



CONSTRUCTION OF THE MARANURA BRIDGE AND ACCESSES

CONTRACT DATA

ADMINISTRATIVE DATA

CONTRACT TYPE:

Writing Project / Final Study

CONTRACT NAME:

Final Study for the Construction of the Maranura Bridge and accesses

LOCATION: Maranura, Cusco

CONSULTING COMPANY:

CPS Ingenieros, Obra Civil y Medio Ambiente, S.L.

BUDGET: S/. 1.577.261,64

DURATION OF WORKS: 7 months

CLIENT: Ministerio de Transportes y Comunicación – PROVIAS NACIONAL

DATE (START / COMPLETION): April 2014 – November 2014 (provided)

TECHNICAL DATA

- Type: Deck Arch Bridge
- Number of spans: 1
- Total length of span: 195 m
- Total length of arch: 145 m
- Width of lanes: 10 m
- Width of footpaths: 1.20 m
- Top: Reinforced concrete slab
- Metal Railings: 149,80 m
- Layout plan: Straight
- Ground level: 2365.00 msnm
- Load capacity: HL-93

SCOPE OF THE WORKS

The object of the study is to develop the Final Study for the construction of the Maranura Bridge and Accesses, based on the Second Phase Bypass of the Alfamayo - Chaulay - Quillabamba section between Kms 126 +960 - Km 128 +619 of the B PE-28 National Road Network in Maranura District, La Convención Province in the Region of Cusco.

TASK PERFORMED

- Study of Alternatives: 4 re-routes and 6 road structures
- Traffic Study
- Land surveying, layout and road design
- Bathymetry
- Road layout and design
- Quarries and water sources (soils)
- Paving of accesses
- Geology and Geotechnics
- Hydrology and Hydraulics
- Structures
- Signalling and Road Safety
- Environmental Impact
- Measurements and Budget
- Technical specifications
- Works' timelines

STUDY OF SOLUTIONS



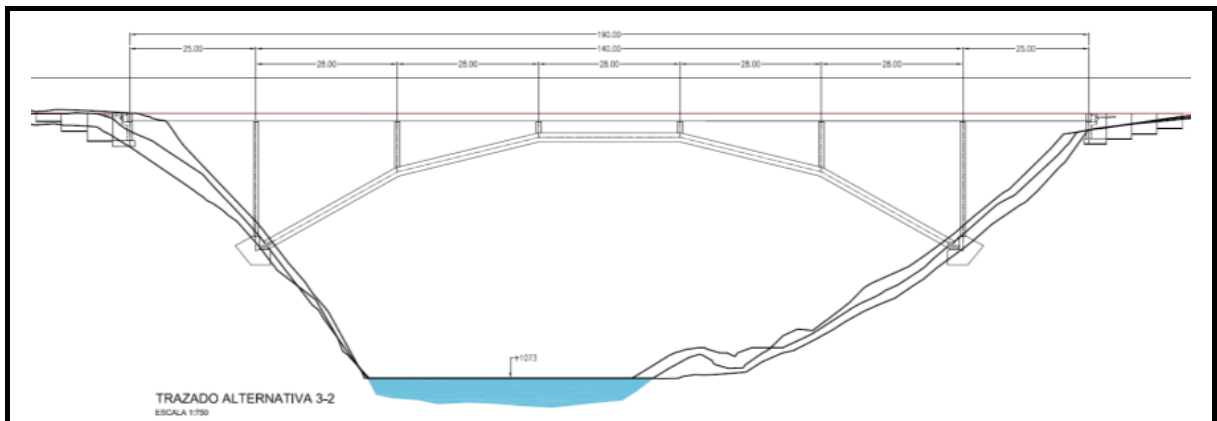
Plan of re-routes



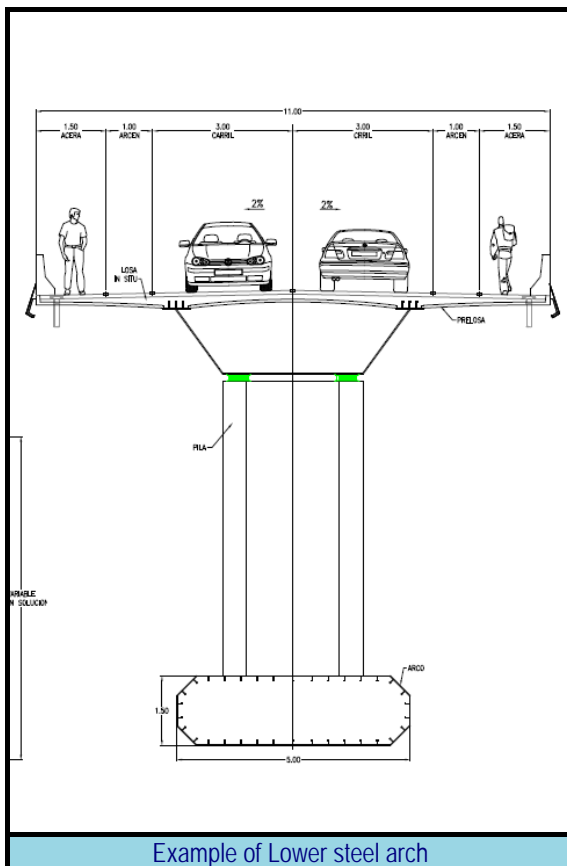
WORKS DESCRIPTION

The Maranura Bridge is located over the Vilcanota River, an affluent of the Urubamba River on the road between Cusco and Quillabamba, in the surroundings of the Sacred Valley and Machu Picchu Monument within the Alfamayo-of-Quillabamba Chaullay section, National Highway PE-28B. This action will promote improved communication in the capital of the region with the forest area.

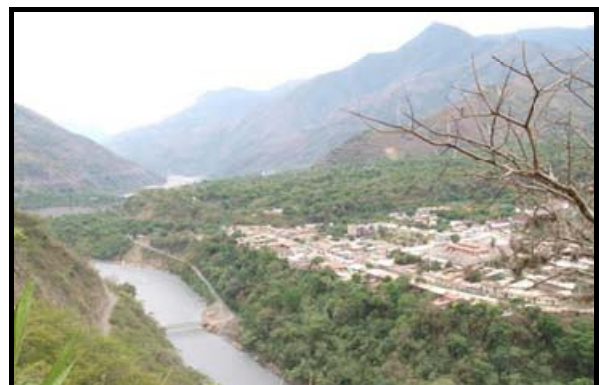
The project provides an access of 1.5 km in the vicinity of the town of Maranura and establishes a metal arch bridge measuring 190 meters to replace the current Mabey Compact temporary bridge measuring 39,624 m.



Proposed Maranura Bridge Profile



View of existing temporary Maranura bridge



View of Maranura Bridge section