

Herenboerderij Bouwlust-Zeldenrust



Woonopgave



Monocultuur



Polderlandschap, Flevoland, 2018

Boerenprotest



Alternatieven woonvormen



Minitopia Den Bosch, Bureau Rezone, 2016

Nieuwe vorm van voedselverbouwen



Strokenteelt, Wageningen, 2019

Nieuwe vorm van voedselverbouwen



Nieuwe vorm van voedselverbouwen



Alternatieven woonvormen

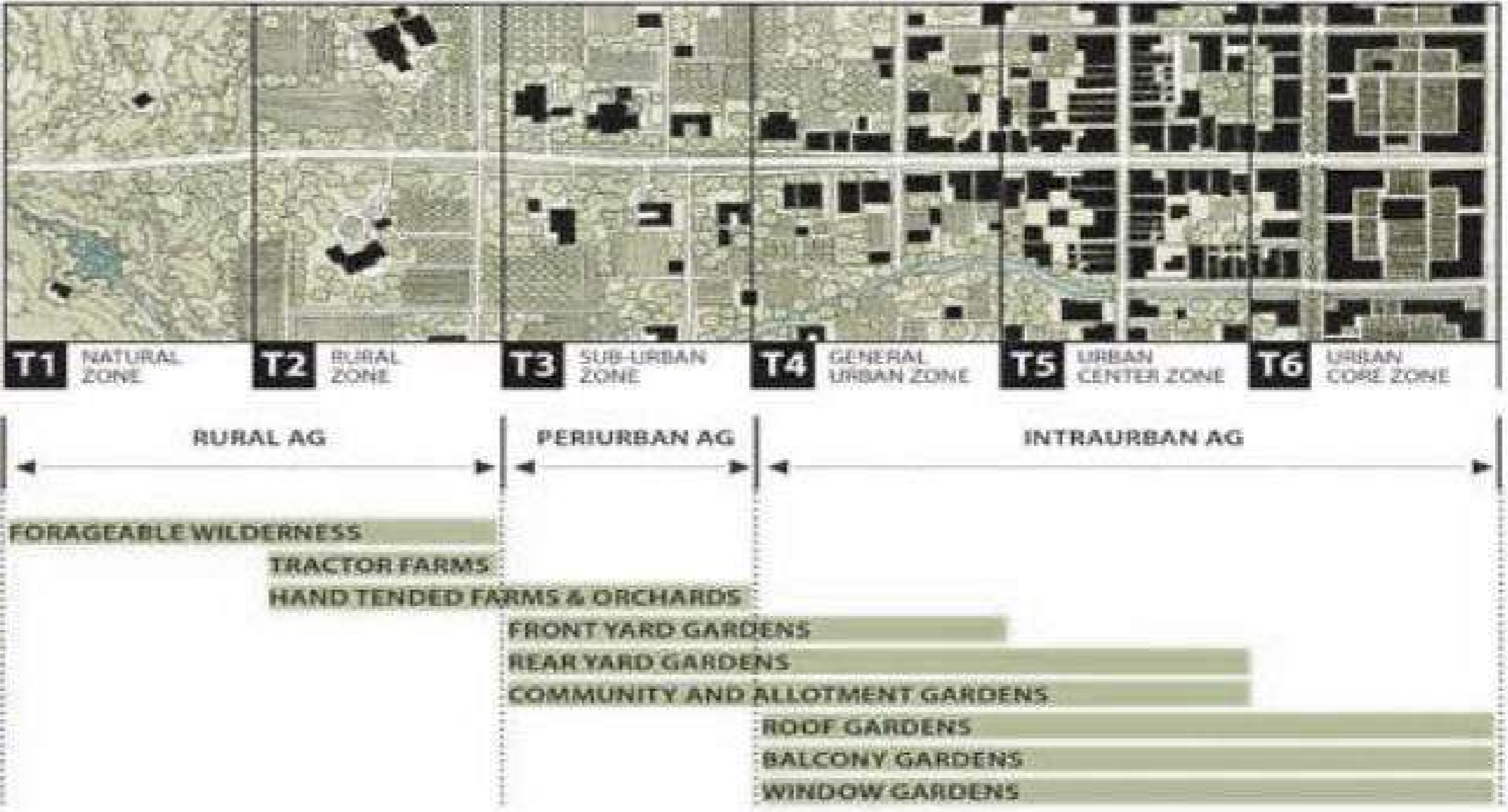


Persoonlijke motivatie



Gagelweg 3 te Stenenbergen, 2018

Peri urbane zone

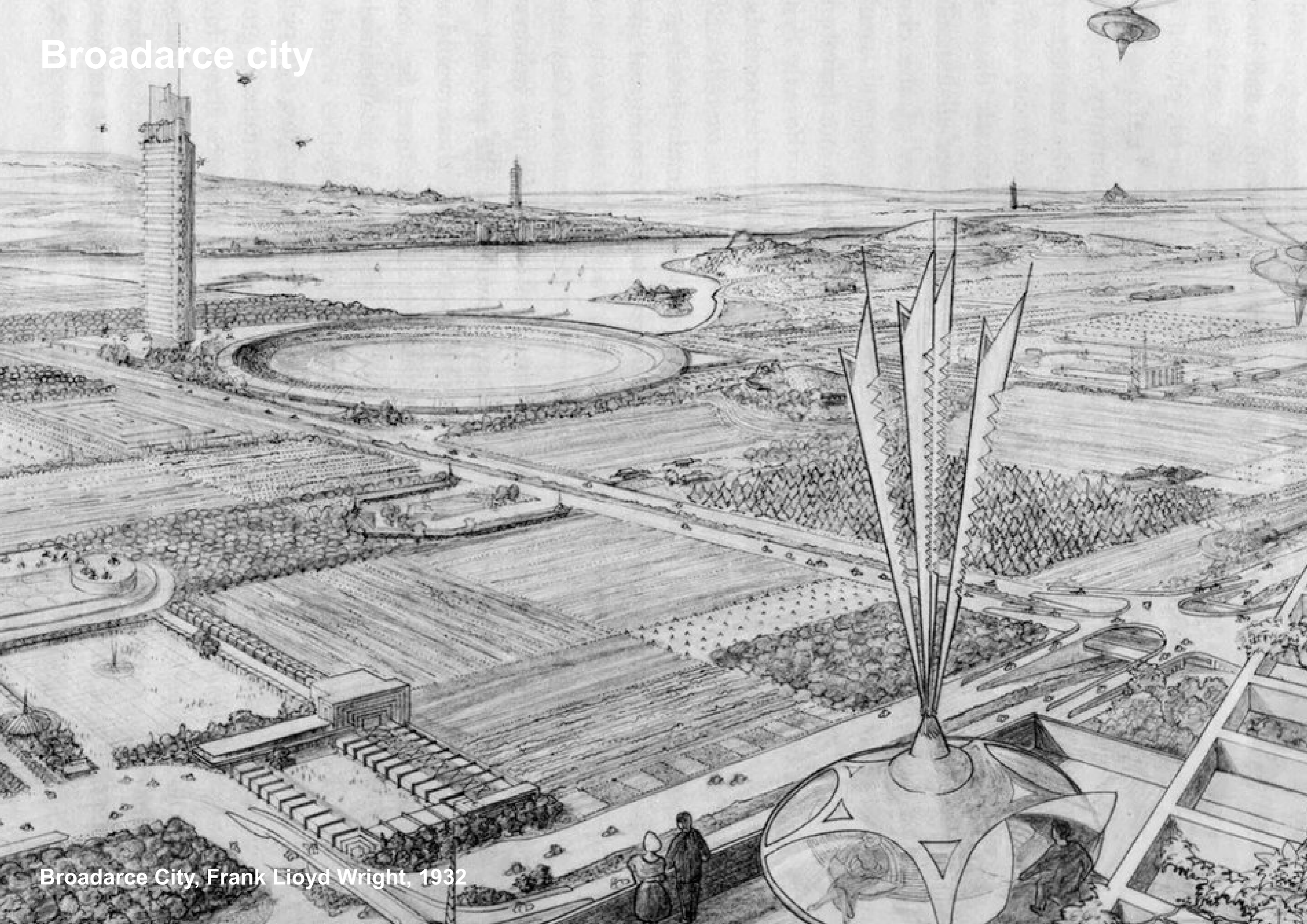


ANDRES DUANY AGRARIAN URBANISM

A SEMINAR FRIDAY FEB 3RD 11:00 - 1:00
RECEPTION TO FOLLOW - PUBLIC INVITED

SSA BERNARD & ANNE SPITZER SCHOOL OF ARCHITECTURE
AT THE CITY COLLEGE OF THE CITY UNIVERSITY OF NEW YORK 141 CONVENT AVE

Broadarce city



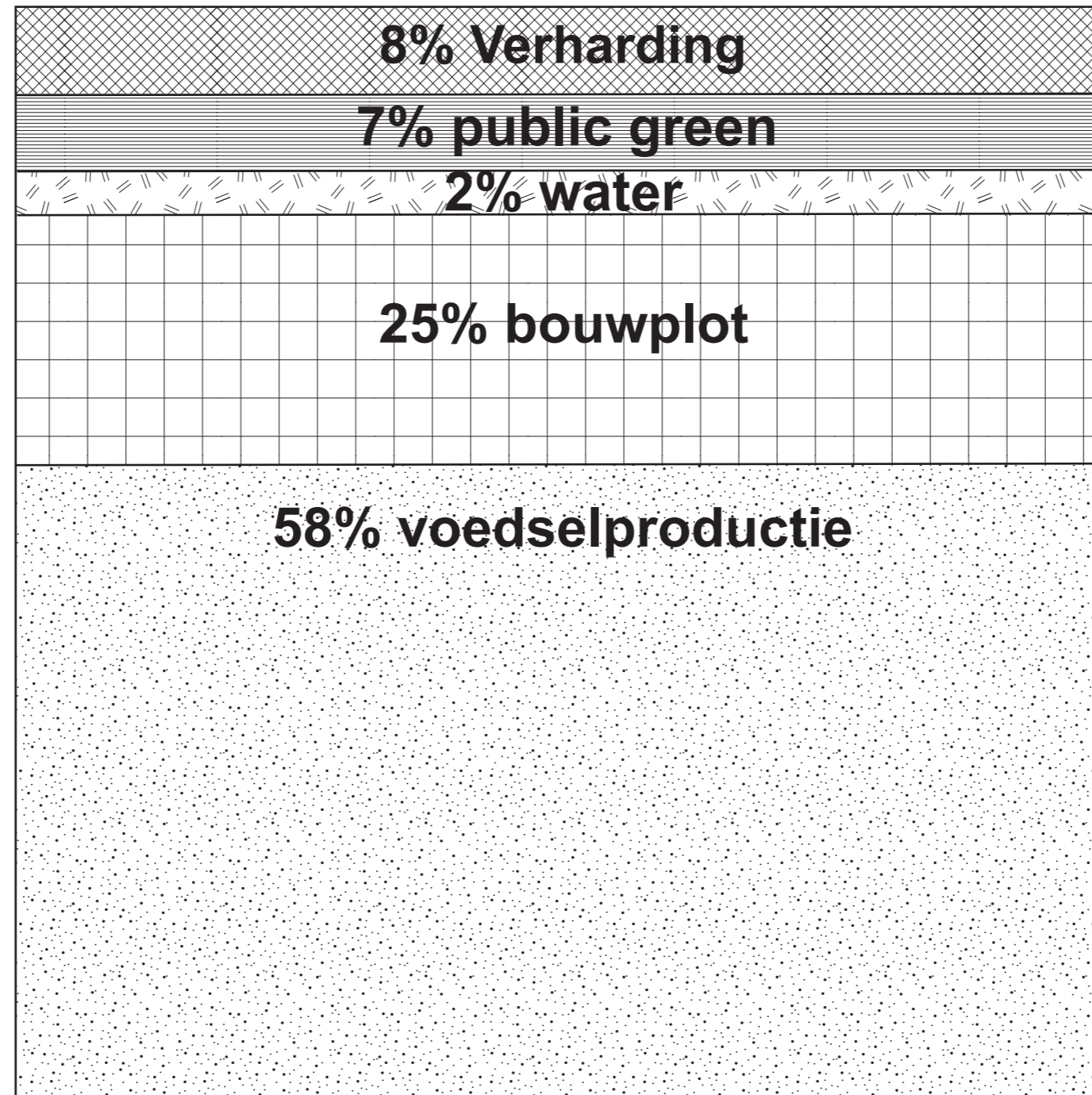
Broadarce City, Frank Lloyd Wright, 1932

