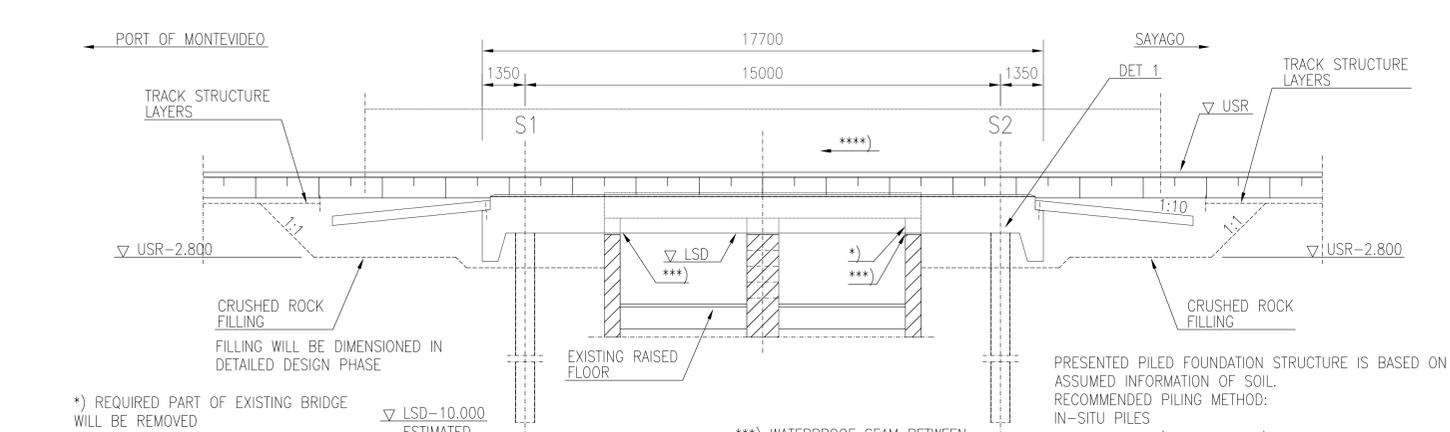


A - A 1:100



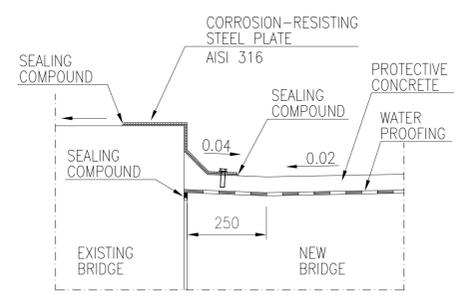
***) WATERPROOF SEAM BETWEEN NEW BRIDGE AND EXISTING BRIDGE STABILITY OF WALL WILL BE VERIFIED IN DETAIL DESIGN PHASE

ESTIMATED AMOUNT OF CONCRETE
PILES: 17 m³
SUPERSTRUCTURE: 220 m³

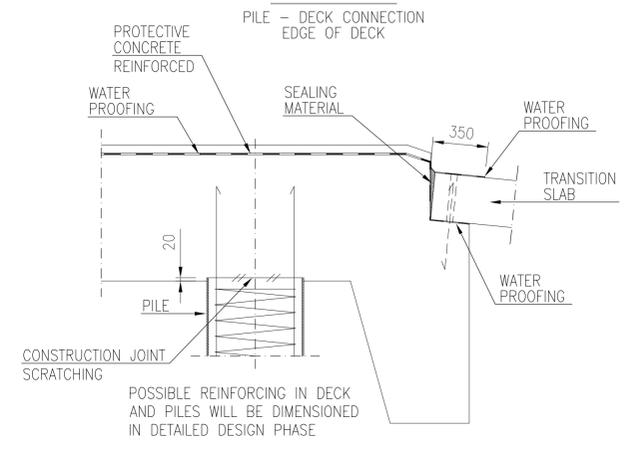
ESTIMATED REINFORCING STEEL
PILES: 1800 kg
SUPERSTRUCTURE: 140 kg/m³ (CONCRETE)
TRANSITION SLABS: 325 kg/m³ (CONCRETE)

PROTECTIVE CONCRETE: 3 kg/m²

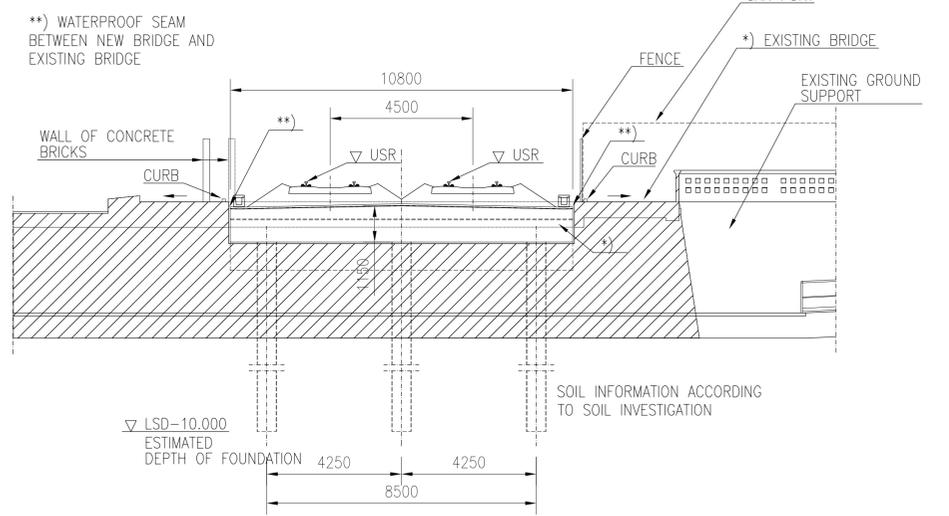
EDGE OF BRIDGE 1:10
WATERPROOF CAST SEAM



DET 1 1:20

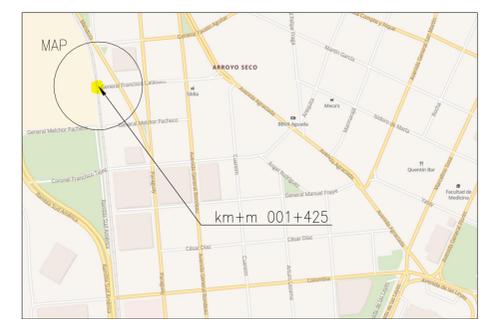


B - B 1:100



- 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
- 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



BRIDGE TYPE	REINFORCED CONCRETE BRIDGE
	CANTILEVER PLATE
SPANS	1.35 m + 15.00 m + 1.35 m
HORIZONTAL CLEAR SPAN	—
VERTICAL CLEARANCE	—
HORIZONTAL CLEARANCE	10.80 m

VERSION
15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	Project		Railway Project		
Supplier	Design phase		Pre-engineering, Phase 2		
	Content		Underpass bridge General Caraballo Preliminary general drawing Km+m 001+428		
Drawer	23.11.2017	Ilkka Tiito	Loading	LM71-25	
Designer	23.11.2017	Ilkka Tiito	Coordinate and elevation reference system	WGS 84 UTM 21	
Supervisor	23.11.2017	Reima Niklander	Railway line		
Accept.	-	-	Archive	Type	Number
Cust. acc.	-	-	UP	-	1