A MULTIPLE PERSPECTIVE VIEW   on Cañada Real Madrid

Isabel Driessen
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A MULTIPLE PERSPECTIVE VIEW on Cañada Real Madrid

01. PERSONAL FACINATION
02. CAÑADA REAL MADRID
03. MAPPINGS
04. PROBLEM STATEMENT
05. SITE PROPOSAL
06. DESIGN STRATEGY
07. DESIGN DEVELOPMENT
08. FINAL DESIGN
NAVIGATION TECHNOLOGY

1. <19\textsuperscript{th} century>
   - Navigation by recognizable points and routes

2. 20\textsuperscript{th} century
   - Navigation by signs

3. 21\textsuperscript{th} century
   - Navigation by interactive maps
INTERACTIVE MAPS

1. <19th century
   Navigation by recognizable points and routes

2. 20th century
   Navigation by signs

3. 21st century
   Navigation by interactive maps

Single perspective experience  →  Multiple perspective experience
INTERACTIVE MAPS

Single perspective experience
INTERACTIVE MAPS

Multiple perspective experience
MULTIPLE PERSPECTIVE MODEL STUDIES

Different perspectives give different spatial readings
Different perspectives give different spatial readings
Single perspective
Double perspective
MULTIPLE PERSPECTIVE MODEL STUDIES

Multiple perspective
EFFECTS OF THE MULTIPLE PERSPECTIVE VIEW ON MOVEMENT OF PEOPLE
EFFECTS OF THE MULTIPLE PERSPECTIVE VIEW ON MOVEMENT OF PEOPLE

Being directed to use a different route

Route suggested by Google maps
Informal routes become formal
EFFECTS OF THE MULTIPLE PERSPECTIVE VIEW ON MOVEMENT OF PEOPLE

Alternative routes become available
Exploring new routes

- **Taken route**
- **Route suggested by Google maps**
- **Informal paths**
Wandering around without getting lost

- **Red**: Taken route
- **Blue**: Route suggested by Google maps
- **Green**: Informal paths
A multiple perspective view influences our decision of route and leads to exploration of new routes and areas.
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INTRODUCTION
Cattel trail: Spain - Madrid - Cañada Real Galiana
CAÑADA REAL
03. MAPPINGS
SPATIAL READING FROM DIFFERENT PERSPECTIVES

GOOGLE MAPS VIEWS

EYE-LEVEL VIEWS

Similar spatial readings

Diverse spatial readings
INVESTIGATION POINTS
MULTIPLE PERSPECTIVES

A. Personal perspective

B. Personal perspective

C. Personal perspective

360° streetview

Sattelite map

45° map
MUPTIPLE PERSPECTIVE COLLAGES

A.

B.

C.
SPATIAL ANALYSIS

Multiple perspective experience

Different spatial conditions abstracted

Heights ground and route
SPATIAL ANALYSIS

Multiple perspective experience

Views related to height

Spatial conditions related to height
The perspective is defined by

- HEIGHT
- VIEW
- SPACE

Views related to height

Spatial conditions related to height
SPATIAL ANALYSIS

Conditions abstracted

3d abstract of fragmented spatial conditions top down

3d abstract of fragmented spatial conditions bottom up

Original configuration

Reconfiguration 01

Reconfiguration 02
SPATIAL ABSTRACTION OF A MULTIPLE PERSPECTIVE ROUTE
PROBLEM STATEMENT

Cañada Real

ISOLATED
NO TRANSITION
IGNORANCE
POOR INFRASTRUCTURE
DISCONNECTED
Cañada Real
- ISOLATED
- NO TRANSITION
- IGNORANCE
- POOR INFRASTRUCTURE
- DISCONNECTED

PROPOSED SOLUTION

A multiple perspective view leads to exploration of new routes and areas

When you see something from a different perspective you will experience and use is differently.
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PROPOSED SOLUTION

A multiple perspective view leads to exploration of new routes and areas.

When you see something from a different perspective you will experience and use it differently.

Create a multiple perspective experience of Cañada Real

Multiple perspective architectural interventions creating space for interaction
SITE ANALYSIS

Territories

Infrastructural systems
INFRASTRUCTURAL READING

- Overlap of two systems
- Intersection of two systems
- Transition of two territories
Overlap of two systems
Intersection of two systems
Transition of two territories

3 sites selected
PROBLEM STATEMENT

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Multiple perspective architectural interventions creating space for interaction
DESIGN STRATEGY

Sequence of fragments with changing perspectives and views
MASTERPLAN

Multiple perspective sequences placed on site.

Creating transition zones into the Cañada Real.
SITE
Territories
PERSPECTIVES

SINGLE PERSPECTIVE
Available perspectives in current situation

MULTIPLE PERSPECTIVES
Available but not accessible perspectives
Perspectives from research
PERSPECTIVES

Different conditions applied on site

HEIGHT/DISTANCE
PERSPECTIVES

Existing conditions and added conditions

SPACE
PERSPECTIVES

View typologies
MULTIPLE PERSPECTIVE EXPERIENCE
DEVELOPED FRAGMENTS
01. PERSONAL FACINATION
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08. FINAL DESIGN
MATERIALS

- STEEL CABLE
- STEEL FRAME
- WOOD
- CORTEN STEEL
- CONCRETE

CONCRETE
Structural
MATERIALS

Steel cables
Steel frame
Wood
Corten steel
Concrete

STEEL FRAME
Stairs
MATERIALS

Steel cables
Steel frame
Wood
Corten steel
Concrete

STEEL CABLE
Handrails
FRAGMENT 09.

STRUCTURAL VISUAL BORDERS

SUSPENDED STEPS

Steel cables and steel frame

Corten steel

Poured concrete and steel beams

BRIDGE 02.
FRAGMENT 09.
STRUCTURAL
VISUAL BORDERS
SUSPENDED STEPS
Steel cables and steel frame
Corten steel
Poured concrete and steel beams

BRIDGE 02.

STRUCTURAL
Poured concrete and steel beams
FRAGMENT 09.

STRUCTURAL

VISUAL BORDERS

SUSPENDED STEPS

Steel cables and steel frame

Corten steel

Poured concrete and steel beams

BRIDGE 02.

VISUAL BORDERS

Corten steel
SUSPENDED STEPS
Steel cables and steel frame
FRAGMENT 03.

STRUCTURAL
VISUAL BORDERS
HAND RAIL
Steel cables and wooden strips
Corten steel
Poured concrete and steel beams

BRIDGE 01.

STRUCTURAL
Poured concrete and steel beams
BRIDGE 01.

**VISUAL BORDERS**

Corten steel

- Steel cables and wooden strips
- Poured concrete and steel beams
FRAGMENT 03.
STRUCTURAL
VISUAL BORDERS
HAND RAIL
Steel cables and wooden strips
Corten steel
Poured concrete and steel beams
BRIDGE 01.
FRAGMENT 04.
STRUCTURAL VISUAL BORDERS

HAND RAIL
Wood strip 20x50 mm
Steel cable 6 mm

Corten steel sheets 6 mm

Steel beams 80x110 mm

Poured concrete

Steel profile 80x140 mm

AXONOMETRIC VIEW

1:20 FRAGMENT 01.
STRUCTURAL

Steel beams 80x110 mm
Poured concrete

Steel profile 80x140 mm
AXONOMETRIC VIEW
VISUAL BORDERS
Corten steel sheets 20 mm
FACING
Wood 200x25 mm
Wood beams 40x60 mm

Wood beams 40x60 mm
WALKTHROUGH 01.
WALKTHROUGH 02.
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