Oosterwold



Oosterwold Almere, MVRDV, 2011

Raamwerk



Oosterwold

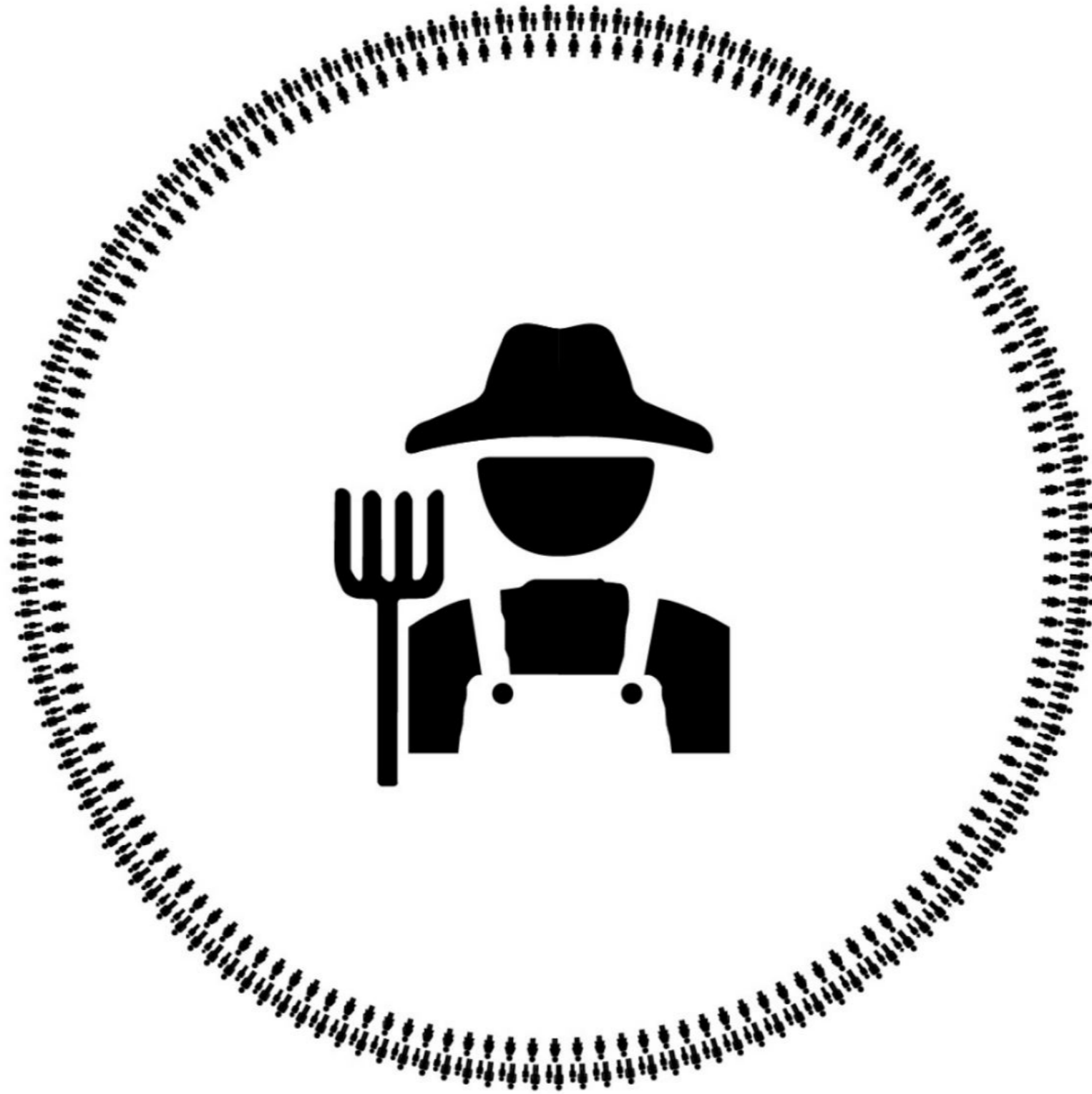


Oosterwold Almere, MVRDV, 2019

Herenboerprincipe



Economisch model



Vlinderstrik



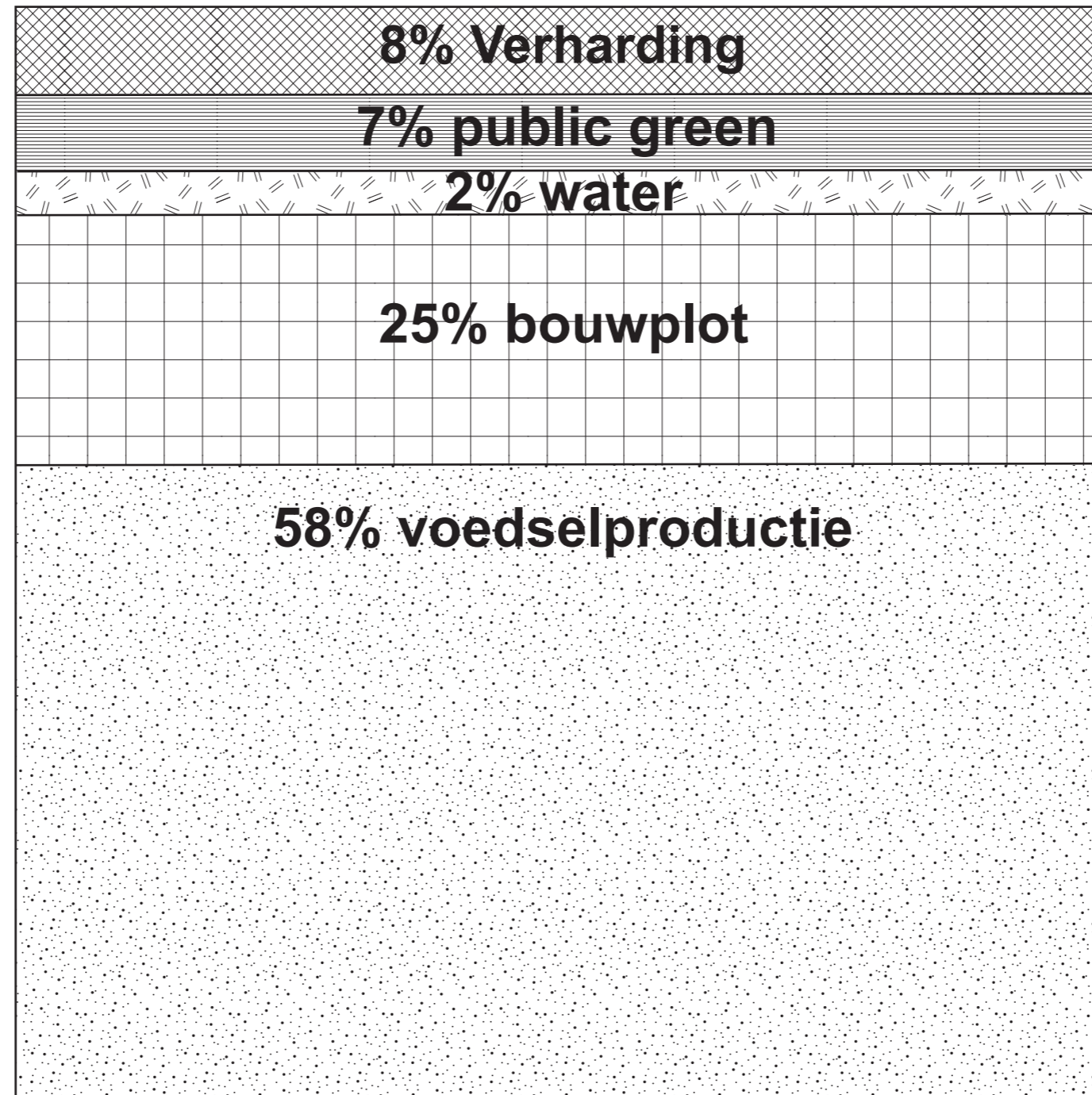
Vlinderstrik, Googlemaps, 2022

Opgave

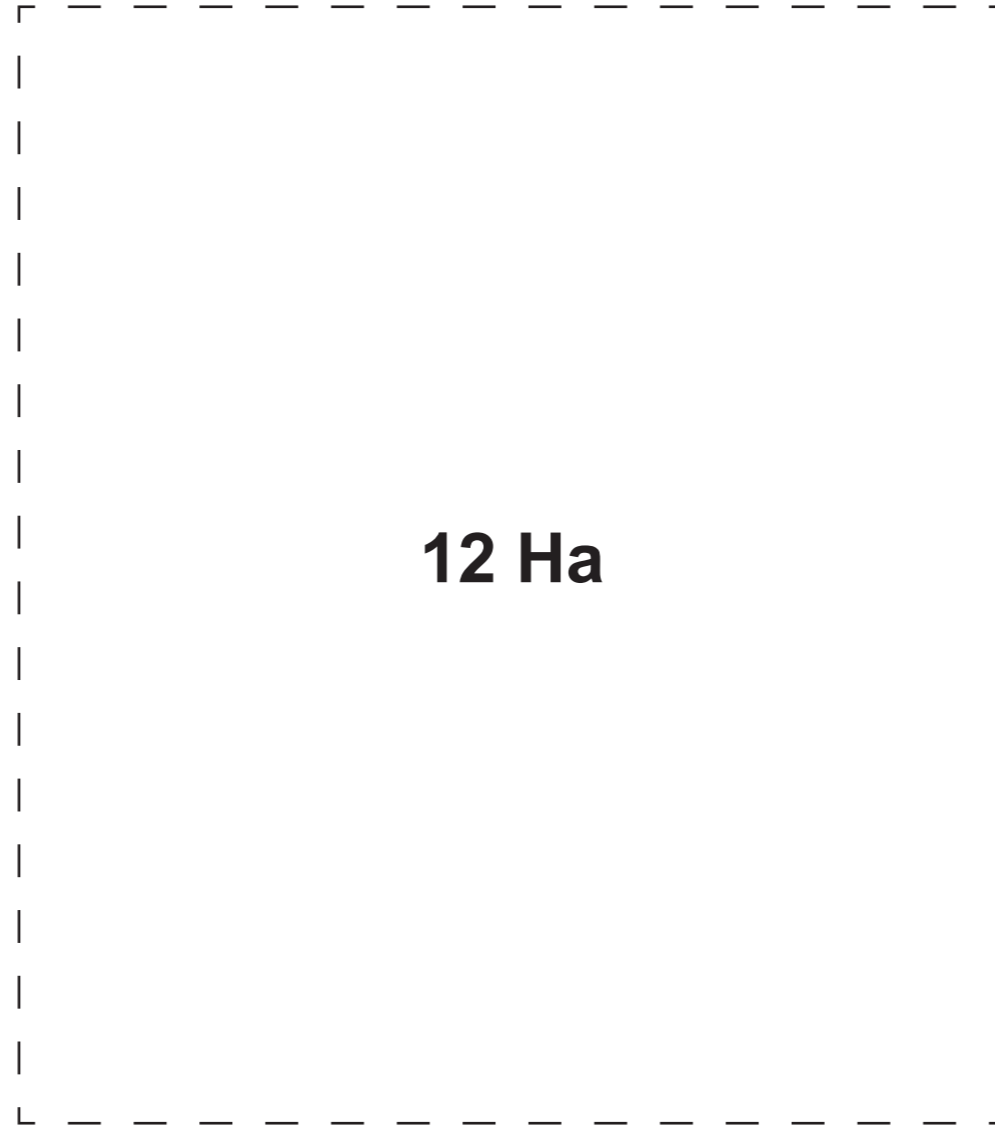


Ontwikkeling klein Kadoelen, Houben/Van Mierlo, 2014

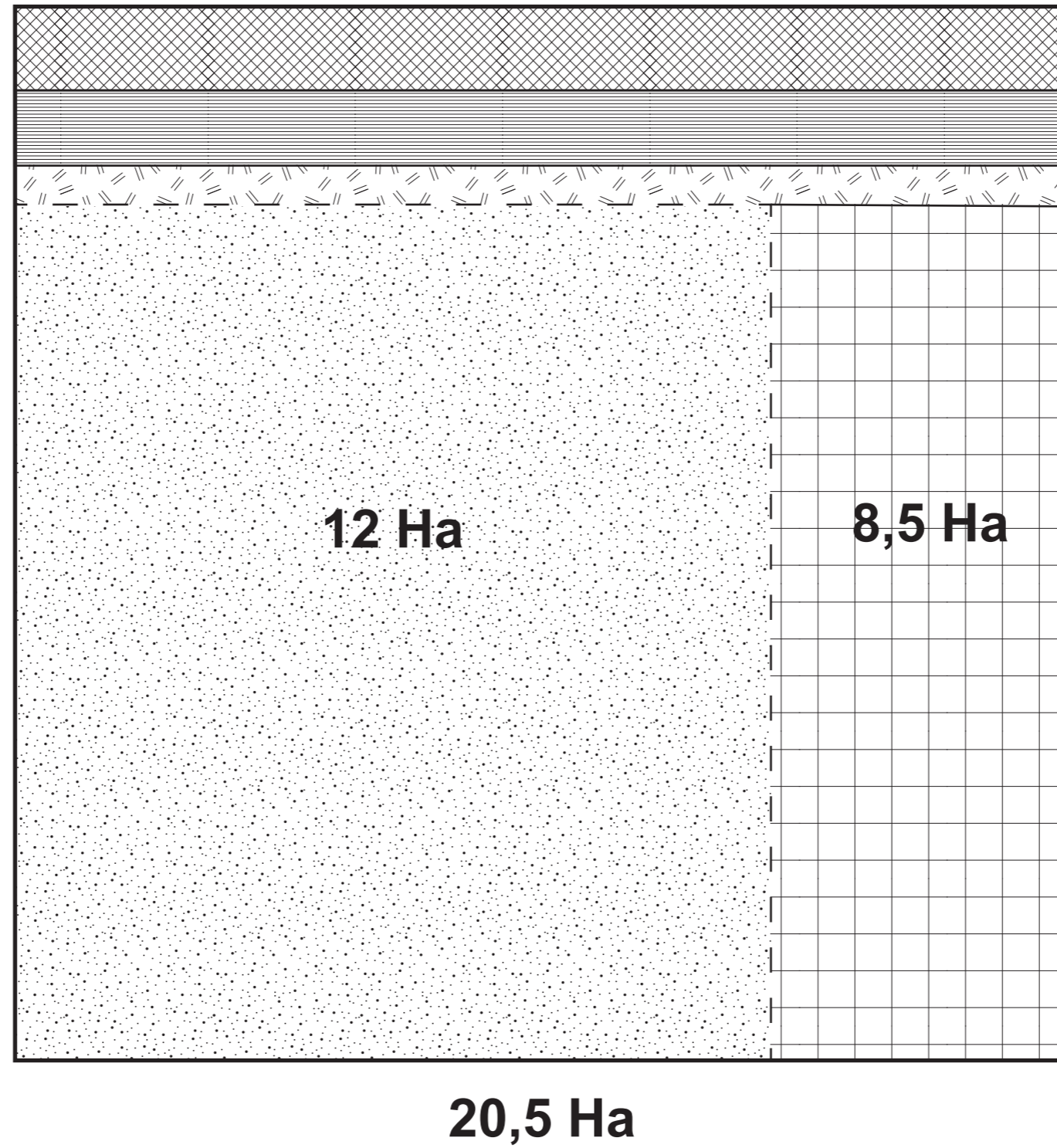
Verhouding Oosterwold



Economische model Herenboer



Opgave



Krachtvelden (Economie, Geologie, Geografie, Urbanisatie)



