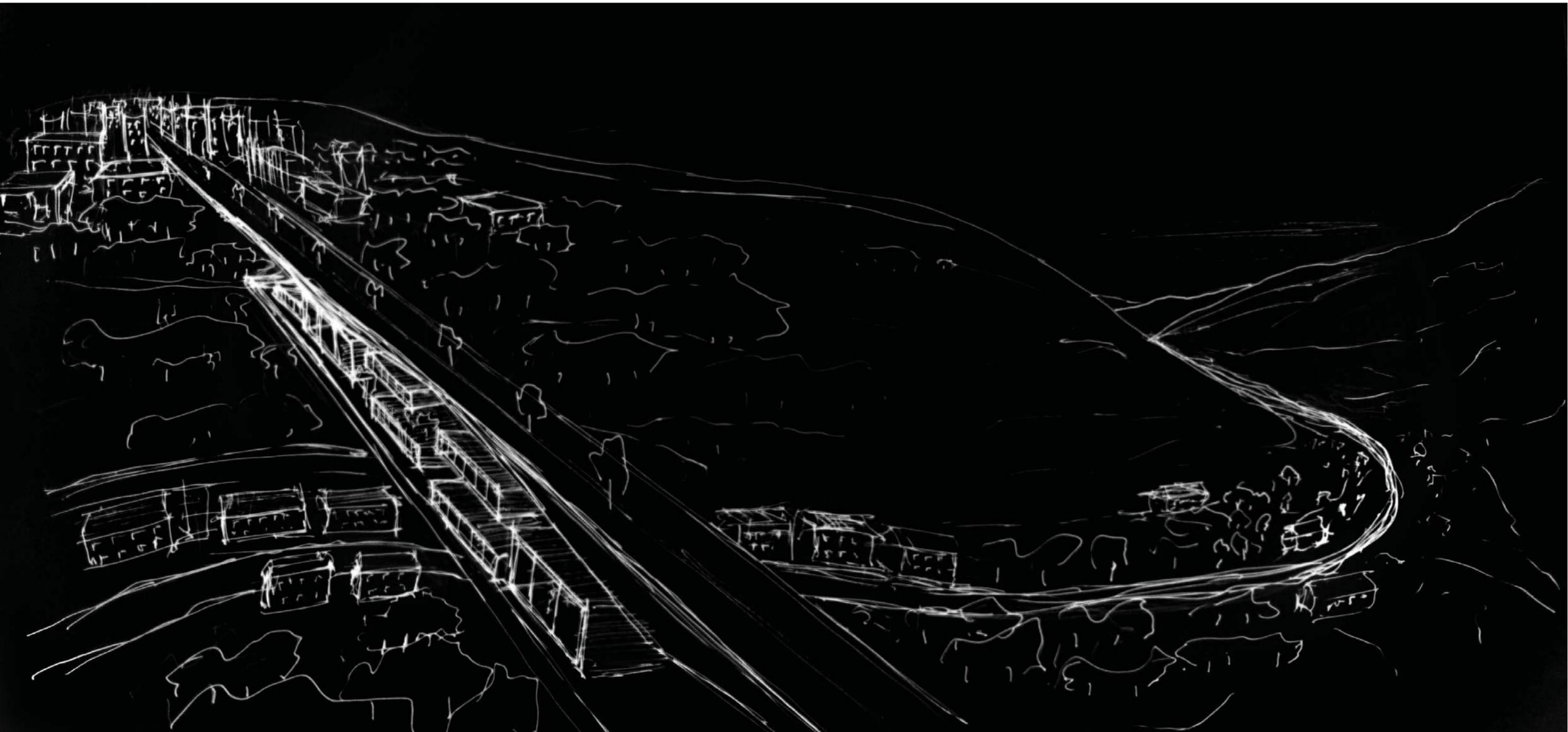


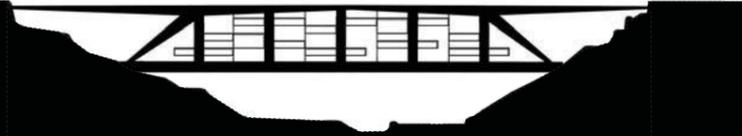
HABITER LE PAYSAGE

UN PONT VIERENDEEL

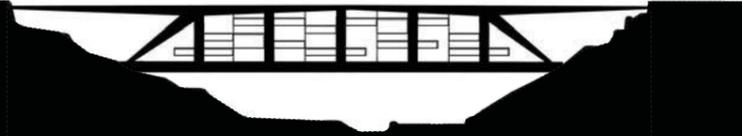


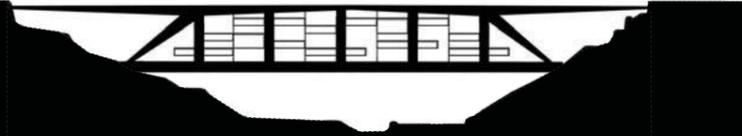
Equipe N° A110285 / Bertrand L, Gozzo G., Grentzinger J. / ENSA Nancy

Luxembourg, cité européenne.



La vallée de l'Alzette au coeur de la ville de Luxembourg.

