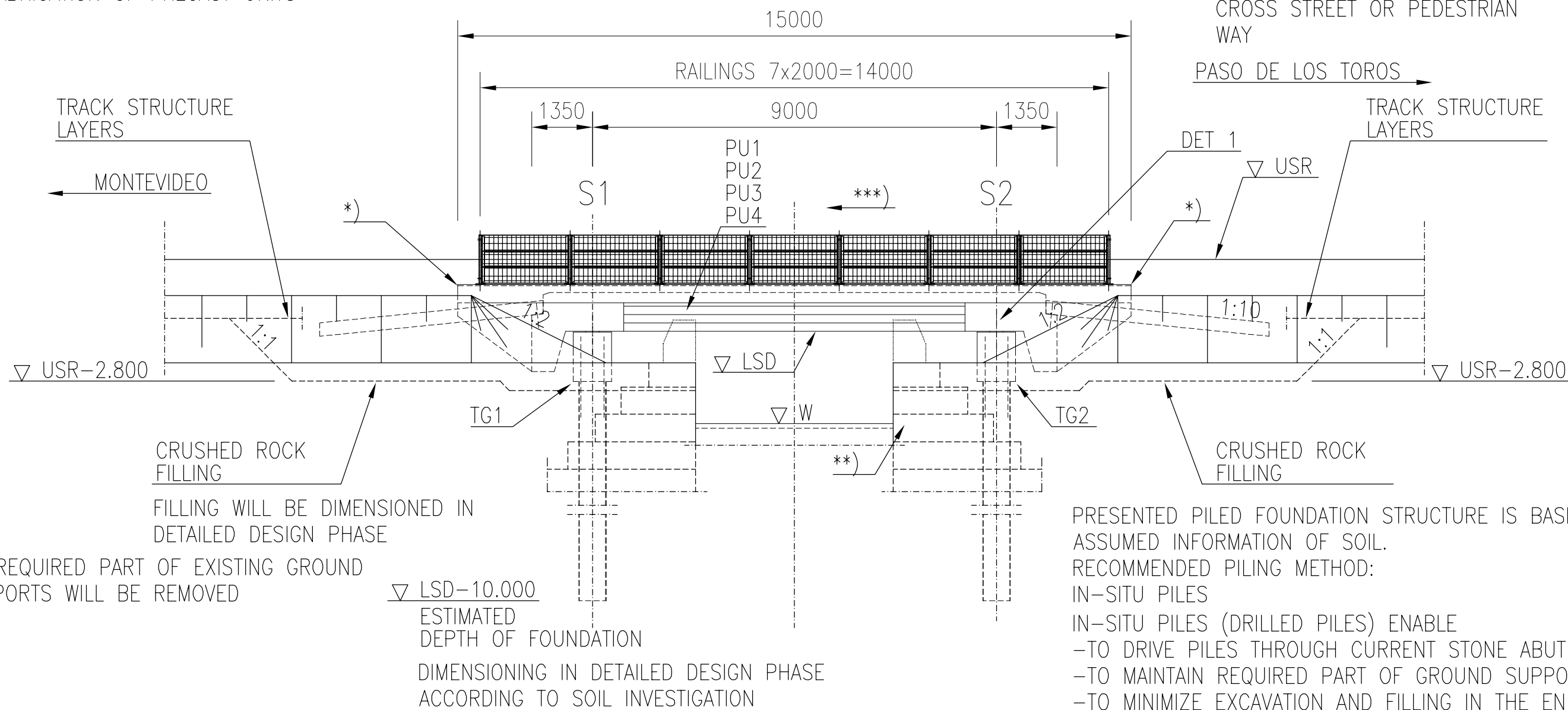
PROTECTIVE CONCRETE: 3 kg/m²

EDGE BEAM 1:10



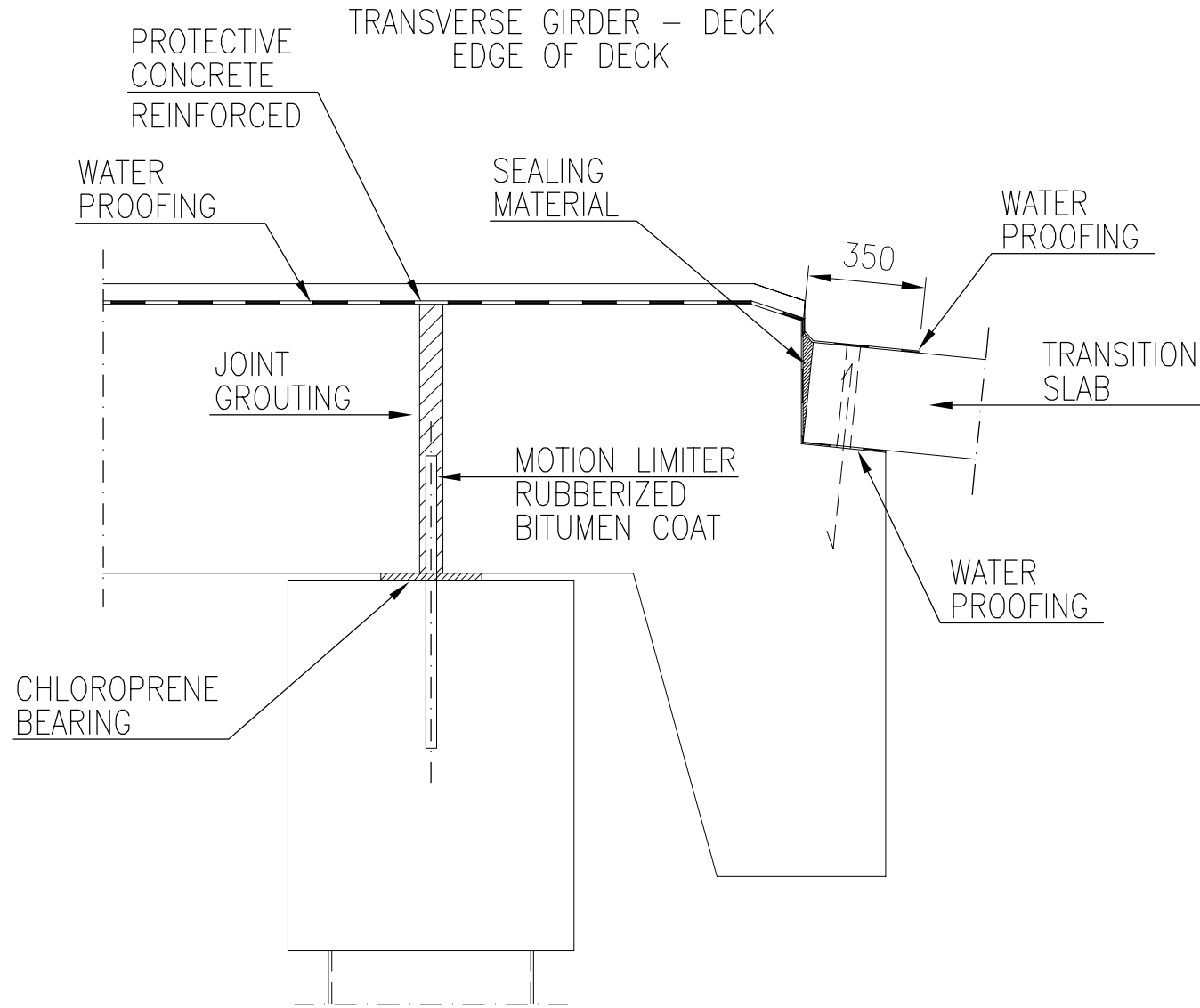
A - A 1:100

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

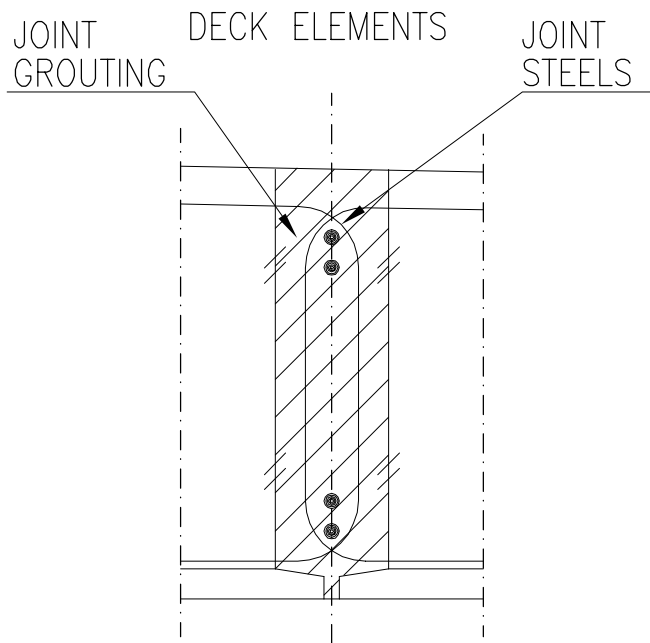


PRESENTED PILED FOUNDATION STRUCTURE IS BASED ON
ASSUMED INFORMATION OF SOIL.
RECOMMENDED PILING METHOD:
IN-SITU PILES
IN-SITU PILES (DRILLED PILES) ENABLE
-TO DRIVE PILES THROUGH CURRENT STONE ABUTMENT
-TO MAINTAIN REQUIRED PART OF GROUND SUPPORT
-TO MINIMIZE EXCAVATION AND FILLING IN THE END OF
THE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