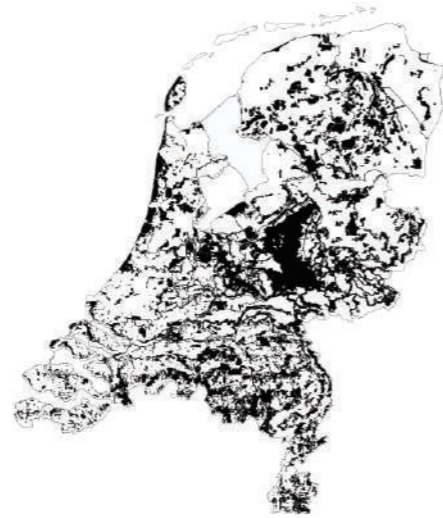
Opbrengste akkerbouw en volle grond groente teelt > 300 kt/km²



Bodemvruchtbaarheid > 300 cell



Nationale landschappen



Natuur netwerk

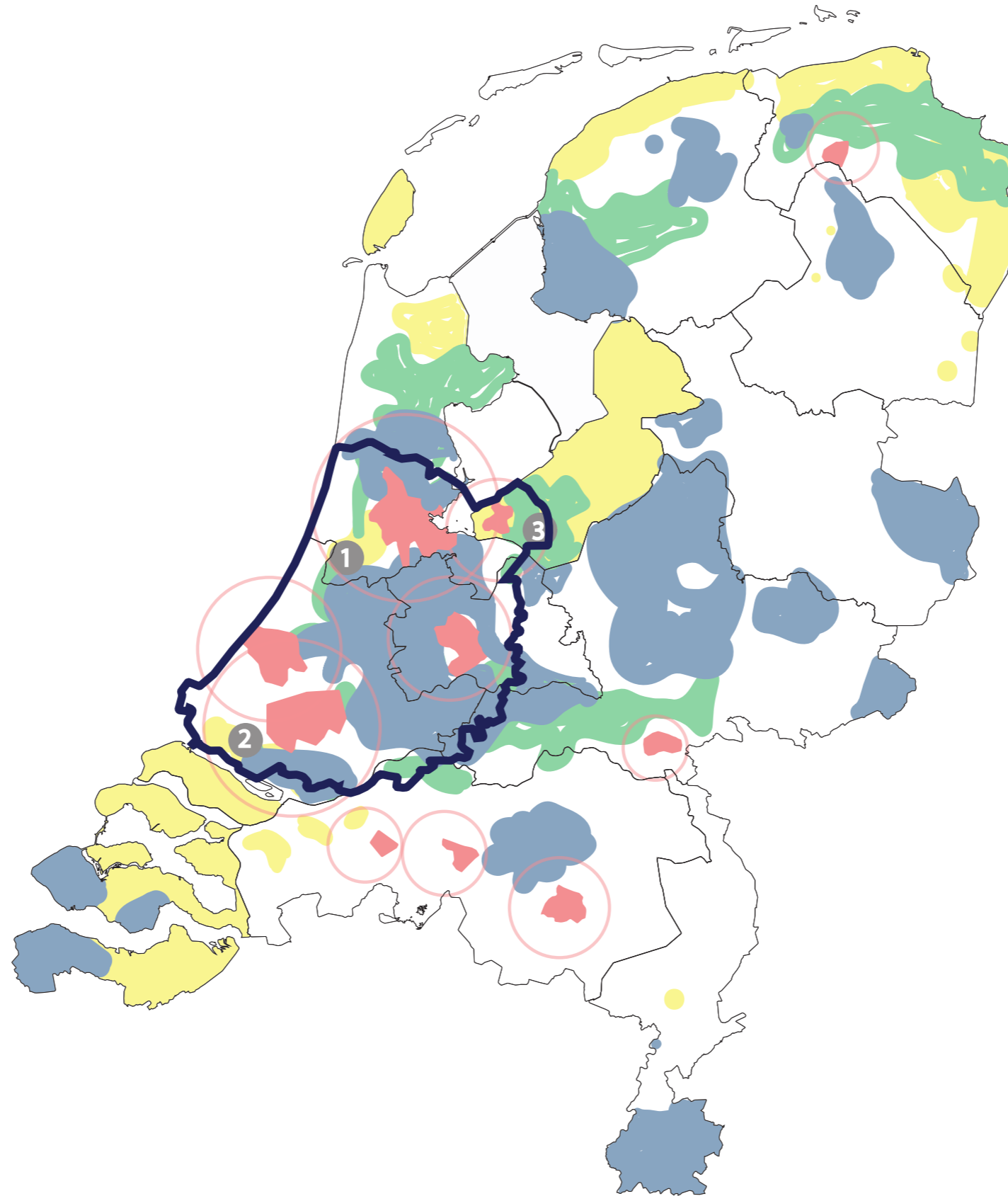


Tien grootste steden



Pre urban gebieden

Locatie



- 1 Nieuwe Vennepe
- 2 Spijkernisse
- 3 Oosterwold

Spijkernise

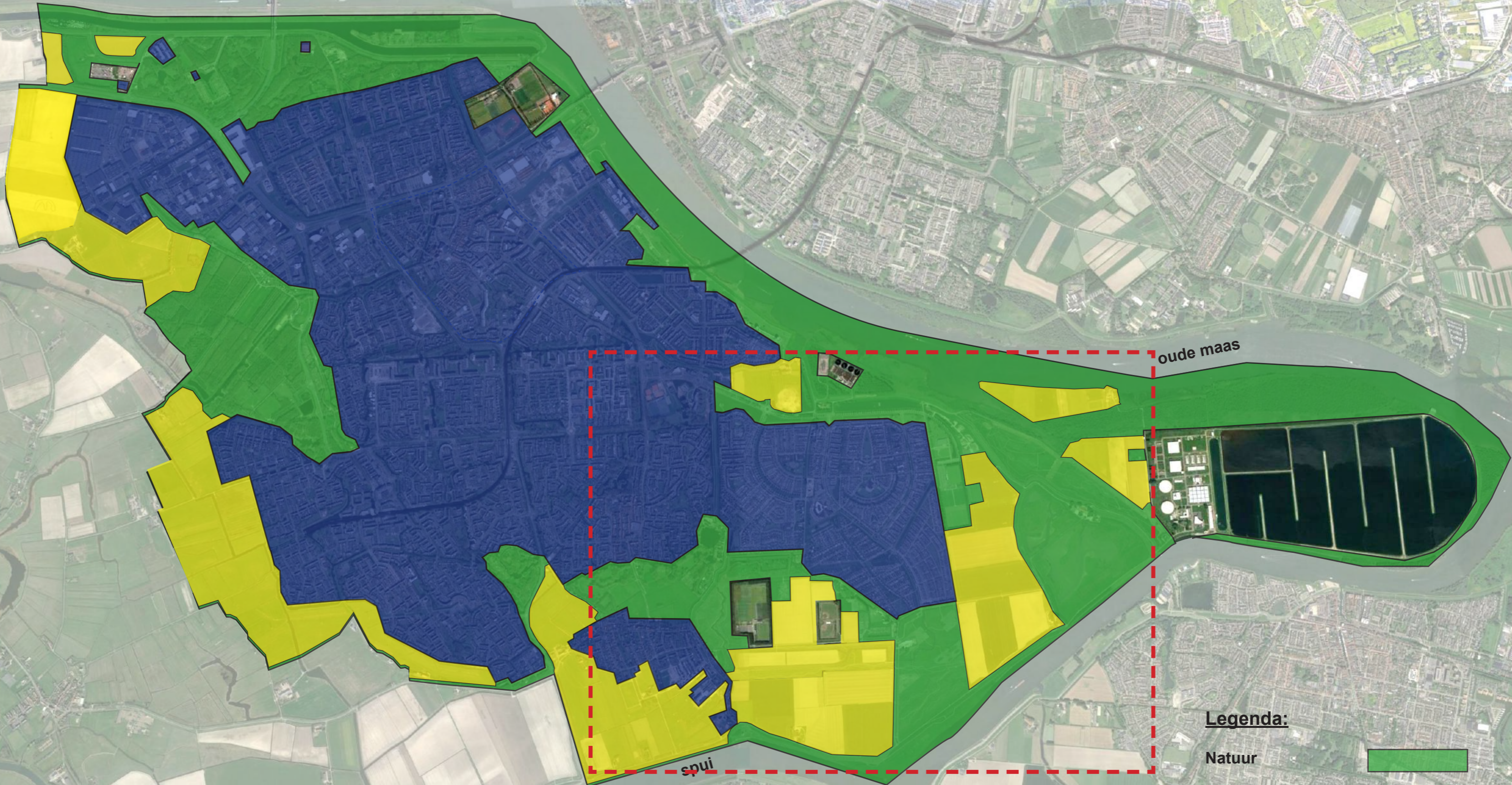


oude maas



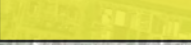
spui

Spijkernise, Googlemaps, 2022

Architectuur, Argicultuur, Natuur



Legenda:

- Natuur 
- Stad 
- Voedselproductie 

Stadsuitbreidings locaties



Locatie

20,5 Ha

Spijkernise, Googlemaps, 2022



Rijksmonument



Rijksmonument



Hoeve Bouwlust-Zeldenrust, Gemeente Nissewaard, 1860

Noord Nederlandse Huisgroep



Kop-halsrompboerderij, Friesland, 2016

Hallenhuisgroep



T-boerderij Schemmink, Drempt, 2012

Dwarshuizengroep



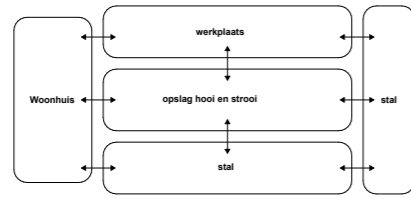
Boerderij hoeve De Oude Bongard, Wijnandsrade, 2013

