

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 9 m 1:100

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

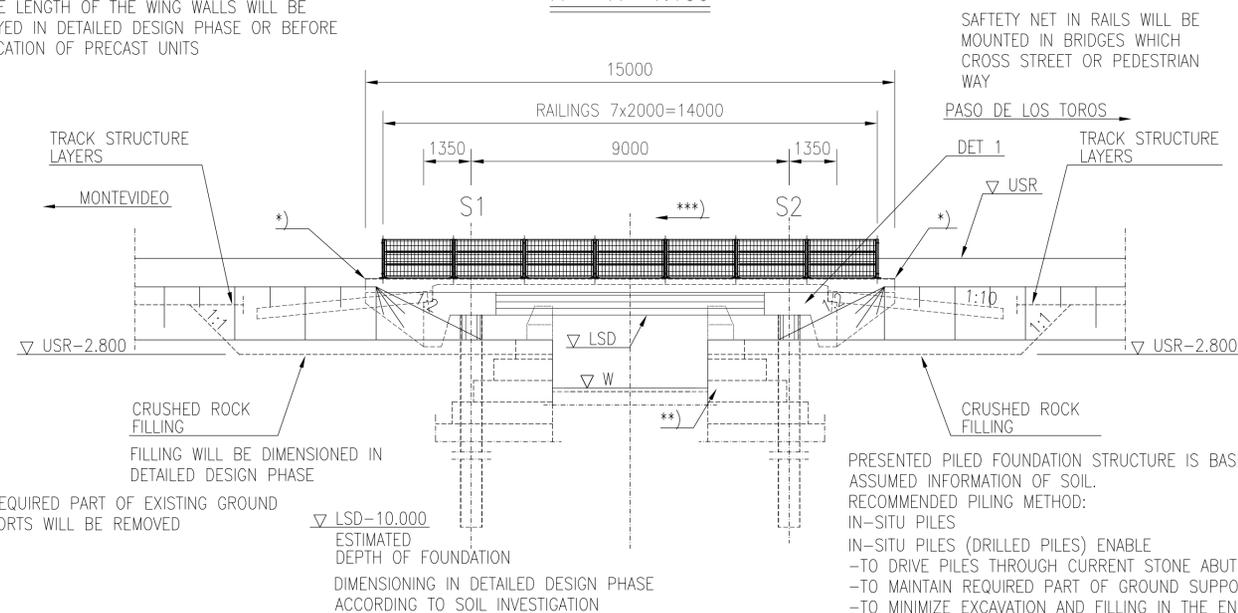
ESTIMATED AMOUNT OF CONCRETE
PILES: 11 m³
SUPERSTRUCTURE: 70 m³

ESTIMATED REINFORCING STEEL
PILES: 1200 kg
SUPERSTRUCTURE: 180 kg/m³ (CONCRETE)
TRANSITION SLABS: 325 kg/m³ (CONCRETE)

PROTECTIVE CONCRETE: 3 kg/m²

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

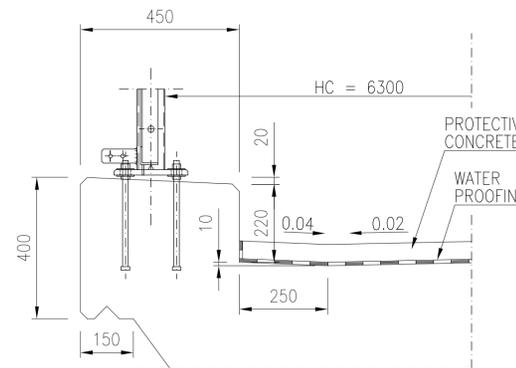
A - A 1:100



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

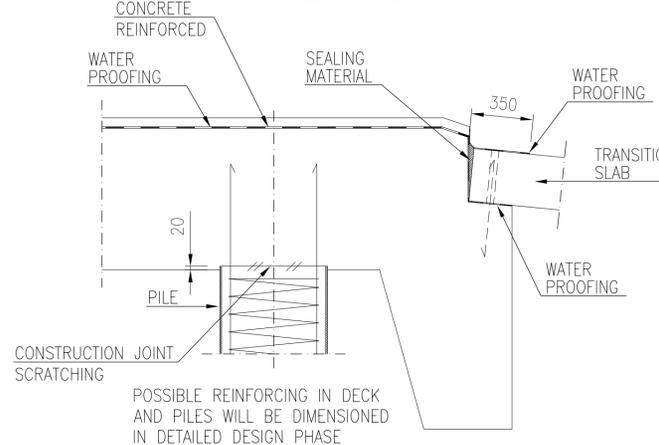
PRESENTED PILED FOUNDATION STRUCTURE IS BASED ON ASSUMED INFORMATION OF SOIL. RECOMMENDED PILING METHOD: IN-SITU PILES
IN-SITU PILES (DRILLED PILES) ENABLE
-TO DRIVE PILES THROUGH CURRENT STONE ABUTMENT
-TO MAINTAIN REQUIRED PART OF GROUND SUPPORT
-TO MINIMIZE EXCAVATION AND FILLING IN THE END OF THE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

EDGE BEAM 1:10



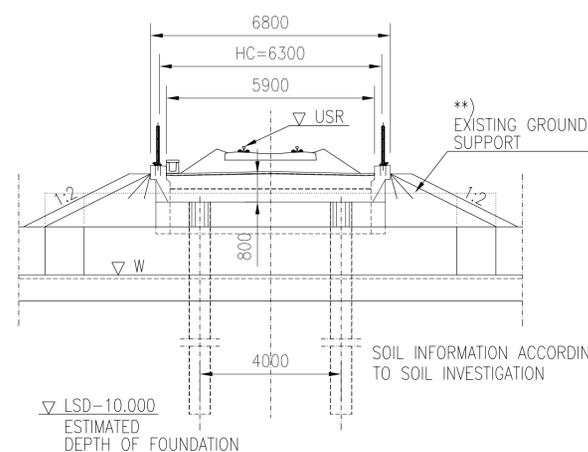
DET 1 1:20

PILE - DECK CONNECTION
EDGE OF DECK



POSSIBLE REINFORCING IN DECK AND PILES WILL BE DIMENSIONED IN DETAILED DESIGN PHASE

B - B 1:100



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

BRIDGE TYPE	REINFORCED CONCRETE BRIDGE CANTILEVER PLATE
SPANS	1.35 m + 9.00 m + 1.35 m
HORIZONTAL CLEAR SPAN	9.00 m
HORIZONTAL CLEARANCE	6.30 m
VERTICAL CLEARANCE	-

VERSION
23.10.2017

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	 MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS	Project Railway Project			
Supplier		Design phase Pre-engineering, Phase 2			
Drawer	Content Cast-in-situ bridge 9 m Preliminary general drawing Km+m +-+				
Designer					
Supervisor	Loading LM71-25				
Accept.	Coordinate and elevation reference system WGS 84 UTM 21				
Cost. acc.	Railway line				
Archive					Rev. Sheet
Type					Number
RB					- 1