

Alluvial Disaster

*(Images of Alluvial Event Macul Ravine, 1993)*



Country / City ..... Santiago, Chile  
University / School ..... Pontificia Universidad Católica de Chile  
Academic year ..... 2019  
Title of the project ..... Landscape Reclamation Infrastructure in the Andean Foothills. Alluvial Park Macul Ravine  
Authors ..... Gonzalo Cortés Rodríguez

## TECHNICAL DOSSIER

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|---|--|
| Title of the project                    | Landscape Reclamation Infrastructure in the Andean Foothills. Alluvial Park Macul Ravine |
| Authors                                 | Gonzalo Cortés Rodríguez   |
| Title of the course                     | Landscape as Infrastructure for Risk Reduction and Urban Resilience                      |
| Academic year                           | 2019   |
| Teaching Staff                          | Osvaldo Moreno - Arturo Lyon   |
| Department/Section/Program of belonging | MAPA - Magíster en Arquitectura del Paisaje  |
| University/School                       | Pontificia Universidad Católica de Chile   |



Large hydraulic infrastructures have been built to prevent and mitigate damages produced by alluvial events that have affected a large part of the Chilean territory in recent years. Due to the effects of climate change, these events have grown not only its frequency but also its intensity. However, these constructions have been design and thought from Engineering only, resulting monofunctional structures segregated from urban, social and ecological dynamics.

After a deep look into an alluvial event taken place in the Quebrada de Macul in Santiago in 1993 — an alluvial ravine in the Andean foothills of the city — this project sees and works with the place as a multiplatform territory discussing the role of intermittent water in urban public space as a resilient response to the ecological system in the city including and resolving problems such as vulnerability and risk through a landscape architecture project. The proposal is an organized decanted pool system located in unused sites, recognizing the alluvial character of the the foothill and the Piedmont landscape transforming its monofunctional condition to one that consolidates a new dynamic space mediating and strengthening the urban and ecological relationship between Santiago and its geography.



# CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

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Barcelona September 2020  
SCHOOL PRIZE

Water system

Pavements

Paths

Vegetation



# Project Plan: Alluvial Park Macul Ravine

## PROGRAM LIST

- 01. EDGE PATH
- 02. RAVINE PATH
- 03. DIKE PATH
- 04. PEDESTRIAN PATH
- 05. BIKEWAY
- 06. ACCESS SQUARE 1
- 07. ACCESS SQUARE 2
- 08. PARKING
- 09. RIBERA ACCESS RAMPS
- 10. PARK ACCESS RAMPS
- 11. CONSERVATION AREA
- 12. VIEWPOINTS
- 13. HONJONADA EXPLANADE
- 14. GRADERY
- 15. FOREST VEGETATION
- 16. URBAN VEGETATION
- 17. RIVERBANK VEGETATION
- 18. WATER FEATURES
- 19. ROCK WALLS
- 20. RAINWATER COLLECTOR GARDEN
- 21. BUILDINGS
- 22. FAIR AREA
- 23. ADMINISTRATION