Zweeuwse en Vlaamse Huisgroep

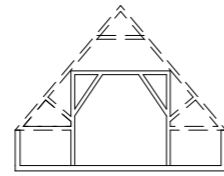


Boerderij 's-Heerenhoeksedijk, Ovenzande, 2011

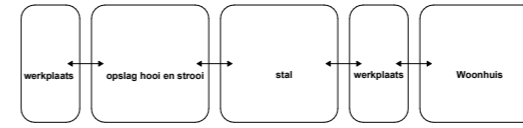
Historische boerderij types



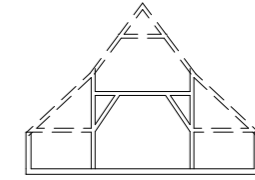
VLEKKENPLAN
Opslag centraal



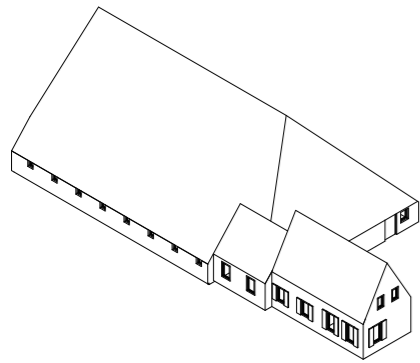
DOORSNEDEN
Dekbalkgebint



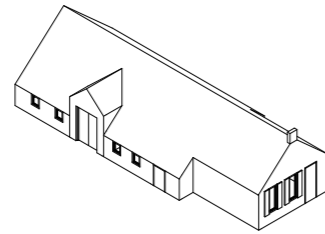
VLEKKENPLAN
Linear blok



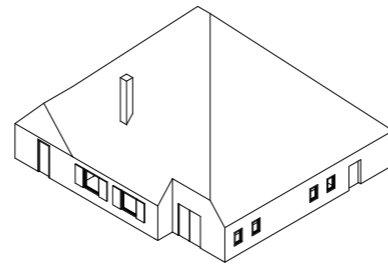
DOORSNEDEN
Ankerbalkgebint



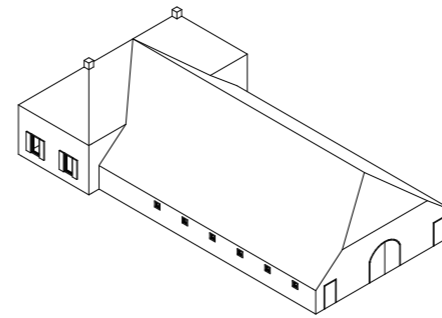
KOP-HALS-ROMPBOERDERIJ



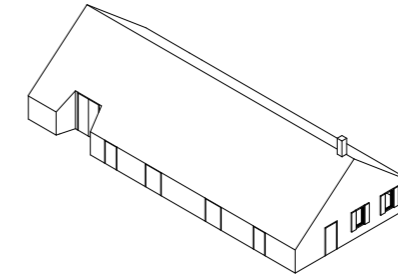
OLDAMBSTER BOERDERIJ



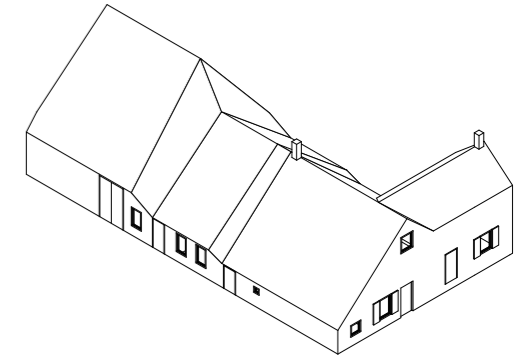
STOLPBOERDERIJ



T-BOERDERIJ

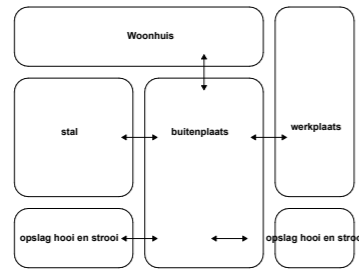


LANGSGEVELBOERDERIJ

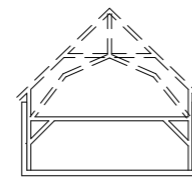


ALBLASSERWAARDSE BOERDERIJ

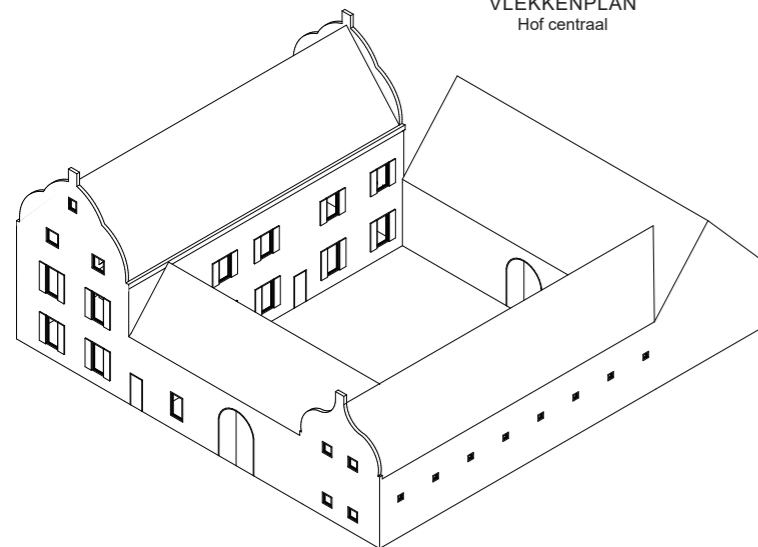
Noord-Nederlandse Huisgroep



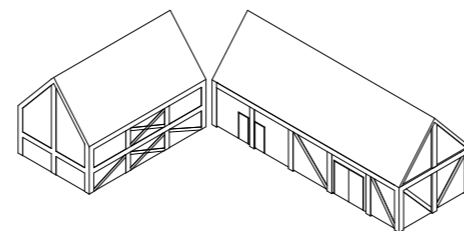
VLEKKENPLAN
Hof centraal



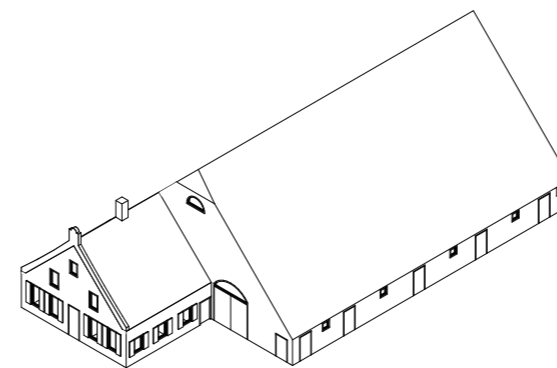
DOORSNEDEN
Kopbalkgebint



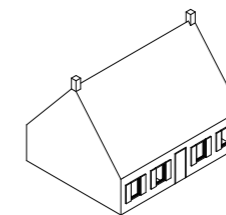
HOEVEBOERDERIJ



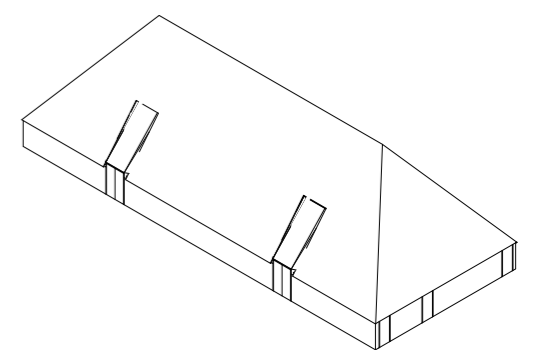
VAKWERKBOERDERIJ



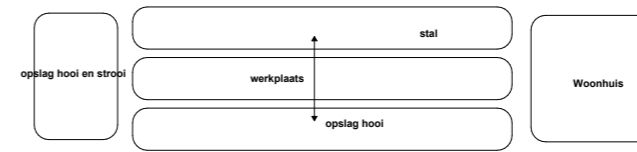
ZEEUWSE SCHUURTYPE



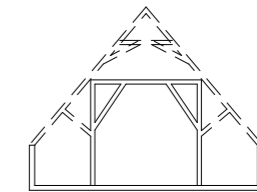
VLAAMSE SCHUURTYPE



Zeeuwse en Vlaamse huisgroep



VLEKKENPLAN
Linear ongeschakeld



DOORSNEDEN
Tussenbalkgebint

Dwarshuizengroep



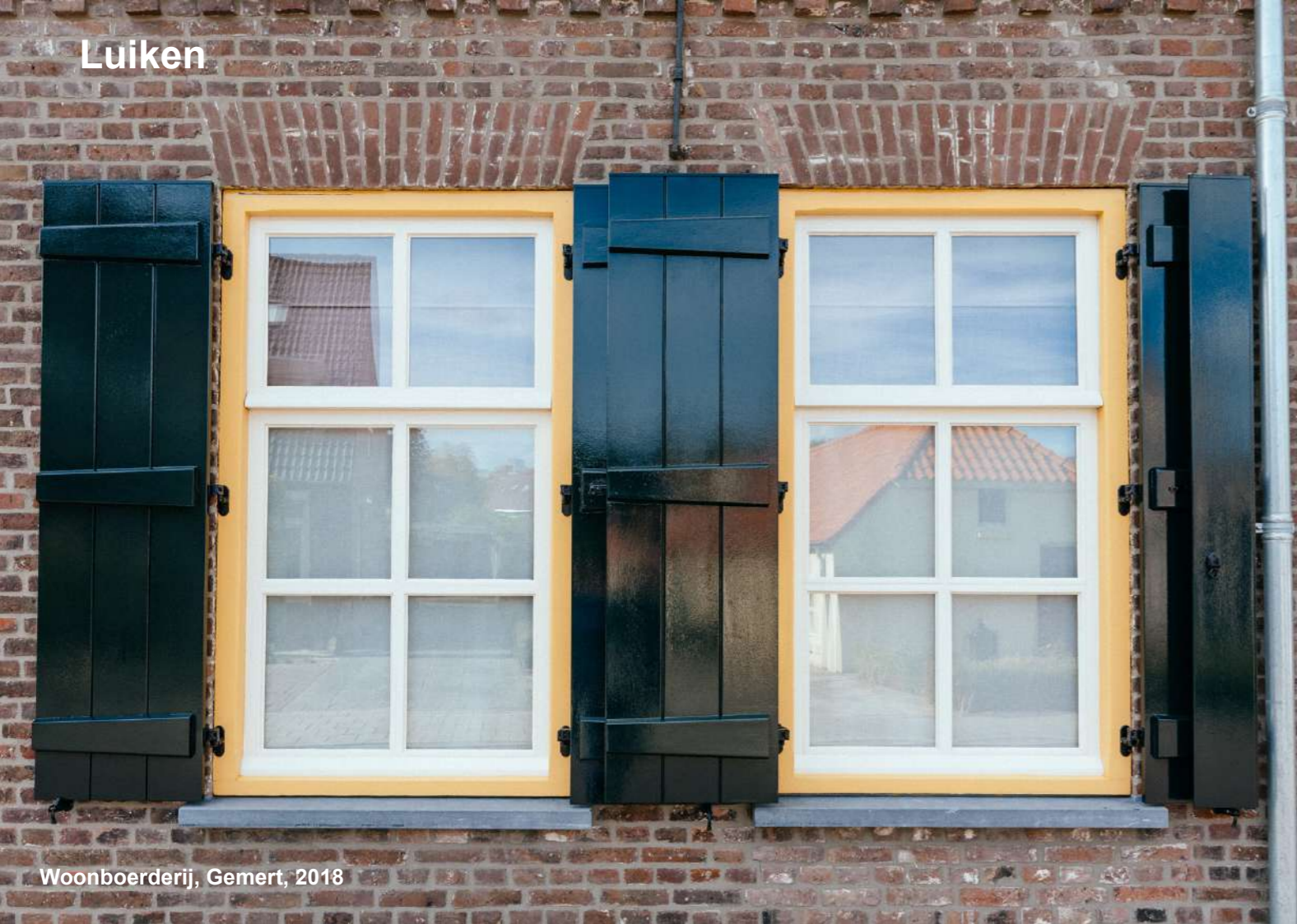
Vide

Kop-hals-rompboerderij Gele Buorren te Baard, 2008



Poort

Boerderij Oorbeck te Twakkelo, 2015



Luiken

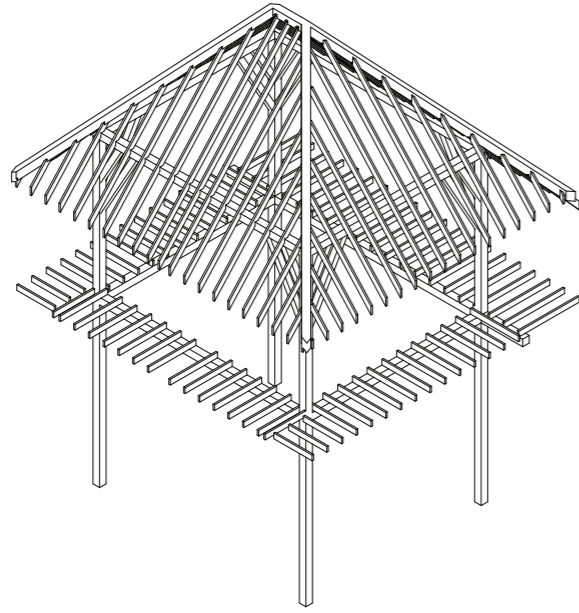
Woonboerderij, Gemert, 2018



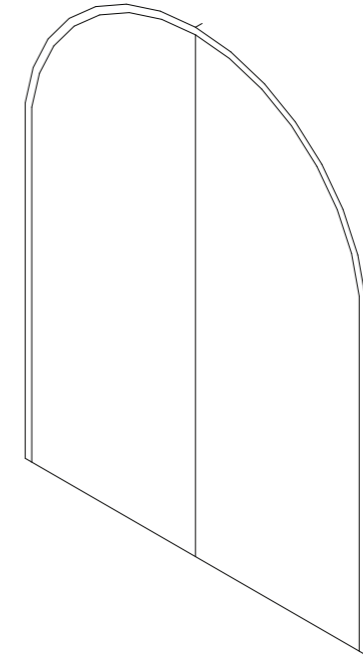
Constructie

Oldambster boerderij, Oostwold, 2004

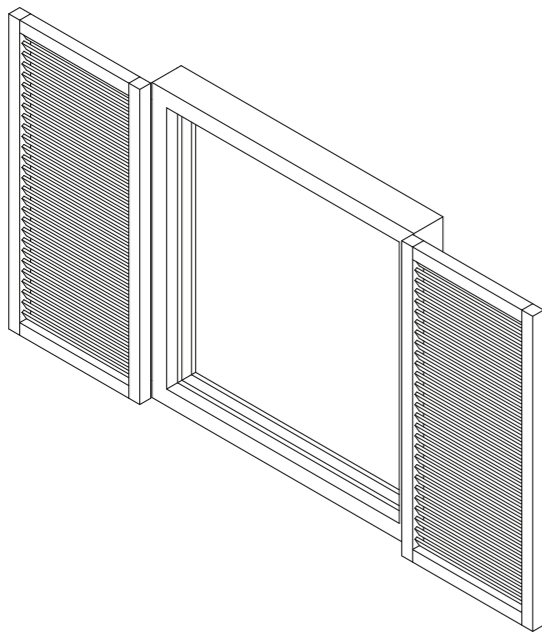
Architectonische elementen boerderij



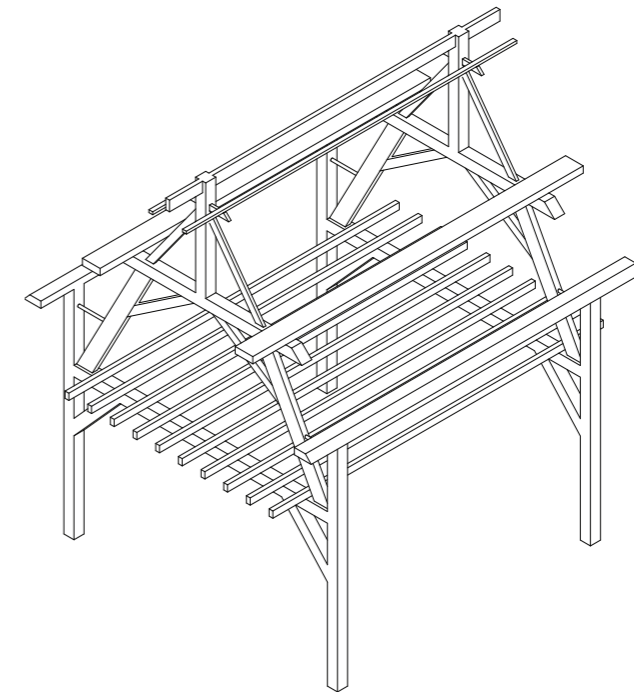
VIDE



POORT



LUIKEN

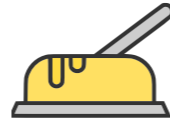


CONSTRUCTIE

Voedselproductie



Menu Voedingscentrum



Smeer- en bereidingsvetten
65 gram per dag



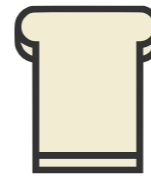
Fruit
200 gram per dag



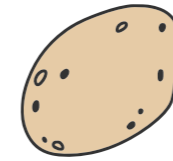
Groente
250 gram per dag



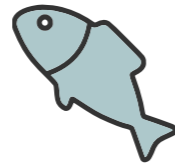
Graanproducten
3 keer per week 250 gram



Brood
6-8 bruine/volkoren
boterhamen per dag



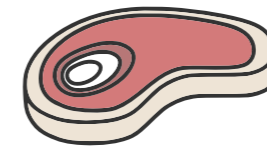
Aardappelen
4 keer per week 300 gram



Vis
1 keer per week 100 gram



Kippen vlees
2 keer per week 100 gram



Varkens/rund vlees
2 keer per week 100 gram



Noten
25 gram per dag



Eieren
2-3 eieren per week

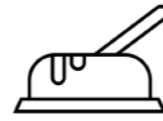


Peulvruchten
1 keer per week 135 gram



Zuivel
40 gram kaas en
450 ml zuivel per dag

Menu bewoners



Smeer- en bereidingsvetten
65 gram per dag



Fruit
200 gram per dag



Groente
250 gram per dag



Graanproducten
3 keer per week 250 gram



Brood
6-8 bruine/volkoren
boterhamen per dag



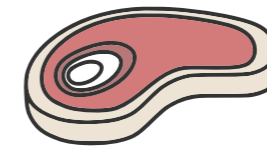
Aardappelen
4 keer per week 300 gram



Vis
1 keer per week 100 gram



Kippen vlees