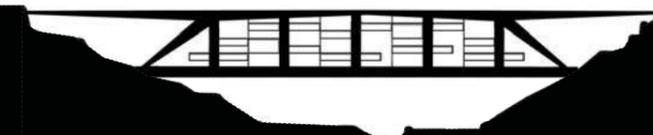




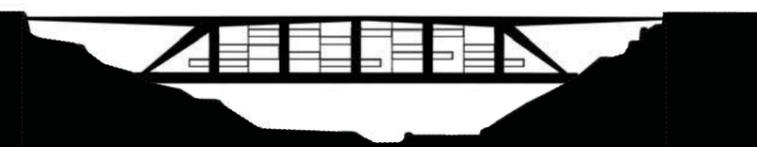


1

UN PAYSAGE D'EXCEPTION AU COEUR DE LA VILLE



Développement de la ville : la conquête des plateaux

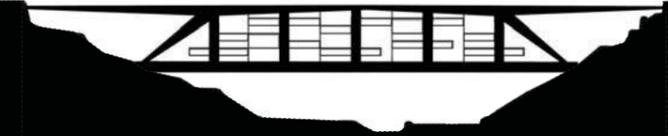


Développement de la ville : la conquête des plateaux



Le viaduc ferroviaire

1861

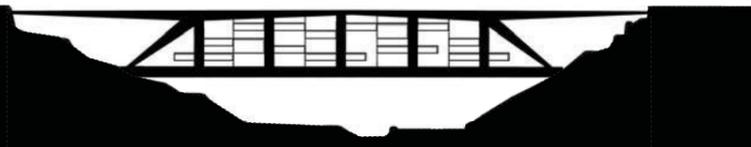


Développement de la ville : la conquête des plateaux



La Passerelle

1861

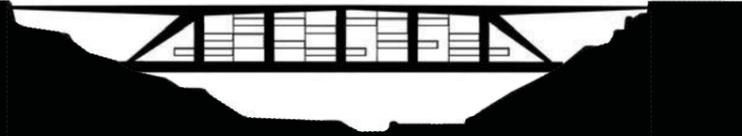


Développement de la ville : la conquête des plateaux

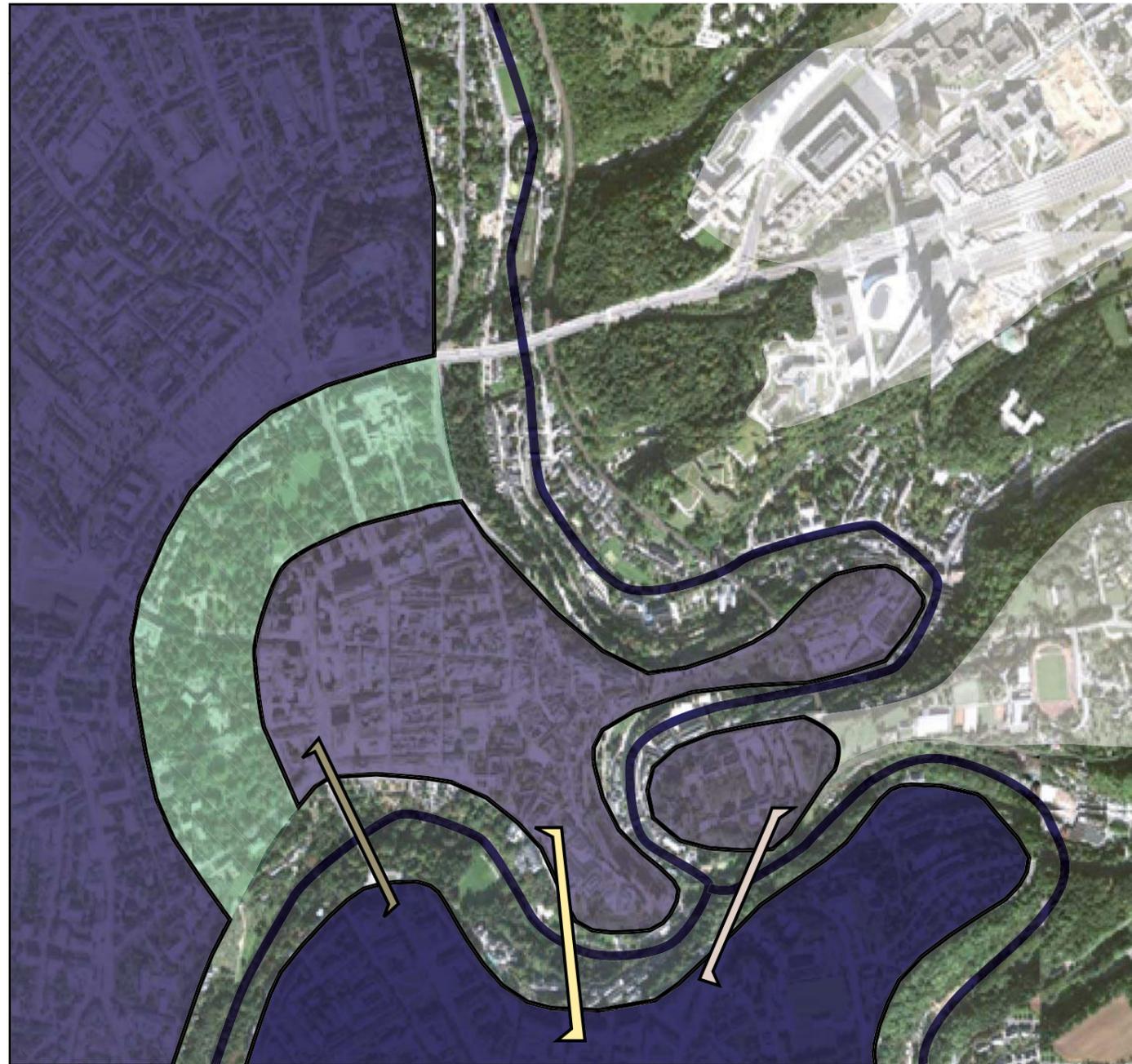


Le pont Adolphe

1903

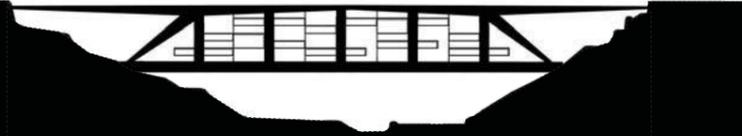


Développement de la ville : la conquête des plateaux



Le pont Adolphe

1903

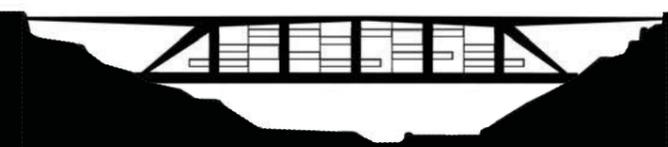


Développement de la ville : la conquête des plateaux

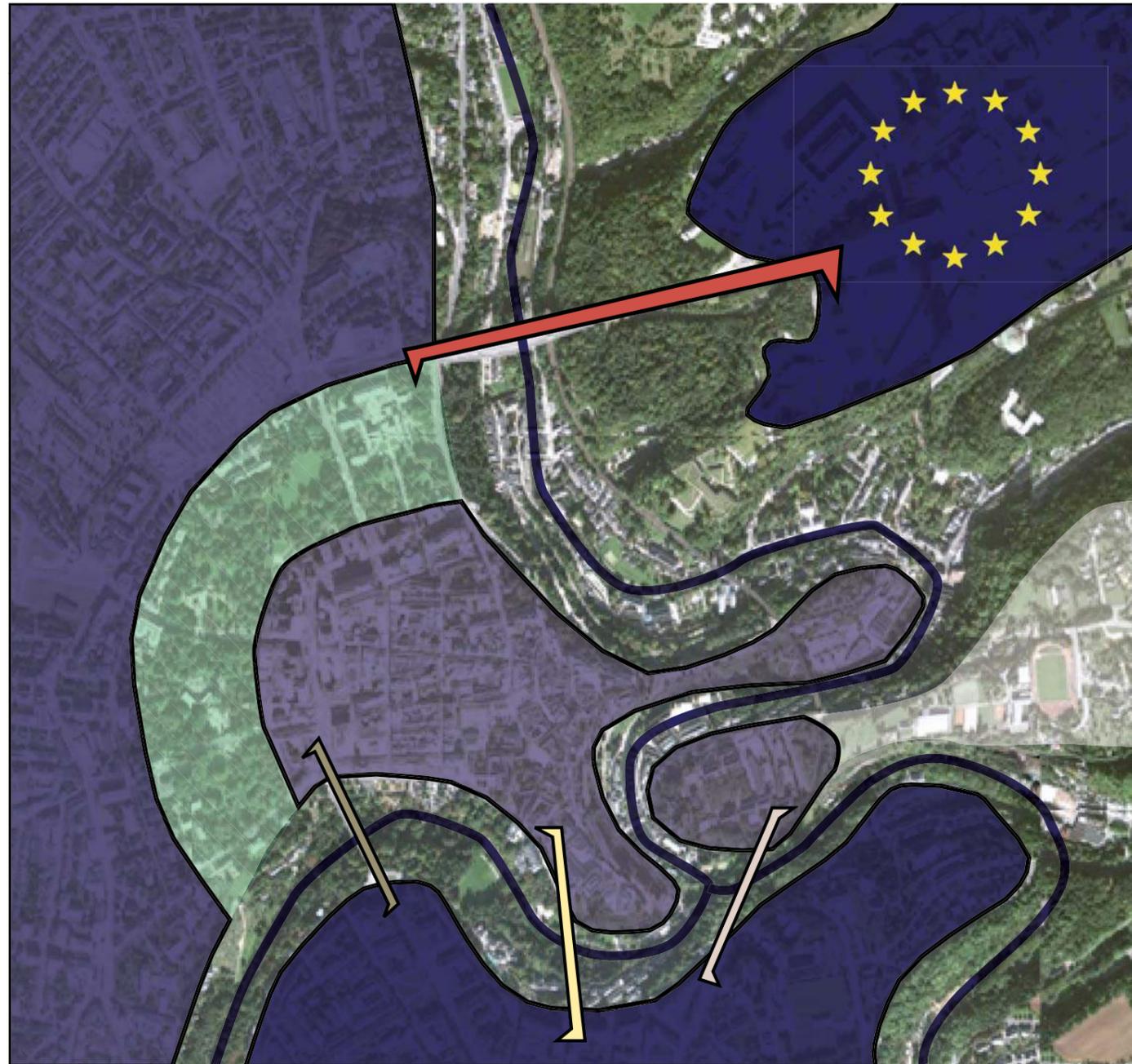


Le pont Grande Duchesse Charlotte

1966

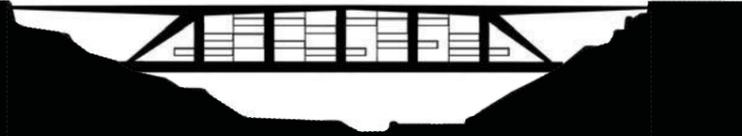


Développement de la ville : la conquête des plateaux

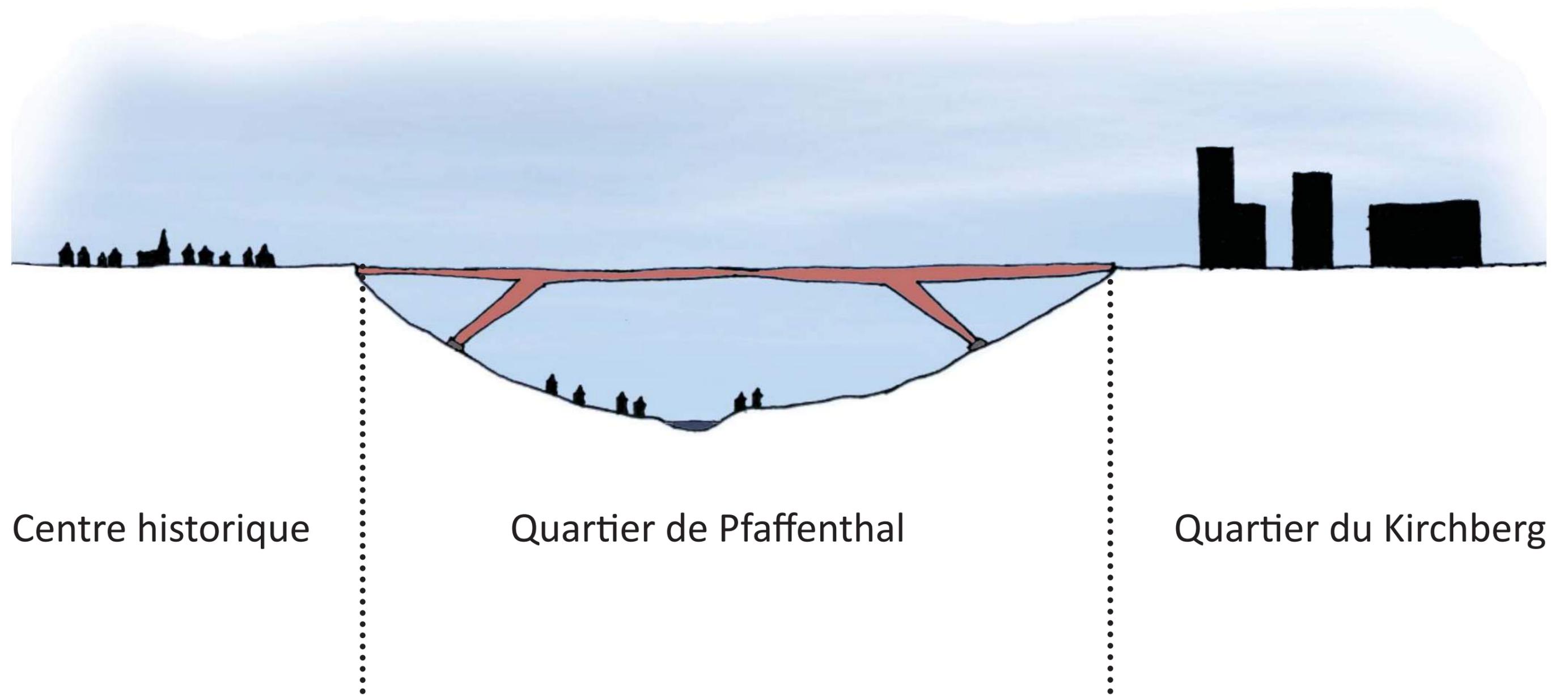


Le pont Grande Duchesse Charlotte

1966



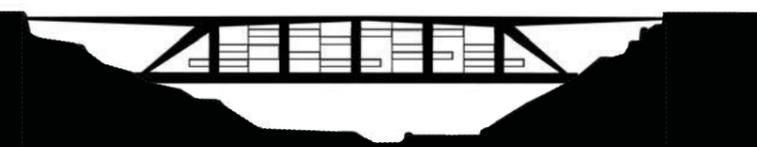
Interface entre trois quartiers symboliques de la ville



Centre historique

Quartier de Pfaffenthal

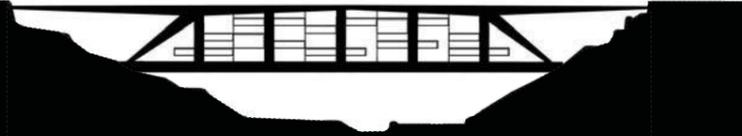
Quartier du Kirchberg



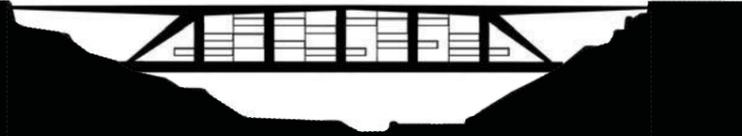
Le centre historique



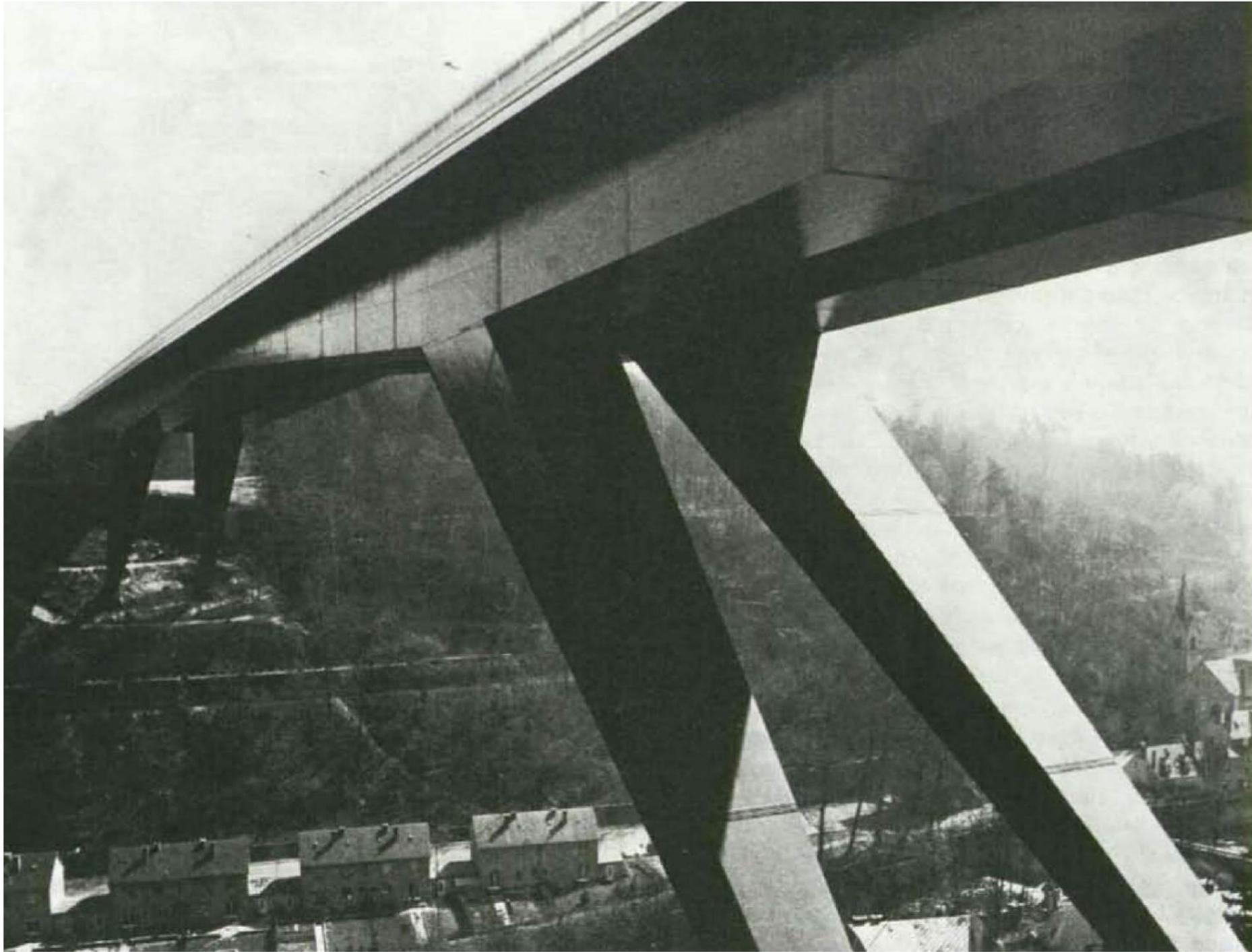
Le quartier de Pfaffenthal



Le plateau du Kirchberg

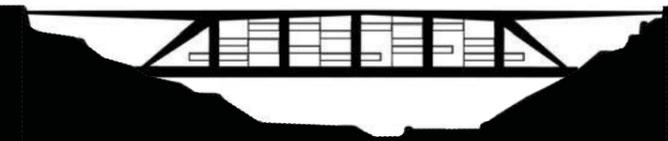
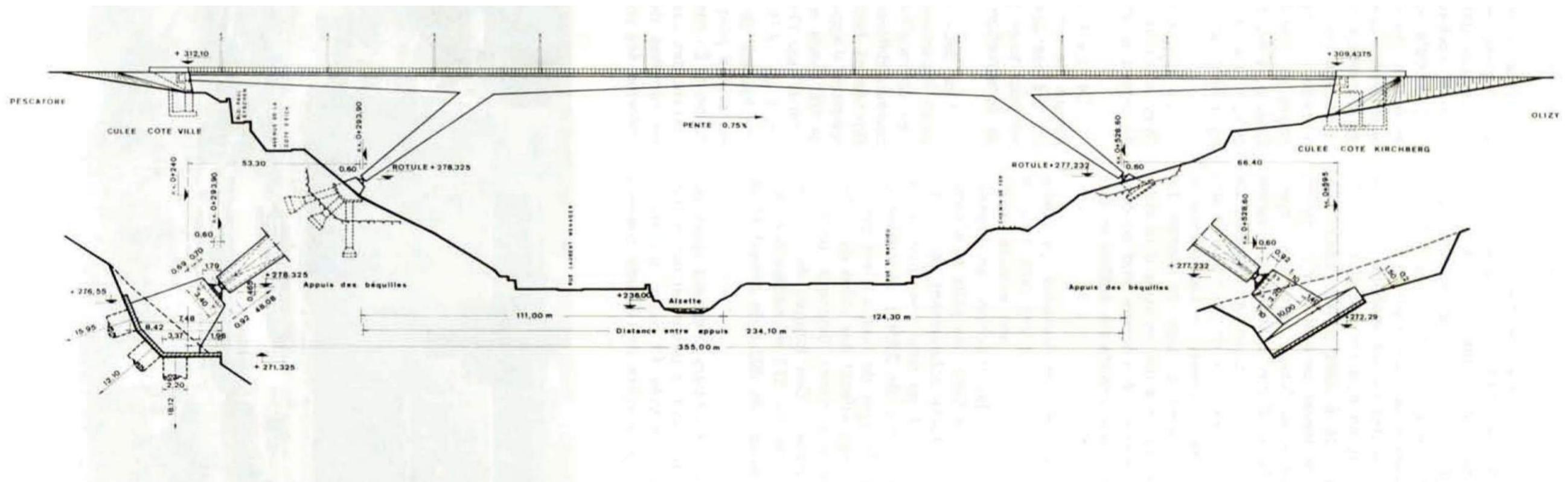


Le pont Grande Duchesse Charlotte

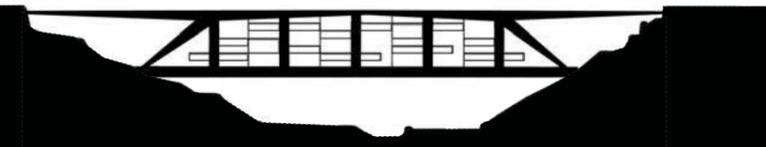
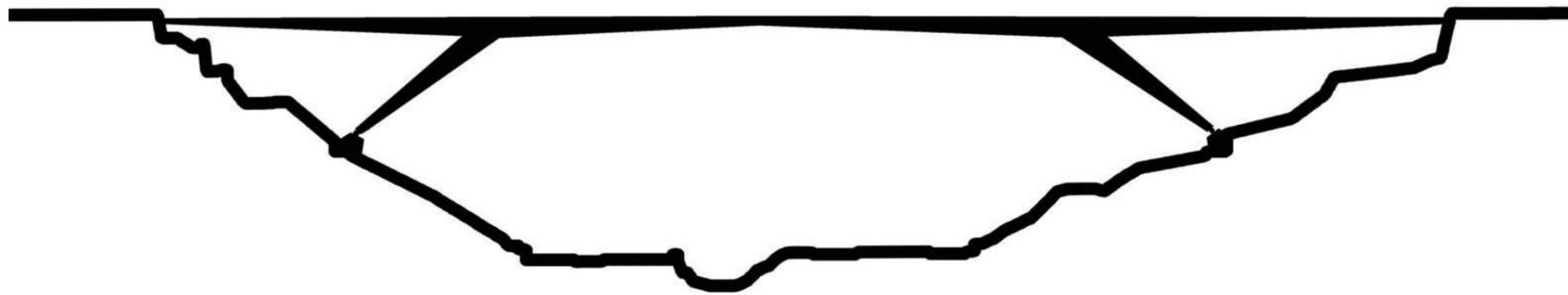


Le pont Grande Duchesse Charlotte

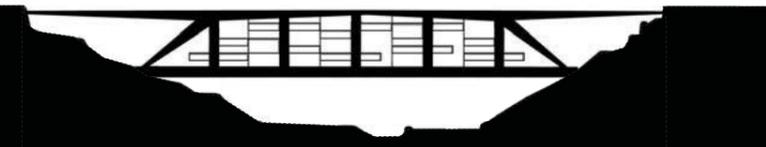
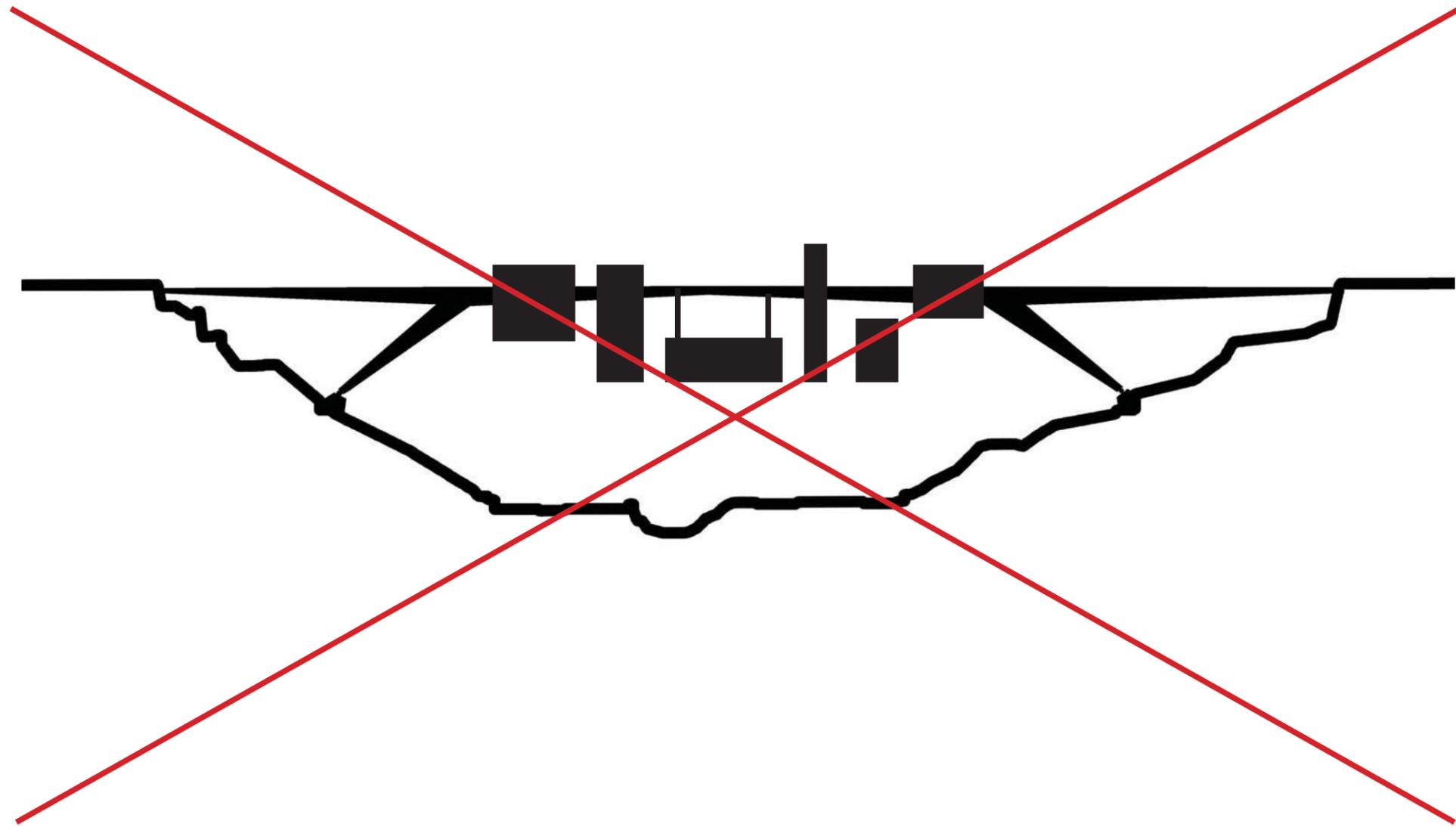
Vue générale



