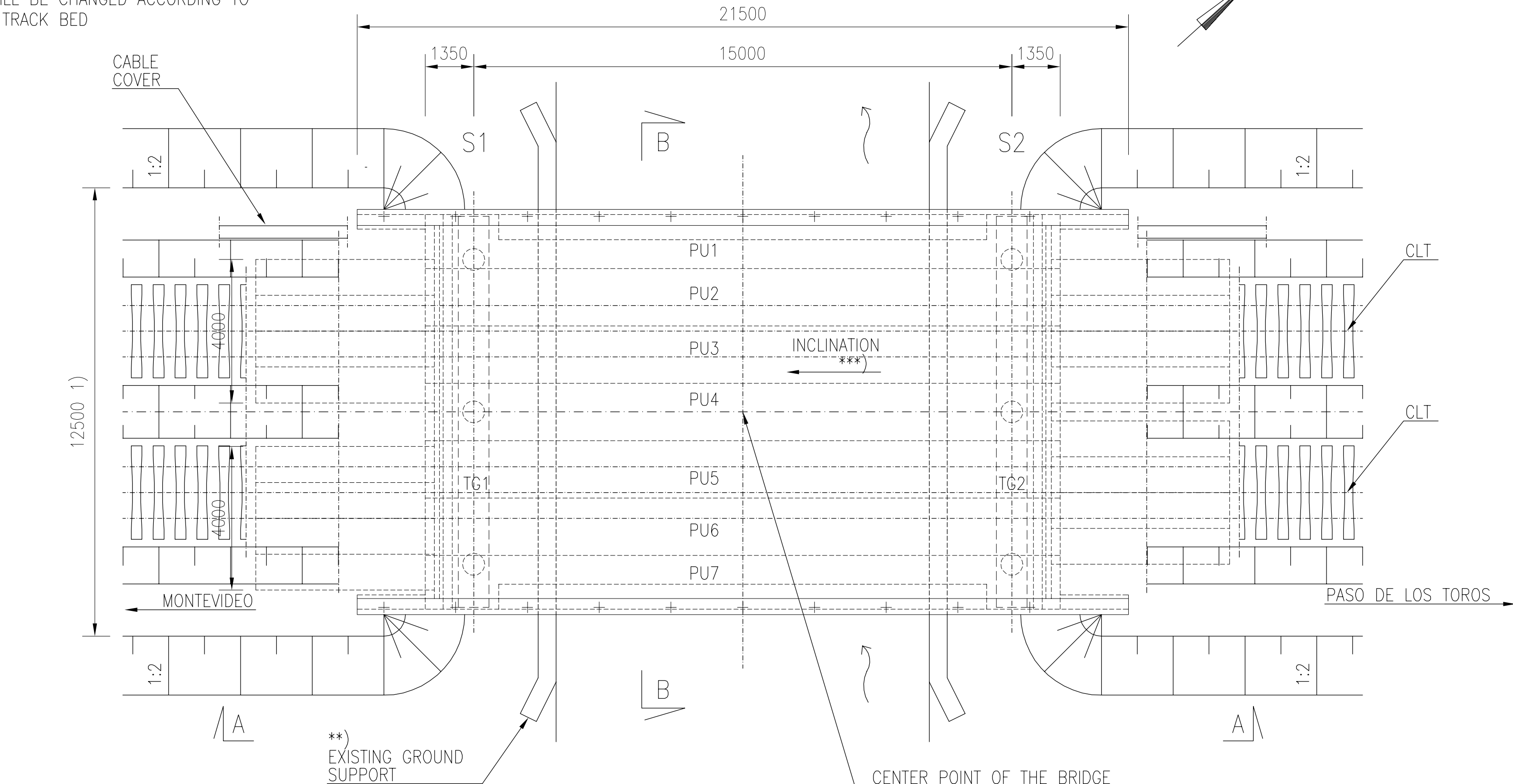


1) THE WIDTH OF THE TRACK BED 12.5 m
IN THE END OF THE BRIDGE, AFTER 10 m
WIDTH WILL BE CHANGED ACCORDING TO
NORMAL TRACK BED