2 keer per week 100 gram



Varkens/rund vlees
1 keer per week 100 gram



Noten
25 gram per dag



Eieren
2-3 eieren per week



Peulvruchten
2 keer per week 135 gram

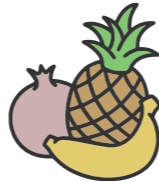


Zuivel
40 gram kaas en
450 ml zuivel per dag

Voedselconsumptie



Smeer- en bereidingsvetten
11830 kg



Fruit
200 gram per dag



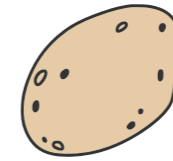
Groente
250 gram per dag



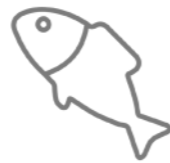
Graanproducten
19500 Kg



Brood
38220 Kg



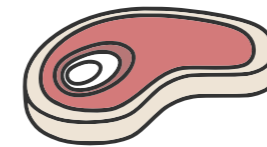
Aardappelen
4 keer per week 300 gram



Vis
2600 Kg



Kippen vlees
2 keer per week 100 gram



Varkens/rund vlees
1 keer per week 100 gram



Noten
25 gram per dag



Eieren
2-3 eieren per week



Peulvruchten
2 keer per week 135 gram



Zuivel
7280 Kg

Kweekoppervlakte



Oogstkalender

	Winter			Lente			Zomer			Herfst		
	1	2	3	4	5	6	7	8	9	10	11	12
Asperge			☆	☆								
Chinese kool									☆	☆		
Pompoen									☆	☆		
Prei	☆	☆	☆	☆	☆	☆			☆	☆	☆	☆
Raapstelen				☆	☆			☆	☆	☆		
Rettich							☆	☆	☆			
Rode kool										☆	☆	
Schorseneren	☆	☆	☆							☆	☆	☆
Tuinboon						☆	☆	☆				
Ui	☆	☆	☆	☆	☆					☆	☆	☆
Winterpeen										☆	☆	☆
Wortelen							☆	☆	☆	☆	☆	
Bleekselderij								☆	☆	☆		
Bloemkool				☆	☆	☆	☆	☆				
Bosui						☆	☆	☆				
Broccoli						☆	☆	☆	☆	☆		
Courgette							☆	☆	☆	☆		
Ijsberg						☆	☆	☆	☆	☆		
Koolrabi									☆	☆		
Paksoi									☆	☆		
Postelein						☆	☆	☆	☆	☆		
Sperzieboon						☆	☆	☆	☆	☆		
Spitskool						☆	☆	☆	☆	☆		
Zoete mais							☆	☆	☆	☆		
Tuinboon						☆	☆	☆				
Veldsla				☆	☆	☆	☆	☆				
Witlof										☆	☆	
Wittekool										☆	☆	
Aardpeer	☆	☆	☆	☆								☆
Boerenkool	☆	☆	☆						☆	☆	☆	☆
knolselderij										☆	☆	
pastinaak	☆	☆	☆							☆	☆	☆
snijboon							☆	☆	☆			
spruitjes												☆
Spinazie					☆	☆	☆	☆				
Knolvenkel									☆	☆	☆	☆
Savooiekool	☆	☆	☆					☆	☆	☆	☆	☆
Rode bieten												
Bospeen						☆	☆	☆	☆	☆		
Waspeen						☆	☆	☆	☆	☆		
Radijs						☆	☆	☆	☆	☆		

Menu

Winter

Groente:

Prei
Ui
Aardpeer
Asperge
Boerenkool
Pastinaak
Savooie kool
Schorseren
Spruitjes

Lente

Groente:

Prei
Ui
Aardpeer
Asperge

Bloemkool
Bosui
Raapstelen
Tuinbonen
Brocoli
Bospeen
Radijs
Rode Biet
Ijsbergsla
Waspeen
Postelein
Sperzieboon
Spitskool
Spinazie
Veldsla

Zomer

Groente:

Prei
Ui

Chinse kool
Pompoen
Rettich
Bloemkool
Bosui
Raapstelen
Tuinbonen
Brocoli
Bospeen
Radijs
Rode Biet
Ijsbergsla
Waspeen
Bleekselderij
Boerenkool
Chinese kool
Courgette
Knolvenkel
Koolrabi
Paksoi
Pompoen
Sperzieboon
Spitskool
Zoete Mais
Bleekselderij
Snijboon
Spinazie
Veldsla

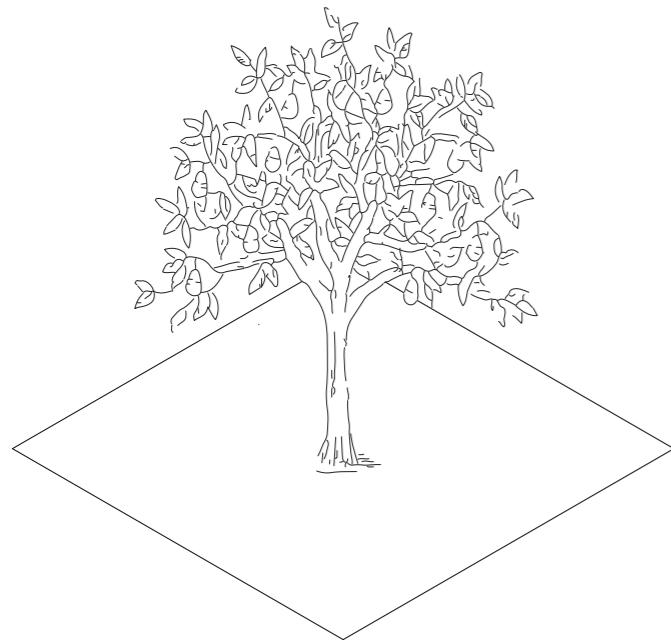
Herfst

Groente:

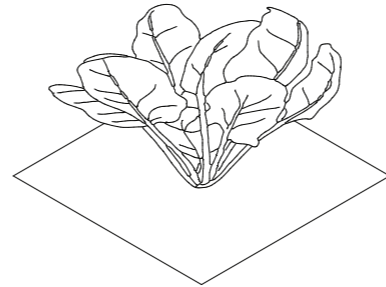
Prei
Ui
Aardpeer
Raapstelen
Rode kool
Schorseneren
Winterpeen
Wortelen

Brocoli
Bospeen
Radijs
Rode Biet
Ijsbergsla
Waspeen
Bleekselderij
Boerenkool
Chinese kool
Courgette
Knolvenkel
Koolrabi
Paksoi
Pompoen
Sperzieboon
Spitskool
Zoete Mais
Knolselderij
Pastinaak
Savooie kool
Witlof
Witte kool

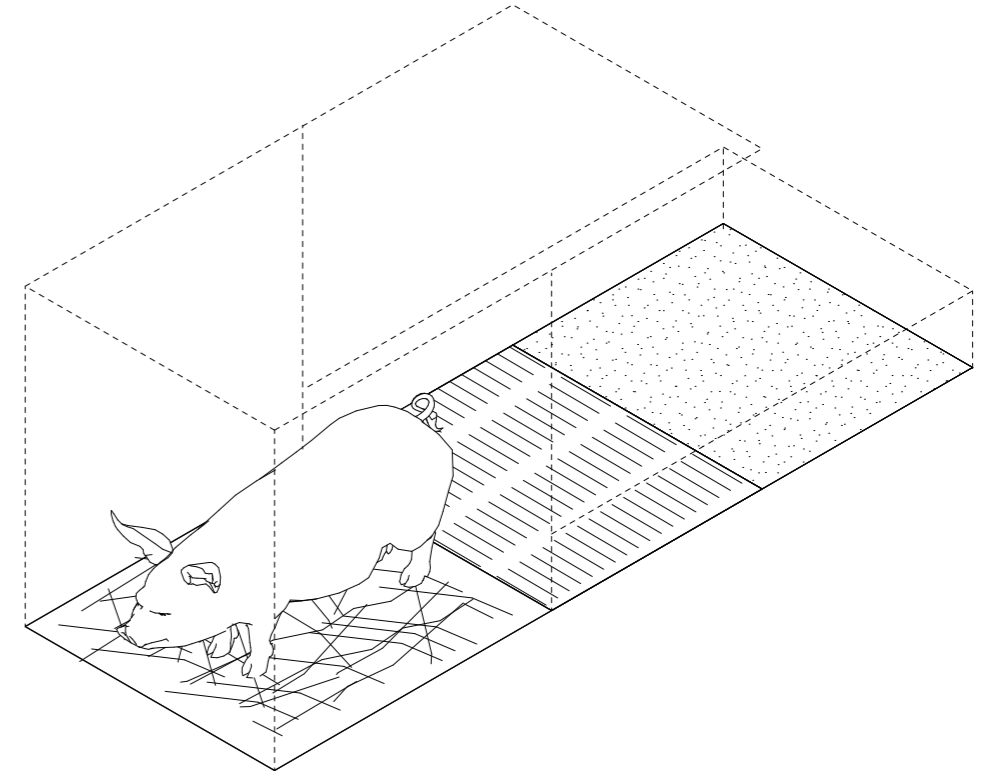
Bouwblokken



PERENBOOM
5,0X5,0X5,0M (LXBXH)