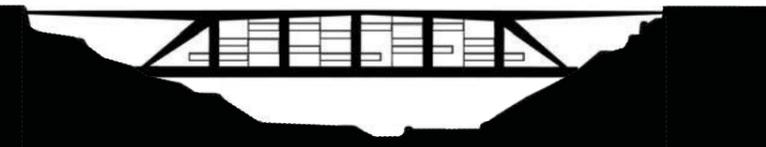
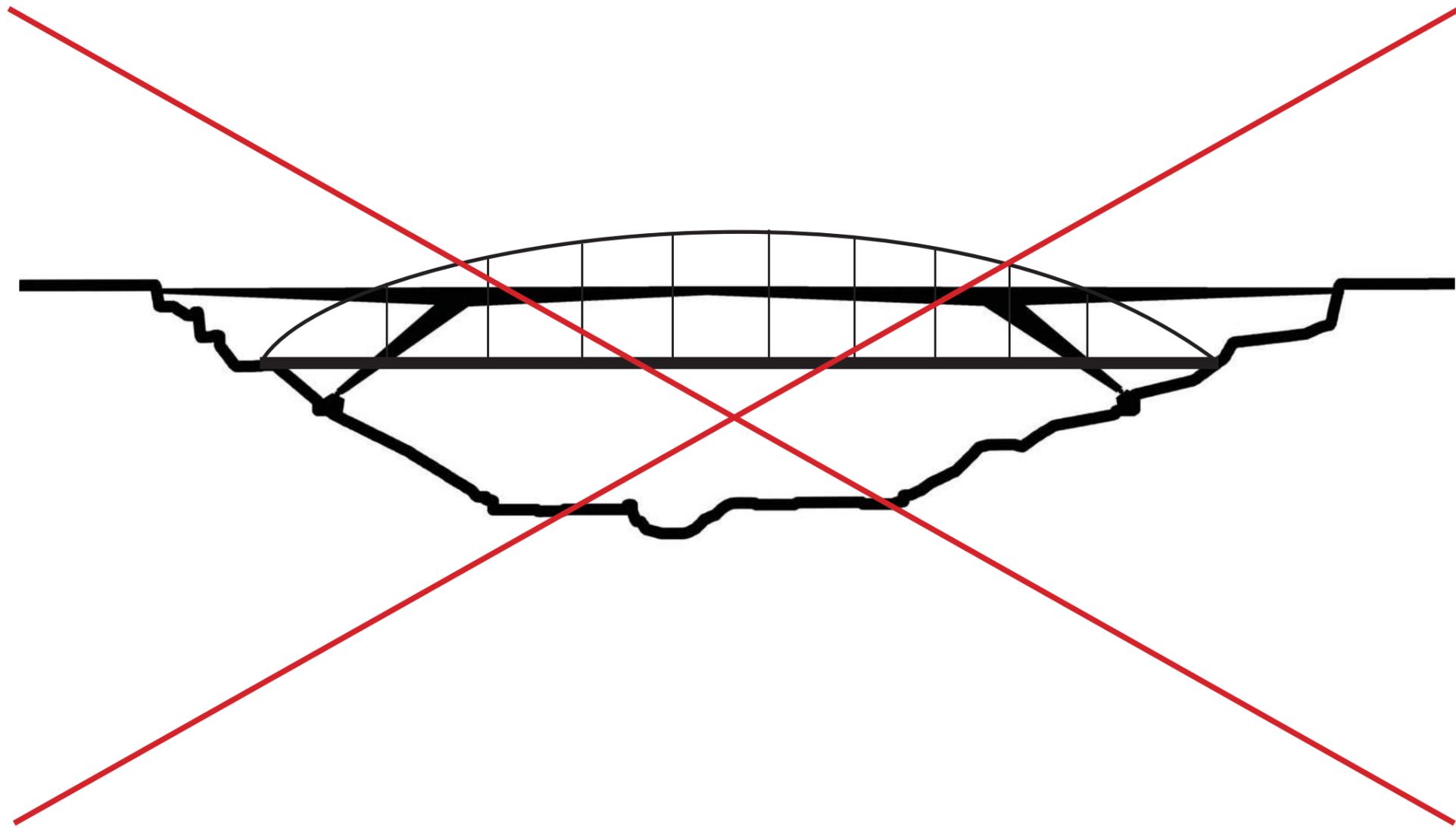
Pont existant : structure à béquille



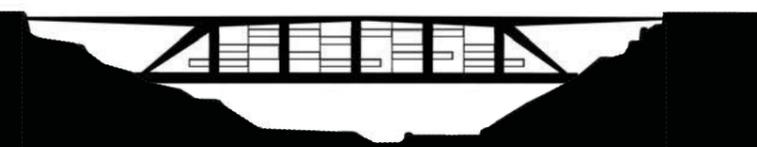
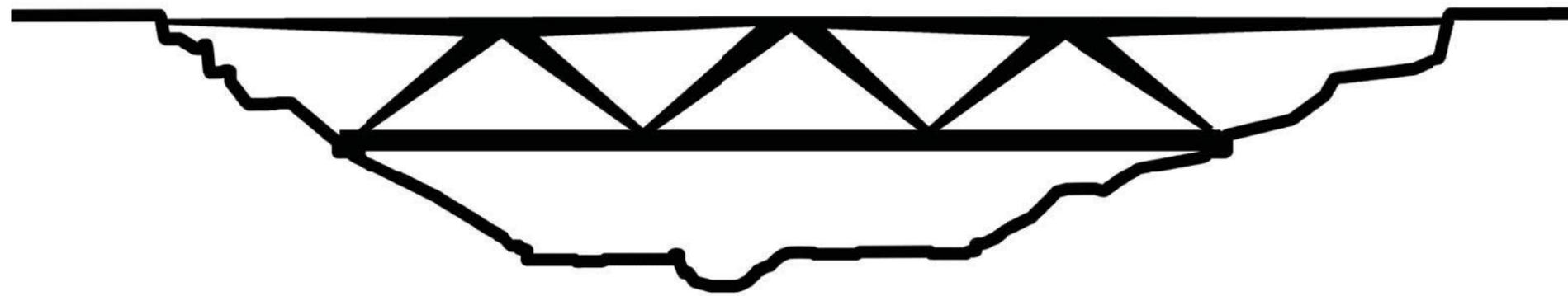
Impossibilité de solliciter directement le pont existant.



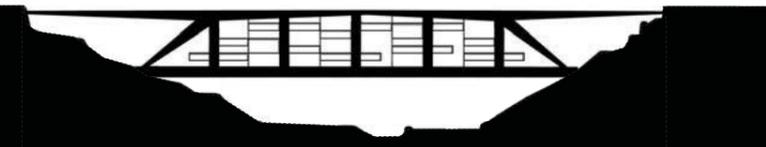
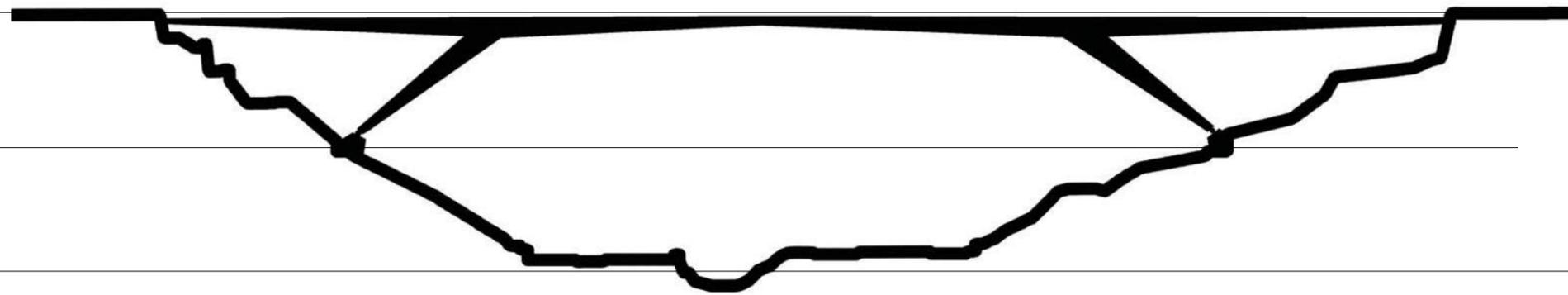
Dialogue difficile et non souhaité par l'ajout d'un pont.



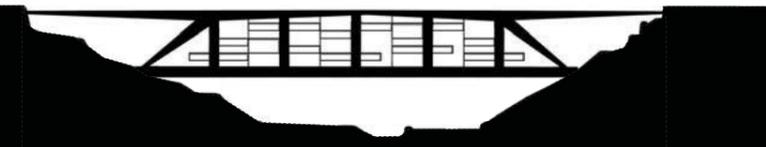
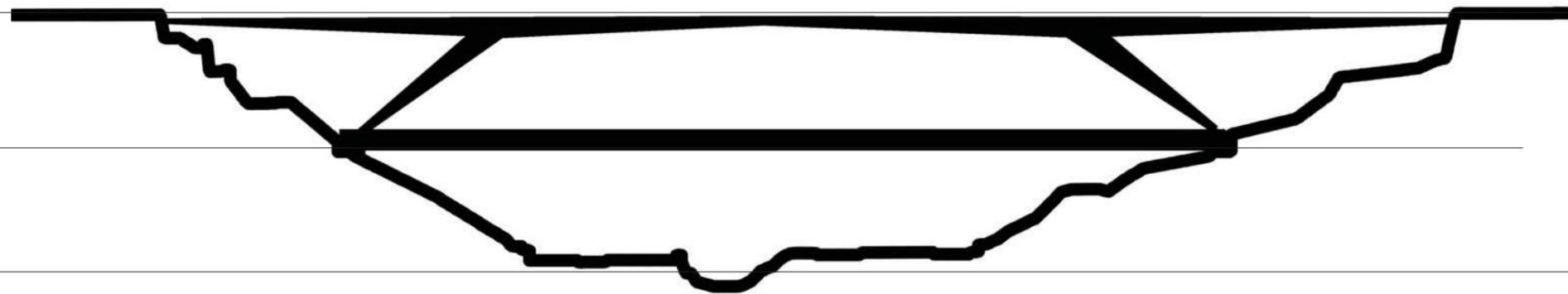
Transformation du pont en poutre à grande échelle.



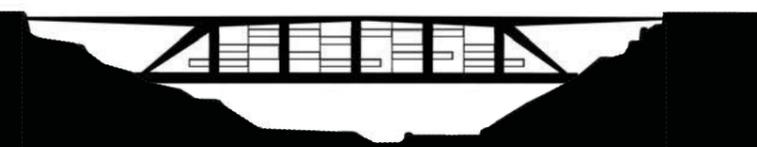
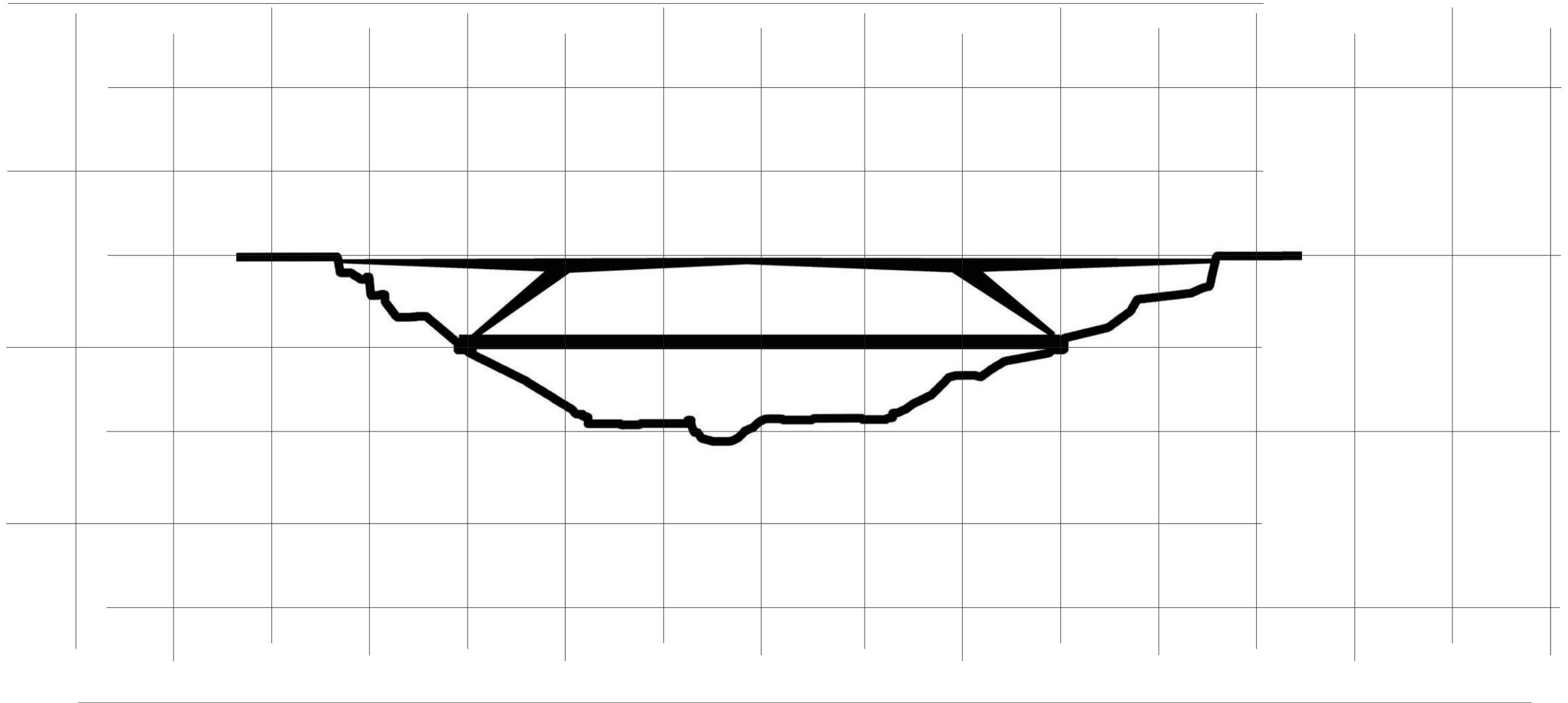
Evolution de la poutre.



