### The Good Neighbourhood Studio | The Hague Mariahoeve

'Right-sizing (oversized) Streets' and 'Sprawl Repair'



MSc 1-2 Dutch Housing Studio AR1AD011 | Publication of student work | Fall and Spring Semester 2016-2017 Chair of Architecture & Dwelling | Faculty of Architecture and the Built Environment | TU Delft





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MSc1-2 Dutch Housing Studio AR1AD011 | Student Work Fall and Spring Semesters 2016-2017 | Chair of Architecture and Dwelling Faculty of Architecture and the Built Environment | TU Delft

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### Inspiration and support

Barend Jansen (advisor on neighbourhood transformation: sprawl-repair & rightsizing streets, Provincial Government - Zuid-Holland), Frank Weijzen and Jan Kommer (urbanists, municipality of The Hague)

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### SIte 2: Diamanthorst

Fall Semester 2016-2017: Daan Deen, Xiangyu Zheng, Stefan Klaseboer, Thomas Edward Fell Rubio, Ilse de Jong, Karlijn Scholtens, Eduardo Puertes Espert, Ryan McGaffney Spring Semester 2016-2017: Lian Blok, Chantal Hofsteenge, Alex Leeder

Site 3: Hofzichtlaan

Fall Semester 2016-2017: Alejandro Efrain Fajardo Ibarra, Jamie Bakkes, Lydia Giokari, André Eriksson, Roza Derakhshan Alavijeh Spring Semester 2016-2017: Harro Fonk, Jeffrey Blokker

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### introduction

In its foremost edition (2015-2016), the Dutch Architecture Yearbook for the first time featured more transformation projects than newly built ones. Thus, the Yearbook follows the shift that occurs in architectural assignments across the Netherlands (and elsewhere in Europe), a shift from 'building from scratch' on a site devoid of context, to working with and within the existing city fabric.

Newly developed notions of sustainability and the value of our open space, along with concerns about the present state and future use of our post-war building stock, have led the 'frontier' of pioneering architects back to the centre of our cities. This is especially true for residential architecture. Gone are the days of 'Vinex', the sprawling suburbs of the 1990s, to make way for a re-appreciation of what we already have.

This, according to theorists like Paul Meurs, asks of designers to study the past and, more importantly, to figure out a position towards that past. With the 1970s practice of wholesale radical renewal (the so called 'stadsvernieuwing' or 'urban renewal') as an example of an insensitive approach, planners and designers look for other, maybe more gentle, ways to improve the urban condition. They grapple with questions like which keys do the existing structures hold for a sustainable, durable, modern, liveable city and how to analyse and use them.

#### Design Studio

'The Good Neighbourhood' Studio explores spatial designs for neighbourhoods based on new mobility concepts centered around manpowered mobility such as the bicycle. We are not only interested in how mobility informs the designs of our living environment, but we also want to know what new opportunities we have if we make car mobility obsolete. Our intention is to contribute to innovative ways of planning, urban design, landscape design and architectural design that can densify and optimize the urban fabric, and still answering our growing need for mobility.

We have developed our studio topics in close consultation with Barend Jansen (advisor on neighbourhood transformation: sprawl-repair & rightsizing streets, Provincial Government - Zuid-Holland) and Frank Weijzen and Jan Kommer (urbanists, municipality of The Hague), who have explained their commitment to our students and encourage them to think out-of-the-box and at the same time develop a strong link with societal auests.

### **Design Assignment**

The Mariahoeve studio assignment is about densification of the post-war city, in our particular case the north-eastern edge of The Hague, the third major city of The Netherlands. Recent research on residential environment preferences shows a shortage of central and quiet-urban and central-





Image 1: Mariahoeve and its position within the urban tissue of The Hague



rural, as well as a surplus of suburban residential environments. Our subject of study, the city district of Mariahoeve, is a city extension (1958-1970), that was conceived to house a mix of various income groups (see image 1). Our area of study is the area bound by Bezuidenhoutseweg (to the northwest), Noordelijke Randweg (to the north-east), the stretch made up by Boekweitkamp, Finnenburg and Margarethaland (to the south-east) and Carel Reinierszkade (to the south-west) (see image 2).

Our studio aims at looking critically at the existing traffic structures that make up the subdivision of Mariahoeve into five neighbourhoods. We want our students to study the densification of this city district by - partly - building on top of, in between or directly adjacent to these infrastructures, in between the existing neighbourhoods. The new development aims to use public transport and bicycles rather than the obvious car. Think of 'rightsizing (oversized) streets' and 'sprawl repair', smart parking solutions, room for additional program on street level (coffee corner, bicycle storage a.s.o.) and creativity when it comes to floor plan (ánd spatial!) design. Thus, technical building design topics include the creation of slender residential buildings, stacking, sound insulation, and the application of special building structures and measures against muting traffic vibrations. We have challenged our students to design in an unconventional and speculative way, starting by collecting knowledge of a common way of (Dutch) building typologies and technologies.

Image 2: Mariahoeve: variety of living environments, buckled streets and streets loops, clear boundaries of the district.