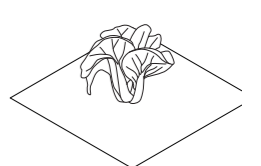
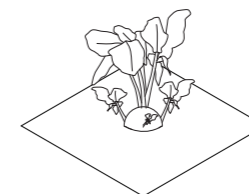
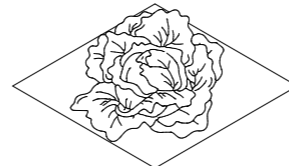
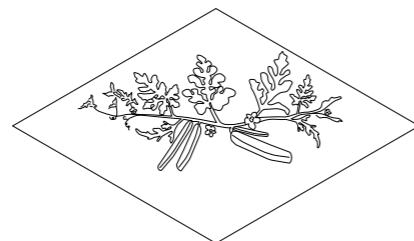
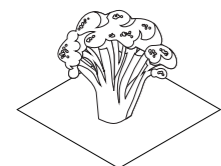
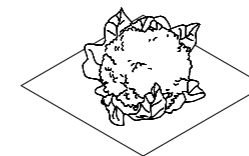
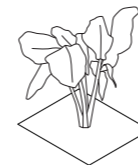
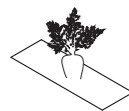
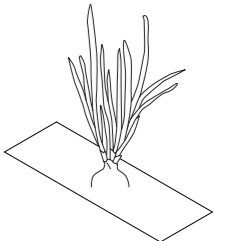
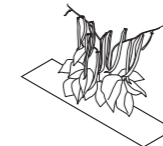
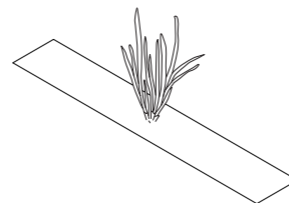
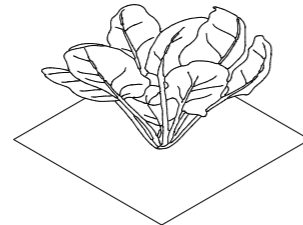
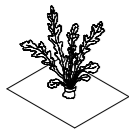
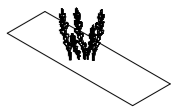
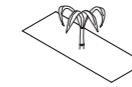
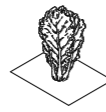
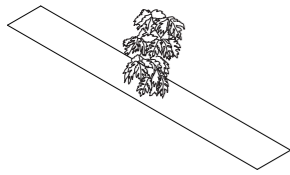
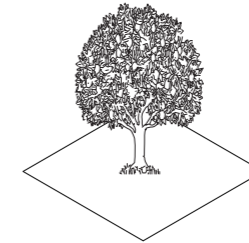
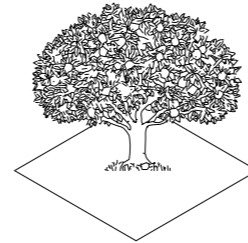
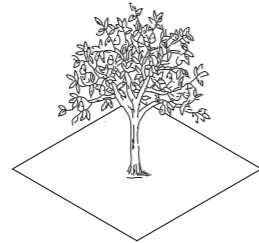
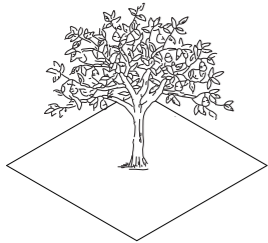
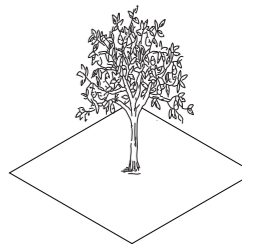
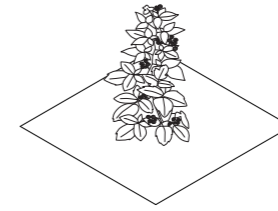
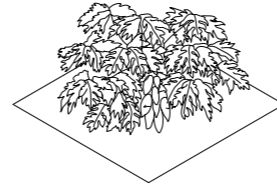
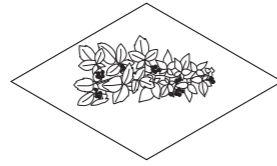
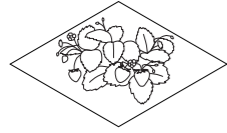


RODE KOOL
0,9X0,9X0,35M (LXBXH)



VARKENS
1,5X4,2X1,8M (LXBXH)

