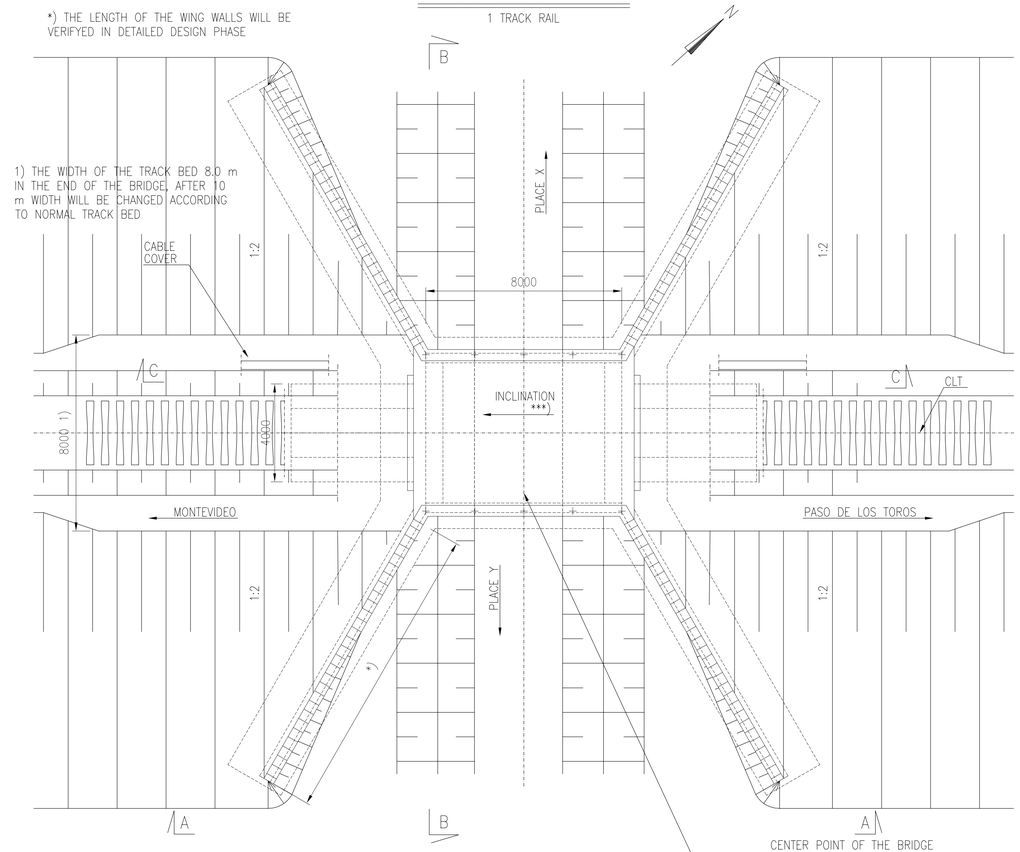
FRAME BRIDGE 8 m 1:100

1 TRACK RAIL

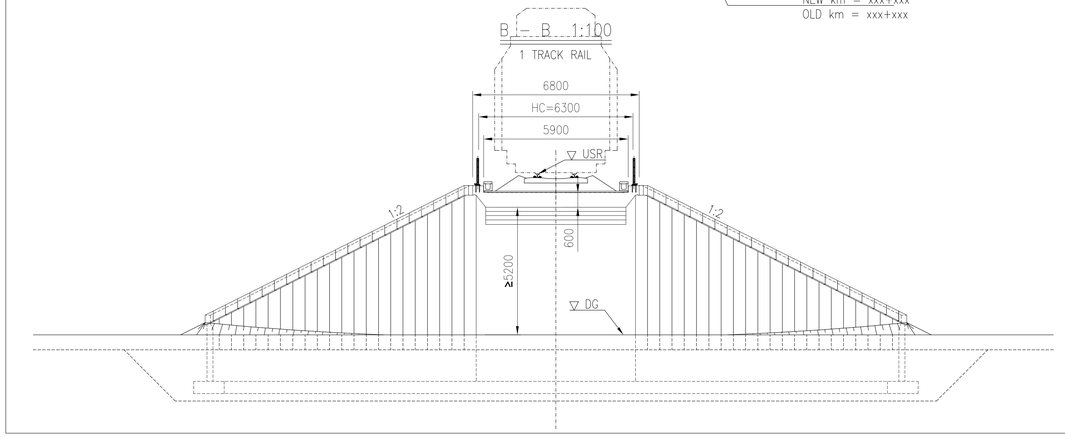
*) THE LENGTH OF THE WING WALLS WILL BE VERIFYED IN DETAILED DESIGN PHASE

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



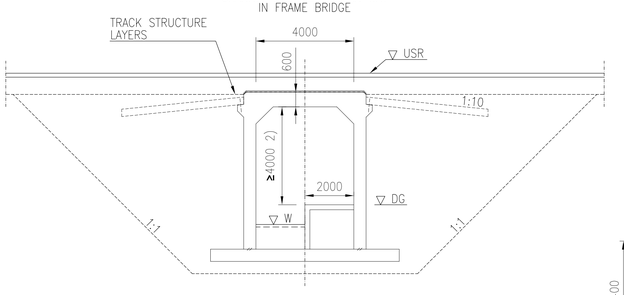
B – B 1:100

1 TRACK RAIL

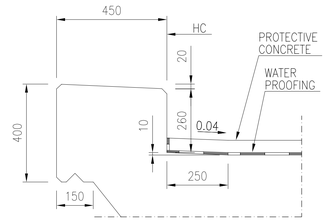


C – C 1:100

CHANNEL AND PEDESTRIAN WAY IN FRAME BRIDGE



EDGE BEAM 1:10



STIMATED AMOUNT OF CONCRETE
FOUNDATION SLAB: 106 m3
FRAME: 220 m3

ESTIMATED REINFORCING STEEL
FOUNDATION SLAB: 100 kg
FRAME: 190 kg/m3 (CONCRETE)
TRANSITION SLABS: 325 kg/m3 (CONCRETE)

