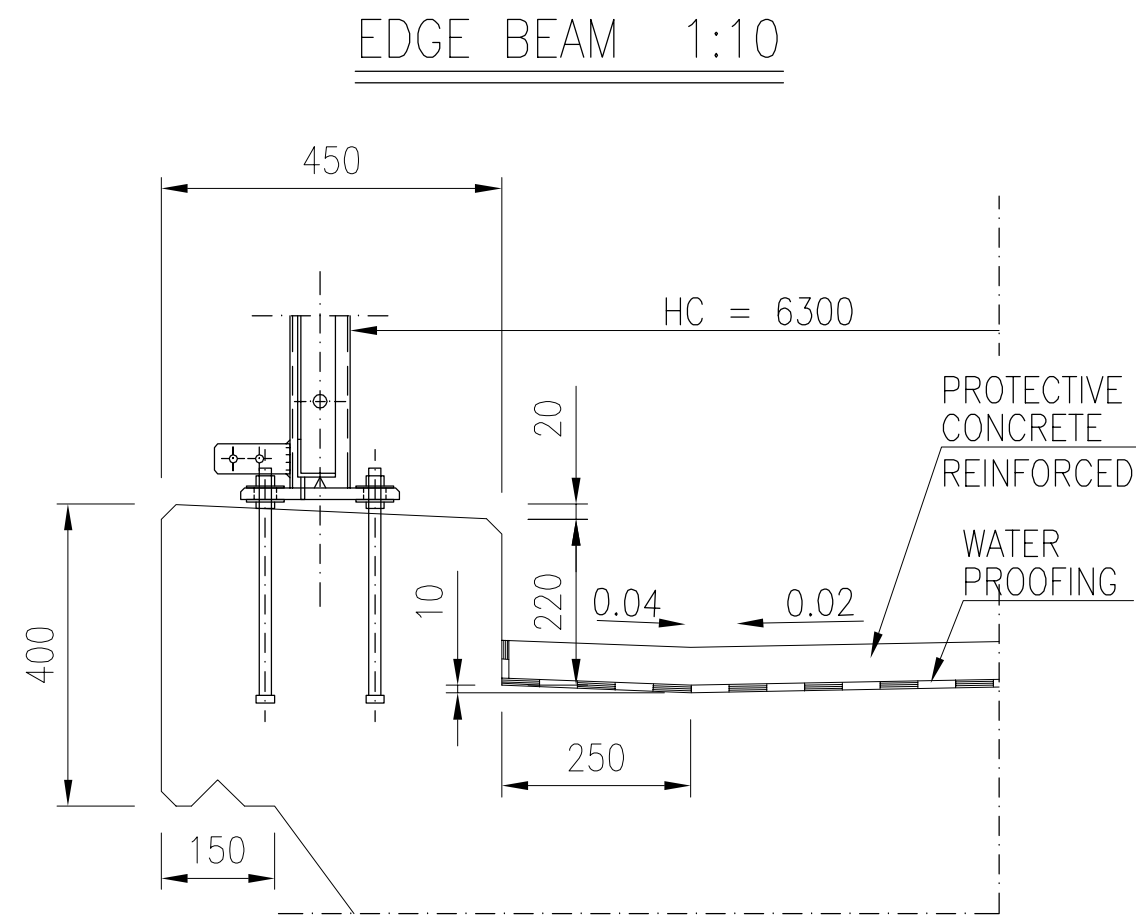


ESTIMATED AMOUNT OF CONCRETE
PILES: 11 m³
SUPERSTRUCTURE: 166 m³

ESTIMATED PRESTRESSING STEEL
SUPERSTRUCTURE: 23 kg/m³ (CONCRETE)

ESTIMATED REINFORCING STEEL
PILES: 1200 kg
SUPERSTRUCTURE: 90 kg/m³ (CONCRETE)
TRANSITION SLABS: 325 kg/m³ (CONCRETE)