Bouwblokken



Strokenteelt



Strokenteelt, Wageningen, 2019

Rijenteelt



Rijenteelt, American AgCredit, 2021

Mengteelt



Mengteelt, FiBL Switzerland, 2019

Pixelteelt



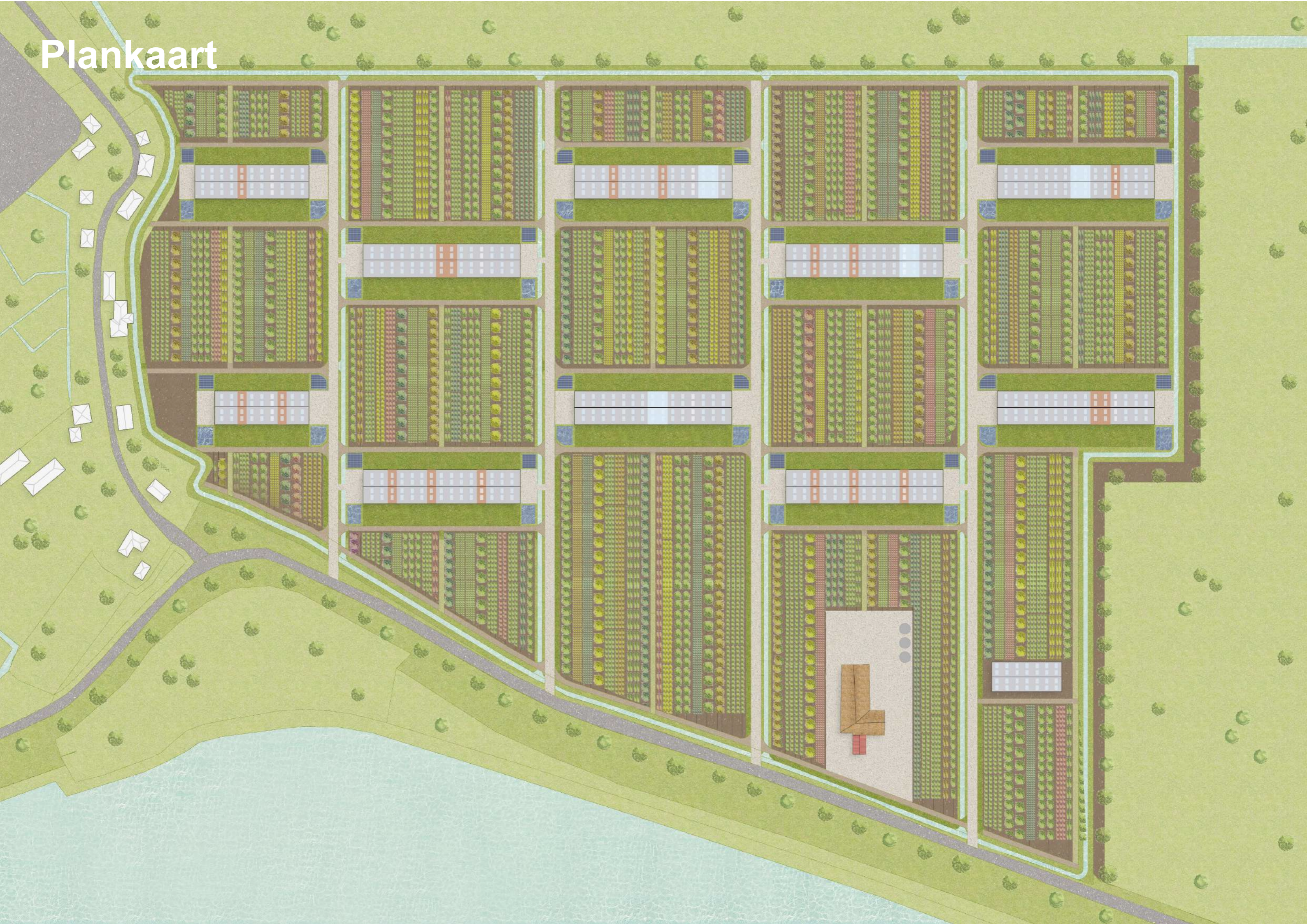
Pixelteelt, Campus Almkerk, 2021

Strokenteelt

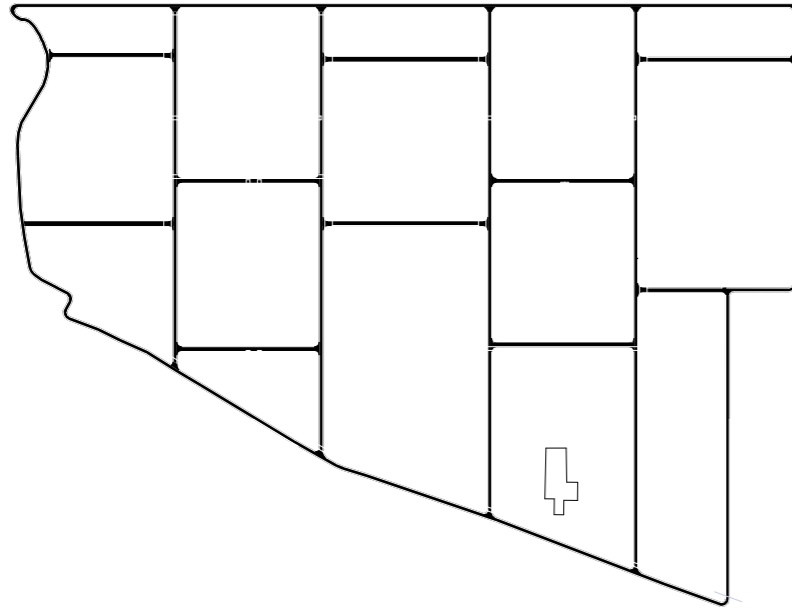


Strokenteelt, Wageningen, 2019

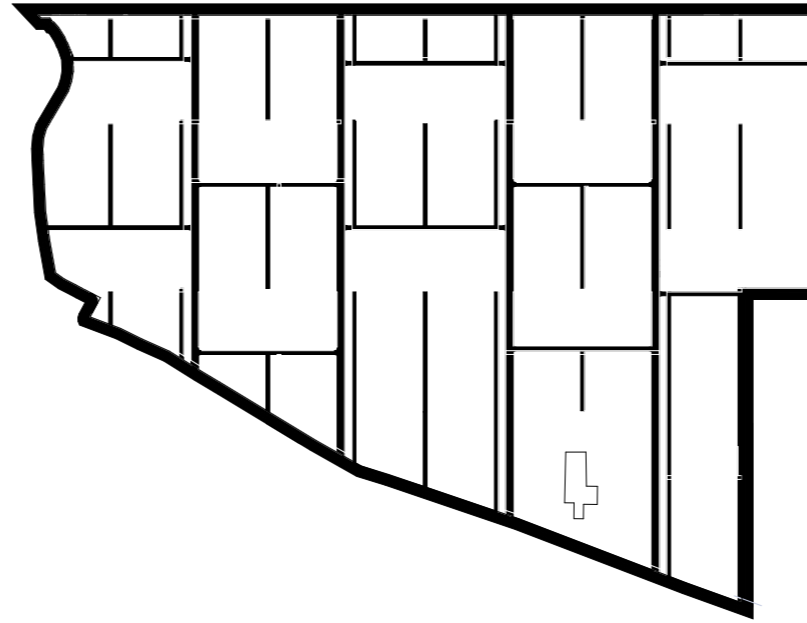
Plankaart



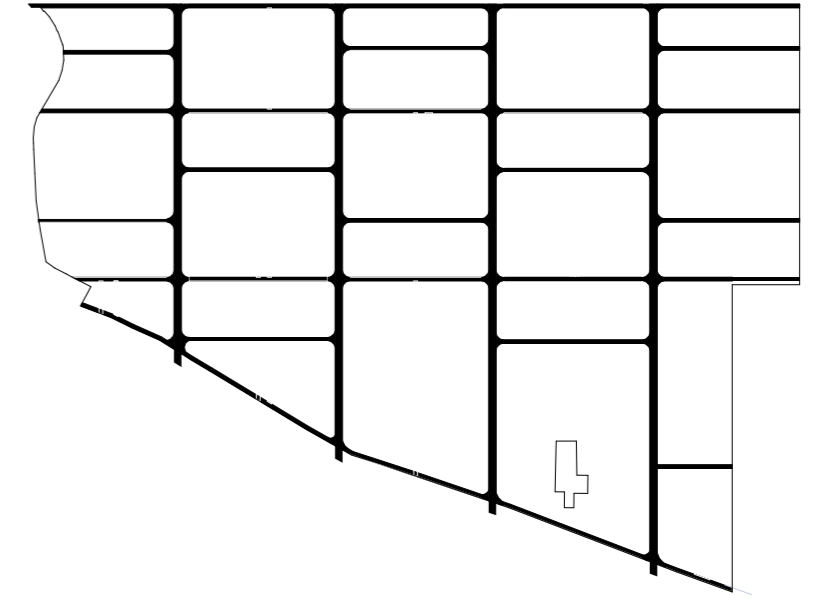
Planlagen



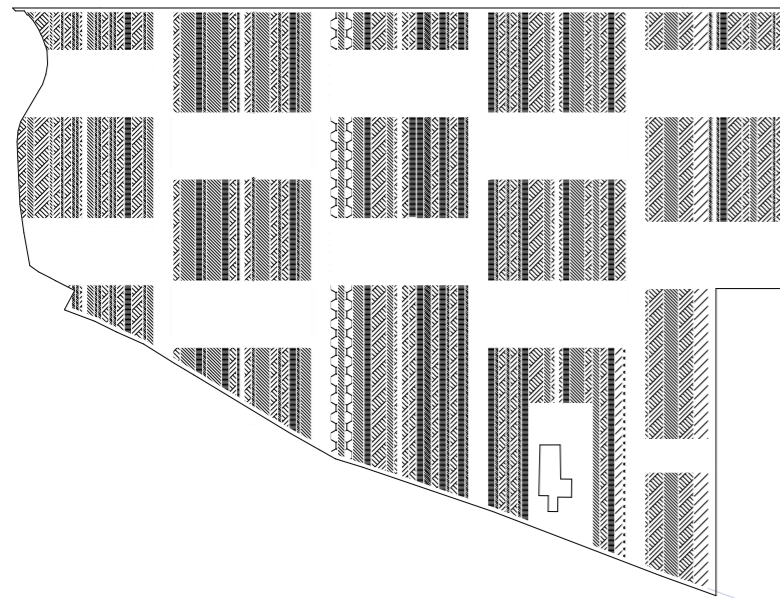
WATER STRUCTUUR



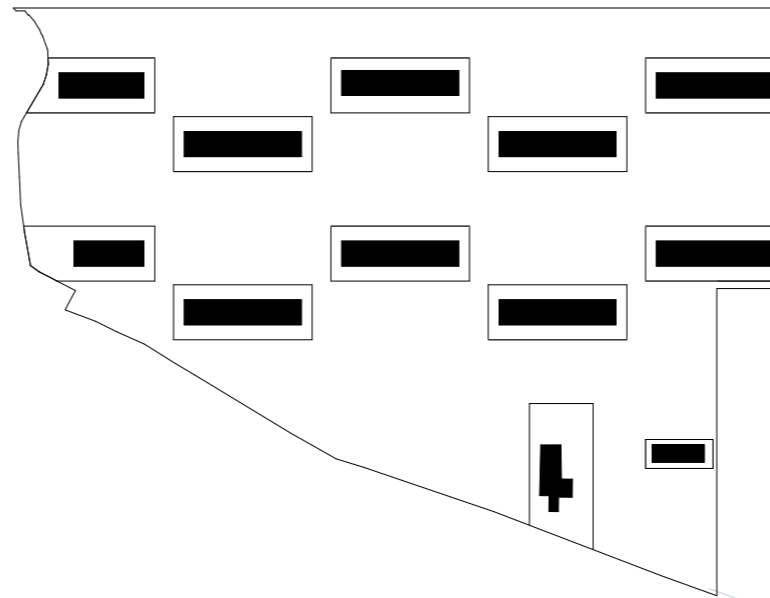
ECOLOGISCHE STRUCTUUR



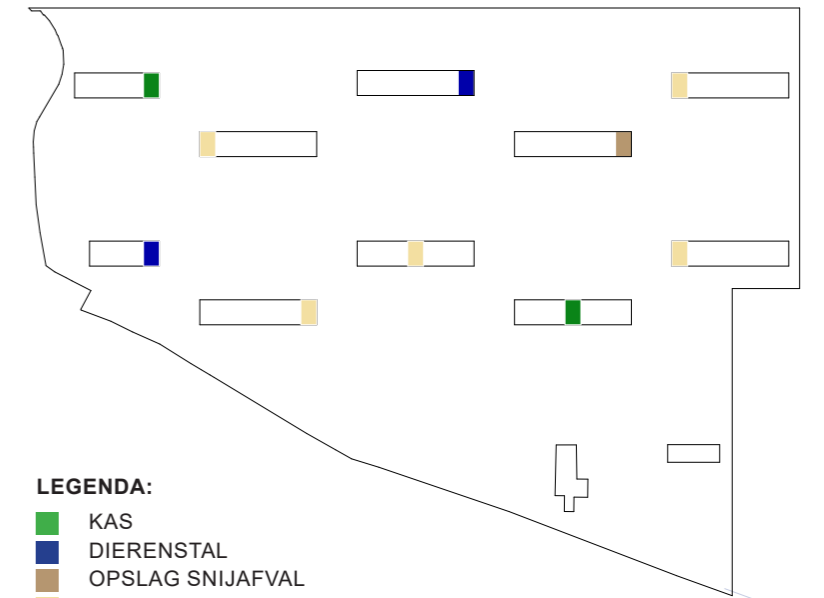
WEGEN STRUCTUUR



AGARISCHE SYSTEEM



ERF + BEBOUWING SYSTEEM

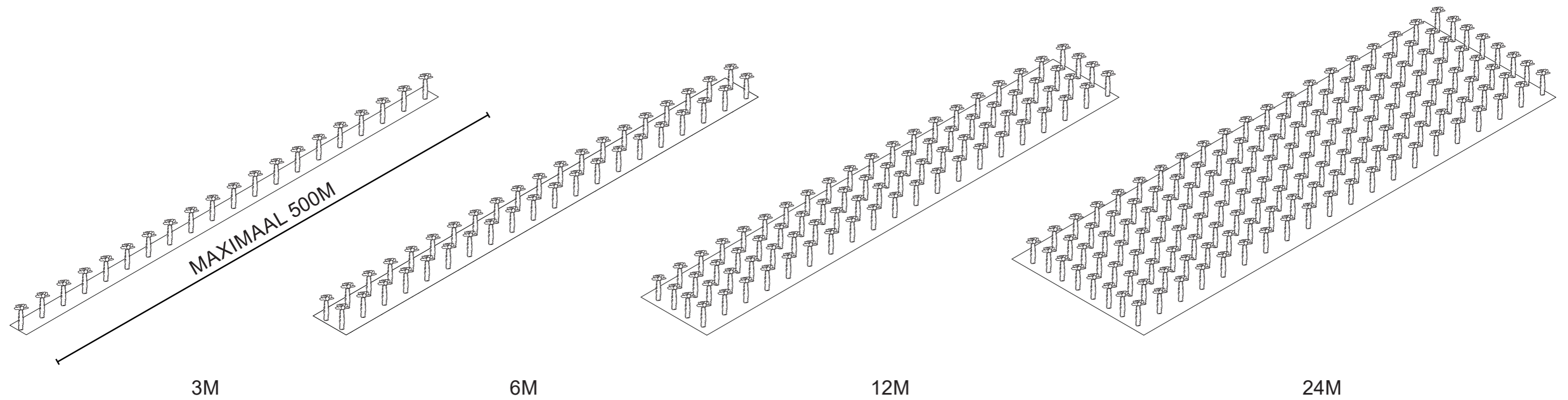


LEGENDA:

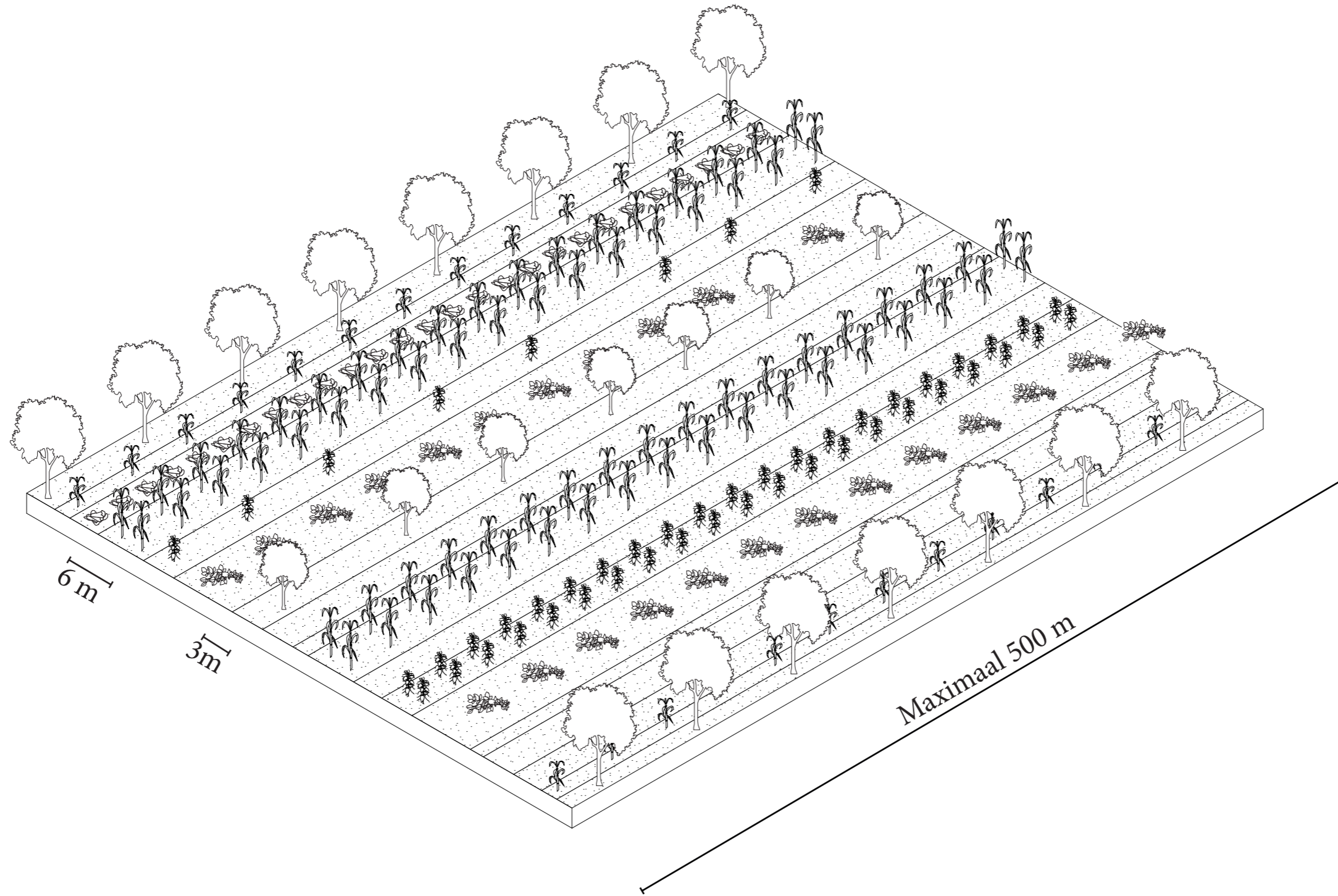
- KAS
- DIERENSTAL
- OPSLAG SNIJAFVAL
- VOEDSELMANDEN

