

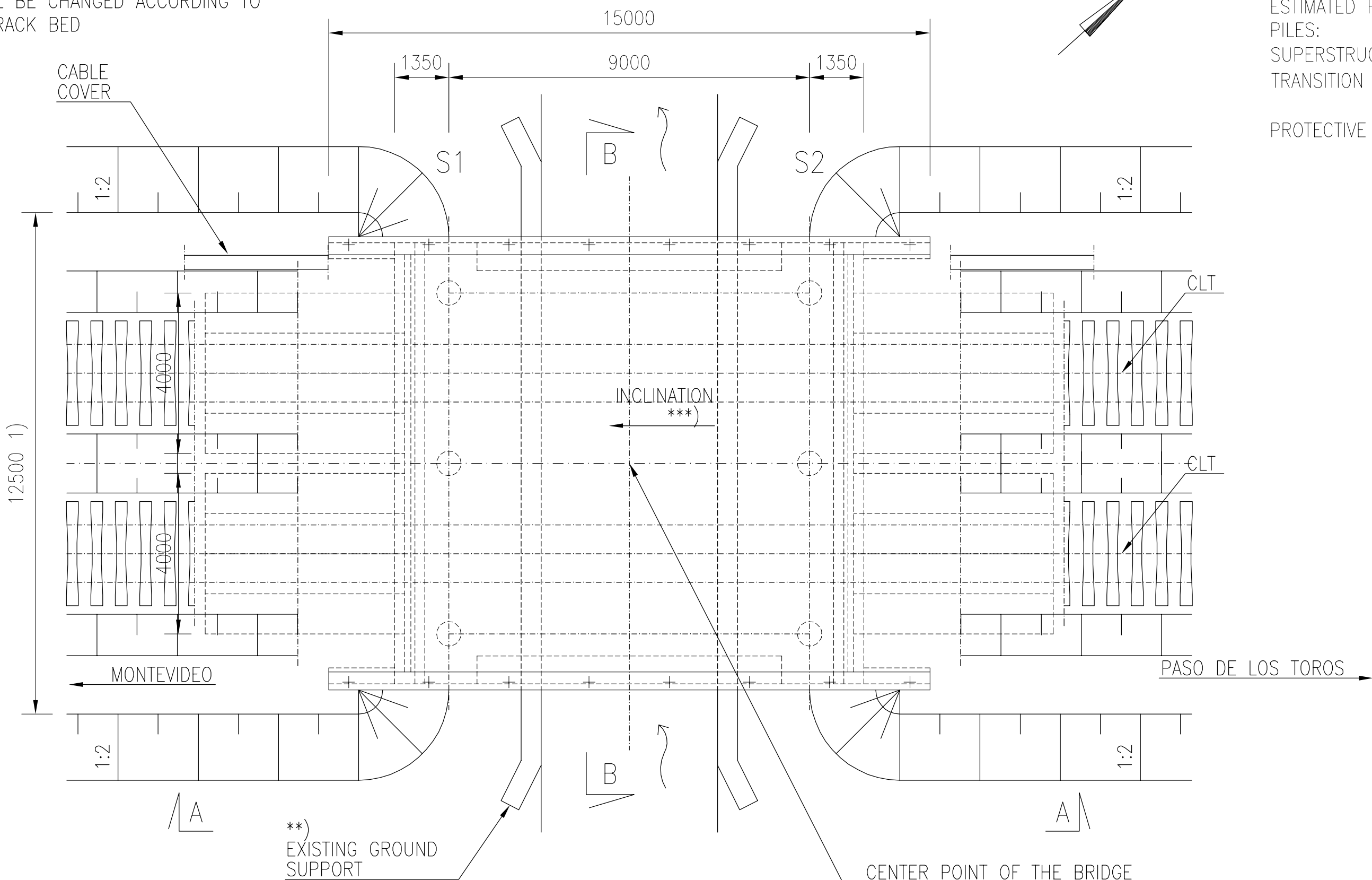
1) THE WIDTH OF THE TRACK BED 8.0 m  
IN THE END OF THE BRIDGE, AFTER 10 m  
WIDTH WILL BE CHANGED ACCORDING TO  
NORMAL TRACK BED

