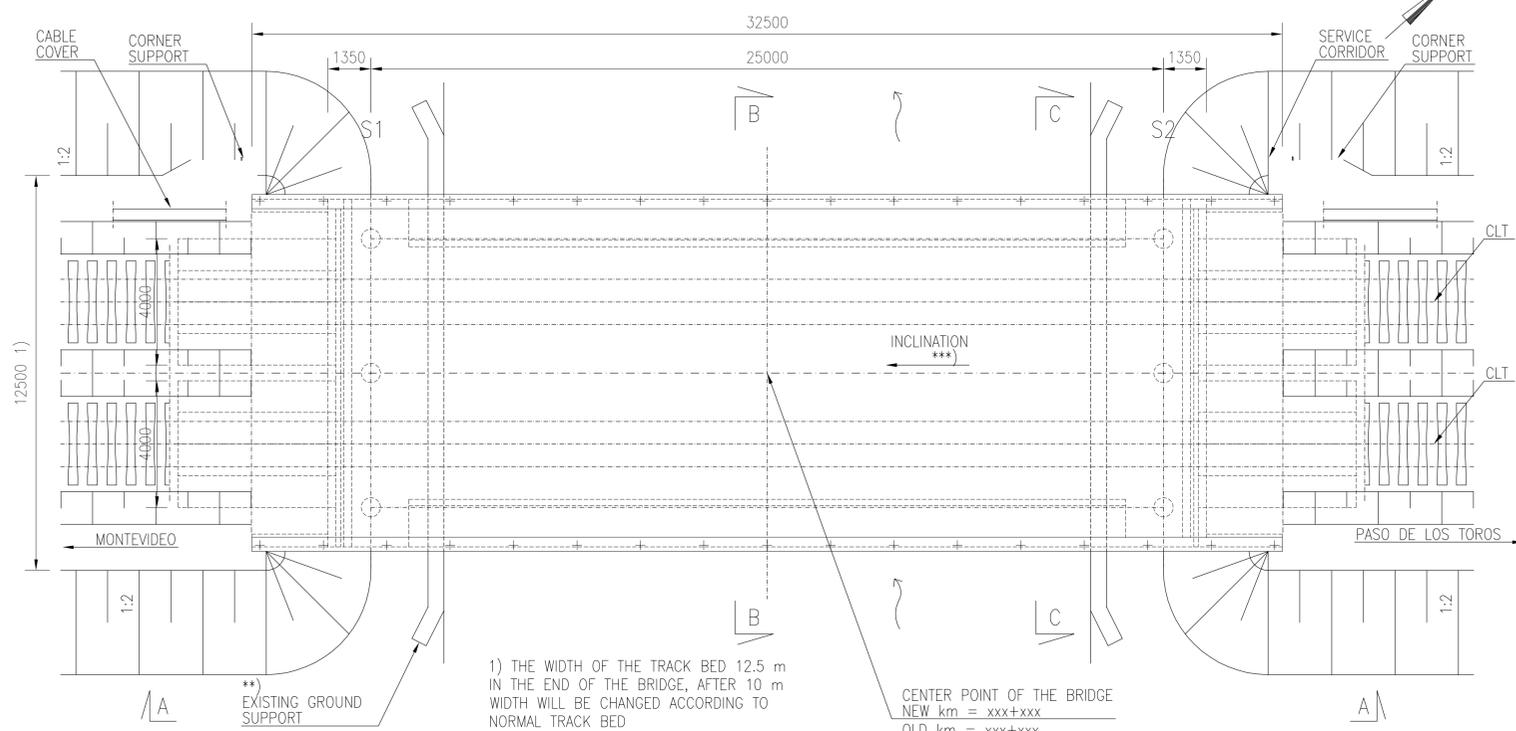


PRESTRESSED CONCRETE BRIDGE 2Tr 25 m 1:100

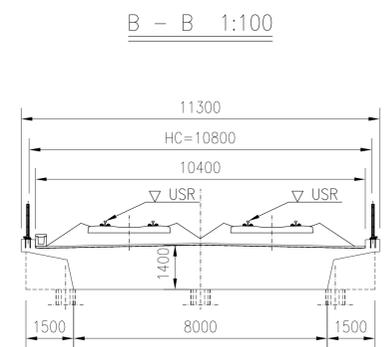


ESTIMATED AMOUNT OF CONCRETE
PILES: 17 m³
SUPERSTRUCTURE: 372 m³

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



CONCRETE: C35/45
C_{min}=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