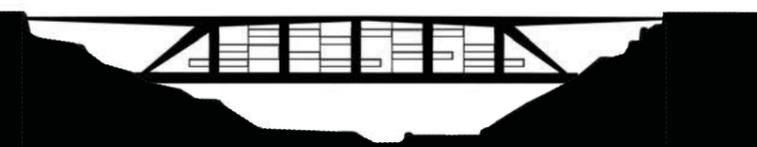
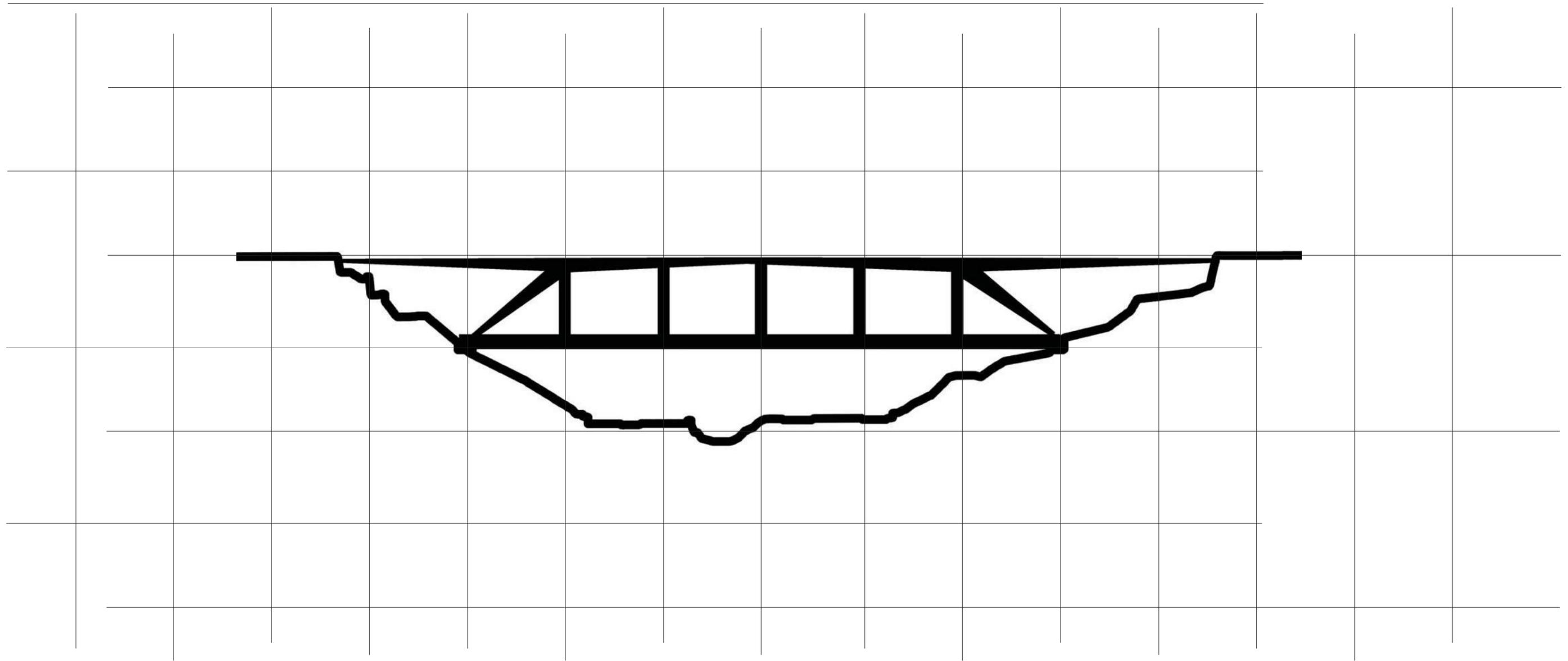
Evolution de la poutre : ajout d'un tablier bas.



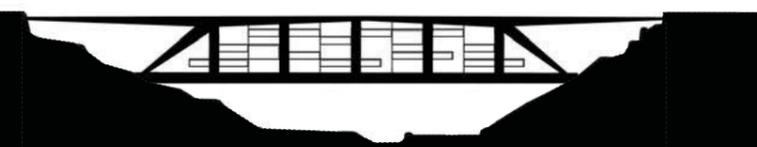
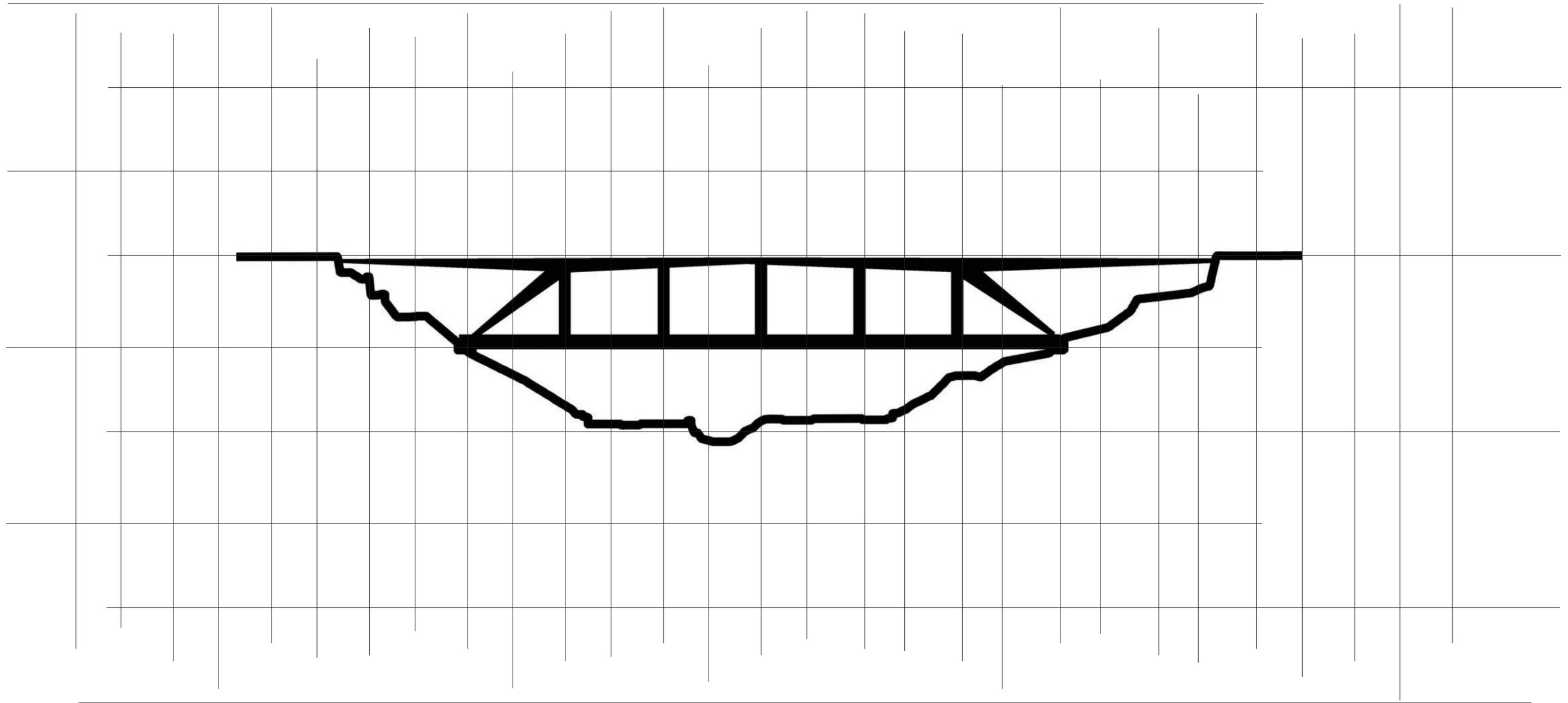
Evolution de la poutre : principe de Vierendeel à grande échelle



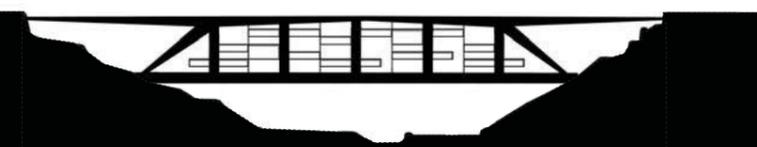
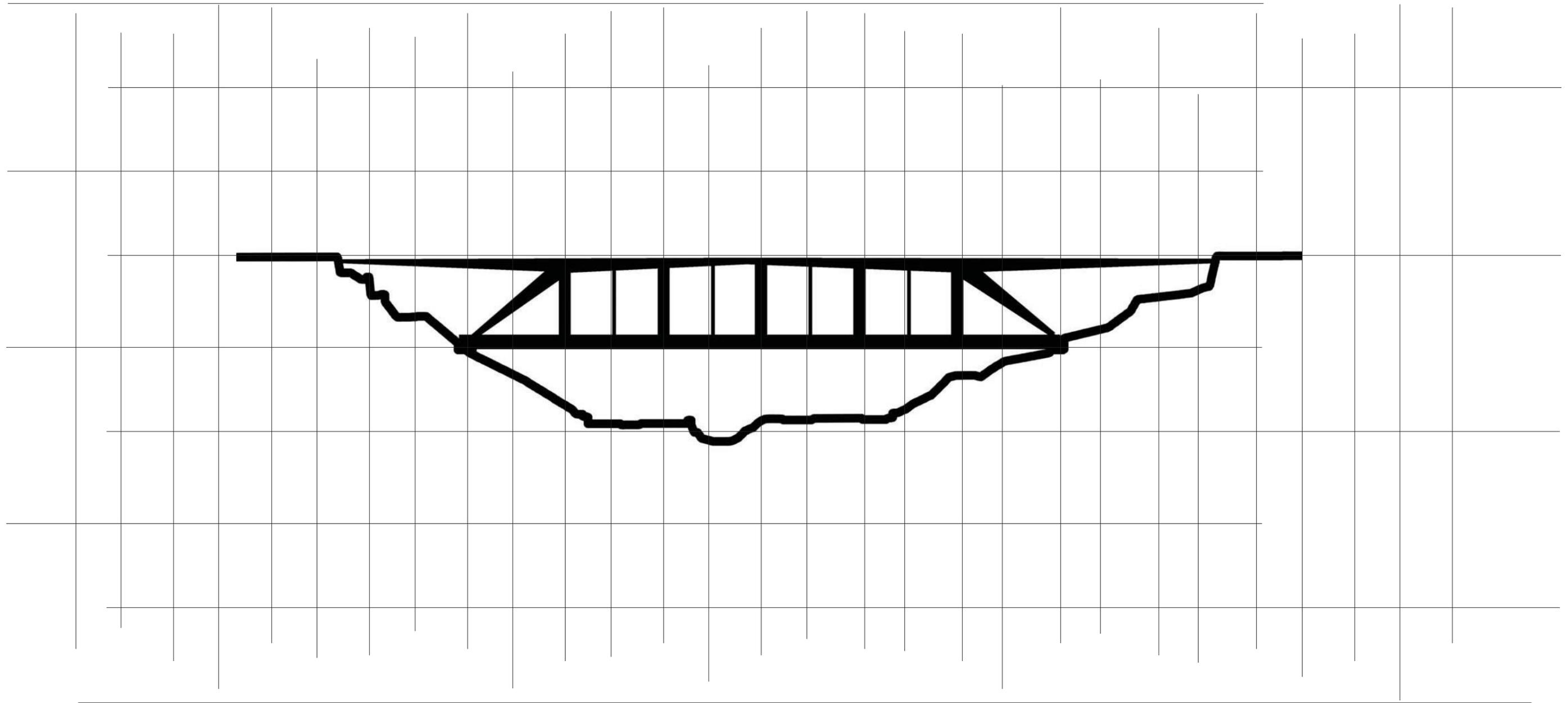
Evolution de la poutre : principe de Vierendeel à grande échelle



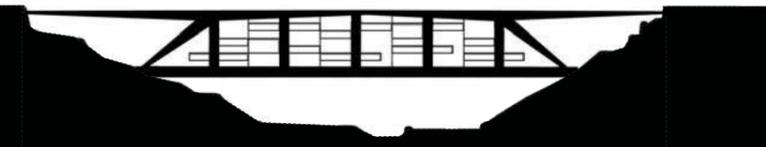
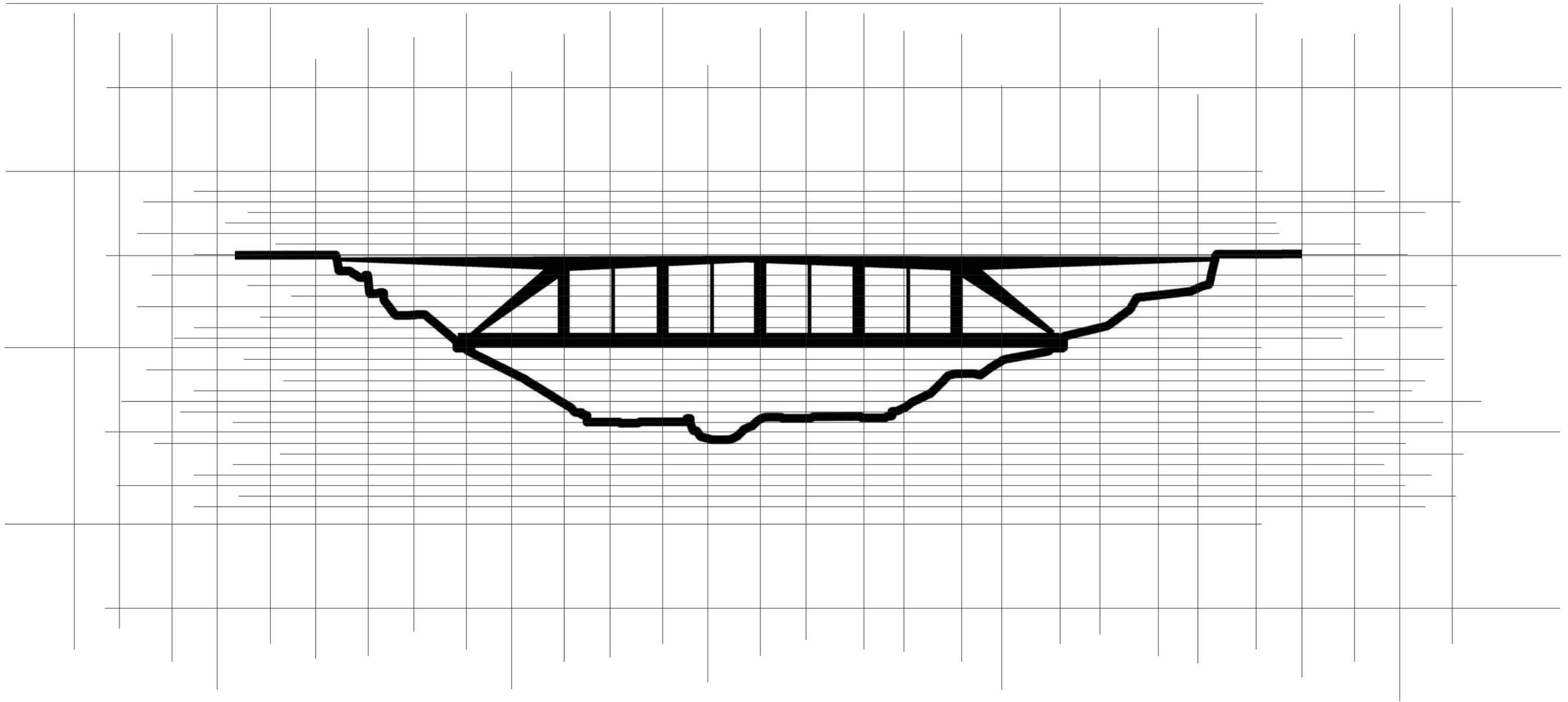
Evolution de la poutre : complexification structurelle



