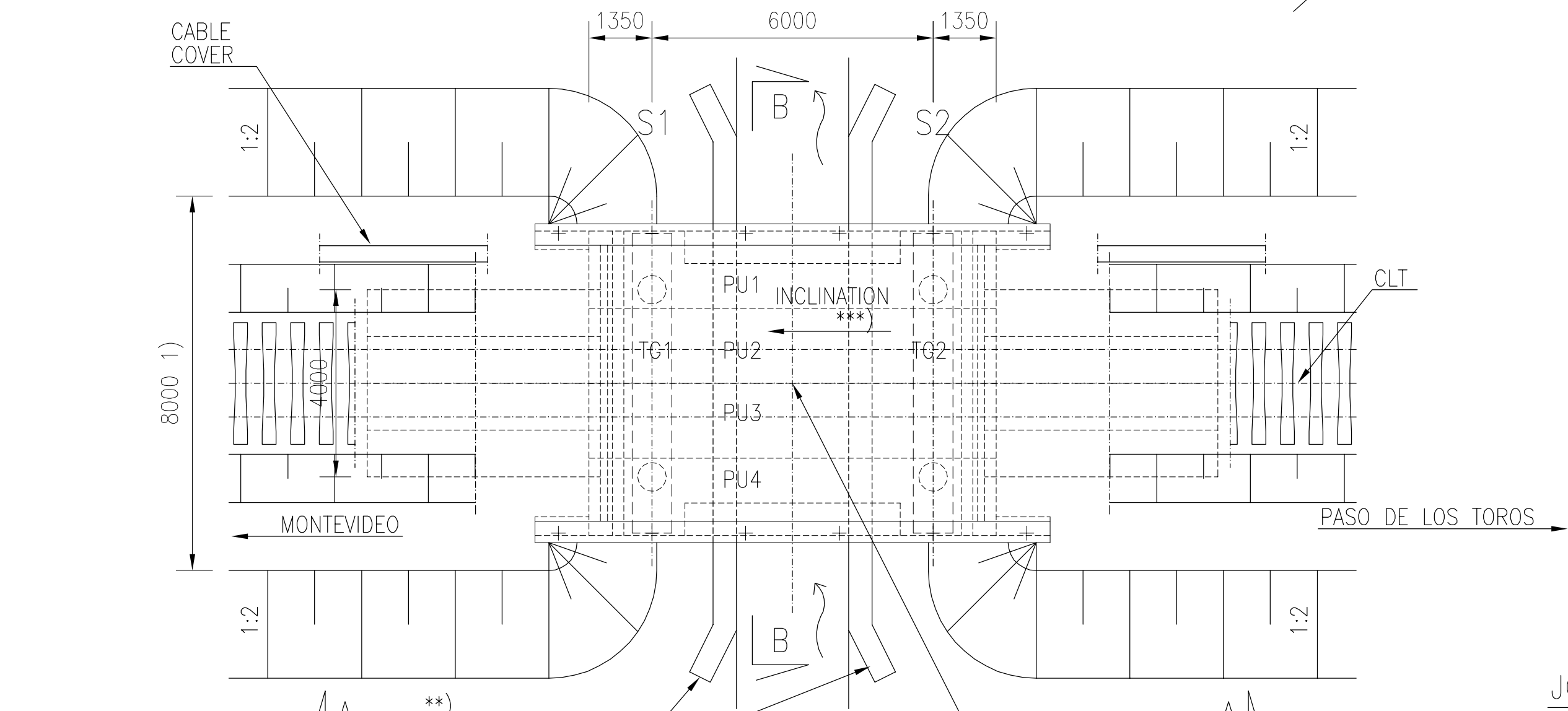


1) THE WIDTH OF THE TRACK BED 8.0 m
IN THE END OF THE BRIDGE, AFTER 10
m WIDTH WILL BE CHANGED ACCORDING
TO NORMAL TRACK BED

