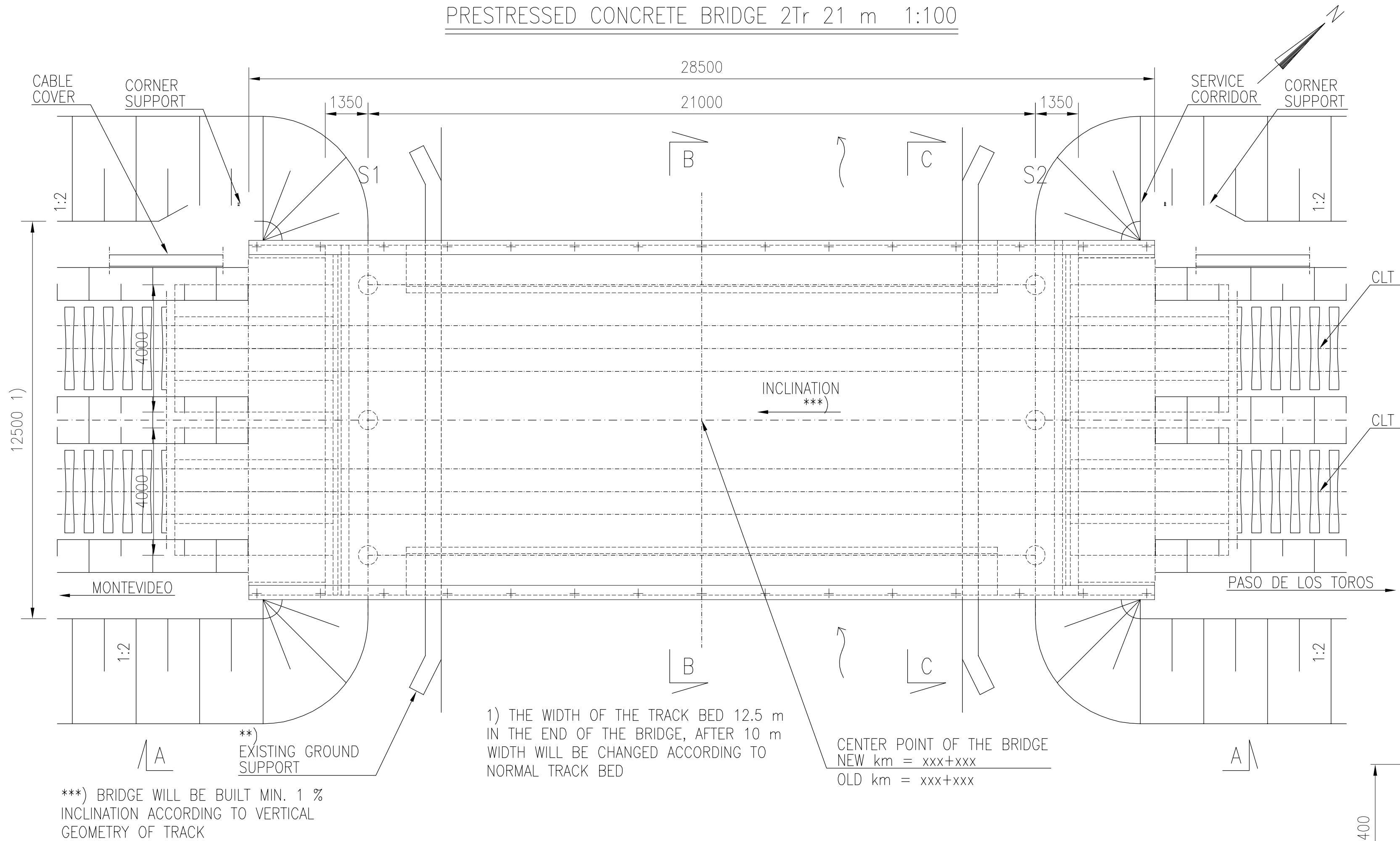


PRESTRESSED CONCRETE BRIDGE 2Tr 21 m 1:100



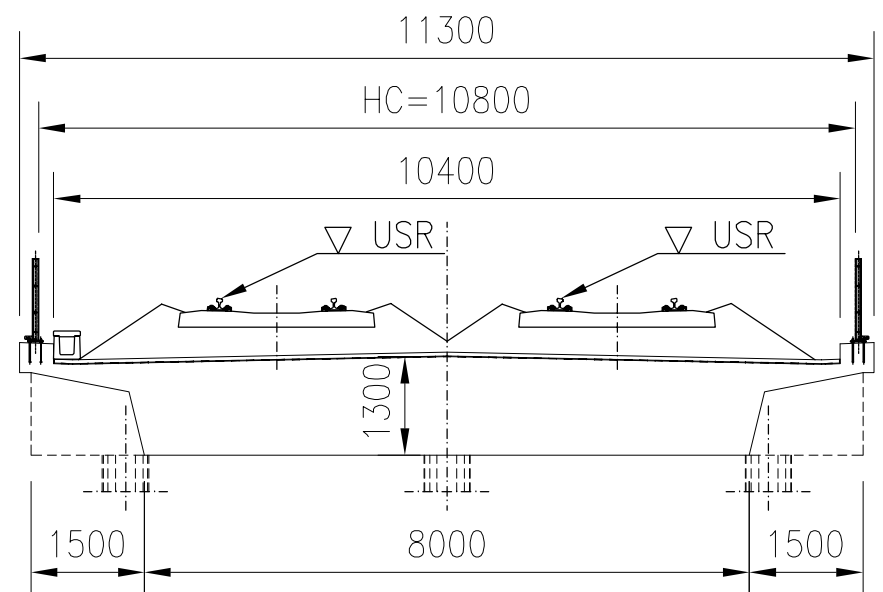
ESTIMATED AMOUNT OF CONCRETE
PILES: 17 m³
SUPERSTRUCTURE: 302 m³

ESTIMATED PRESTRESSING STEEL
SUPERSTRUCTURE: 23 kg/m³ (CONCRETE)

ESTIMATED REINFORCING STEEL
PILES: 1800 kg
SUPERSTRUCTURE: 90 kg/m³ (CONCRETE)
TRANSITION SLABS: 325 kg/m³ (CONCRETE)

PROTECTIVE CONCRETE: 3 kg/m²

B - B 1:100



CONCRETE: C35/45