CAST-IN-SITU BRIDGE 2Tr 9 m 1:100

ESTIMATED AMOUNT OF CONCRETE  
PILES: 17 m<sup>3</sup>  
SUPERSTRUCTURE: 112 m<sup>3</sup>

ESTIMATED REINFORCING STEEL  
PILES: 1800 kg  
SUPERSTRUCTURE: 180 kg/m<sup>3</sup> (CONCRETE)  
TRANSITION SLABS: 325 kg/m<sup>3</sup> (CONCRETE)

PROTECTIVE CONCRETE: 3 kg/m<sup>2</sup>



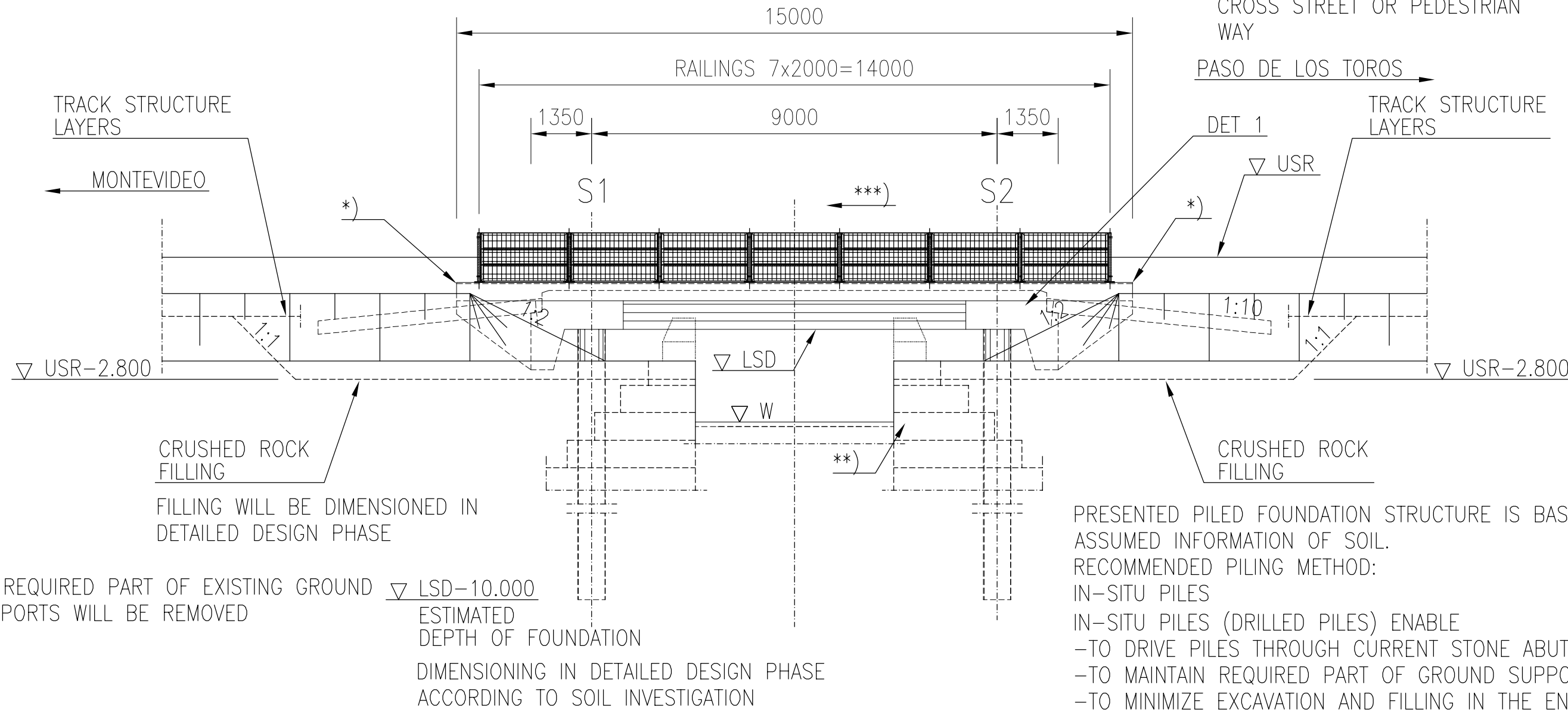
\*\*\*) BRIDGE WILL BE BUILT MIN. 1 ‰  
INCLINATION ACCORDING TO VERTICAL  
GEOMETRY OF TRACK