PREFABRICATED BRIDGE 6 m 1:100



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

PU = PRECAST UNIT
TG = TRANSVERSE GIRDER

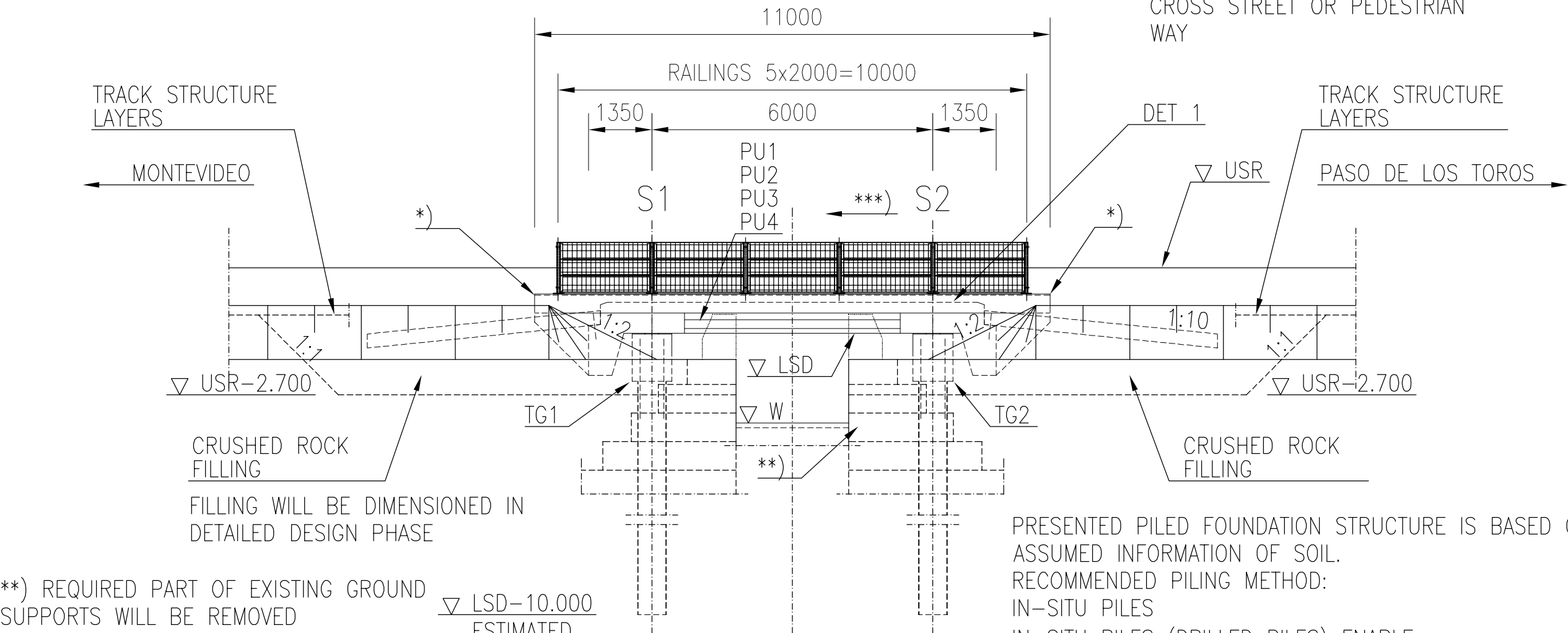
ESTIMATED AMOUNT OF CONCRETE
PILES: 11 m3
TRANSVERSE GIRDER: 11 m3
SUPERSTRUCTURE: 43 m3