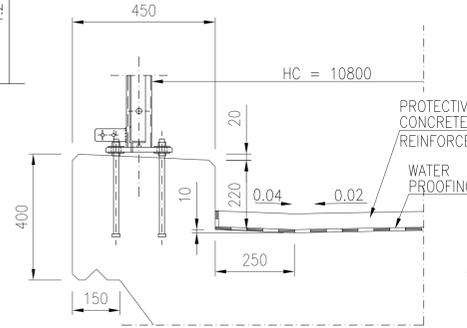
1) THE WIDTH OF THE TRACK BED 12.5 m IN THE END OF THE BRIDGE, AFTER 10 m WIDTH WILL BE CHANGED ACCORDING TO NORMAL TRACK BED

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

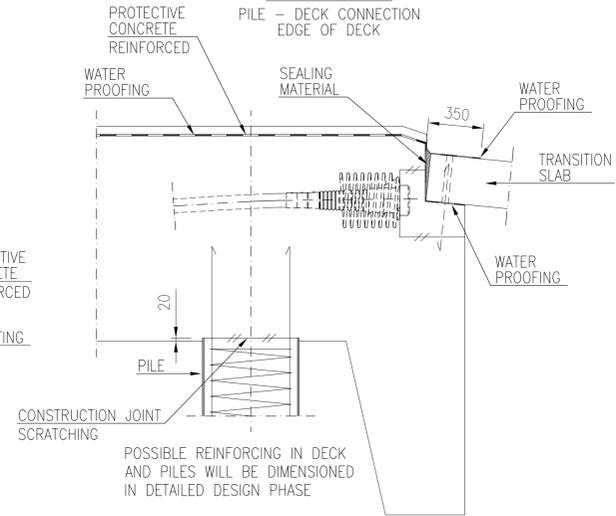
***) BRIDGE WILL BE BUILT MIN. 1 % INCLINATION ACCORDING TO VERTICAL GEOMETRY OF TRACK