### Site and Theme Research Assignment

- Historical context: How did it get to the 'as found' situation? And directly related to the history of this post-war city district is its physical context: what's the shape of the place? Urban morphology? Architectural character(s)?
- Socio-economical context: Who used to live there? Who lives there now? Who lives there tomorrow? And besides living, what's going on there? Where is need?
- Ecological context: How does The Hague want to act on sustainability? What kind of resources can we find locally? And since you are faced with the other approach to a restricted role of car traffic in the near future, as favoured by the Provincial Government, in what ways can this position contribute to a sustainable neighbourhood?

(See the appendixes for excerpts from conducted site and theme researches)

### **Urban Framework**

Based on site and theme research (historical, socio-economical and ecological context) in groups we have asked our students to formulate a vision on one of three given areas of study in Mariahoeve (1/Reigersbergenweg, 2/Diamanthorst and 3/ Hofzichtlaan), all connected to a stretch of a street profile that our students have chosen to rework. On the stretch of their choice, the students have

developed an individual urban framework and designed one (or more, depending of the scale of their proposal) of its constituent buildings/blocks in detail.

#### Design Question

How can you densify the neighbourhood of Mariahoeve with a mix of (predominantly) residential buildings on the stretch of land as selected by you, given the Provincial Government's call for reduction of consumption of urban space by car traffic and instead give way to slow modes of traffic (pedestrians and cyclists) and the use of public transport and new, sustainable dwelling typologies?

### Design Specifications

In our studio, we are looking for new ideas for new buildings in the three given street profile stretches to be 'rightsized' and reorganized. Thus, deriving from the student's individual urban framework, the following requirements applied for the building(s) / block(s) that our students have elaborated:

- the exact amount of dwellings will depend on the exact elaboration of the student's urban framework on the site as chosen;
- parking must be integrated in or underneath the design. Consider smart parking solutions

   norm: 0,5 parking space per dwelling;
  - the target group(s) derive from both the group research findings and must be served by the building / block / ensemble; each receiving



Image 3a: typical street view in Mariahoeve

proper housing typologies 1: 100 (for example a CPC - Collective Private Commission) group);

- additional program (think of building plinths, corners, work homes etc.);
- each individual elaboration must contain new concepts for dwelling, related to and deriving from one's vision on mobility.

### MSc1 Design Task for Building Technology Design

For an important part, architecture is designing technical aspects. The design task at hand is a (technical) design proposal for the student's building design in one of the MSc1 Architecture studios. It is



Image 3b: a central green space within a grouping of residential blocks in Mariahoeve

about integration of structural elements, façade construction and climate design in one design. This design must be future proof. This means designing in a different socio-cultural context with new technical possibilities, reducing the ecological footprint of the building as much as possible.

#### **Street Stretches and Tendencies**

By offering 'The Good Neighbourhood Studio' one full educational year to our students, we as tutorial staff members of the Chairs of Architecture and Dwelling and Building Technology got insight in what re-thinking on the things we mostly take for granted in our daily lives and planning routines when it comes to car-use and parking habits can do for our students, and eventually, for post-war suburban neighbourhoods such as Mariahoeve in The Hague. The balance between vast amounts of (under-used) asphalt on street stretches and (non-used) urban green areas could be turned into densification and improvement of the residential building stock of Mariahoeve, as well as using this shift of thinking as a mere catalyst to encourage a better use of urban green areas and overdimensioned street stretches. Less (parked) cars in the streets (no more than one car per two new dwellings to start with in our design assignment) could serve as an example for similar Good Neighbourhoods, based on the quest by Barend Jansen (advisor on neighbourhood transformation: sprawl-repair & rightsizing streets, Provincial Government - Zuid-Holland) and data as supplied by Frank Weijzen and Jan Kommer (urbanists, municipality of The Haque).

Of all three studied street stretches, Diamanthorst has proven to be both the most difficult street stretch to work with, but also the street with a profile that allows for subtle and strong additions to (sub)urban life in Mariahoeve. These proposals hold prototypical qualities. This caters for the larger amount of presented projects on this stretch, compared to both Hofzichtlaan and Reigersbergenweg.

The first street stretch (Hofzichtlaan) is of a huge

scale, which means that a project that wants to succeed here needs to implement a more human scale to be able to intermediate between existing high-rise and low-rise building stock ('Intimate Neighborhood' by Roza Derakhshan Alavijeh and 'Creating the Neighbourhood' by Lydia Giokari). The latter street stretch (Reigersbergenweg) might be turned into a park, as Sarah de Bruin renamed this street in her proposal 'Reigersbergenpark' (not shown in this collection though), yet this idea was also embraced as the starting point by Matti Wäre, who developed a 'close reading' of the architecture 'as found' and added a very carefully positioned set of buildings along this park. 'Small Neighborhood' by Jinhyuck Lim on the contrary shows how one can truly intensify the use of new soil for dwelling. 'Metamorphic Dwellings' by Carolina Ore Guillen mediates between these two positions on either side of the balance.