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

A - A 1:100

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

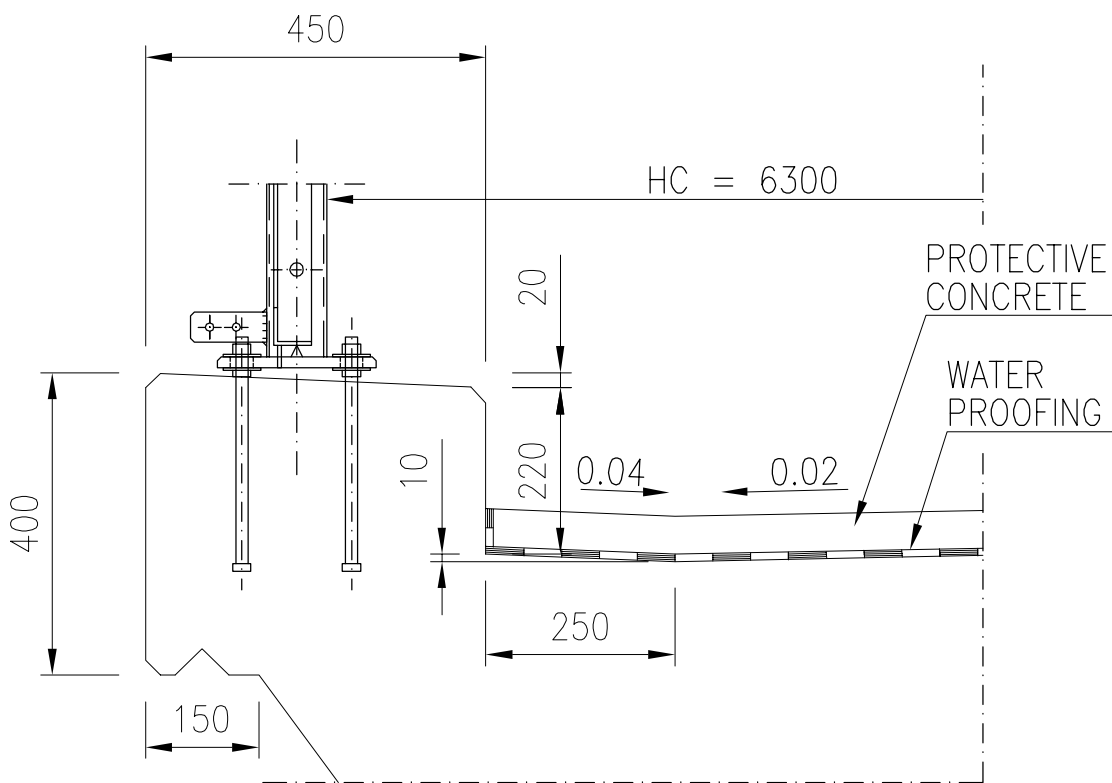


**) REQUIRED PART OF EXISTING GROUND
SUPPORTS WILL BE REMOVED

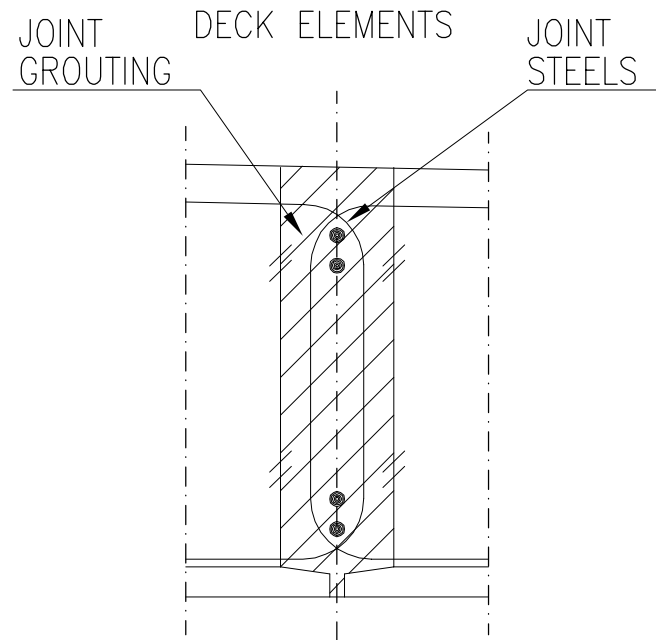
▽ LSD=10.000
ESTIMATED
DEPTH OF FOUNDATION
DIMENSIONING IN DETAILED DESIGN PHASE
ACCORDING TO SOIL INVESTIGATION