CENTER POINT OF THE BRIDGE  
NEW km = xxx+xxx  
OLD km = xxx+xxx

A - A 1:100

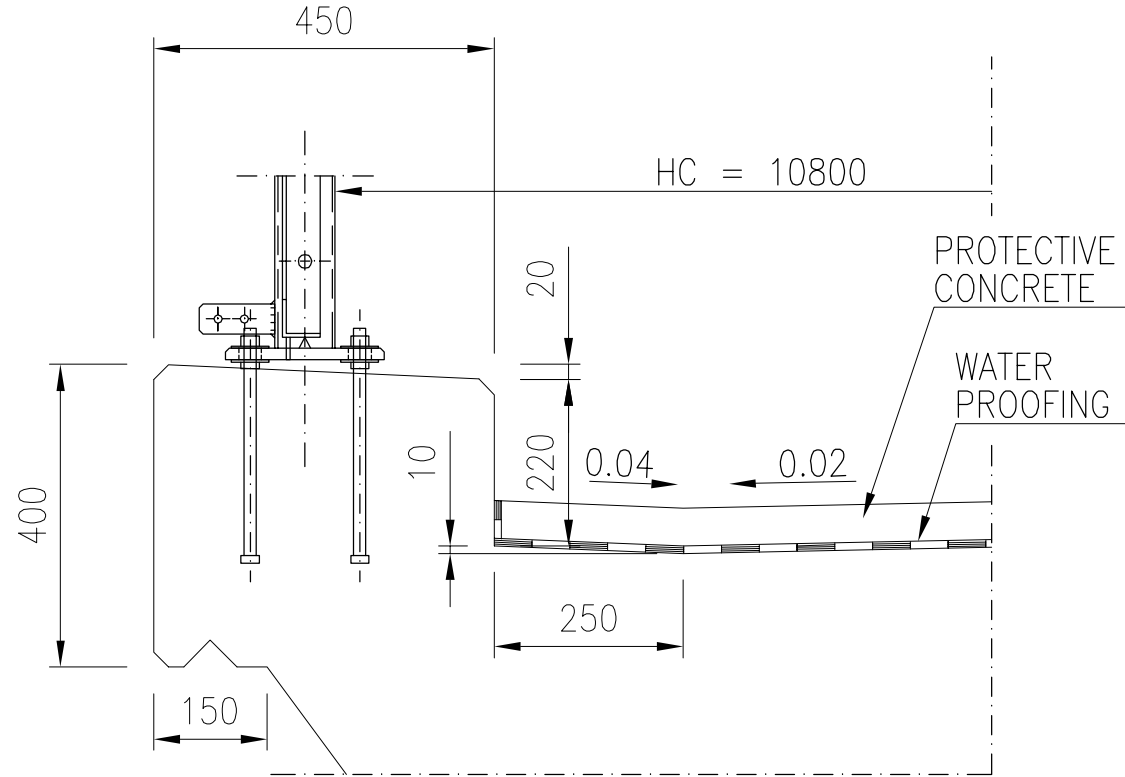
\*) THE LENGTH OF THE WING WALLS WILL BE  
VERIFIED IN DETAILED DESIGN PHASE OR BEFORE  
FABRICATION OF PRECAST UNITS