#### Reigersbergenweg

'Growing from the Old' by Matti Wäre introduces a park instead of a road. The existing side streets are extended towards the park, yet visually closes, although the park is accessible by turning left or right at the very end. The advantage is a clear division between these streets where the car is still welcome and the park where the car has been expelled from the pitch. Yet, on the urban design level this introduces on the urban design level a clear demarcation of atmospheres and a strict character of the urban space. The elaboration of this proposal takes the very southern entrance of the park stretch as its playing field. The architecture is very controlled, refined, and – to quote Dick van Gameren – austere. The typologies are very carefully elaborated and detailed, the windmill typology may have something of a prototypical guality.

#### Diamanthorst

'Pathfinder' by Ryan McGaffney is a strong urban scheme, etched in the Diamanthorst area and beyond with its paths and walkways. This is a modern vernacular interpretation of Dutch Housing, Ryan being very well aware of the gradient between public (street) and collective (the English 'mews' typology). The dwellings have wellstructured floorplans with incorporated potential kangaroo dwelling arrangements and four different typologies in total per housing block. The proposal shows refined detailing in an uncommon manner (CLT main structure and entirely glazed facades and roofs), possibly alienating itself from the surrounding material atmosphere, yet fitting in very well by its modest application of the human scale in the new stacked dwelling arrangement.

By 'A Livable Wall', Thomas Edward Fell Rubio shows an interesting reading of the themes of long time 'liveable' heroes Jane Jacobs and Jan Gehl as a starting point for his intervention in the current car-dominated non-readable urban space of Diamanthorst. In this interesting concept of dwellings the serving space embraces the served space, meanwhile acting as a thermal buffer between serving and served space. Not being a simple blueprint, the – from their geometries rather complicated building masses – have been elaborated into a very attractive streetscape. Question: will at first the street be enlivened or the collective spaces behind the various dwelling typologies? This proposal shows a very good sectional sequence, related to anaxonometric drawing of the urban framework. Furthermore the design stands out by a thorough elaborated materialization of the elaborated module, strongly embedded in the as found material qualities in the architecture as applied in Mariahoeve.

With her design 'Can we enter the bush together?', Lian Blok has been extensively keen on learning and getting into the subject that she has touched in our studio. This is an attitude that acts as a natural driving force in a complex project like this studio's assignment. The presented project is the result of 'research by design', supporting the main concept of a breathing architecture. The awareness of elevating the first floor over an open ground floor, thus making a very permeable streetscape/ landscape on the level of the pedestrian and cyclist and lowering the visual position of the parked car (and finally excluding it and converting the open ground floor to playgrounds and truly collective spaces) is a stronghold of prototypical value. Besides that, the design shows an intelligent and spatially convincing stepped section which allows for various clearances and visual connections between different zones in this section. The final perspectival sectional drawing strikes a balance

between the livability of this section and its technical merits, and between Lian's concept and the implementation of her ideas.

'Relinking Mariahoeve' by Chantal Hofsteenge consists of a chain, where dwelling parts and ccess voids with stairwells alternate and build a pattern that could be used in a rather flexible way on other spots in this neighbourhood (and others just as well). It has its distinctive architectural character because of its alternating nature, but also - or even more - because of its typical undulating roofscape. Supporting the idea of the chain (or snake): the skin of that snake is loadbearing at the same time and thus allows for freedom in changing dwelling divisions and lay-outs over time: a very sustainable way of designing a residential building with a long lifespan. The choice for two materials on either side of the snake (the two shall never meet because the glass house always acts as the intermediate between two different skins) makes good sense. This proposal has a wide array of dwelling typologies that cater for various user groups and thus link starters and (young) families to either sides of the residential chain along Diamanthorst.

### Hofzichtlaan

By 'Creating the Neighbourhood', Lydia Giokari demonstrates a very intelligent reading of the as found non-space present at Hofzichtlaan. By introducing radically slender longitudinal slabs of dwellings with a distinctive formal pitched roof definition and more compact blocks, set perpencicular to the 'slender slabs', a whole range of new interrelating urban spaces has been created, fed by a mixed program in the plinth of the various buildings. The slender slabs contain an array of possibilities for actual use by desiging flexible module-spaces. There has been payed as much attention to the dwelling design (the array of possible floorplans – all with a clear layout – that you have shown prove the adaptability of her design), as to collective space and the connection between dwellings, users and other inhabitants of Mariahoeve. In short: an extremely wellbalanced design proposal presented in an equally excellent way in words and drawings: a very Good Neighbourhood!