PROTECTIVE CONCRETE: 3 kg/m²



CONCRETE: C35/45
Cmin=40 mm

PRESTRESSING STEEL: St 1570 / 1770
REINFORCING STEEL: B500B
REINFORCING MESH: B500K

PILES / FOUNDATION: DRILLED PILES D610x14,2 S355J2H

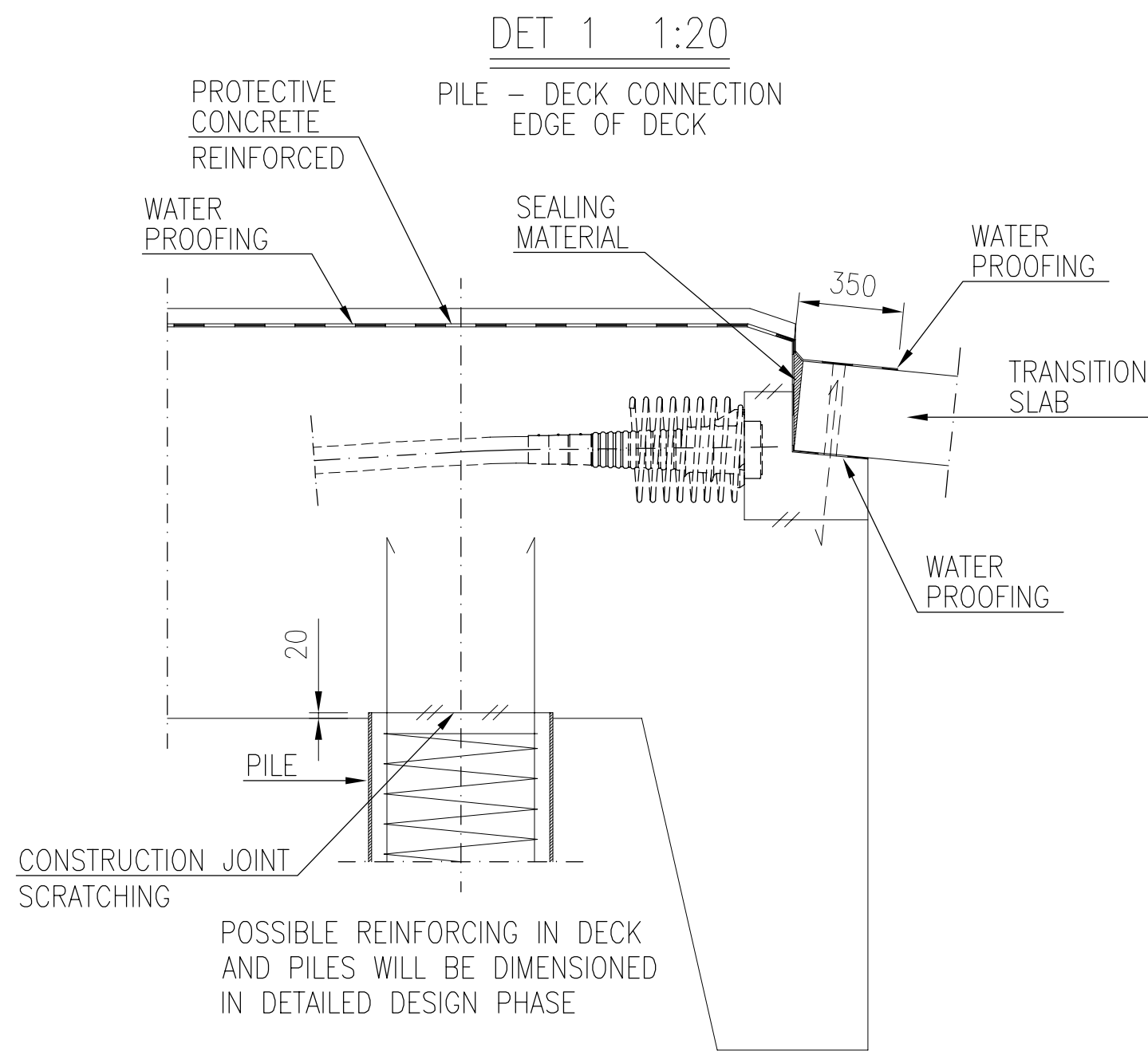
TRANSITION SLABS: PREFABRICATED TRANSITION SLABS
2 x 4 x 1.0 m x 5,0 m
OR CAST IN SITU 2 x 4,0 m x 5,0 m
CONCRETE C35/45