PREFABRICATED BRIDGE 2Tr 15 m 1:100

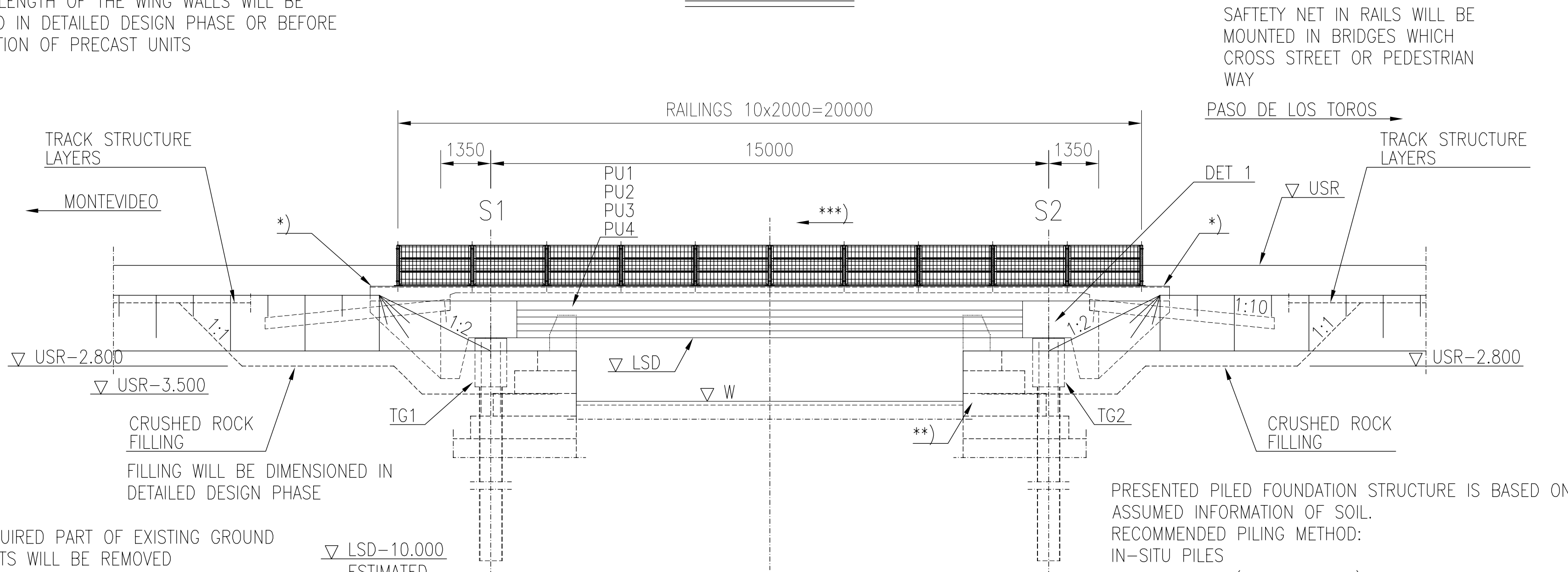


***) BRIDGE WILL BE BUILT MIN. 1 %
INCLINATION ACCORDING TO VERTICAL
GEOMETRY OF TRACK

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

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