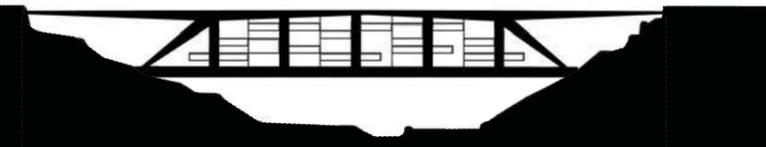
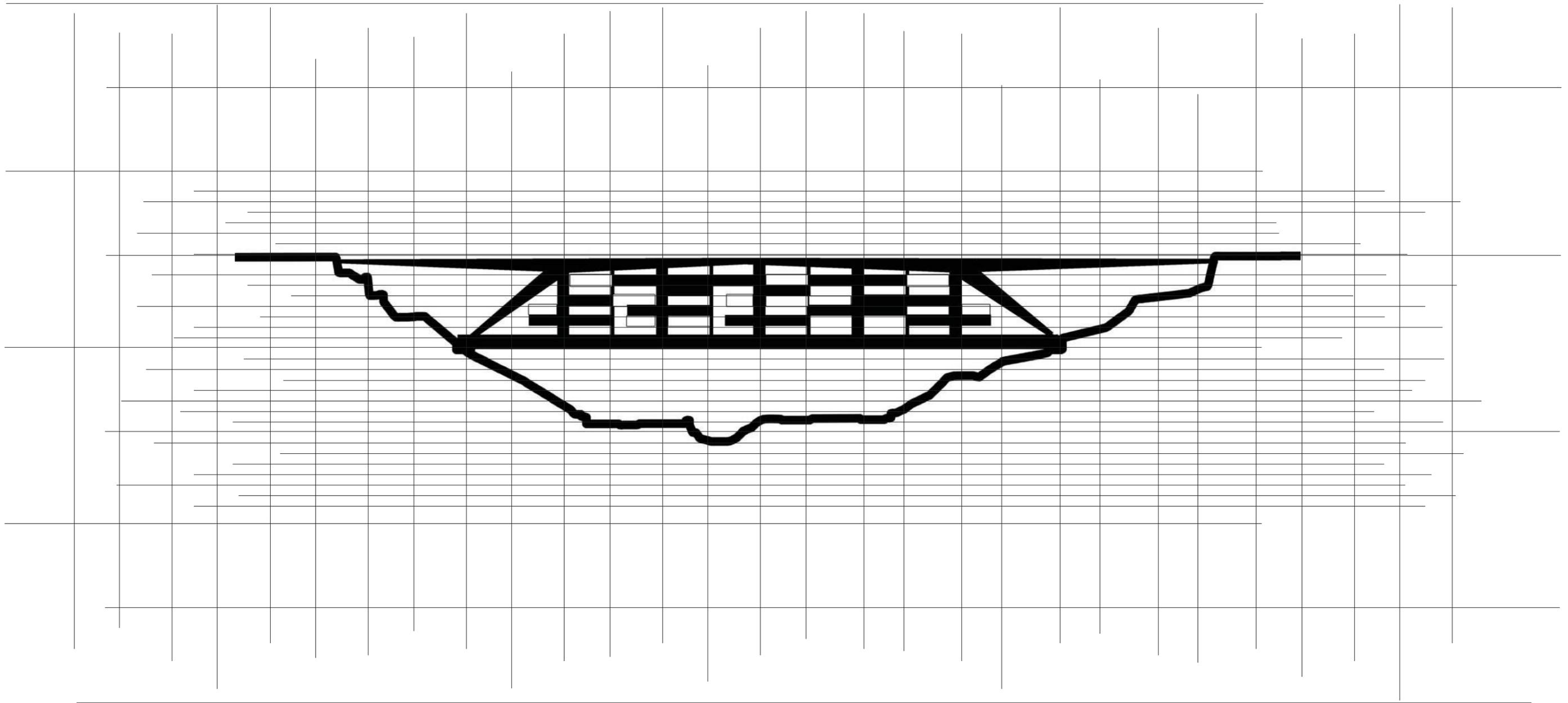
Evolution de la poutre : complexification structurelle



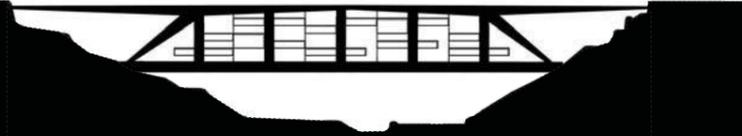
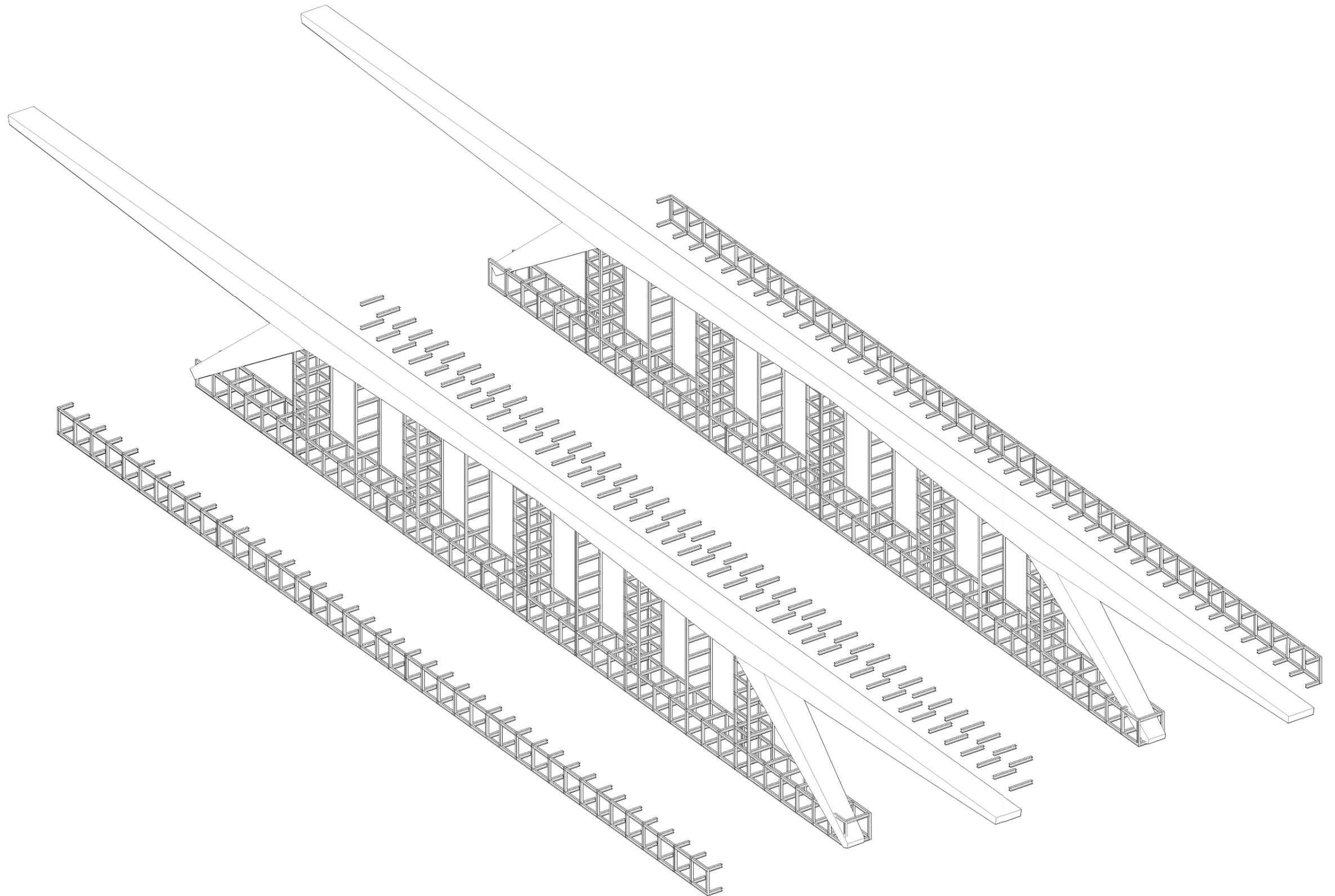
Insertion des espaces habités dans la poutre et stratification.

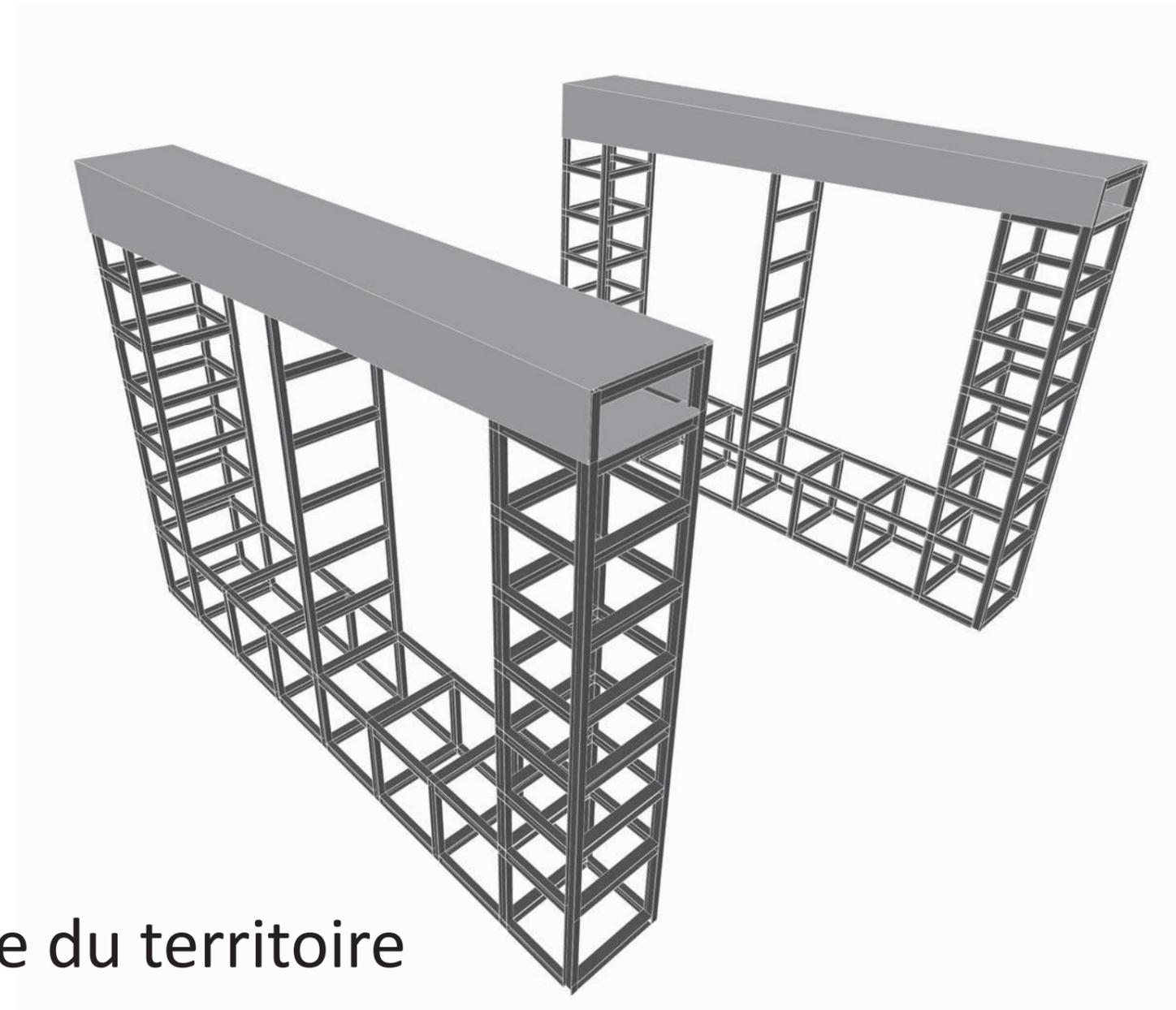
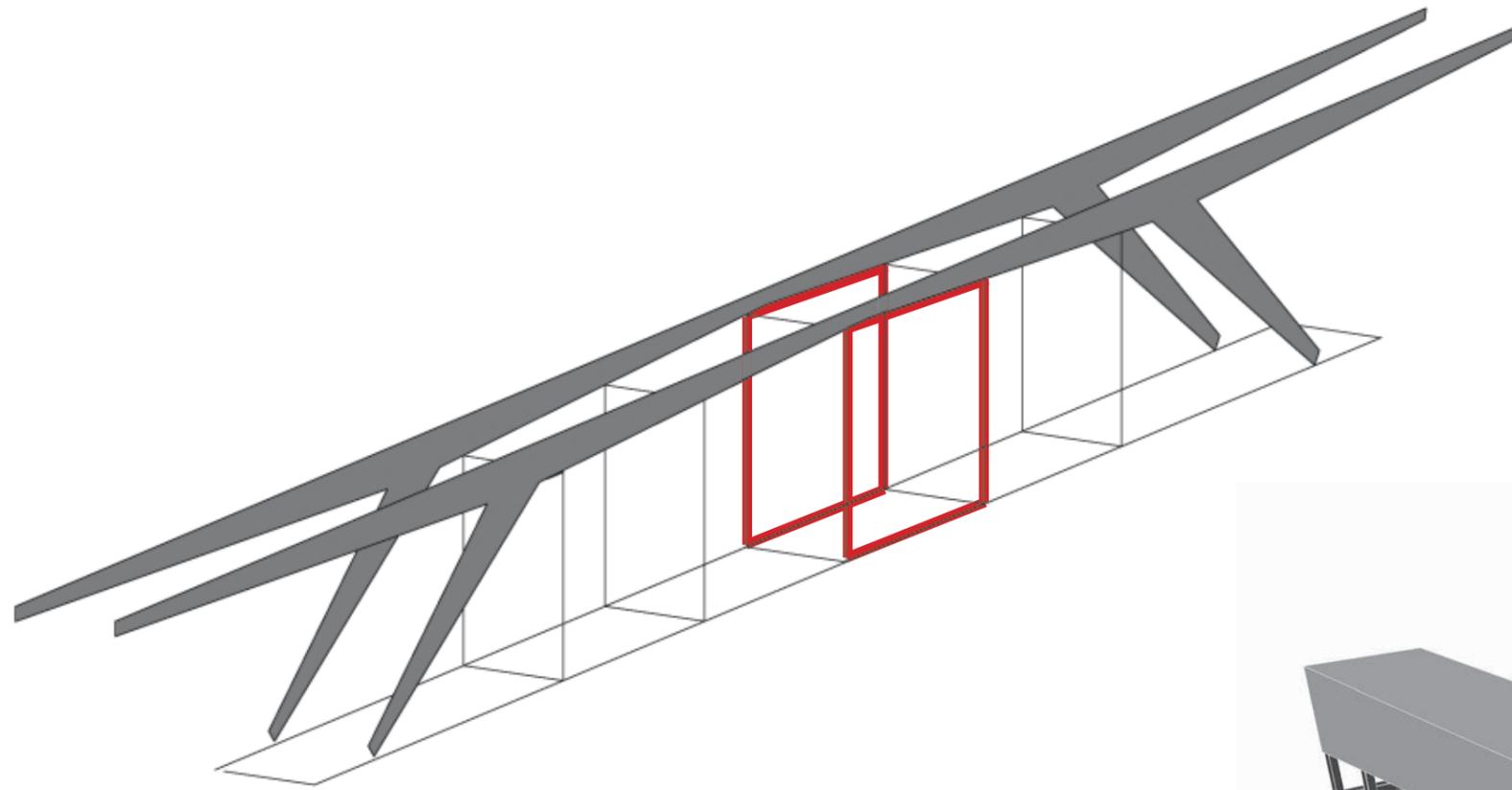


Insertion des espaces habités dans la poutre et stratification.