** EXISTING GROUND SUPPORT

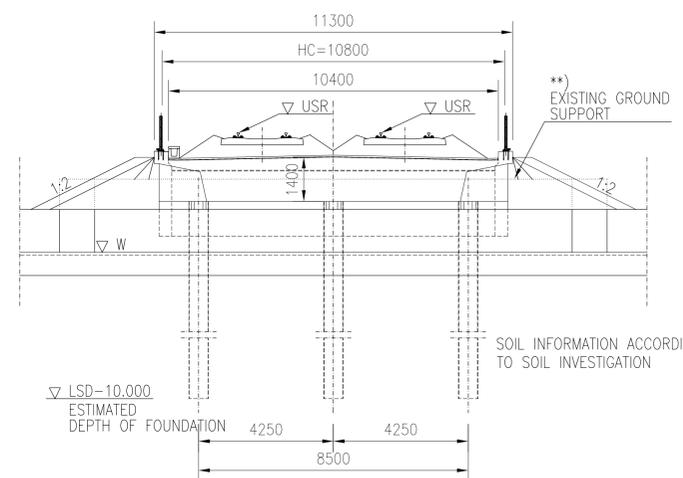
EDGE BEAM 1:10



DET 1 1:20

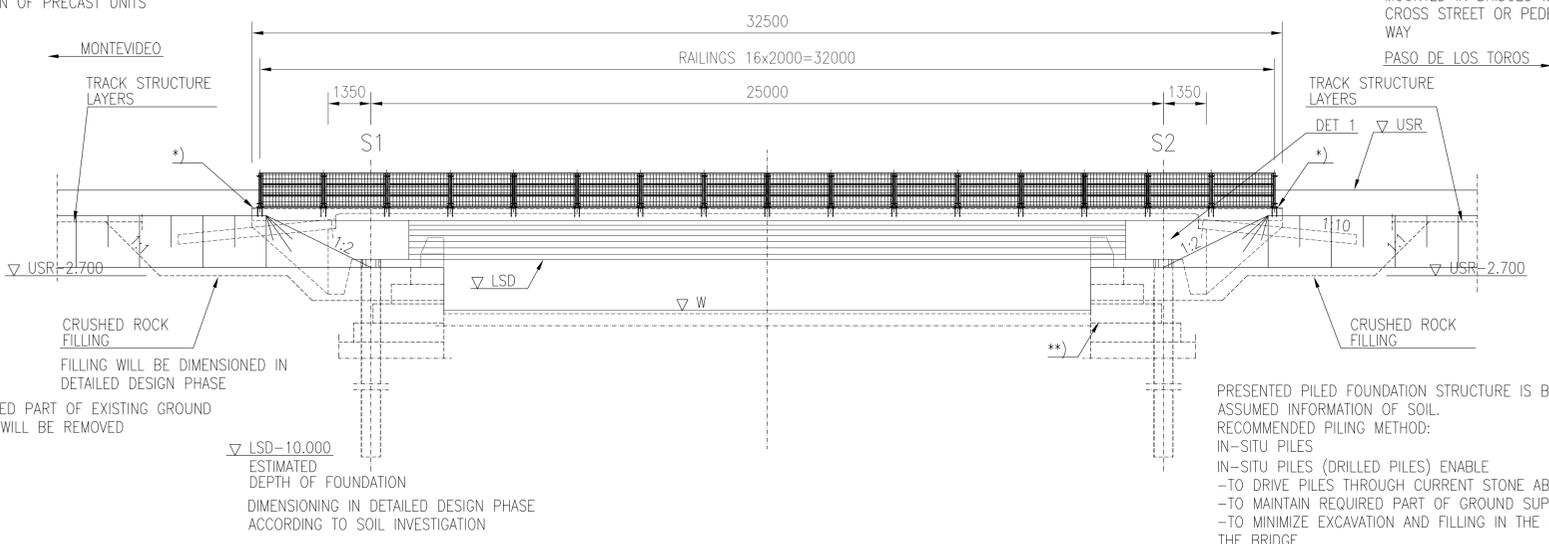


C - C 1:100



*) 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

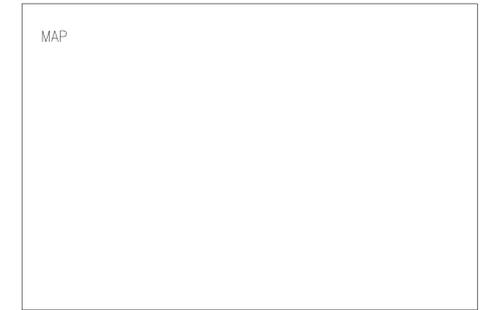
PRESENTED PILED FOUNDATION STRUCTURE IS BASED ON ASSUMED INFORMATION OF SOIL.
RECOMMENDED PILING METHOD:
IN-SITU PILES
IN-SITU PILES (DRILLED PILES) ENABLE
-TO DRIVE PILES THROUGH CURRENT STONE ABUTMENT
-TO MAINTAIN REQUIRED PART OF GROUND SUPPORT
-TO MINIMIZE EXCAVATION AND FILLING IN THE END OF THE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

** EXISTING GROUND SUPPORT

** REQUIRED PART OF EXISTING GROUND SUPPORTS WILL BE REMOVED

CRUSHED ROCK FILLING
FILLING WILL BE DIMENSIONED IN DETAILED DESIGN PHASE

ESTIMATED DEPTH OF FOUNDATION
DIMENSIONING IN DETAILED DESIGN PHASE ACCORDING TO SOIL INVESTIGATION



BRIDGE TYPE	PRESTRESSED CONCRETE BRIDGE
	CANTILEVER PLATE
SPANS	1.35 m + 25.00 m + 1.35 m
HORIZONTAL CLEAR SPAN	10.80 m
VERTICAL CLEARANCE	-

VERSION
23.10.2017

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