A - A 1:100

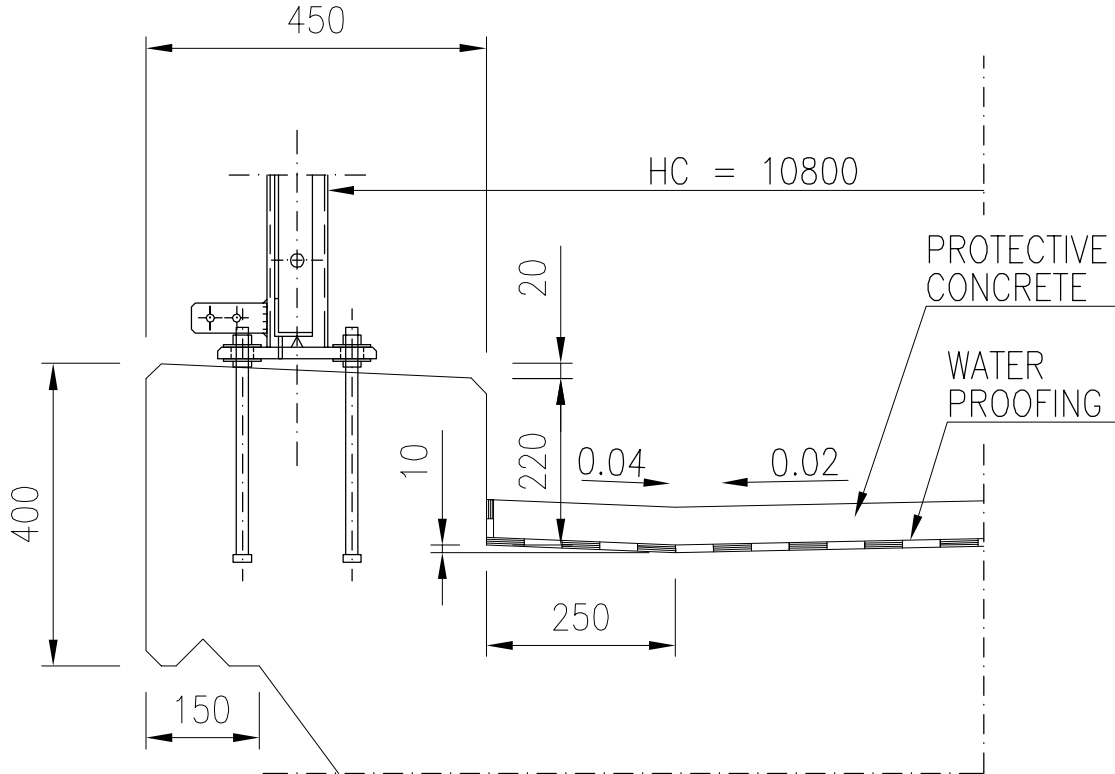


**) REQUIRED PART OF EXISTING GROUND
SUPPORTS WILL BE REMOVED

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



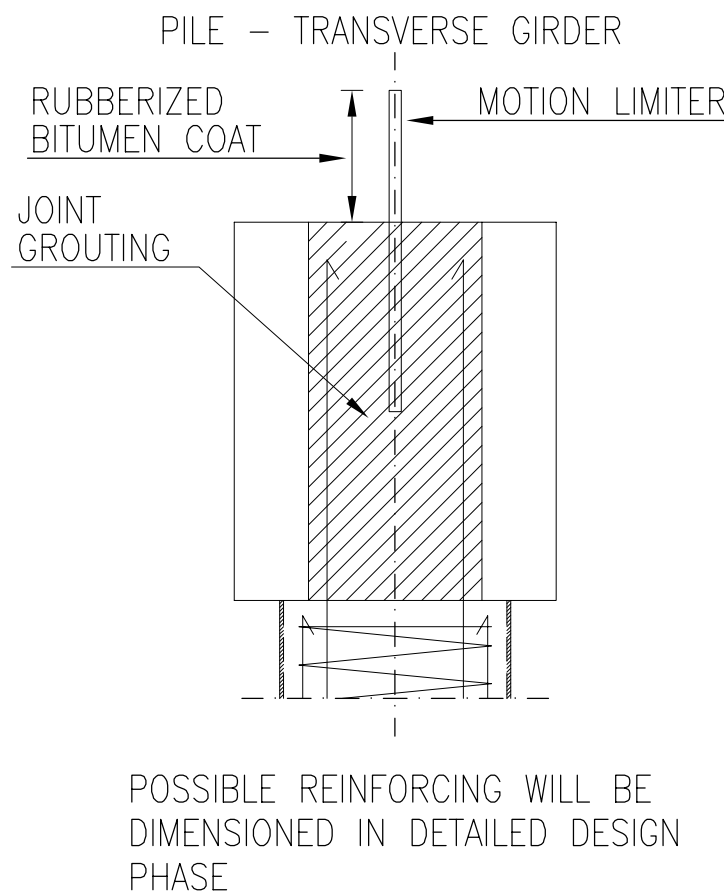
PU = PRECAST UNIT
TG = TRANSVERSE GIRDER