Cmin=40 mm

PRESTRESSING STEEL: St 1570 / 1770
REINFORCING STEEL: B500B
REINFORCING MESH: B500K

PILES / FOUNDATION: DRILLED PILES D610x14,2 S355J2H

TRANSITION SLABS: PREFABRICATED TRANSITION SLABS
2 x 2 x 4 x 1.0 m x 5,0 m
OR CAST IN SITU 2 x 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

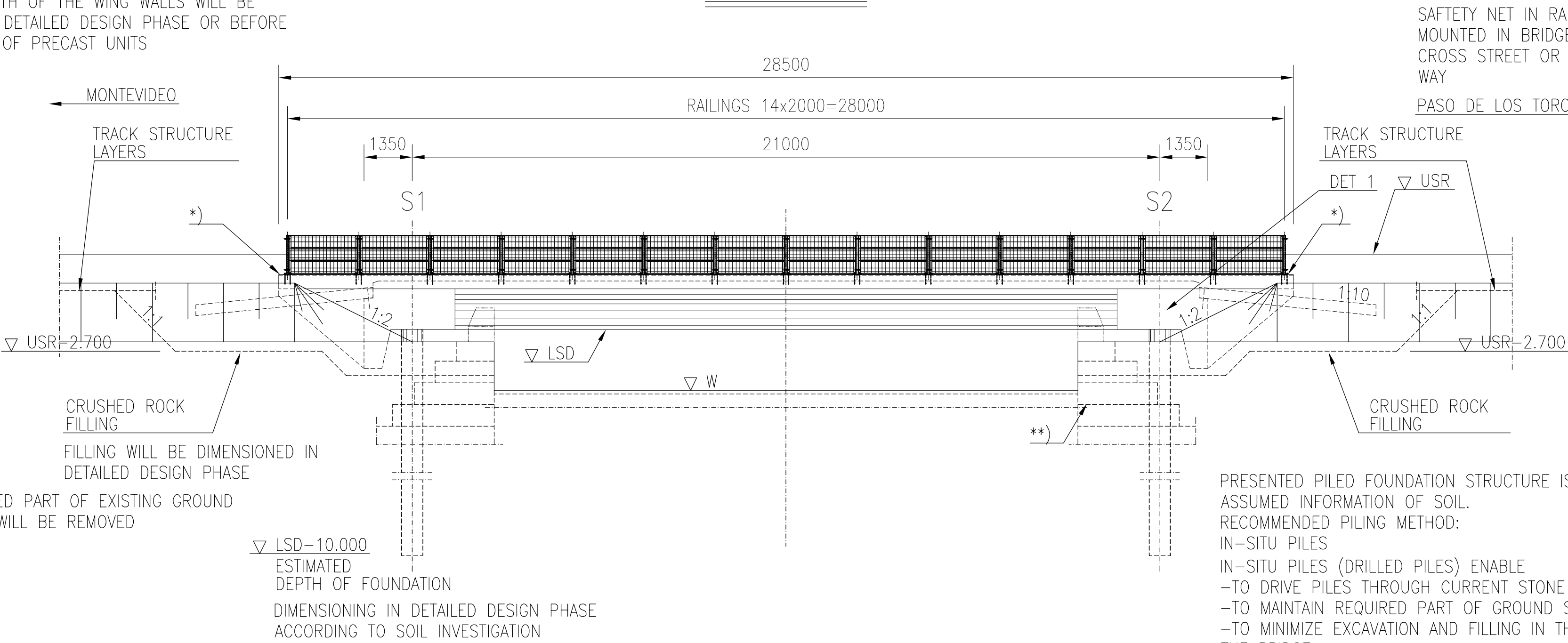
SURFACE STRUCTURE: WATER PROOFING MATERIAL 10 mm
PROTECTIVE CONCRETE 50 mm
BALLAST 550 mm