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

EDGE BEAM 1:10



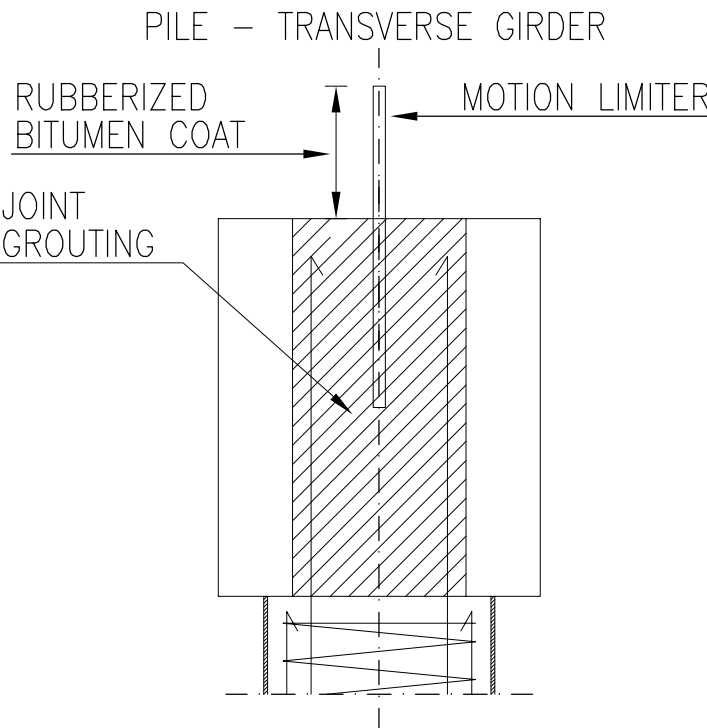
JOINTS 1:10



ELEMENTS ARE JOINED TOGETHER TO
STRENGTHEN THE DECK STRUCTURE

REINFORCING STEELS IN JOINTS WILL
BE DEFINED IN DETAIL DESIGN PHASE

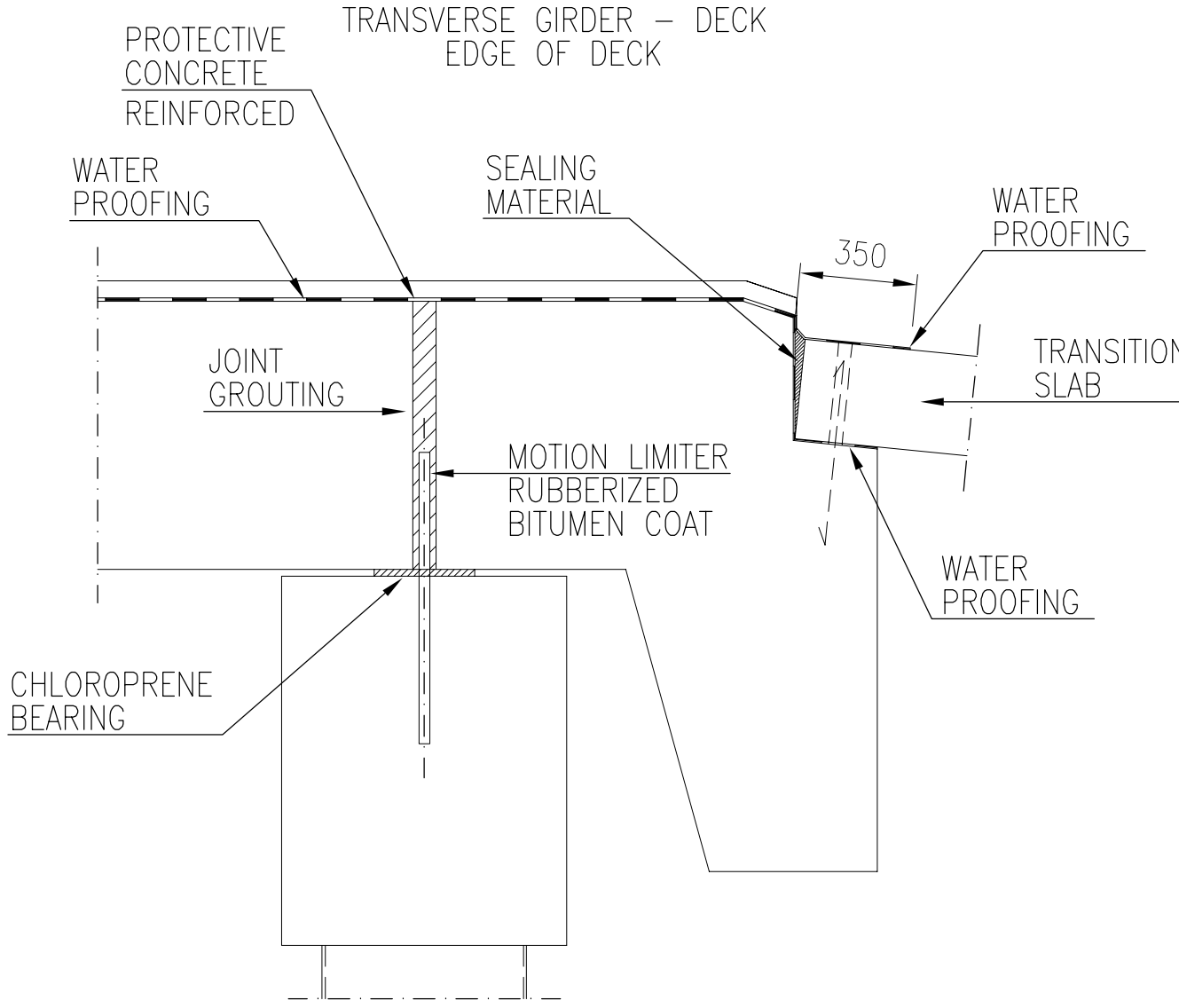
JOINTS 1:20



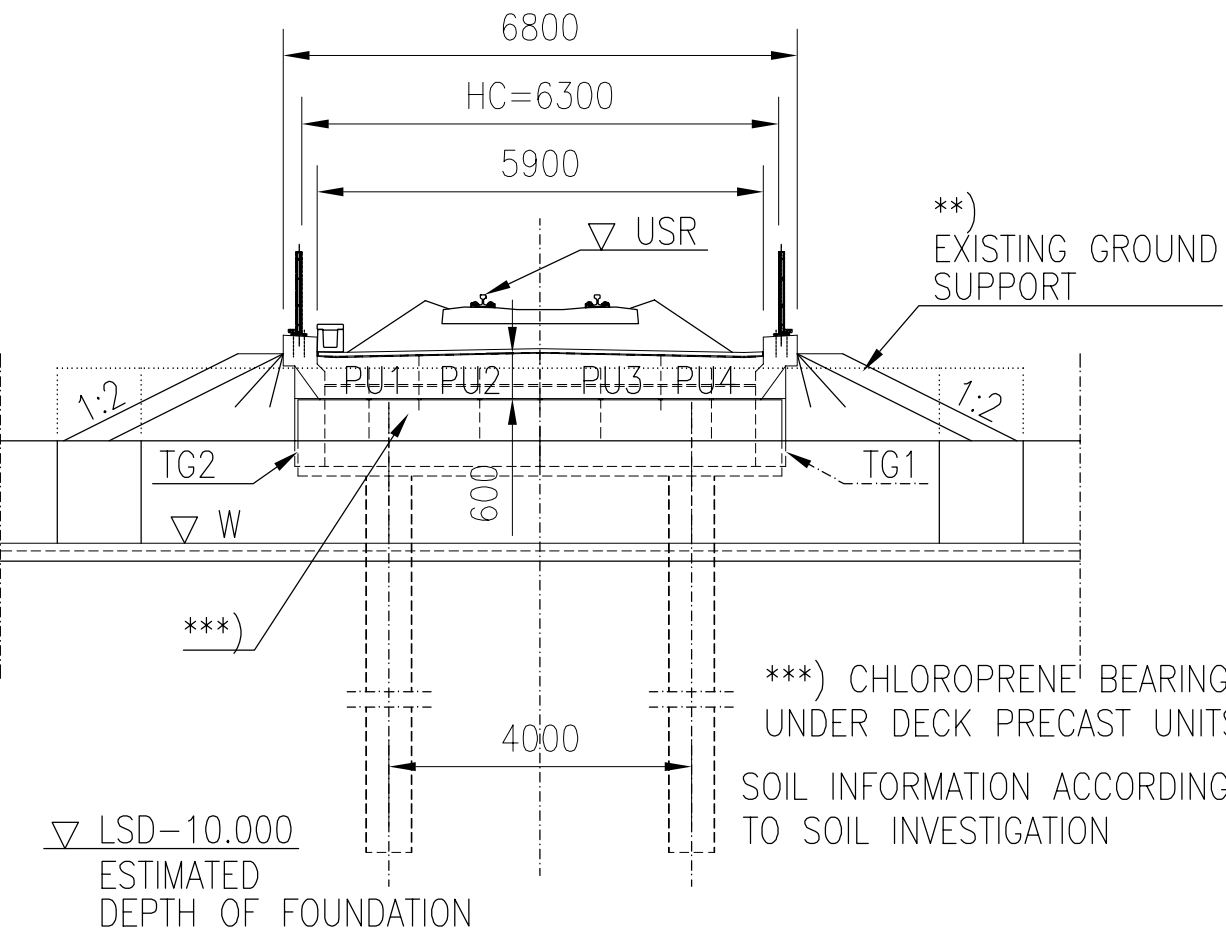
POSSIBLE REINFORCING WILL BE
DIMENSIONED IN DETAILED DESIGN
PHASE

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

DET 1 1:20



B - B 1:100



**) CHLOROPRENE BEARING
UNDER DECK PRECAST UNITS
SOIL INFORMATION ACCORDING
TO SOIL INVESTIGATION

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 + 6.00 m + 1.35 m
HORIZONTAL CLEAR SPAN	—
HORIZONTAL CLEARANCE	6.30 m

VERSION
23.10.2017

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	MTOP MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS				
Project	Railway Project				
Design phase	Pre-engineering, Phase 2				
Content	Prefabricated bridge 6 m Preliminary general drawing Km+m +-+				
Supplier	VR TRACK				
Drawer	23.10.2017 Ilkka Tiiri				
Designer	23.10.2017 Ilkka Tiiri				
Supervisor	23.10.2017 Reima Niklander				
Accept.	-				
Cust. acc.	-				
Project	LMT71-25				
Coordinate and elevation reference system	WGS 84 UTM 21				
Railway line					
Archive	Type	Number	Rev	Sheet	
RB	-	-	-	1	