SAFETY NET IN RAILS WILL BE  
MOUNTED IN BRIDGES WHICH  
CROSS STREET OR PEDESTRIAN  
WAY



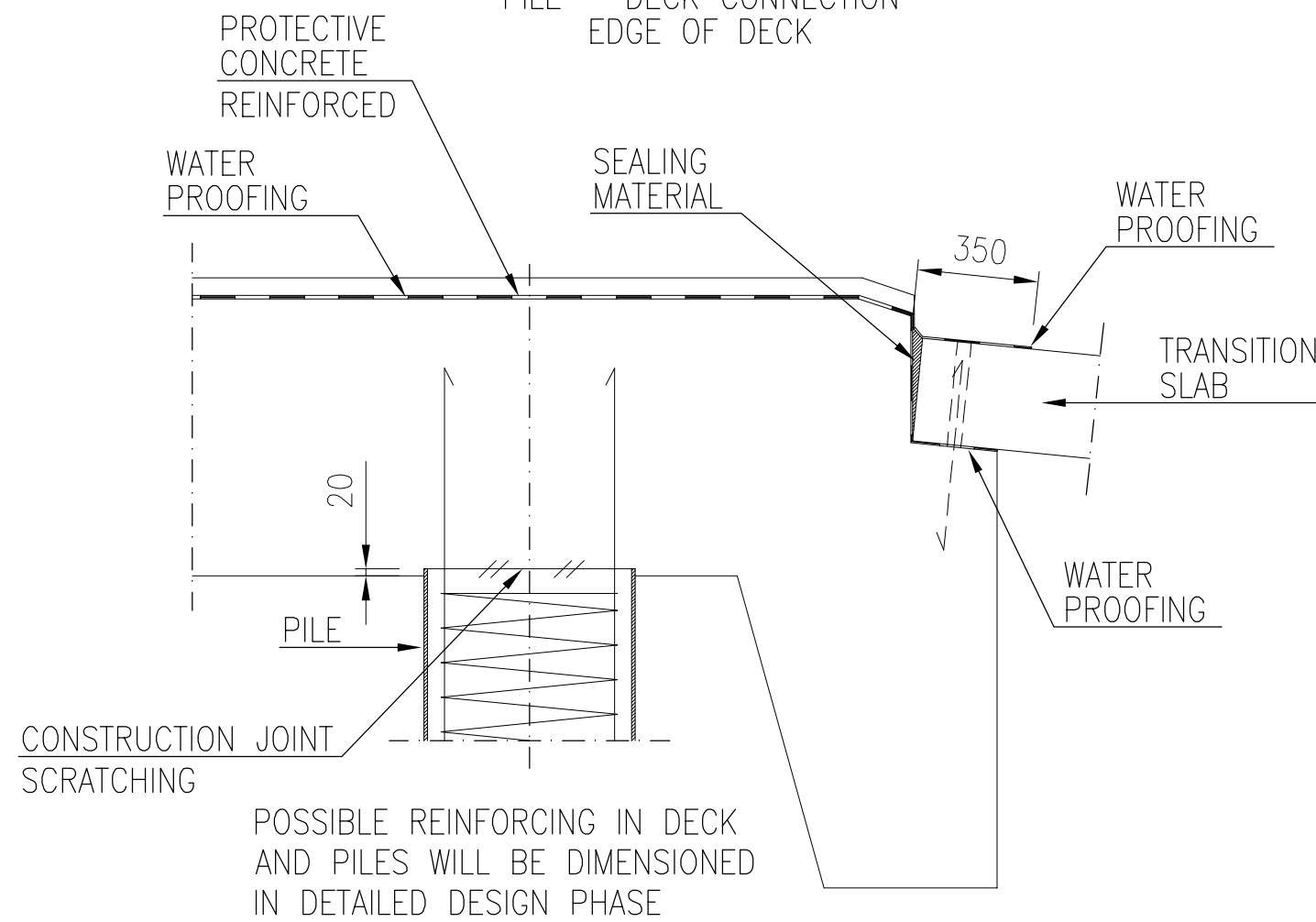
\*\*) REQUIRED PART OF EXISTING GROUND  
SUPPORTS WILL BE REMOVED

EDGE BEAM 1:10

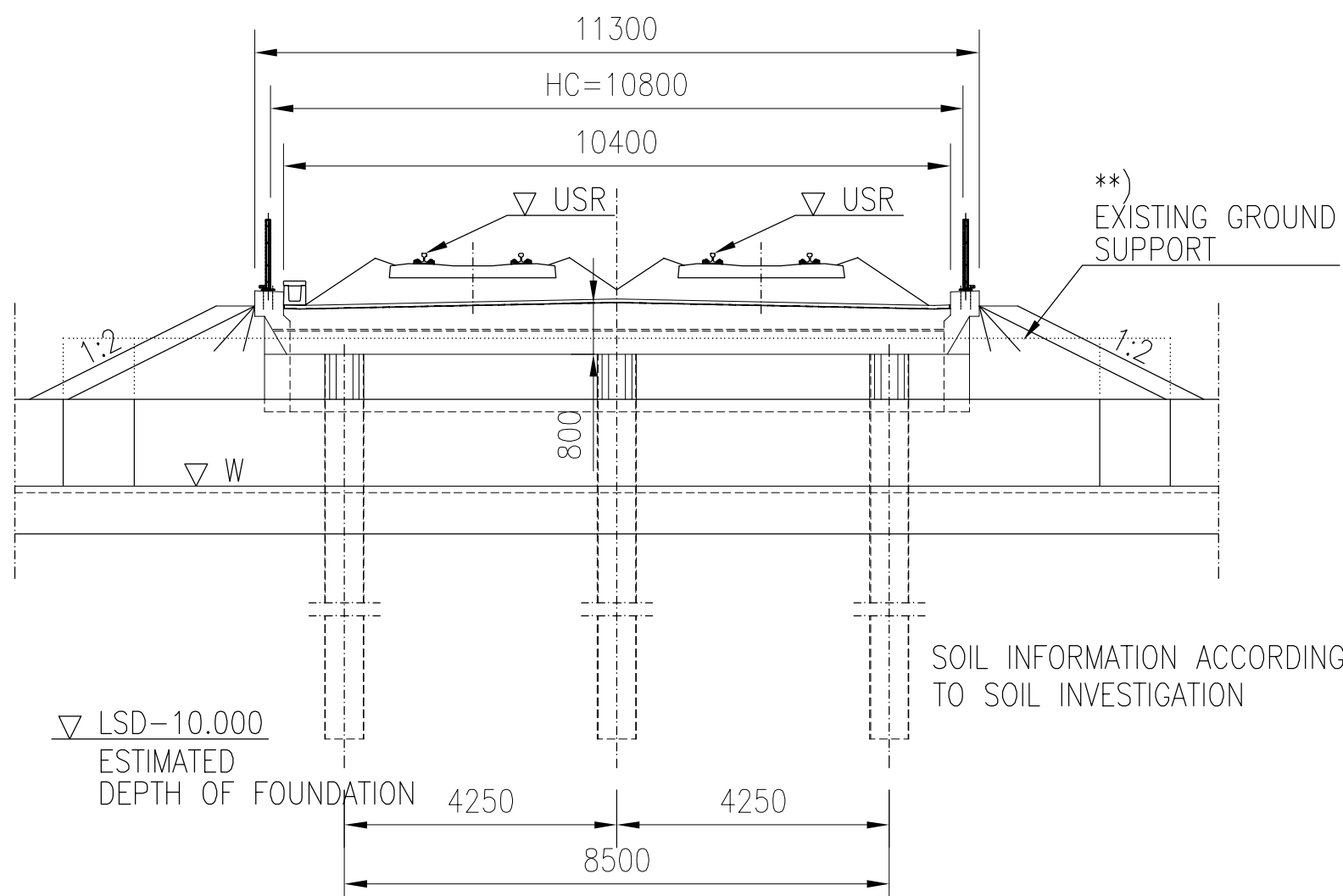


DET 1 1:20

PILE - DECK CONNECTION  
EDGE OF DECK



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 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

BRIDGETYPE	REINFORCED CONCRETE BRIDGE
	CANTILEVER PLATE
SPANS	1.35 m + 9.00 m + 1.35 m
HORIZONTAL CLEAR SPAN	—
HORIZONTAL CLEARANCE	10.80 m

VERSION  
23.10.2017

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	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	Cast-in-situ bridge 9 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	