DET 1 1:20



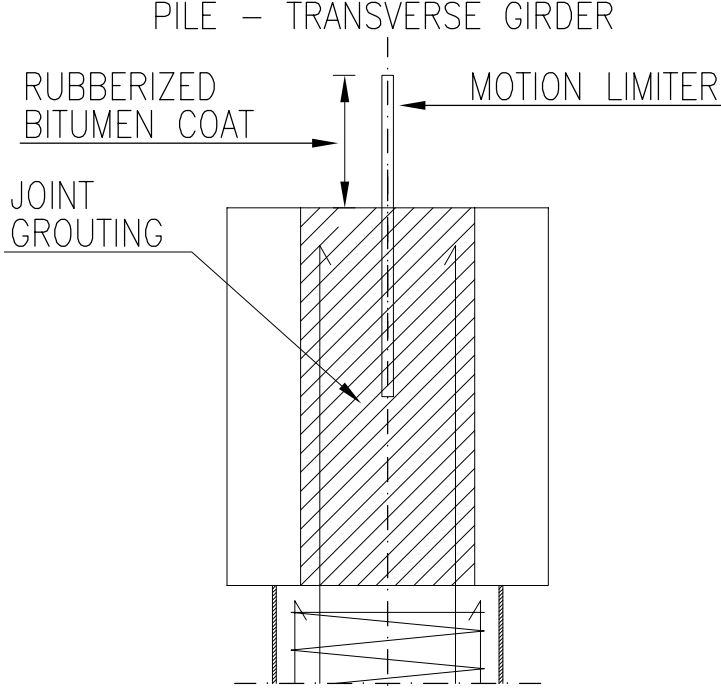
JOINTS 1:10



ELEMENTS ARE JOINED TOGETHER TO
STRENGTHEN THE DECK STRUCTURE

REINFORCING STEELS IN JOINTS WILL
BE DEFINED IN DETAIL DESIGN PHASE

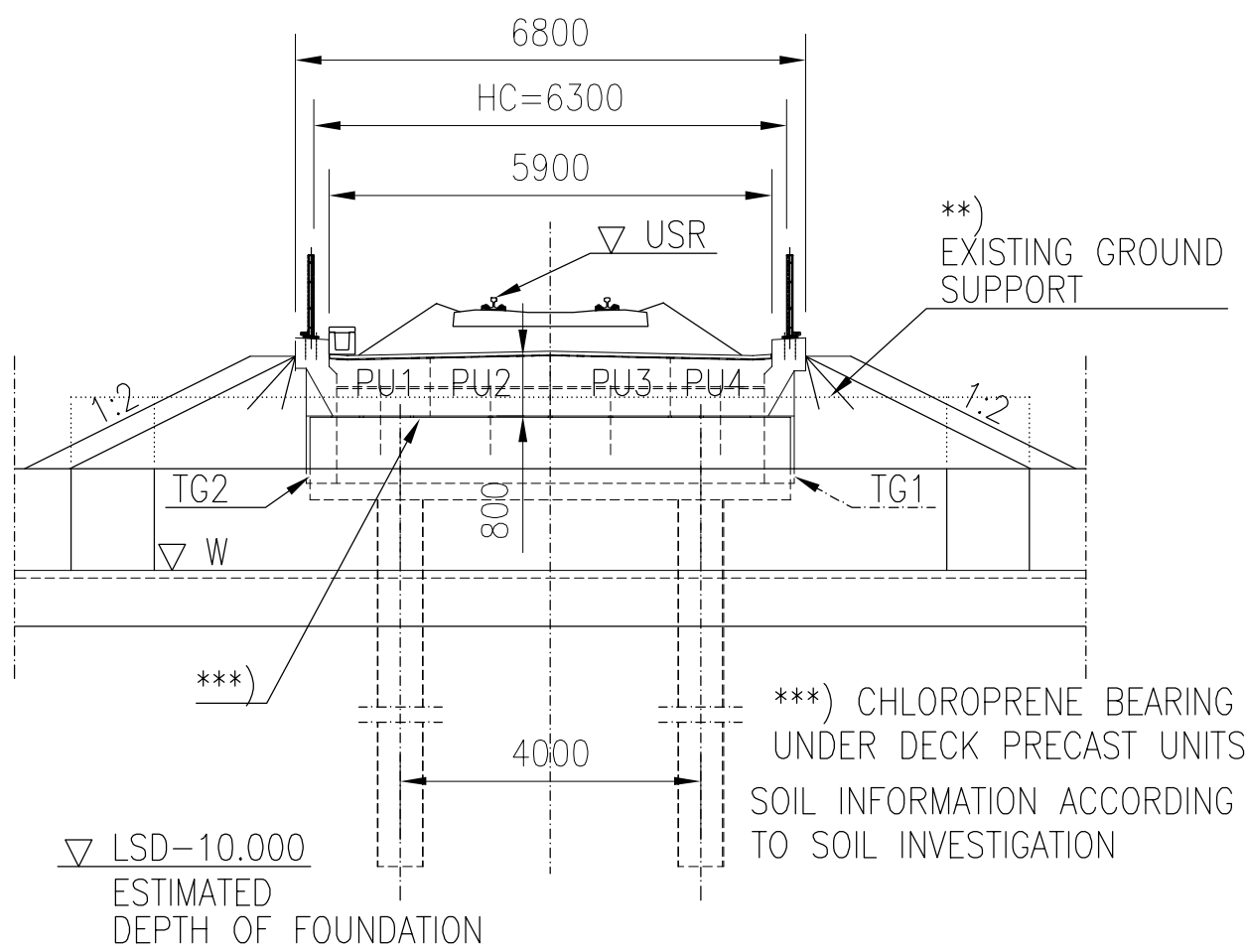
JOINTS 1:20



POSSIBLE REINFORCING WILL BE
DIMENSIONED IN DETAILED DESIGN
PHASE

SUPPORTING FOR TRANSVERSE GIRDER
DURING ASSEMBLY WILL BE DEFINED
IN DETAIL 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 + 9.00 m + 1.35 m
HORIZONTAL CLEAR SPAN	—
HORIZONTAL CLEARANCE	6.30 m

VERSION
23.10.2017

Revision	Explanation	Date	Designer	Date	Acceptor
Customer			Project		
<div></div> <div>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</div>			Railway Project		
			Design phase		
			Pre-engineering, Phase 2		
			Content		
Supplier			Prefabricated bridge 9 m Preliminary general drawing Km+m +-+		
VR TRACK					
Drawer	23.10.2017	Ilkka Tiito	Loading LM71-25		
Designer	23.10.2017	Ilkka Tiito	Coordinate and elevation reference system WGS 84 UTM 21		
Supervisor	23.10.2017	Reima Niklander	Railway line		
Accept.	-	-	Archive	Type	Number
Cost. acc.	-	-	Rev.	Sheet	
			RB - - 1		