#### Images

Aerial views on cover page and p. 8: Dienst Stedelijke Ontwikkeling Gemeente Den Haag, Afdeling Stedenbouw & Planologie

Images 1, 2 and 3: Niek de Boer, Donald Lambert, Woonwijken: Nederlandse stedebouw 1945-1985, Uitgeverij 010, Rotterdam 1987,

p. 115 (Stadsplattegrond en wijkplattegrond),
p. 55 (Mariahoeve, Den Haag, 1: 10.000: verscheidenheid aan woonmilieus, geknikte straten en stratenlussen,
duidelijke begrenzingen van de wijk) Dienst
Stadsontwikkeling Den Haag, p.54 en p. 114
(Mariahoeve, Den Haag: typerend straatbeeld) Hans
Krüse, fotografische dienst afdeling Bouwkunde van de
Technische Universiteit in Delft

Images 4 and 5: photos by Paul Kuitenbrouwer





Image 4 (above): approach to Hofzichtlaan, coming from Hongarenburg, image 5 (below): Isabellaland, green public space and typical apartment block (typology as Diamanthorst)



1/Reigersbergenweg



2/Diamanthorst



3/Hofzichtlaan



1/Reigersbergenweg

••••• 2/Diamanthorst

= 3/Hofzichtlaan

### Site 1: Reigersbergenweg





Growing from the old Matti Wäre

p. 12 Jinhyuck Lim

Small Neighbourhood

Metamorphic Dwelling **p. 18** Carolina Ore Guillen p. 22

### **Site 2: Diamanthorst**





Pathfinder Ryan McGaffney



A Livable Wall

**p. 28** Thomas Edward Fell Rubio

p. 34 Can we enter the bush

together? Lian Blok



**Relinking Mariahoeve** p. 38 Chantal Hofsteenge p. 44

### Site 3: Hofzichtlaan





Intimate Neighborhood p. 52 Creating the Neighbourhood Roza Derakhshan Alavijeh



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Design Projects

# Site 1: Reigersbergenweg

### 'Growing from the old' by Matti Wäre

Site 1: Reigersbergenweg | Spring Semester 2016-2017





**General approach.** Reigersbergenweg is transformed into an urban park, a green vein that flows through Mariahoeve, which connects the now seperated neighborhoods together. In addition, the urban fabric is densified with various housing typologies, bringing diversity to the now somewhat monotonous housing offering. Context sensitivity is seen as the key standing point regarding the infill building.

**The Green Vein.** Mariahoeve has vast amounts of existing greenery, however, large parts of it are not very usable. The proposed park aims to be a more active part of Mariahoeve, attracting people to spend time outside.- a park with various atmospheres and a human scale. This reinforces the original consept of the garden city, but also brings in new elements.

Whom to build dwellings for? The socio-economic research indicates, that the majority of new dwelling units should be privately owned as Mariahoeve has vast amounts of social housing, bringing the area closer to the Den Haag average and preventing social segregation. Furthermore, the emphasis of the new dwellings should be on attracting families with children and young adults, as these groups are under represented in Mariahoeve.

**Proposed dwelling typologies.** Three of the new dwelling typologies are scrutinezed in this presentation; the student atriums, four houshold urban villas and the rowhouse extensions. These typolgies are targeted for the groups mentioned in the previous chapter.

**Sustainability.** Sustainability is a matter of the whole lifecycle of the buildings, how they relate to the urban conext and what kind of lifestyles they encourage. The buildings should be designed in a way to last for hundreds of years with minimum maintenance, mainly using natural materials such as brick, wood and stone. The urban scheme aims to reduce the use of cars and avoid expenive underground parking solutions and garages, as they are not easily convertable for other use later. The pedestrian and bycicle paths encourage lighter modes of moving and the use of public transport.

**Structure and building technology.** The new buildings are proposed to be made from load bearing thermo bricks, a somewhat new building method with roots to old building traditions. Massive brick walls are durable as well as healthy, while also removing the need for using plastic membanes and other syntetically produced products. Furthermore, the risk for errors at the construction site is smaller compared to multi-layered facades with various elements. Natural ventilation is integrated to the design.



### section views



Site elevation A-A 1/200

### housing typologies

Student Atrium 24/24



A student atrium with a collective inner courtyard and 24 studio flats. The typology aims to combine the communality of the dormitory, providing facilities such as a communal kitchen and a billiard room, on the other hand, having the privacy and autonomy of the studio flat.

Villa 12/12



Row house ~9/6



Rowhouse extension ground floor v1, 1/10

Rowhouse extension ground floor v2, 1/100

An urban villa for four small households. The flats with separate entrances intertwine around central stairs, giving views to three directions from each apartment, and on the other hand, enhancing the feeling of communality. All apartments have a small garden in front of their kitchen.

A row house extension for families with children. The flexible floor plan, with the utility spaces packed to one side, provides a framework for creating a range of different variations for different needs. All dwelling units have a front and a backyard and an option for a second floor addition.





exploded view







### 'Small Neighborhood' by Jinhyuck Lim

Site 1: Reigersbergenweg | Fall Semester 2016-2017



Too wide road, irresponsibly open spaces make, and contrast between public and private; these are the reasons why Mariahoeve is losing its human scale. The absent of human scale makes the communication between neighbors disappeared, and furthers, threatens the neighborhood security due to a small number of people on the street. First of all, it is necessary to form small units of neighbors. This 'small neighborhood' will work as a unit that decides the residential block. To develop the social intercourse in Mariahoeve, I planned collective spaces for those neighbors, which will not be easily exposed to unspecified individuals. Throughout these, the collective space will become a new forum for the communication between neighbors. It would bring the concept of 'neighborhood' back, which has been absent for years in this desolate area. Also, I planned the connection among the small neighbors to make them as a seed for massive community. In this process, gradation between the public and privacy will be created; a public area for whole Mariahoeve, semi-public areas for the residents, and semi-private areas for the small neighbor unit, etc. Collective spaces, allies, streets, and squares will also be formed to practically realize the public activities. To sum up, the final goal is to find a way to reform Mariahoeve as an area with human scale.