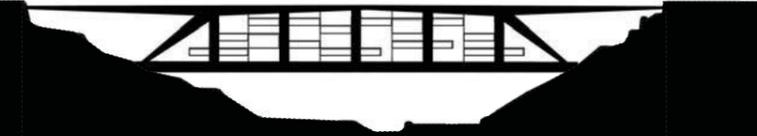


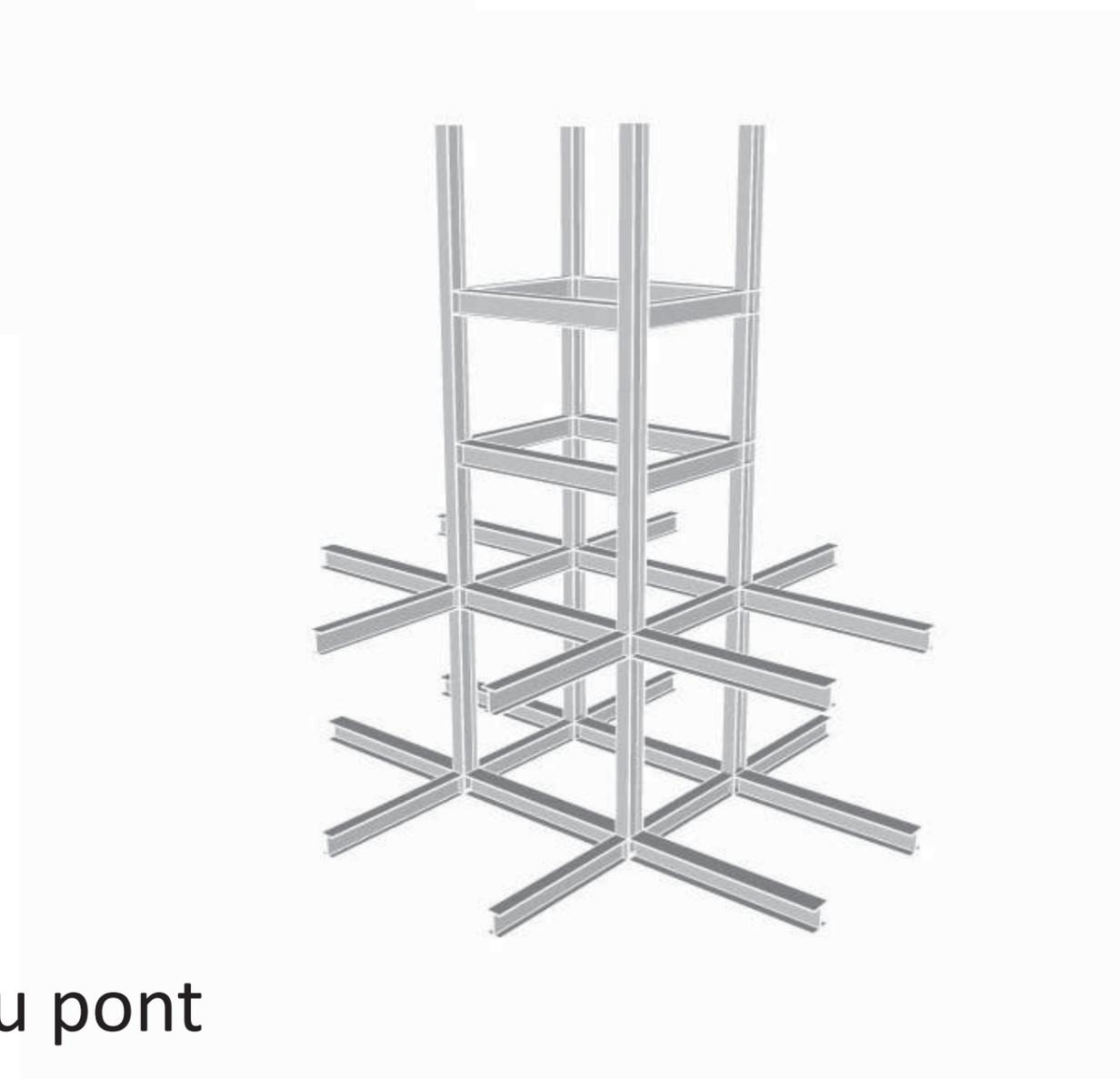
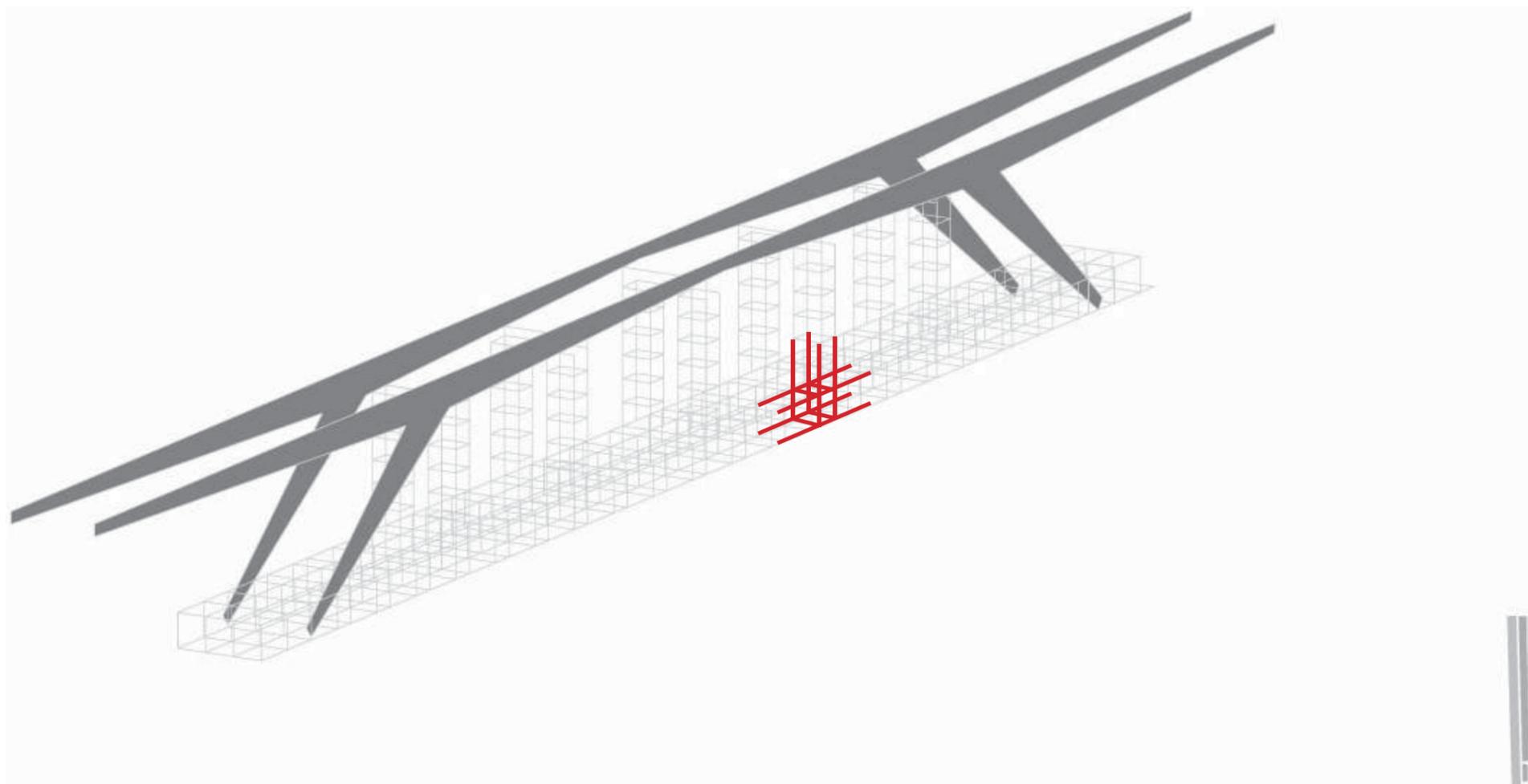
Axonométrie de la structure primaire



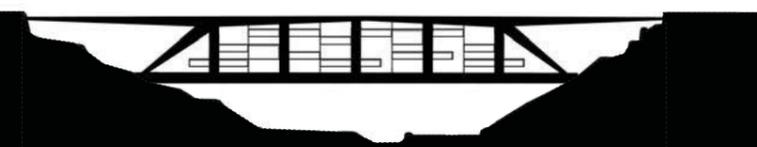


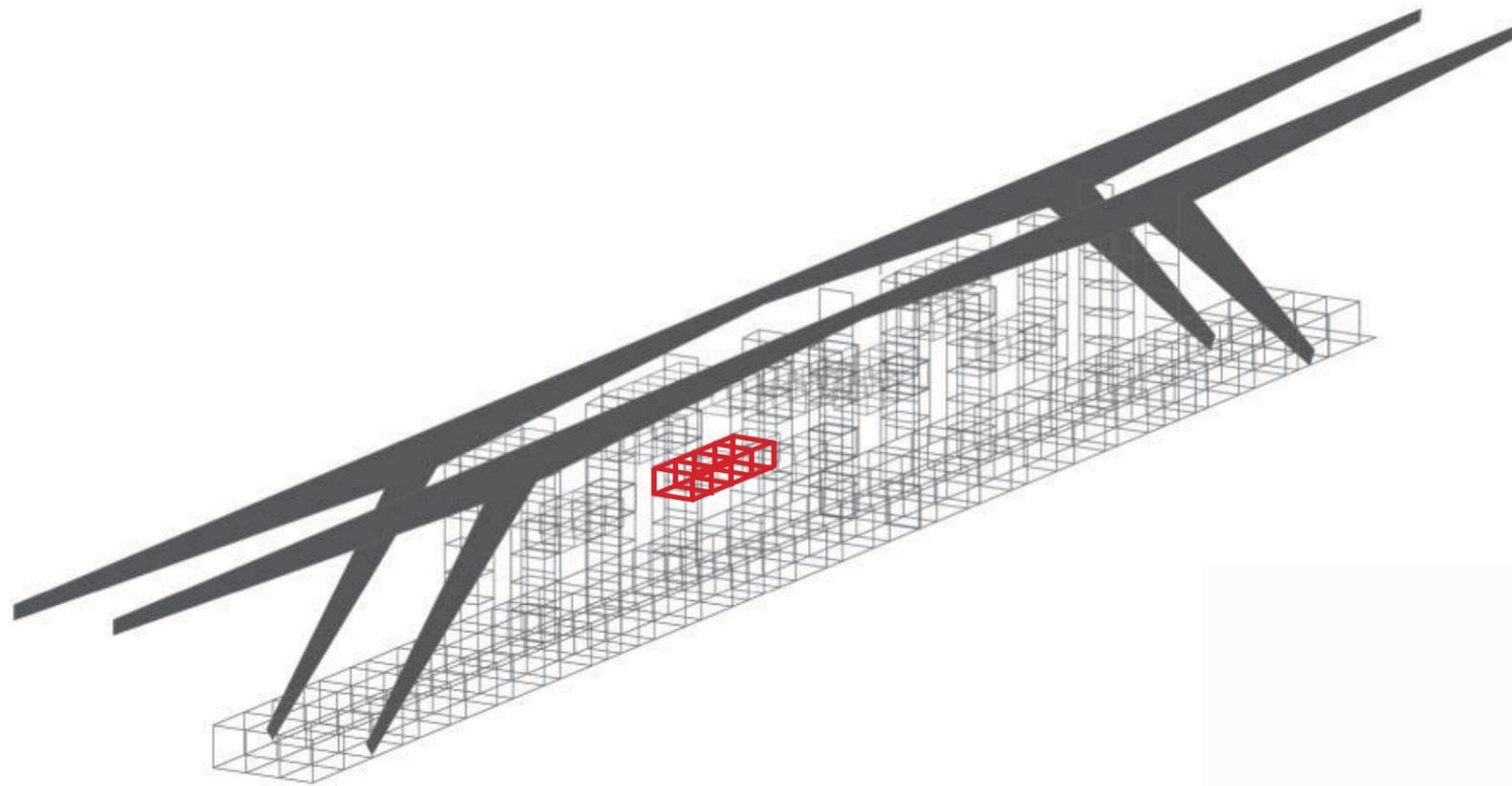
Le principe du Vierendeel à l'échelle du territoire



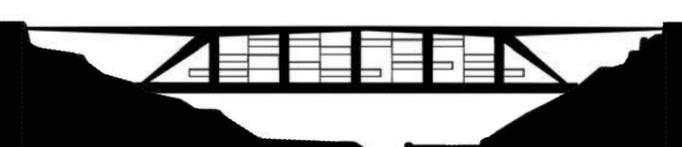


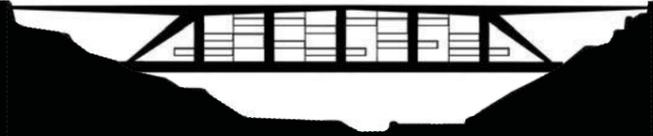
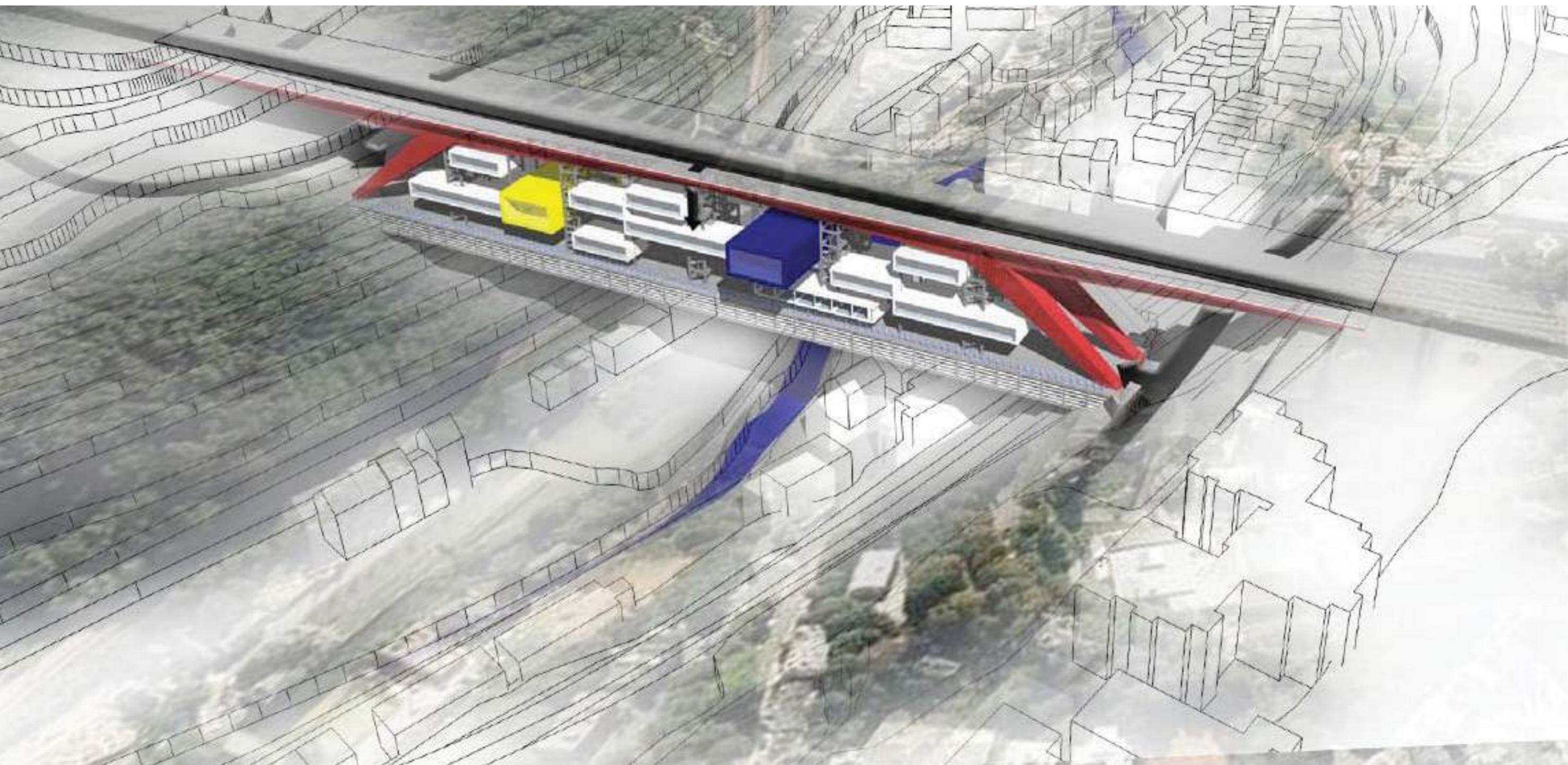
Le principe du Vierendeel à l'échelle du pont