PROTECTIVE CONCRETE: 3 kg/m2

CONCRETE: C35/45
Cmin=40 mm

REINFORCING STEEL: B500B
REINFORCING MESH: B500K

PILES / FOUNDATION: DRILLED PILES D610x14,2 S355J2H

TRANSITION SLABS: PREFABRICATED TRANSITON 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

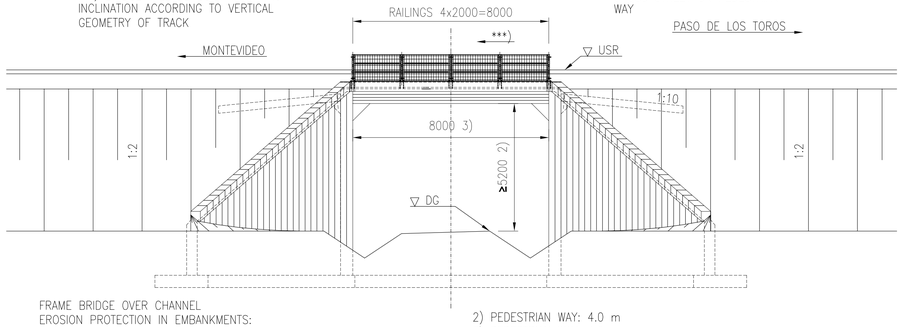
CONSTRUCTIONAL STEEL: S355 J2, HOT-DIP ZINC COATED

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

A – A 1:100

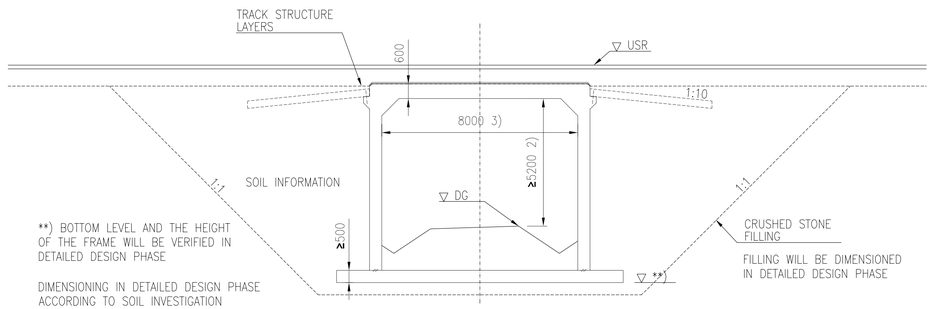


SAFTETY NET IN RAILS WILL BE MOUNTED IN BRIDGES WHICH CROSS STREET OR PEDESTRIAN WAY

FRAME BRIDGE OVER CHANNEL
EROSION PROTECTION IN EMBANKMENTS:
CONCRETE REVETMENT 10 m OUTSIDE OF WING WALLS
EROSION PROTECTION UNDER FOUNDATION:
FLOW UNDER FOUNDATION SLAB IS PREVENTED BY BENTONITE FABRIC OR COATED PLATE

2) PEDESTRIAN WAY: 4.0 m
3) PEDESTRIAN WAY: 4.0 m

C – C 1:100



**) BOTTOM LEVEL AND THE HEIGHT OF THE FRAME WILL BE VERIFIED IN DETAILED DESIGN PHASE

DIMENSIONING IN DETAILED DESIGN PHASE ACCORDING TO SOIL INVESTIGATION

FILLING WILL BE DIMENSIONED IN DETAILED DESIGN PHASE

CLT = CENTER LINE of the TRACK
HC = HORIZONTAL CLEARANCE
LSD = LOWER SURFACE of the DECK
USR = UPPER SURFACE of the RAIL

MAP

BRIDGETYPE	FRAME BRIDGE –
SPANS	4.0...8.0m
HORIZONTAL CLEAR SPAN	– VERTICAL CLEARANCE –
HORIZONTAL CLEARANCE	6.30 m

VERSION
23.10.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Drawer	23.10.2017	Ilkka Tiiro
Designer	23.10.2017	Ilkka Tiiro
Supervisor	23.10.2017	Reima Niklander
Accept.	-	-
Cust. acc.	-	-

Project: Railway Project
Design phase: Pre-engineering, Phase 2
Content: Railway bridge
Frame bridge 1 track
Preliminary general drawing
Km+m -+-
Loading: LM71-25
Coordinate and elevation reference system: WGS 84 UTM 21
Railway line
Archive Type Number Rev. Sheet: UP xxxx - 1