from small neighbors to a big community, from private to public between closed & open (pars pro toto)



### urban frame design process









### 'Metamorphic Dwellings' by Carolina Ore Guillen

Site 1: Reigersbergenweg | Fall Semester 2016-2017

### concept

Standarisation, repetition and functional segregation have been central strategies to the housing challenge. The users are normally treated as passive receptors of the housing product. This project aims to insert the variable of time and change of users circumstances of the users as active participants of the design process.

- Expanding town houses
- Private use
- Provide strong structures for possible future development on upper levels

#### Underground houses

- Private use
- Garden roofs
- Give back green areas

Sports center and adaptable units

- Ground for public use
- Social housing
- Support and Infill concept

### extended town houses

### semi-underground dwellings







extended town houses

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Design Projects

## Site 2: Diamanthorst

### **'Pathfinder' by Ryan McGaffney**

Site 2: Diamanthorst | Fall Semester 2016-2017



### design strategy

Diamanthorst, a street in the post war district of Mariahoeve, The Hague, currently consists of multiple routes and pathways utilised by different modes of transport. The car takes a dominant position in the street. It, along with a public bus route, take up two lanes of traffic which flows in two directions through the housing blocks and multiple schools which line the streetscape. Alongside this bicycles run in conjunction with the car, creating a frequently busy road sitting detached from the existing housing and schools. Walking paths are found on either side of the road. They stretch the full length of the street, disconnected from the road by rows of parking used by schoolteachers by day and home dwellers by night. In the middle of Dimanthorst, adjacent to the High School, Diamant College, is one other path. It sits submerged in overgrown green trees. To look at this path on a map, one could clearly see that it leads from Diamanthorst, through the small forest of trees, takes a sharp bend, then leads across a bridge and over the canal to the entrance of Mariahoeve Park. However, looking at it from street side it is dark, one cannot see it's end. And although making a passage through this path might make the adrenaline in one's veins rush, it is not a rush of excitement. It is one of the unknown. This route has good intentions, to lead it users from the busy street to the calm of the public park. Though it seems that over years of neglect and foul use, that this path falls short of providing both the knowledge of where it will lead to and the safety of passage which one needs when passing through public space.

On a first glance at Diamanthorst one wonders where new dwellings could possibly be put it place.

The street as it sits today seems saturated, pushed to its capacity. The layers of trees, parking, traffic fill the road. However, on further analysis, if the parking is removed and the traffic reduced to a single lane in one direction, creating a shared surface for bicycles and cars where the bicycle takes precedence, buildable space can be found at either side of the street. This narrowing and shared surface, along with the materiality and sound of the cars movement over stone paving, aims to slow traffic speed on the street. Therefore inducing more social interaction between residents.

The new buildable area which is therefore created gives enough space for a plan of eight meters deep to run the stretch of the full street. To the North of the street new dwelling are placed perpendicular to the existing row houses. Whilst to the South dwellings are placed in an L form plan, defining the entrance to the park and retaining pockets of space outside of Diamant College. These building blocks are the dissected by the existing walking path which run North to South, connecting Diamanthorst to The Hague, North West, and Diamanthorst to Mariahoeve Park, South East. Along the canal a new public space is created, aiming to rejuvenate the canal front and inviting an interaction with the water, with visual links to the park beyond.

By placing this typology, a reinterpretation of Dutch row housing, two historical, typological references are made. In section, by replacing a few meters of private garden from the existing row houses, a communal mews is created, referencing the traditional English mews of Victorian tenement housing. This mews is transformed into a communal garden street to induce interaction between existing dwellers of Diamanthorst and the residents of the new housing. Each apartment, on the ground floor, is given a planter on the mews to encourage the growing of plants and vegetables and a sustainable way of living. Secondly, in elevation, the dwellings reference the paintings of De Hooch, focusing on the everyday living of the people in these houses as well as the separation between public, communal, and private space. Passages are placed which penetrate the dwellings, showing a view from Diamanthorst through to the garden mews and from the mews back to the street. These passages are used as parking spaces at night, creating a parking ratio of 0.5 cars per dwelling, and when the cars leave, serve as walkways during the day. Therefore, linking the mews to the street and the street to the public square and the park.