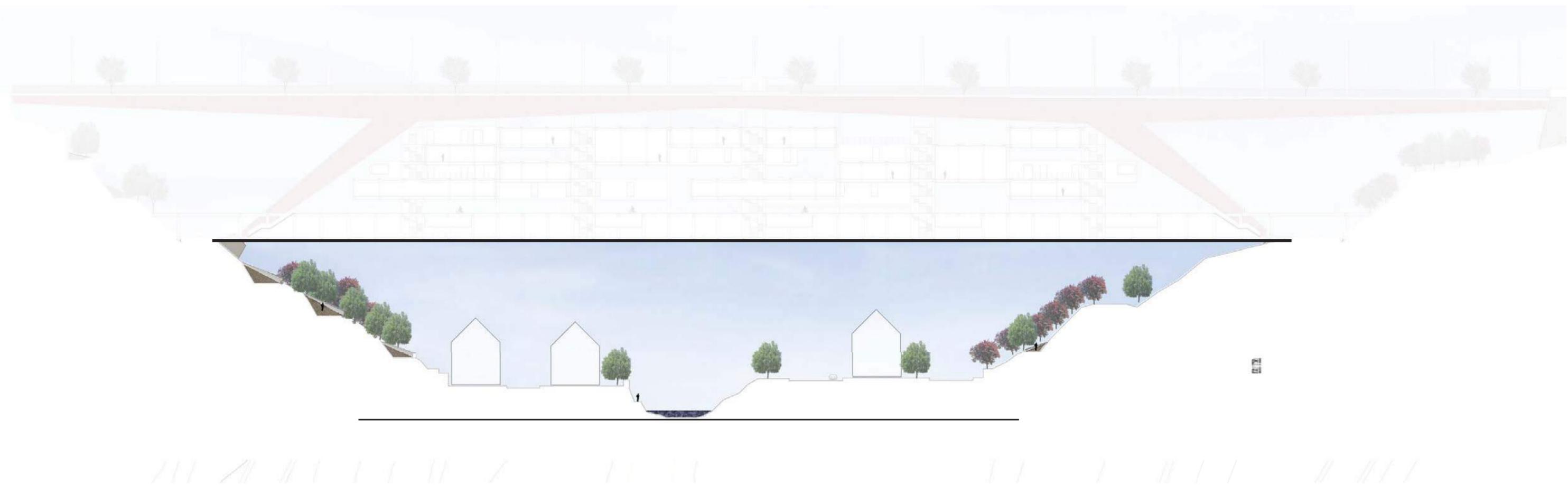




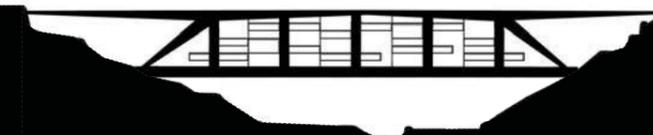
Le principe du Vierendeel à l'échelle des espaces habités

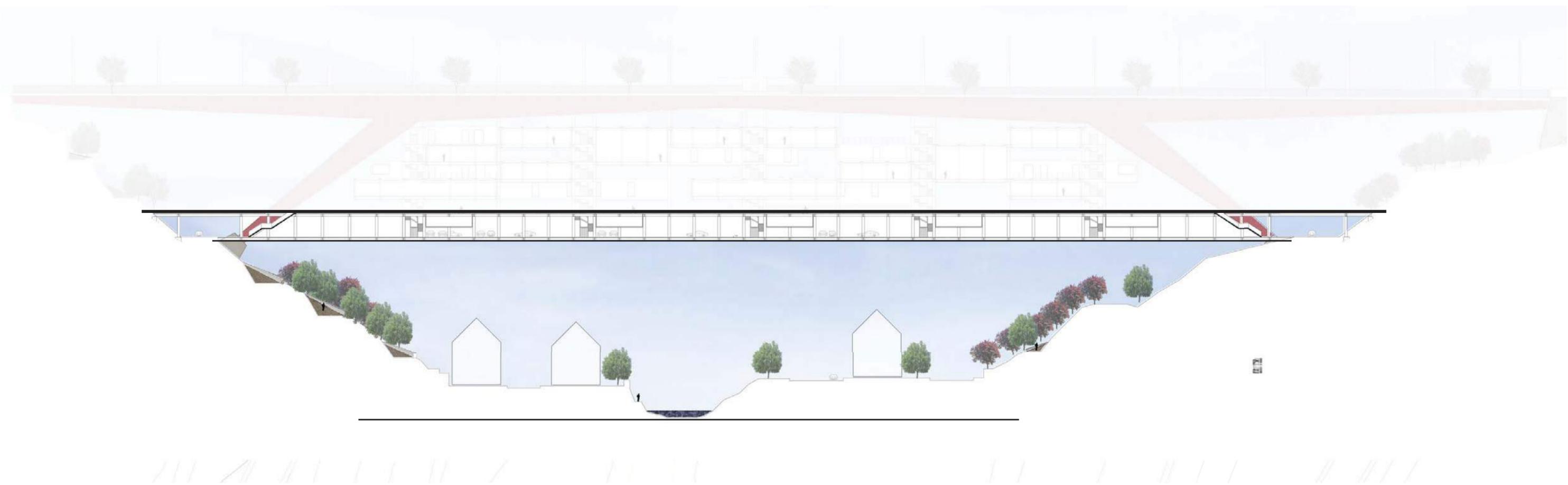




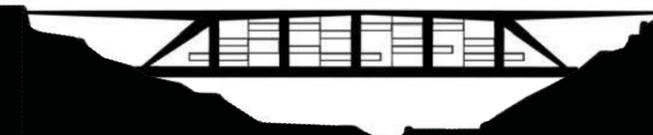


Les différentes strates urbaines : Le quartier du Pfaffenthal



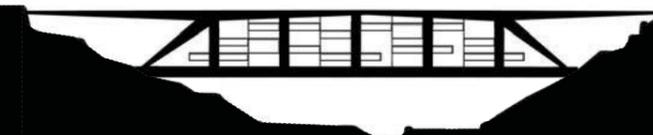


Les différentes strates urbaines : Le tablier bas.



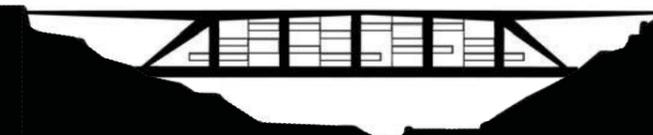


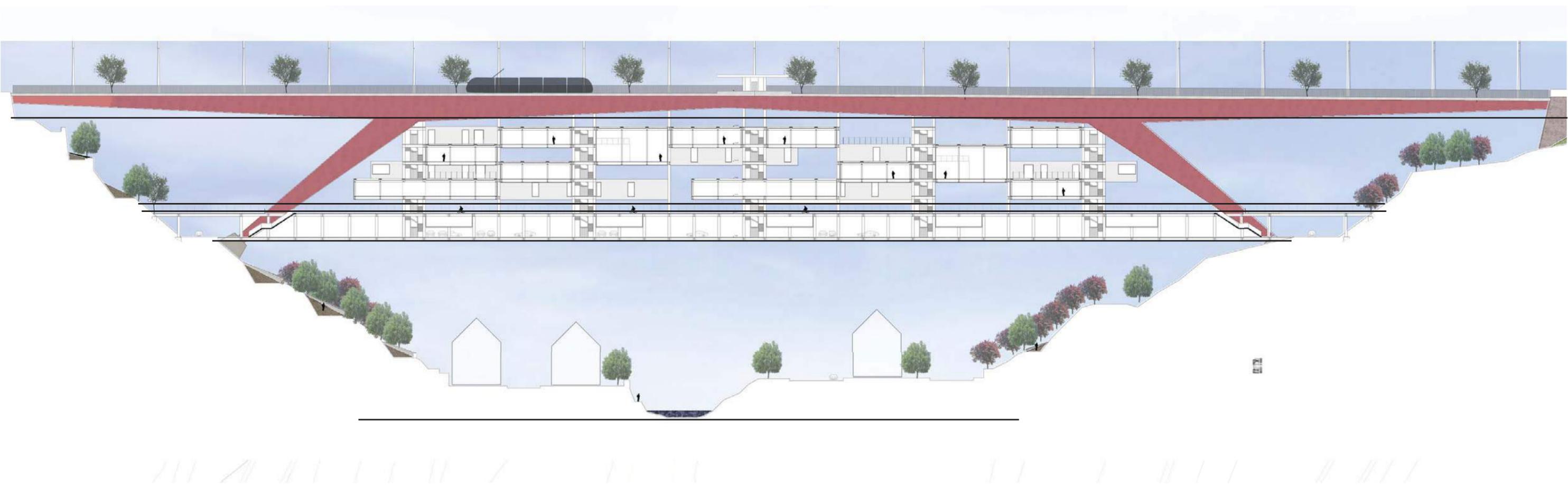
Les différentes strates urbaines : Rue piétonne et Jardins.



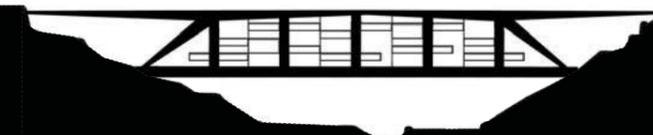


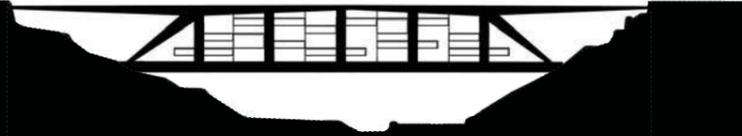
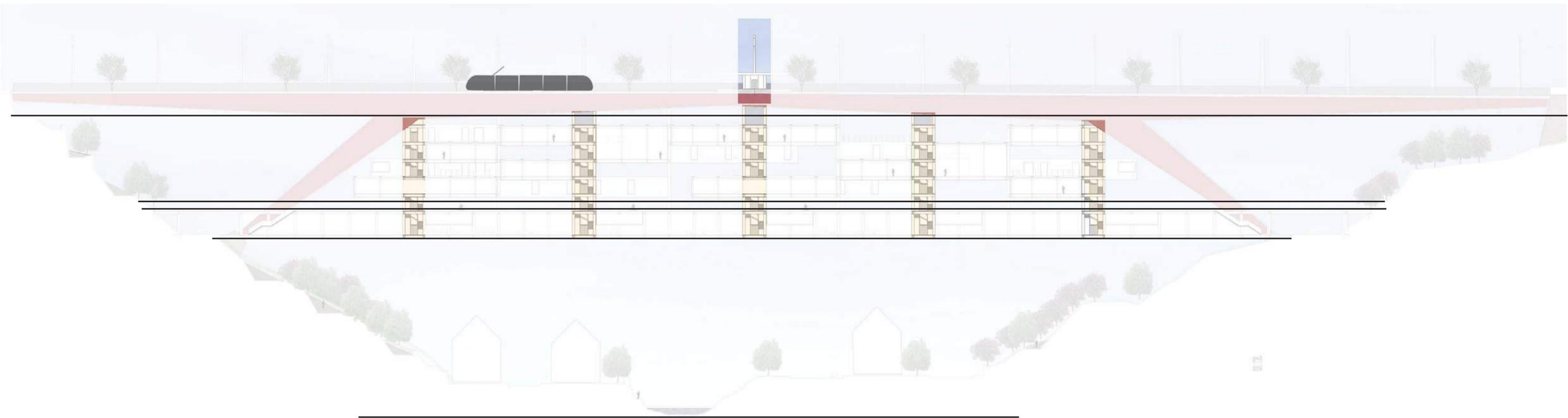
Les différentes strates urbaines : Logements et espaces publics

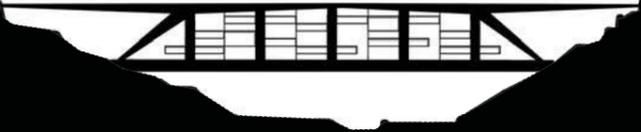




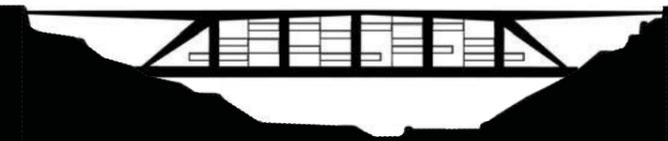
Les différentes strates urbaines : Boulevard.

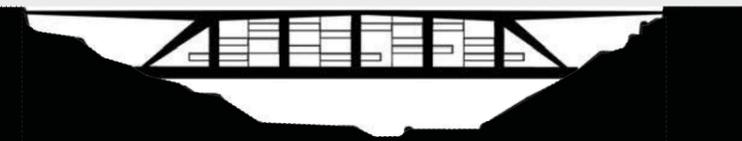
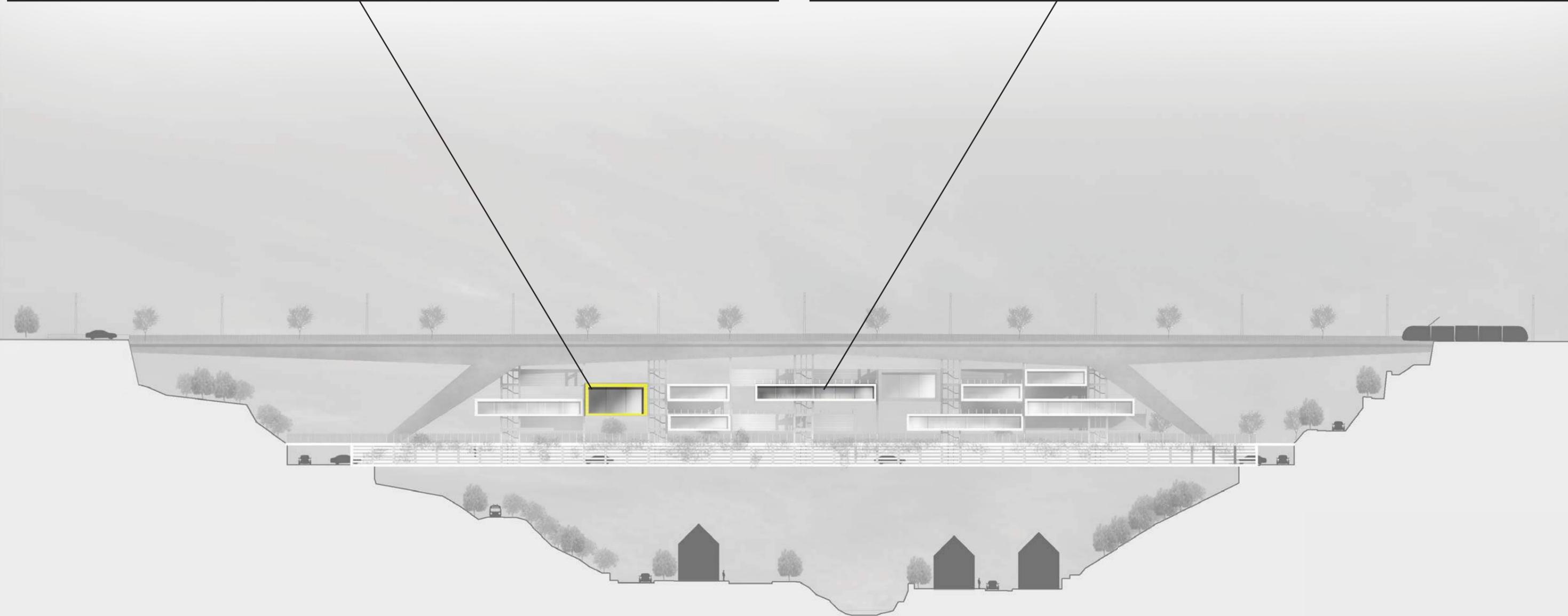
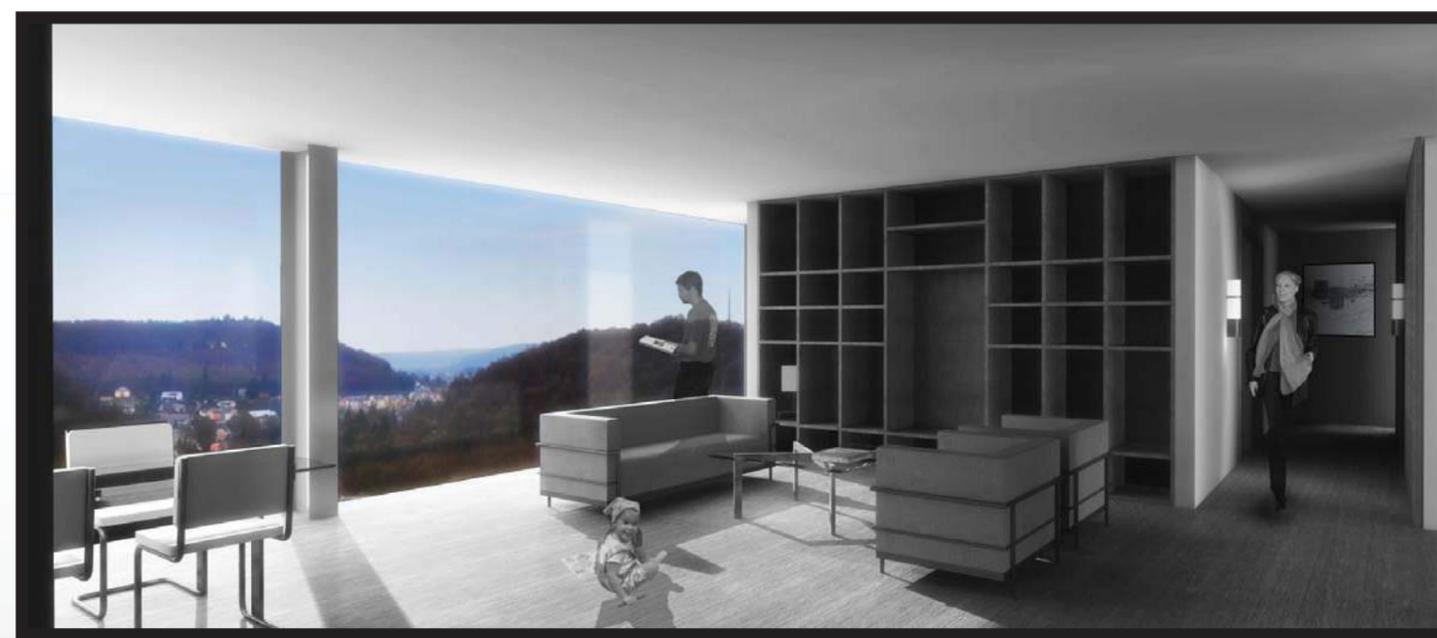


