





SUMMARY

Landshape intervenes in the collision between the natural and human-dominated worlds of the West Vail pass. It reconnects landscapes with a charismatic wildlife that depends on this place.

From the landscape, the wildlife crossings needs to be experienced as an artificial construction, absorbed into the wilderness and the landscape. Three curves connect both parts of the valley split by the Interstate-70. The first curve is the actual bridge; the second curve is the ground level that advances over the bridge. The third curve is the continuation of the natural vegetation over the bridge that transforms from mature forest to shrubs on the centre of the bridge itself. This picture trademark is the starting point for the integration and design of the eco

passage.

Prolonging the landscape trademark, 'curves' are the main organizing elements for the architecture of the load bearing structure itself. In cross section the curve 'contains' the landscape and the wildlife that overpasses. At the same time it is an 'inviting' shape in the perpendicular direction for the traffic that underpasses. In longitudinal direction a curve carries the over passing landscape and Wildlife. In the perpendicular direction it is a gesture with a generous height letting the highway landscape and traffic underpass. The size of the landscape and wildlemess needs to reflect in the size and span of the wildlife crossing and contributes to a

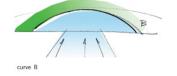
sare passage. These two main organizing curves are combined to a double curved surface from which a thin shell structure is generated. This 'ideal' symmetrical surface combined with the not symmetrical geo contours derived from the sites topology and morphology generates a form that is both contexts sensitive and at the same time will follow the natural curves of the forces. A natural, and at the same time artificial shape, a Landshape is created.

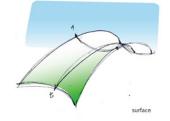
Landshape is a cost effective and innovative solution for road ecology. Combining proven technology with forward and state of the art materials and forward parametric design tools into a cost effective and feasible solution yet compelling to the public and suitable to the scale of the Great American landscape of the

ARCHITECTURAL CONCEPT

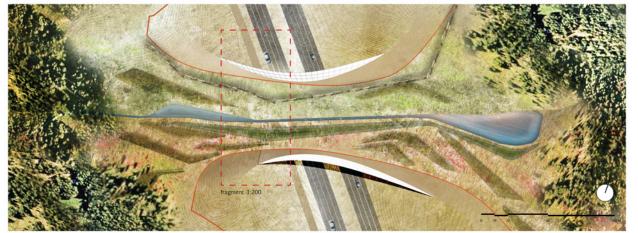












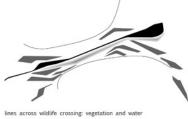
detailed site plan, scale 1:1000

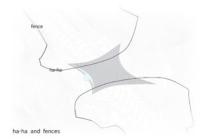
dense forest area - open area

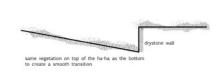




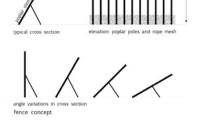








ha-ha concept



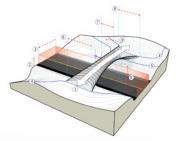






cross section at road median

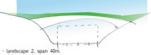
ADAPTABILITY CONCEPT



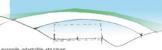
- desired crossing path
 required clearance height
 required clearance width
 required clearance width
 contour line for shell edge
 reduced to the contour line for shell bottom
 dewith of crossing at extremes
 reduced to the consist of the contour
 reduced to the contour line for shell bottom
 reduced to the contour line for shell bottom



- landscape 1, span 60m. 4 lane road clearance 5.5m.
- adaptable structure example 1



- adaptable structure example 2
- landscape 2, span 40n
 4 lane road
 clearance 7m.



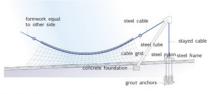
- example adaptable structure: landscape 3, span 100m, 6 lane road clearance 5.5m.
- adaptable structure example 3



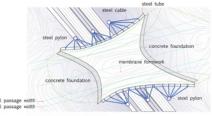


longitudinal section

STRUCTURAL CONCEPT



structural section during construction



concrete form structure plan



structural model of HYPAR concrete form