FILLING: REQUIREMENTS ACCORDING TO TRACK INTERMEDIATE LAYER

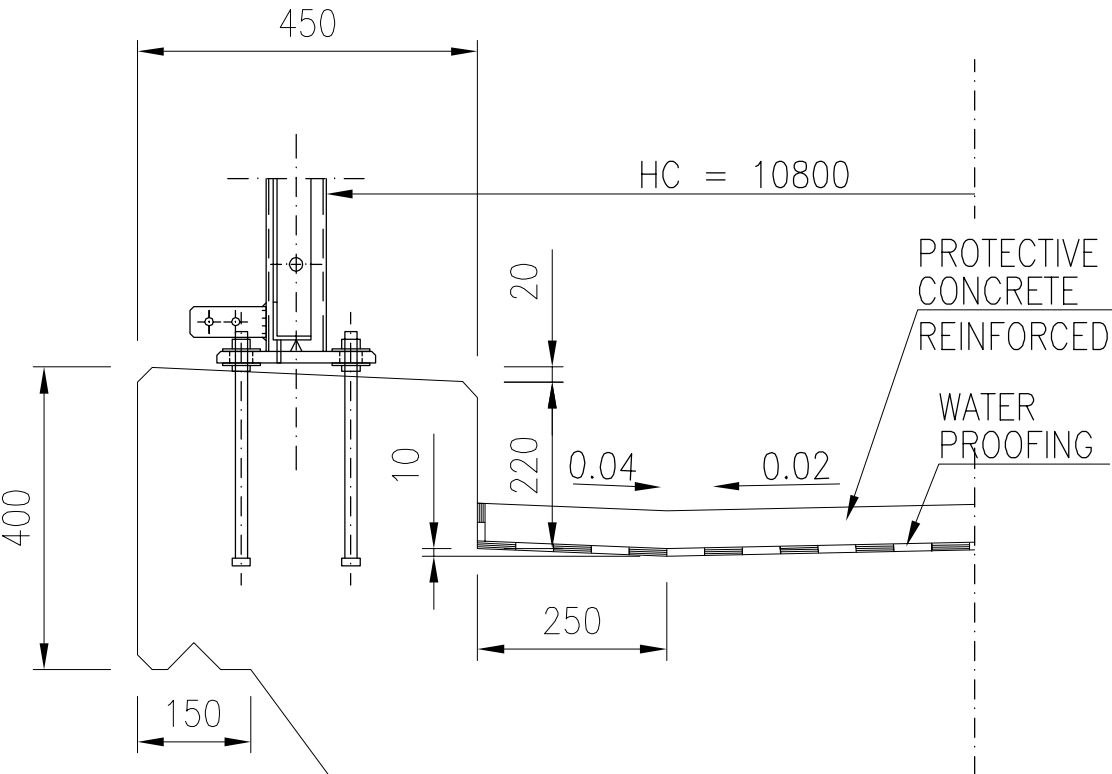
CLT = CENTER LINE of the TRACK
HC = HORIZONTAL CLEARANCE
LSD = LOWER SURFACE of the DECK
USR = UPPER SURFACE of the RAIL