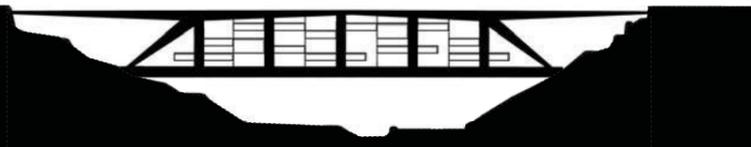
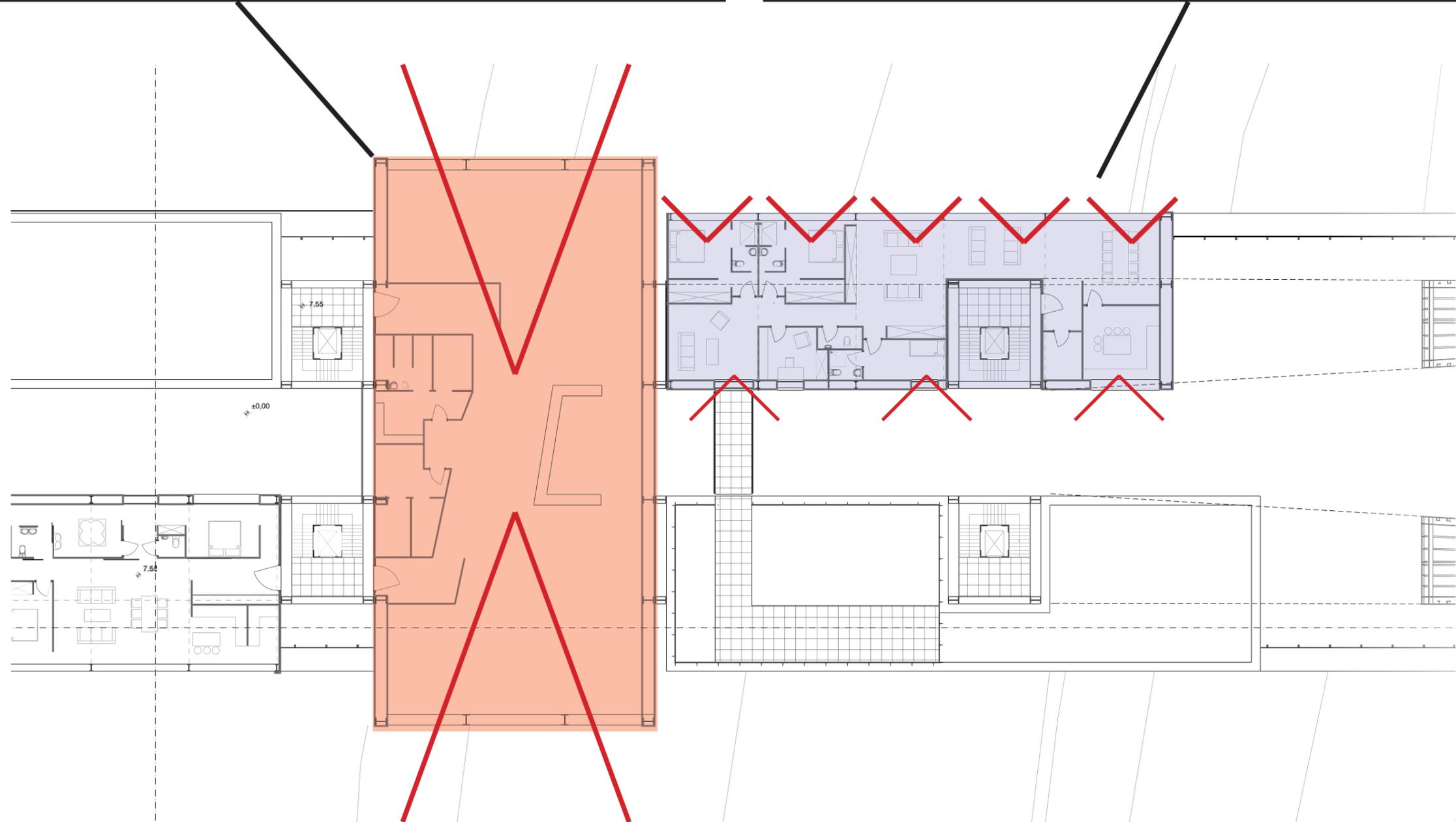
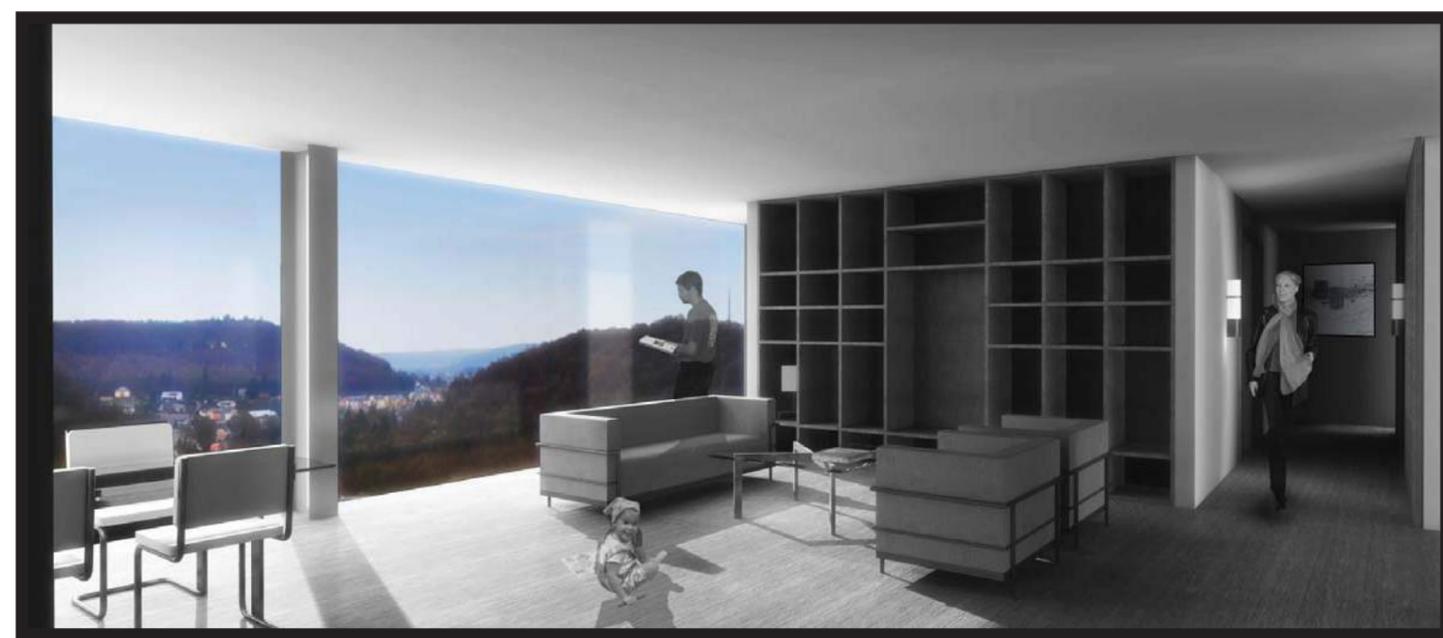




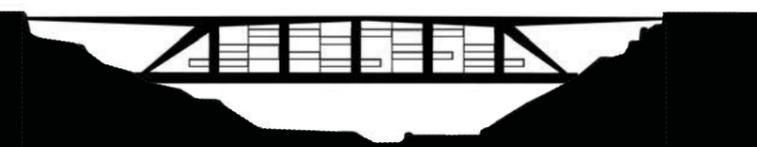
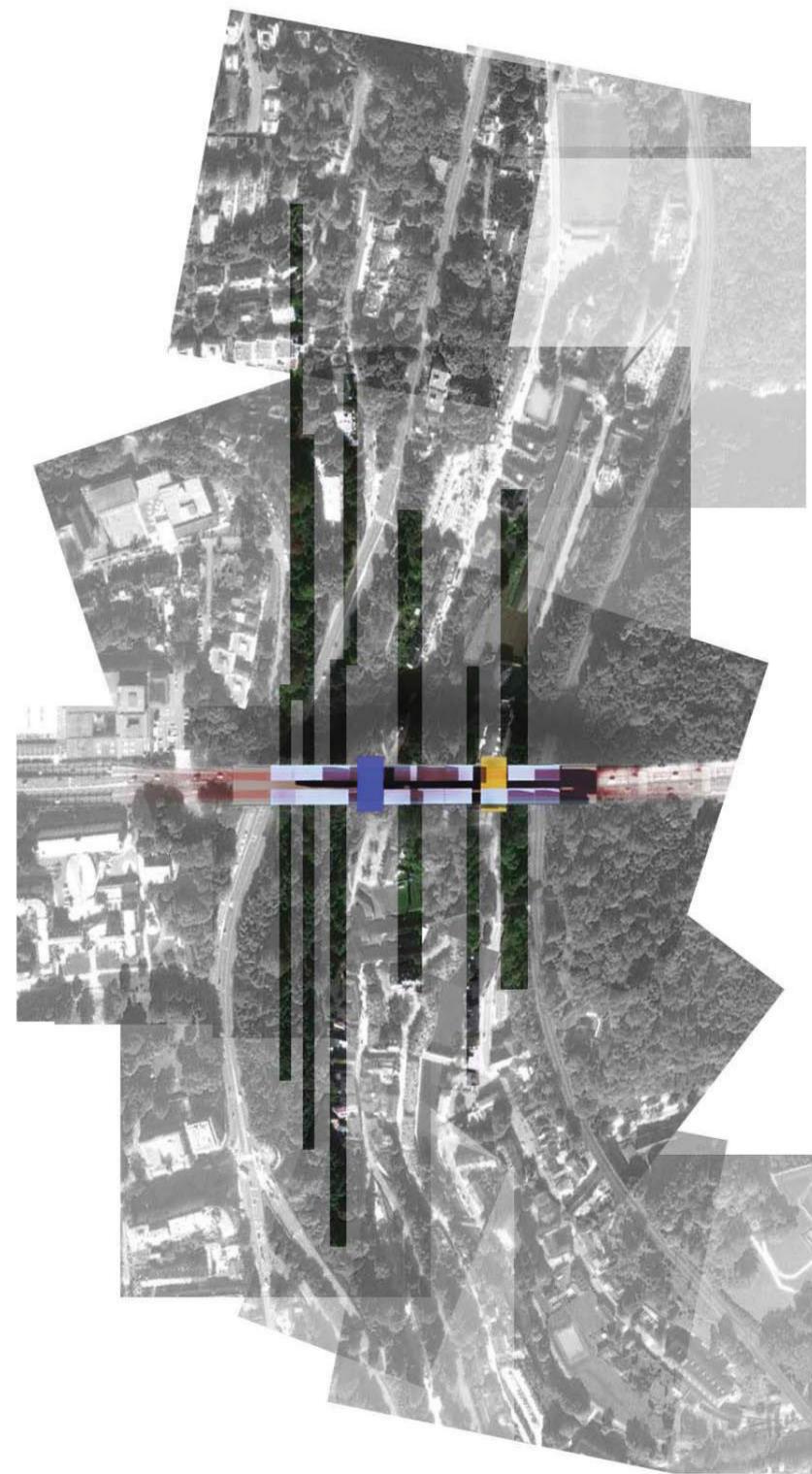


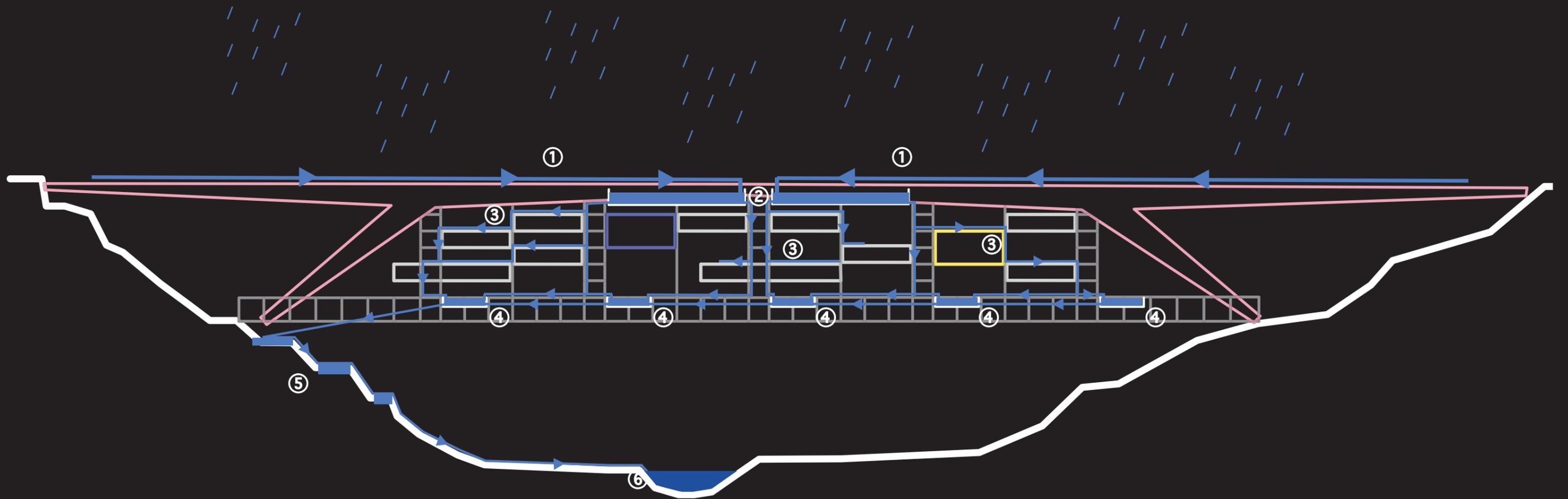






Percées visuelle et interventions dans le paysage





Systeme de recuperation des eaux pluviales.