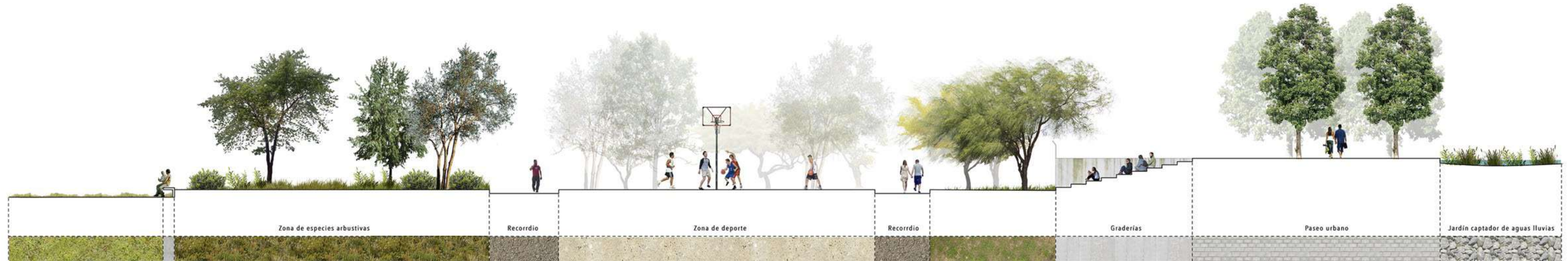


## Decanter Pools



Scale  
100 200 300





Adaptable space

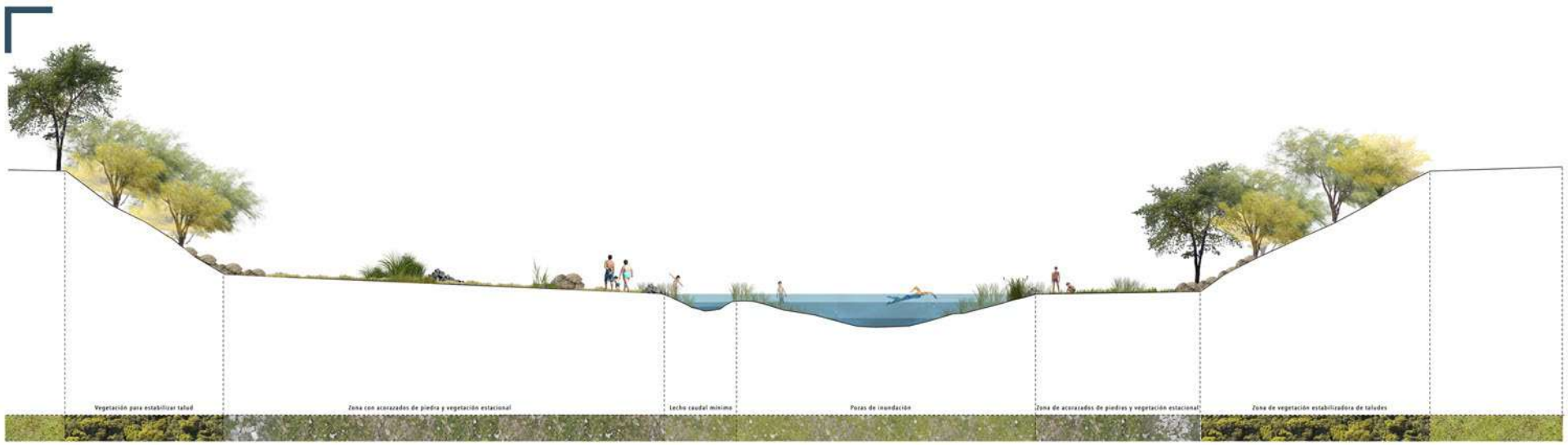


Hondonada: Public Event (1)

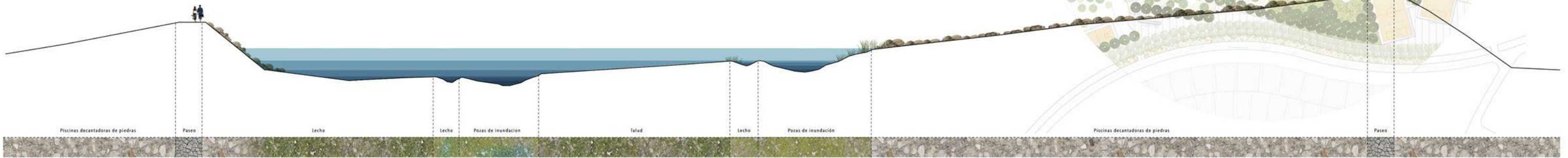


Hondonada Image: Alluvial Event (2)





Section: Decanter Pool



Section: Decanter Pool



Ecological Recovery



Water Recovery