Again, in elevation, the apartments are stacked. A large single bedroom apartment sits on the ground floor, interlocked with the option of a double story family apartment of two single story apartments above. The plan of the ground floor apartment is sized to allow space for a potential elderly couple to live there. Although an elderly couple who are still reasonably young could live in this apartment comfortably by themselves an older couple, possibly in their eighties, may not be able to. Therefore,

the entrance of the apartment above is able to be connected to the ground floor apartment. In this case, family or relatives of the elderly couple in need of assistance could move into the larger apartment above, creating a passive surveillance and help for the people living on the ground floor. In plan, the ground floor dwellings have their bedrooms and kitchens placed to the mews, allowing privacy for the bedroom space and creating interaction with the mews by linking it to the kitchen. More public spaces such as the living room are placed toward the street. In the apartments above bedrooms are placed to the street to gain morning sunlight whilst living spaces and kitchen are to the site of the mews to gain evening sun. A roof terrace punctures the top floor of the buildings to allow a private garden space for families as well as accentuating a rhythm of solid to void along the street scape. To the corners of each row house a corner house is placed, formed by the intersection of the walking paths through the built mass. These house remove gable ends from the dwellings, ensuring all side of the buildings have an active facade to create interaction with the street and surrounding spaces.







Section BB



















Corner House A





Mews Dwellings A







Mews Dwelling B



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### **'A Livable Wall' by Thomas Fell Rubio**

Site 2: Diamanthorst | Fall Semester 2016-2017











that depends on the car as the main mobility source. Parking areas are a relevant feature in the urban landscape, using space that could be useful for public activity. Living wall interprets the blind plinth of the neighbourhood as an oppurtunity to connect, create, and activate public and collective spaces. Taking into account political initiatives to reduce the use of car and sharing cars as some current ideas for mobility, the project purpose two typologies for parking. One from a public space and the other one from a dwelling typology. Both offer a flexible space that could be used in the feature of collective activities.




## 'Can we enter the bush together?' by Lian Blok

Site 2: Diamanthorst | Spring Semester 2016-2017



#### design strategy

To increase the density of the neighborhood I immediately started to reduce the size of the street profiles. The main goal of the project was to design houses which are surrounded by nature, as well as being places which foster social interaction. Nature should be integrated in the new apartments on the urban scale, as well as inside the dwellings. The end goal, the image of Roberto Burle Marx who embraces nature, was for me logical and was used as my pas por toto.

For the design process, I started with the individual inhabitant. From this I knew that the perfect circumstances could be created for the inhabitants in the end, and my typology came from this. I have pursued dwellings which are varied sizes which give different house prices to the area. The dwellings should be flexible and there should be several ambiances where every different person can find their favorite spot to drink their coffee at the beginning of day, have a talk with visiting friends or have a moment to relax while looking at the nature as if it were a painting. These different ambiances are created by the difference in floor level between the living and dining rooms, where the living room is 60 cm higher than the dining room. As the spaces are the same size, the inhabitant has the flexibility to switch the position of the living room and the dining room if they wish. One ambiance is created close to the balcony, with a view on the social street. One ambiance is created in the kitchen, where you have a strong connection with the living room. Another area is created in the living room, where you have the feeling that you enter the bush. After finding out the approximate sizes of the typologies, I designed a traffic area which is clear and doesn't take too much

space, therefore maximizing the static space for living. This in-between area is a boundary in-between the dwellings, where you can meet your neighbor while coming home. Designing from the inside to the outside of the dwelling, I started to rethink about entering the house. The lift brings you inbetween the trees to the right floor level. By reducing the size of the street profiles, the connection between the existing buildings is decreased. However, when I elevate the proposed building, the connection between the existing ones at ground level remains. The space under the building is used as a playground area, a passing route for pedestrians and as parking spots for bikes and cars. To consider the future life of the inhabitants, who I expect will not have cars, is essential, and therefore the future program of this space must be considered. The storage of water in the neighborhood can be on the place of the parking spots, to create a more natural surrounding for the inhabitants while entering their dwellings. The ground floor is 60 cm lower. The profile view pays less attention on the parking spots while there is still a visible connection to maintain the safety of inhabitants who walk there to play, park or enter the building.

The street has two different functions. The south side has a more open and social function, where you can enjoy the sun and sit next to the water. By contrast, the northern side has more nature. This creates an urban area which is varied to meet the needs of different inhabitants. The nature can be entered from the walk to the entrance of the building, while moving to the right floor-level as well as inside the dwelling. The inhabitants are living together with nature.









#### sections and facades



Section A 1:200



Social facade, south 1:200



Bush facade, north 1:200







## 'Relinking Mariahoeve' by Chantal Hofsteenge

Site 2: Diamanthorst | Spring Semester 2016-2017







MASTER PLAN SCALE 1:300



NORTH FACADE SCALE 1:500







#### floor plans per type



DWELLING TYPE B

(G4 4E) • 184 491 104 4Q

GROUND FLOOR SCALE 1:50



FIRST FLOOR SCALE 1:50

TITEL SCALE 1:50

Design Projects

## Site 3: Hofzichtlaan

### 'Intimate Neighborhood' by Roza Derakhshan Alavijeh

Site 3: Hofzichtlaan | Fall Semester 2016-2017



By removing one of the one-way streets, space for densification is achieved. The only problem is that the remained land is full of aged trees. This constraint is used as an opportunity. Shaping around the trees and seeking for more access into the area. result in intimacy and more diverse volumes.