ESTIMATED AMOUNT OF CONCRETE
PILES: 17 m3
TRANSVERSE GIRDER: 24 m3
SUPERSTRUCTURE: 228 m3

ESTIMATED REINFORCING STEEL
PILES: 1800 kg
TRANSVERSE GIRDER: 200 kg/m3 (CONCRETE)
SUPERSTRUCTURE: 140 kg/m3 (CONCRETE)
TRANSITION SLABS: 325 kg/m3 (CONCRETE)

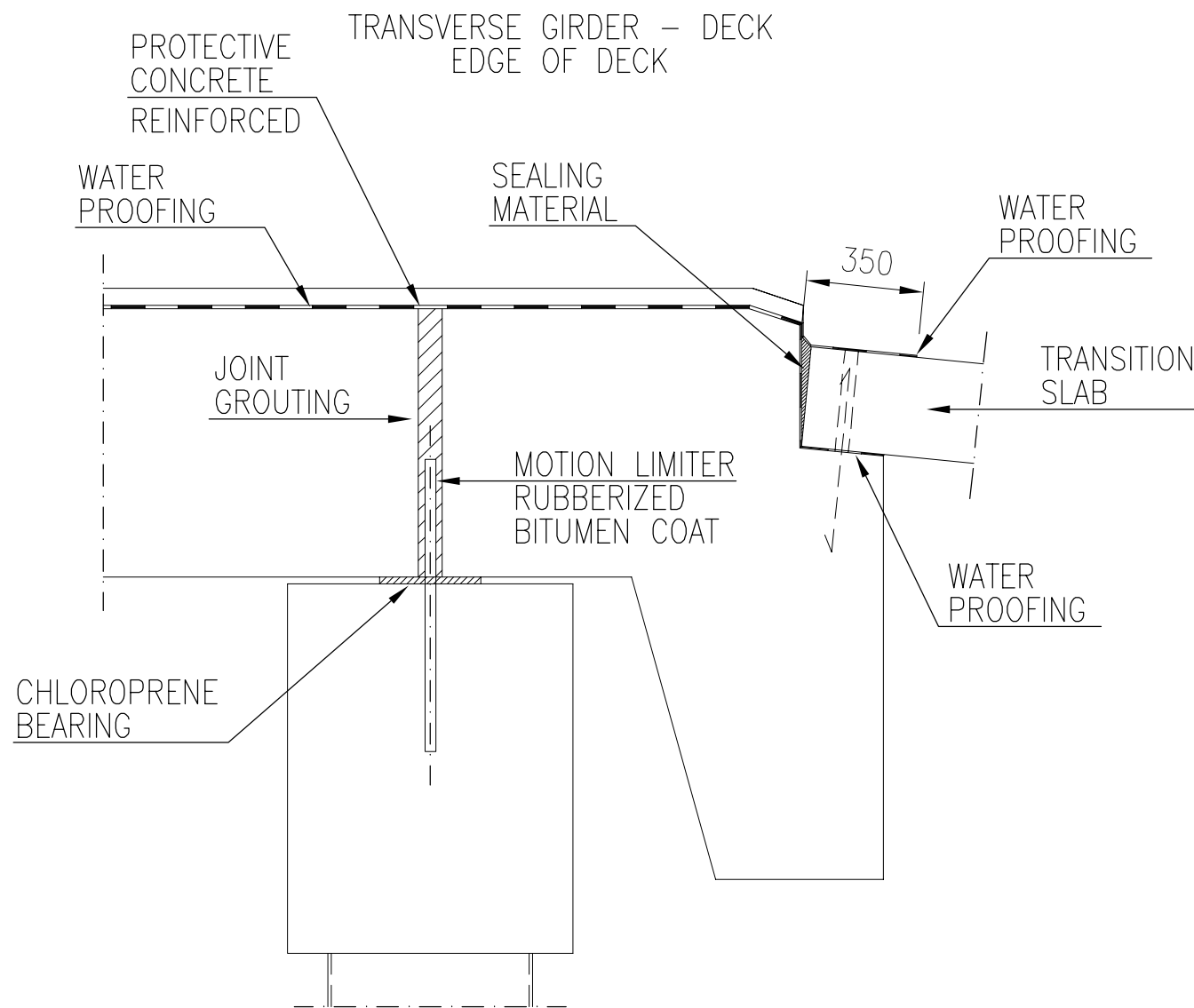
PROTECTIVE CONCRETE: 3 kg/m2

JOINTS 1:20

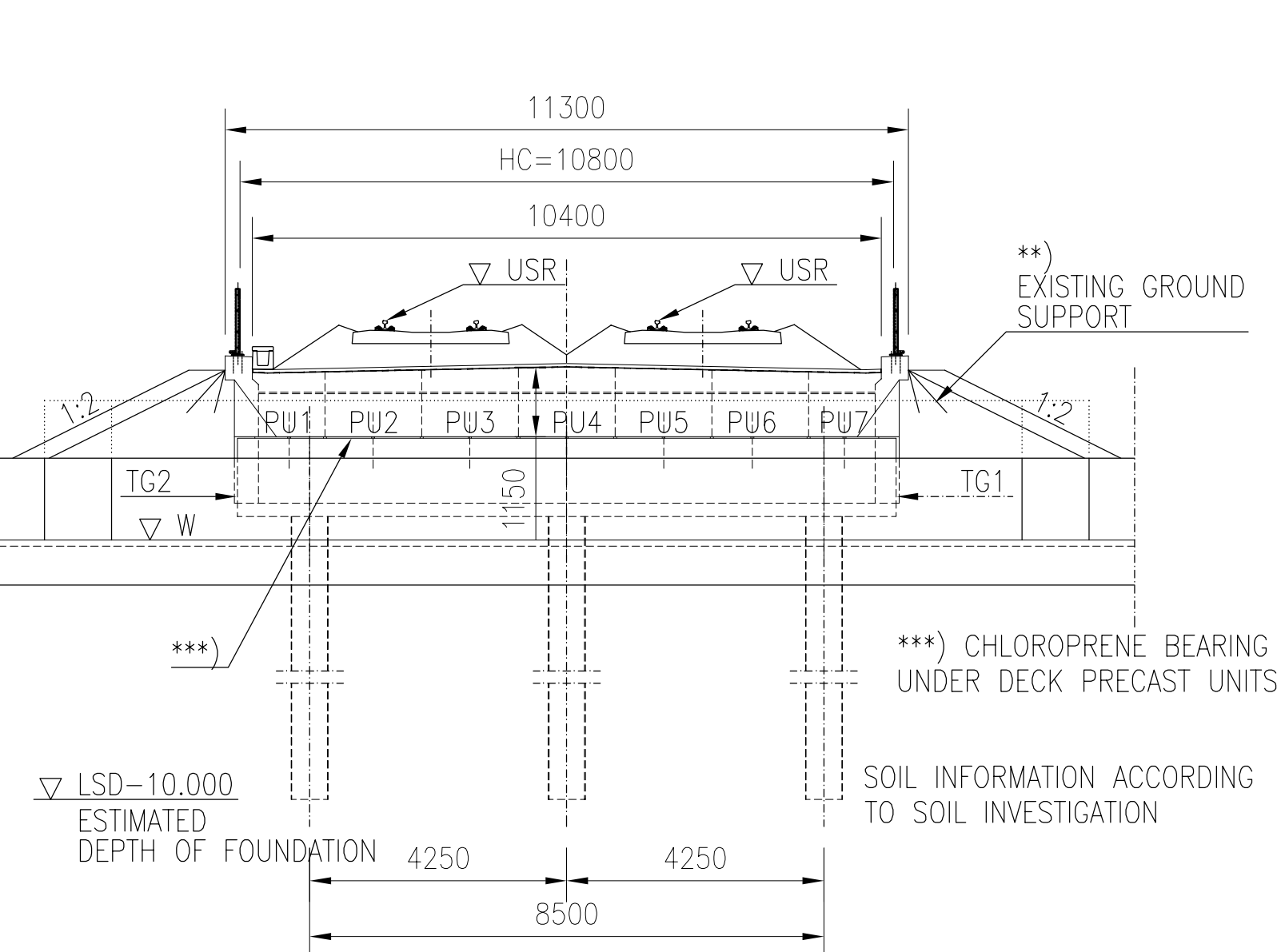


POSSIBLE REINFORCING WILL BE
DIMENSIONED IN DETAILED DESIGN
PHASE

DET 1 1:20



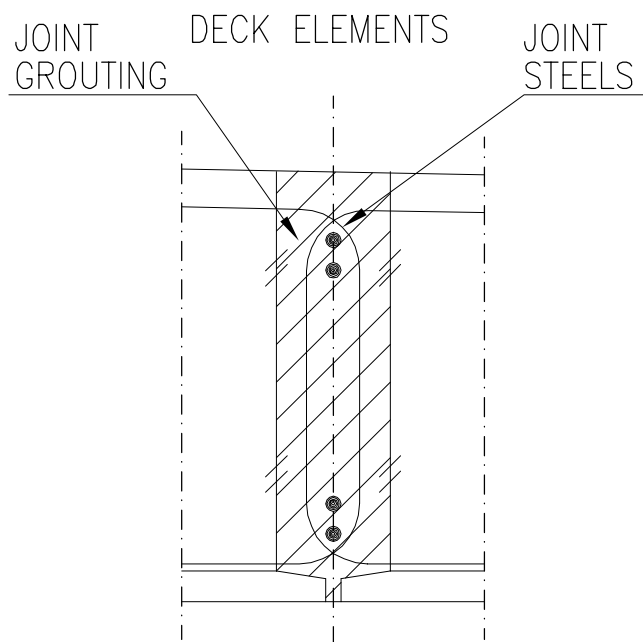
B - B 1:100



**) CHLOROPRENE BEARING
UNDER DECK PRECAST UNITS

SOIL INFORMATION ACCORDING
TO SOIL INVESTIGATION

JOINTS 1:10



ELEMENTS ARE JOINED TOGETHER TO
STRENGTHEN THE DECK STRUCTURE

REINFORCING STEELS IN JOINTS WILL
BE DEFINED IN DETAIL DESIGN PHASE

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	PREFABRICATED BRIDGE		
SPANS	1.35 m + 15.00 m + 1.35 m		
HORIZONTAL CLEAR SPAN	—	VERTICAL CLEARANCE	—
HORIZONTAL CLEARANCE	10.80 m		

VERSION
23.10.2017

Revision	Explanation	Date	Designer	Date	Acceptor
Customer					
Project					
Railway Project					
Design phase					
Pre-engineering, Phase 2					
Content					
Prefabricated bridge 15 m					
Double track					
Preliminary general drawing					
Km+m +-+					
Supplier					
VR TRACK					
Loading					
LM71-25					
Coordinate and elevation reference system					
WGS 84 UTM 21					
Railway line					
Supervisor					
Reima Nikander					
Accept.					
Archive					
Type					
Number					
Rev.					
Sheet					
RB					
1					