CONSTRUCTIONAL STEEL: S355 J2, HOT-DIP ZINC COATED

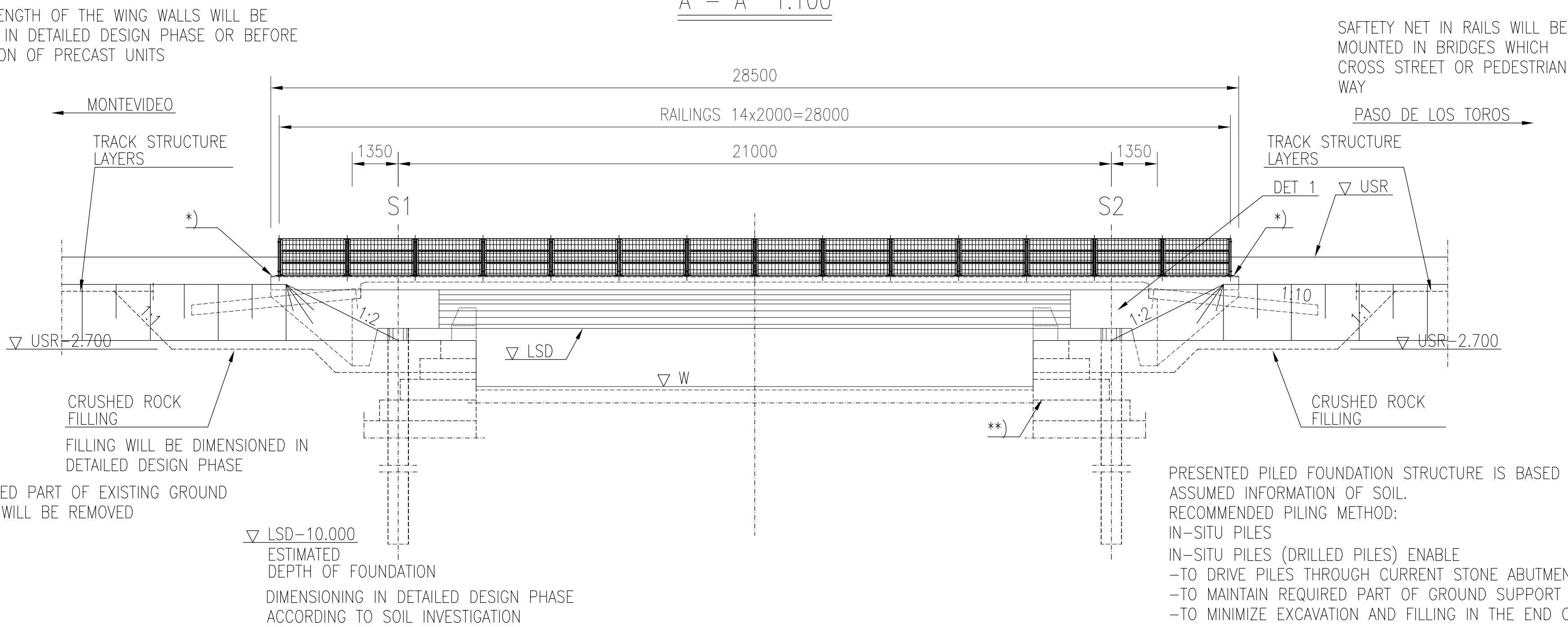
RAILING / FENCE: h = 1.1 m
S355J2H
HORIZONTAL LINE LOAD 1.0 kN/m
VERTICAL POINT LOAD 1.0 kN