#### introduction

Densification priority is the middle part of Hoftzichtlaan from Diamonthorst to tram track. The reason for choosing this fragment is that the noise intensity in this middle part is less than the rest and also this fragment seems the least sate part due to the green barrier made by tall vegetation. Diversity in form and volumes is another achievement of this approach in design. Each block has its own character and dwellers can differentiate their houses. In addition it introduces a variety of shapes to repetitive character of Mriahoeve in term of aesthetic. The height of proposed blocks is variable from two stories to not more than five stories. Medium rise typology is my choice to react to existing high rise blocks and low rise row houses of Hoftzichtlaan. In order to integrate but not disturb the current condition of existing buildings, the heights of the proposed blocks are lower in some parts and Walls adjacent to existing blocks do not contain any window or opening. Terraced character is also to respect current quality of life in existing buildings. The blocks with access to the back streets are allocated for underground parking garage which are shared with neighbors from different blocks. The roof of the garage is considered as an elevated collective space for inhabitants to overlook the surroundings. The target groups belong to different categories like families, young couples and students.

#### public space

Entrance allies branched off Hoftzichtlaan to reach the blocks. are shaped around the existing trees. Open wider spaces in between the blocks are considered as corners for neighbors' gatherings or playground for kids. The allies sprawl between the blocks to tie Hoftzichtlaan with perpendicular streets



#### 8 Parking Spaces : 314 sq.m 6 Residential Units : 956 sq.m Total Amount of Dwelling and Parking Spaces in Elaborated Fragment 2 Duplex Unit 4 three bedrooms Unit 6 Parking Spaces to serve 32 residential Units : 570 sq.m 6 Residential Units : 614 sq.m Ť. 4 one bedroom Unit 2 three bedrooms unit Ť# 1Residential Unit : 110 sq.m 32 Parking Spaces to serve 64 residential units : 1130 sq.m 1 Duplex Unit 3 Residential Units : 508 sq.m

numeric data

1 Studio Unit 1 two bedrooms Unit 9÷+ 1 Duplex five bedrooms Unit 8 Parking Spaces : 255 sq.m 6 Residential Units : 623 sq.m 2 one bedroom Unit 4 three bedrooms Unit

Numeric Data

2 Residential Units : 2811 sq.m

**Estimation of Entire Urban Fragment** 

60 Residential Units : 8433 sq.m

101





Section 1:500











## 'Creating the Neighbourhood' by Lydia Giokari

Site 3: Hofzichtlaan | Fall Semester 2016-2017



#### the new neighbourhood





The proposal not only reclaims the oversized streets of the area but also offers a completely new experience of the Hofzichtlaan street. The "loose" profile that the residents of the area disliked is transformed into a new neighbourhood which connects the two former alienated sides of the profile in one ensemble. The intermediate becomes the means that create the feeling of vicinity. Also, the design takes into account the existing trees and the water canal and tries to highlight them. New leisure areas are organised by the canal. The organisation of the new buildings

in the given plot is made in such a way that the existing trees are all preserved. Another important feature of the proposed neighbourhood is its ability to change the percentages of dwellings/commercial spaces/ offices/ateliers etc. during time according to the needs. This fact ensures that it will never be lifeless as it is a future-proof hybrid that reacts as a chameleon. The new scenery of the Hofzichtlaan street can be applied in street with profiles up to 65meters. Not only to develop more dense areas but also to offer more human scaled environments.

#### masterplan







#### flexible modules





The new neighbourhood is formed by two different building typologies. The concept in both of them is the creation of buildings with the minimum width in order to fit in the given profile and create a new dense neighbourhood with two rows of parallel buildings. The width of them is 3.90m and 6.80m each. In the interior flexible modules, spaces are formed which can serve various programmes and uses.

In both buildings the construction method (the load bearing perimeter walls) together with their slender shape allow the creation of flexlble interior spaces. The stable parts are the bathrooms and piping, while the rest space of each module can be easily transformed according to the needs of the program that takes place every time. The interior can be divided into smaller rooms by light separation walls-plasterboards. The slender shape also allows the existence of windows in the perimeter of every module. In this way and especially in the less divided modules natural light and ventilation is offered in the maximum. The orientation of the living spaces (kitchen and living room) to the South creates a pleasant space for people to enjoy the maximum view, light and comfort even in such small apartments.