MAP

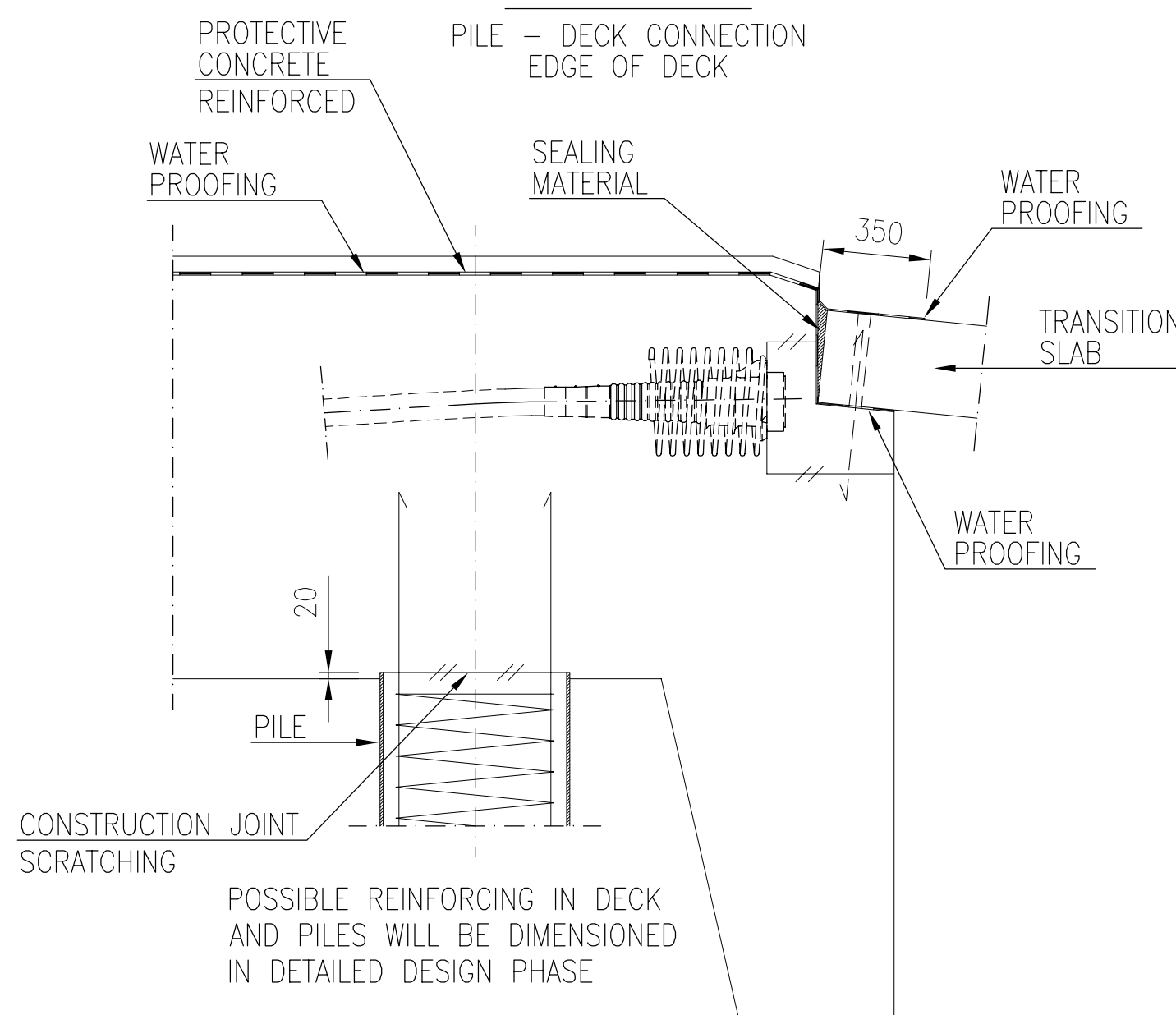
A - A 1:100



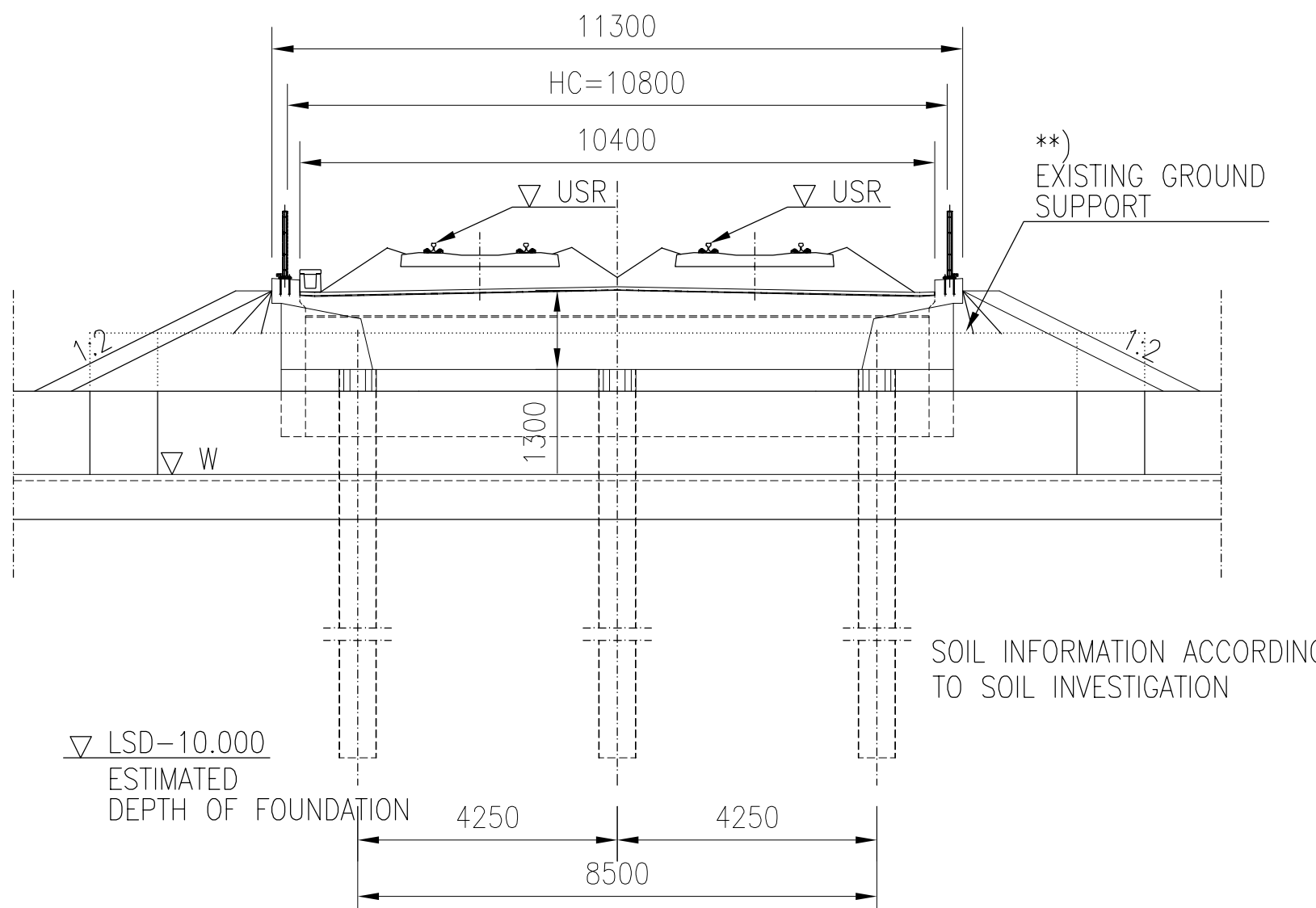
EDGE BEAM 1:10



DET 1 1:20



C - C 1:100



BRIDGETYPE	PRESTRESSED CONCRETE BRIDGE
	CANTILEVER PLATE
SPANS	1.35 m + 21.00 m + 1.35 m
HORIZONTAL CLEAR SPAN	—
HORIZONTAL CLEARANCE	10.80 m

VERSION
23.10.2017

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