SURFACE STRUCTURE: WATER PROOFING MATERIAL 10 mm
PROTECTIVE CONCRETE 50 mm
BALLAST 550 mm

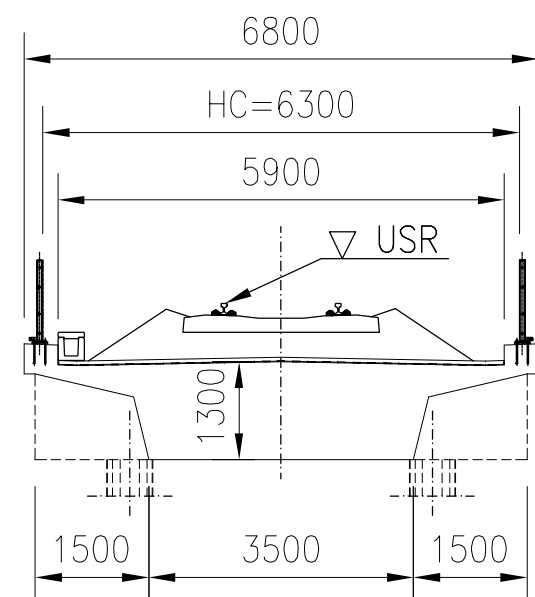
FILLING: REQUIREMENTS ACCORDING TO TRACK INTERMEDIATE LAYER



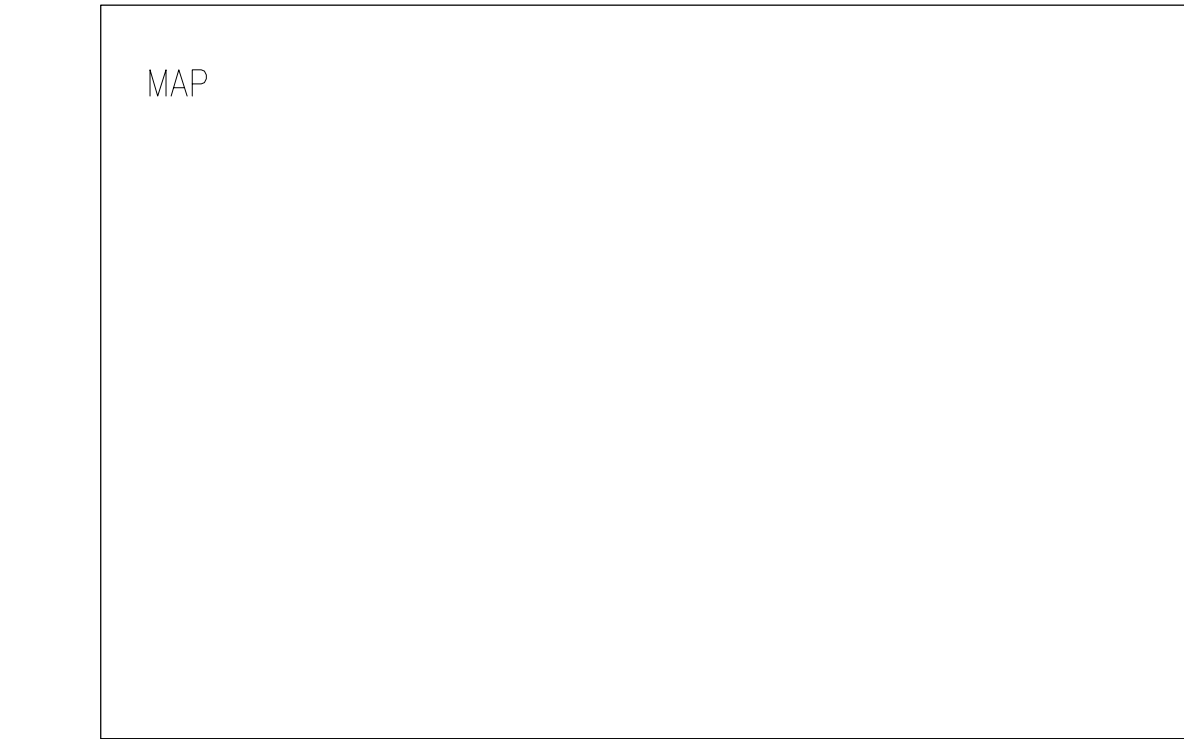
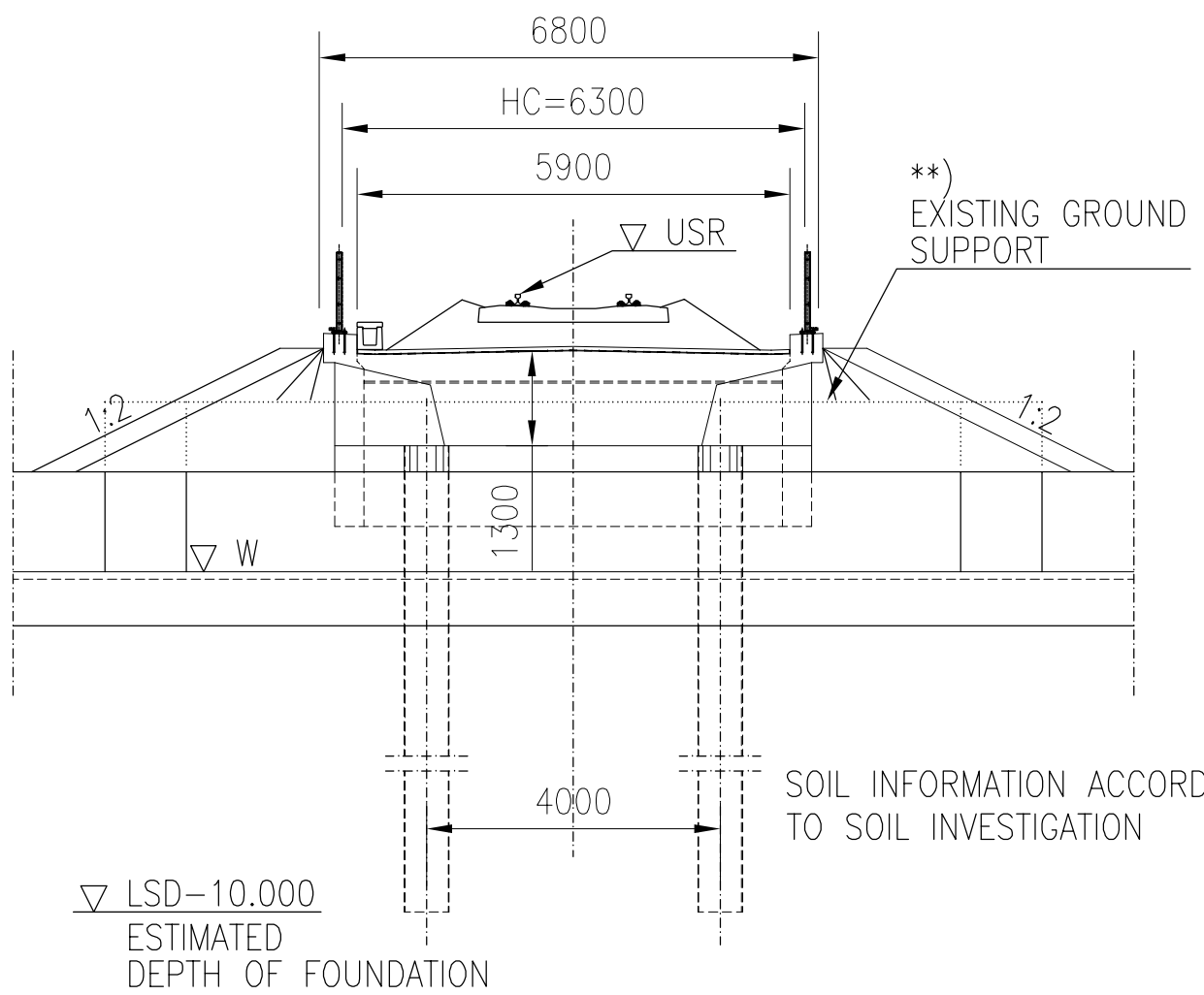
A - A 1:100



B - B 1:100



C - C 1:100



| | |
|-----------------------|-----------------------------|
| BRIDGETYPE | PRESTRESSED CONCRETE BRIDGE |
| SPANS | CANTILEVER PLATE |
| HORIZONTAL CLEAR SPAN | 1.35 m + 21.00 m + 1.35 m |
| HORIZONTAL CLEARANCE | 6.30 m |

VERSION
23.10.2017

| Revision | Explanation | Date | Designer | Date | Acceptor |
|--------------|--|-----------------|---|---------------|----------|
| Customer | MTOP | | | | |
| Project | MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS | | | | |
| Design phase | Pre-engineering, Phase 2 | | | | |
| Content | Prestressed concrete bridge 21 m Preliminary general drawing Km+km +-+ | | | | |
| Supplier | VR TRACK | | | | |
| Drawer | 23.10.2017 | Ilkka Tiito | Loading | LM71-25 | |
| Designer | 23.10.2017 | Ilkka Tiito | Coordinate and elevation reference system | WGS 84 UTM 21 | |
| Supervisor | 23.10.2017 | Reima Niklander | Railway line | | |
| Accept. | - | - | Archive | Type | Number |
| Cust. acc. | - | - | Rev. | Sheet | |
| | | | RB | - | 1 |