#### possible transformations



Commercial space- shop 42.7m<sup>3</sup>

I Starters duplex office 68.6m<sup>1</sup>

面新



AR1AD011 - MSc 1 Dutch Housing Studio The Hague Mariahoeve

10,3

38,7

44

12 4

80

#### Possible transformations

A









Workspace + House duplex 76.7m<sup>2</sup>



Young family apartment 53.5m<sup>3</sup> \$C 23

Duplex Workspace 76.7m<sup>a</sup>



details



9

10

Ф-





 A pointice in market intertimeshold for rainwater flow
2. board,
3. aluminum window frame
4. cak planks 16mm
5. adhesives 4mm
6. plastic coating 4mm
7. underfore cooling-heating
system: pipes, reinforced mesh &
concrete cubes
8. sound & thermal polyurethane
insulation 60mm
9. anchor
10. thermal insulation 15cm
11. joint that connects the two
prefabricated elements together





prefabricated concrete panel
thermal insulation
reinforced concrete
4, tiles
screed
concrete slab
7. aluminum gutter with net
waterproof layer







# **Appendix 1: Theme Research**

Historical context	p. 68
Socio-economical context	p. 77
Ecological context	p. 84

## **Historical context**



# inspiration

#### A new way of life

Bakker Schut, the director of the municipal department for reconstruction and urban development, envisioned a new social structure for the neighbourhood of Mariahoeve. He was unhappy about the strong class distinctions that existed in the Hague, and wanted Mariahoeve to break the status quo to provide housing for various socio-economic groups to live in close proximity. Social integration was he key objective for the new neighbourhood. Van der Sluijs' masterplan was inspired by the new districts of Stockholm he had seen on a study tour.









Reference suburb: Kortedala, Sweden









#### 1964

Most of the roads and streets in Mariahoeve have been constructed. With the major roads of Reigersbergenweg (1), Het Kleine Loo (2), and Hofzichtlaan (3).



**1962** Het Kleine Loo, view from Carel Reinierskade to Reigenbergseweg





2016 Het Kleine Loo, view from Carel Reinierskade to Reigenbergseweg



2016 Street profile Het Kleine Loo, section made at crossing with the Carel Reinierskade


1970 Het Kleine Loo.

Het Kleine Loo, view towards shoppingcentre Mariahoeve



**1992** Hofzichtlaan, view towards Finnenburg



2016 Het Kleine Loo, view towards shoppingcentre Mariahoeve



Hofzichtlaan, view towards Finnenburg



**1968** Catherinaland



1982

2016

Vlamenburg, view at the corner with Denenburg



2016 Catherinaland



2016 Vlamenburg, view at the corner with Denenburg







surrounded by medium rise on north, east and





## Den Haag

**Government Policies** 



## **Den Haag Mobility**

**Government Policies** 



## **Den Haag Urban Housing**

**Government Policies** 





### Mariahoeve





### Policy:

- + Diversify offer of dwellings
- + Stimulate social entrepeneurs
- + Enable contact between groups of people
- + Restore spatial quality of green aereas
- + Redevelopment of shopping mall





### Residents' favourite places:



Mariahoeve Park «Nice place for kids», «Green space»

Shopping Mall «You can find everything there»

Soccer Field «Best place to go in the weekend»

## Residents' disliked places:

Isabellaland «It's not safe at night»



«It's chaotic»

Mariahoeve Park «It's dangerous at night», «Drug dillers inside»

Shopping Mall «It's ugly and inefficient»

Soccer Field «It's too noisy»

## Ecology / Mobility / Streets & Car Parking / 🖄 🛱



\* Considering the map in a macro-scale shows the hierarchy of the streets and its used, we can say that in Mariahoeve streets such us Reigersbergenweg, Heit Kleine Loo, and also Hofzichtlaan could have an smaller profile that the existing one. In the case of the parking area, Mariahoeve is a non-payed area, where you have only to pay in Heit Kleine Loo, the street near the shopping mall.

# Ecology / Mobility / Car & Bicycle / 🐔 🛱





\* Jan Gehl \_ Cities for people

## Appendix 2: Site Research

Site 1: Reigersbergenweg	р. 88
Site 2: Diamanthorst	р. 95
Site 3: Hofzichtlaan	p. 104





- helpline, symmetrical view

## Typologies



RECOMMENDATIONS Reigersbergenweg with its sur-roundings is composed of only four dwelling typologies. Consider adding more variety.

Legenda Residential Towers Row Houses Portico Flats Corridor

Scale 1:2000

#### **Entrances**

Dwelling



#### RECOMMENDATIONS

Only a few dwellings have on entrance from Reigersbergenweg. Therefore, the street is very mute, and only used for through traffic. Concider making the streetlevel more inviting.

Scale 1:2000

#### **Green** Public, private, inaccessible and water



The green in Mariahoeve is an important structuring element. The neighbourhood is dominated by landscapes of green with some buildings on it. This urban environment is callead the 'green-urban environment'. It is in contrast with the normally more densified central urban environment.

#### Recommendation

A lot of the green that has been placed in this street is not usable and mainly to look at. This is a big waste of space. So, when designing potential new spaces of green one should really evaluate the usage of those green spots.

#### Legend Public green Private green Inaccessible green

Water

Scale 1:2000

- endless view different typologies on one street different building heights different trees longterm parking 30 km/h











# Housing Typologies













Legend On Street Parking Off Street Parking









Typologies and accesses



## **Dwelling Typologies**





### Street profile 2 Hofzichtlaan



Section right side

Section left side
## Street profile 3 Hofzichtlaan