BIJZONDERE FUNCTIES

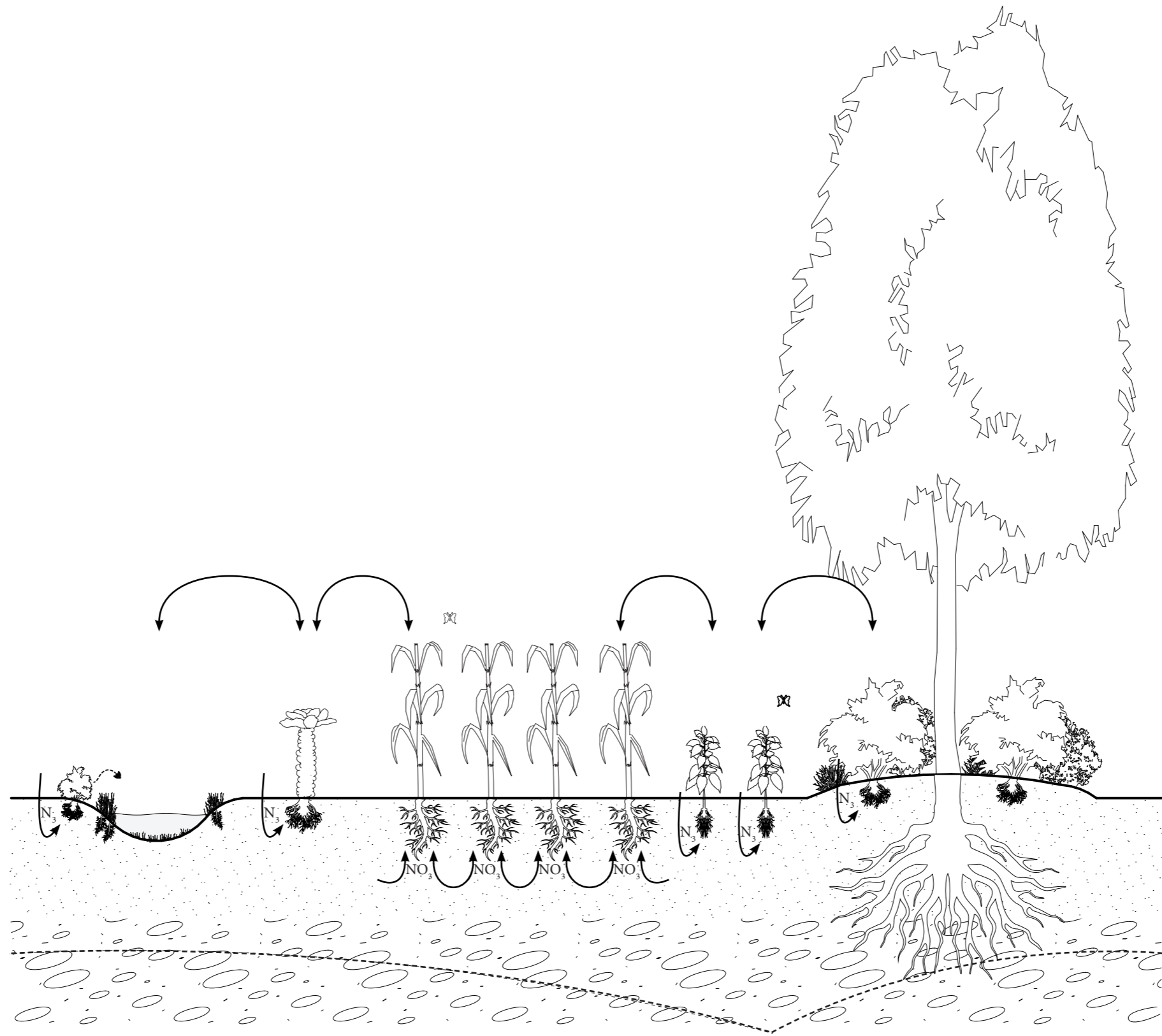
Principe maatsysteem



Raamwerk



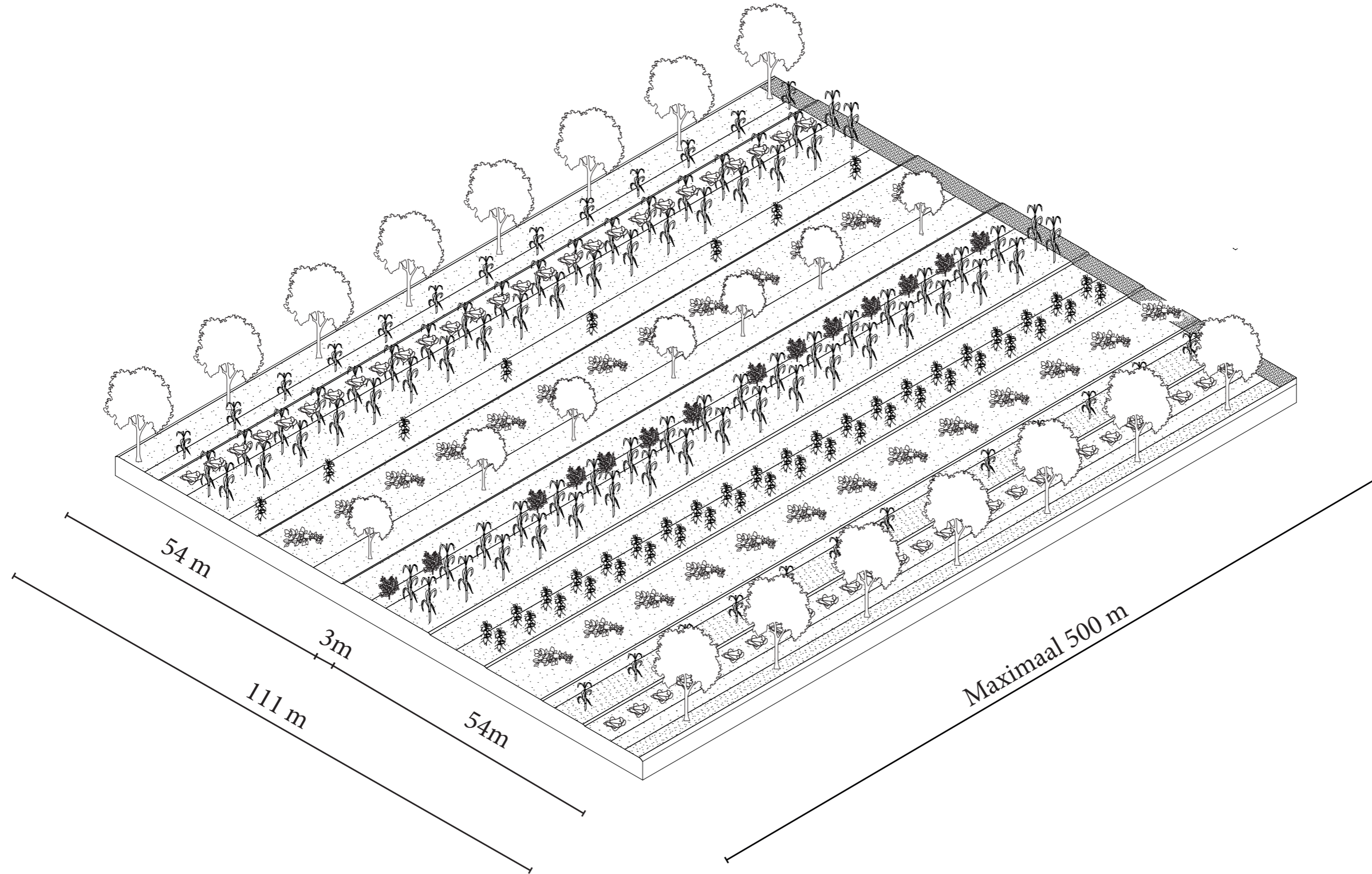
Principe biodiversiteit



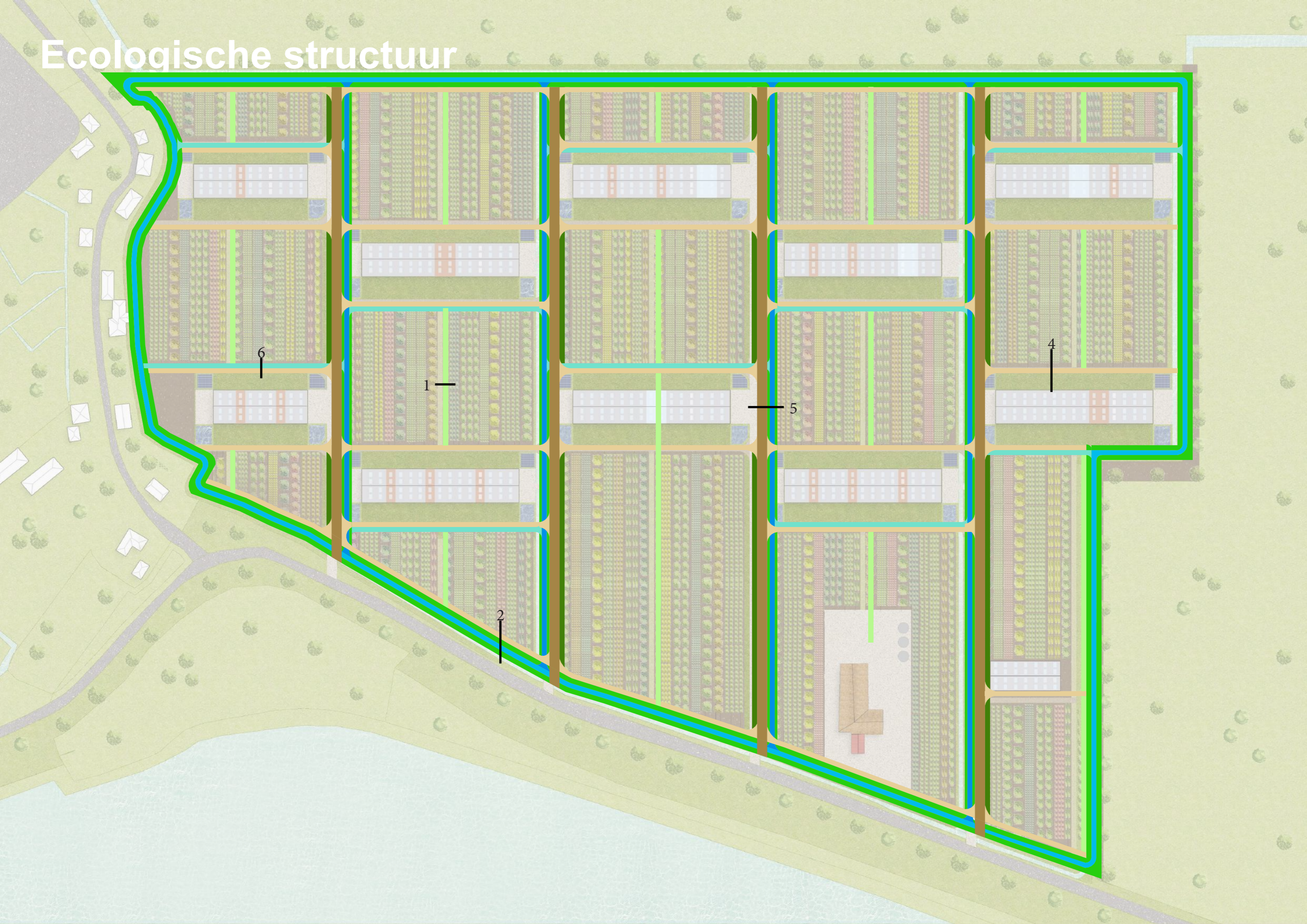
Principe biodiversiteit



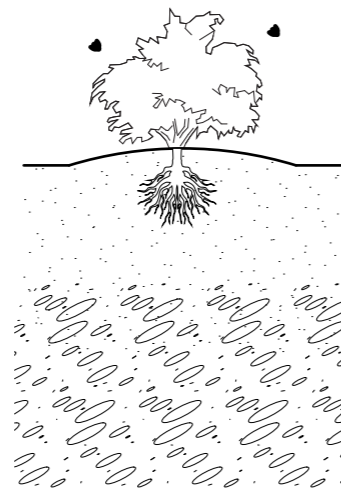
Raamwerk



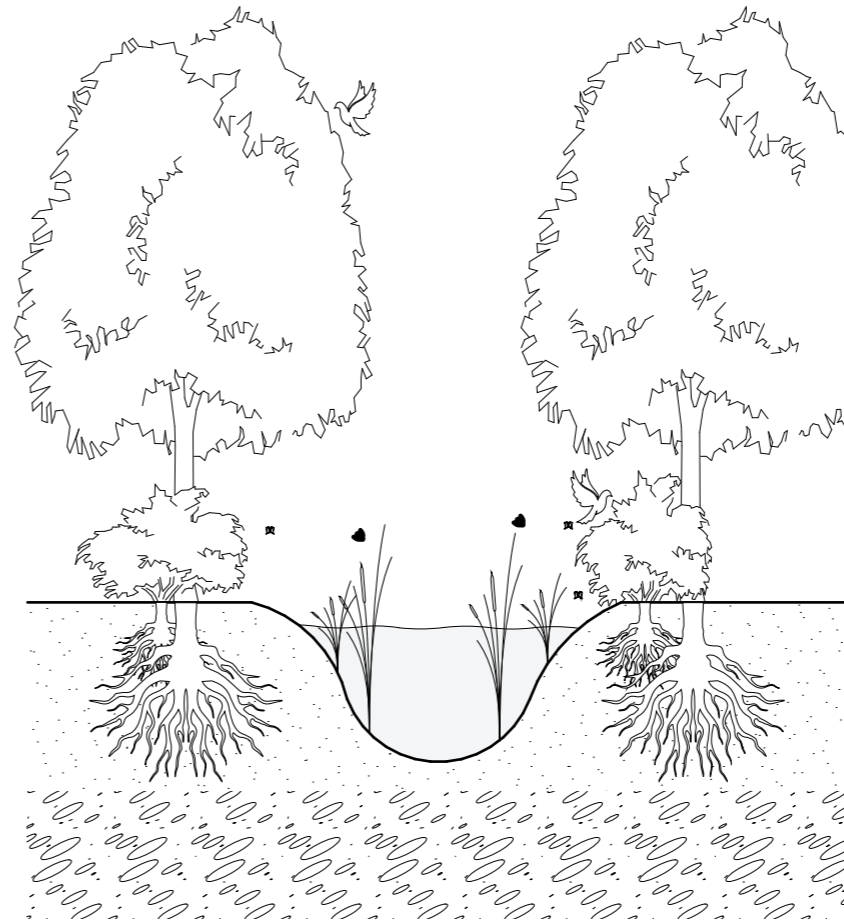
Ecologische structuur



Principe ecologie

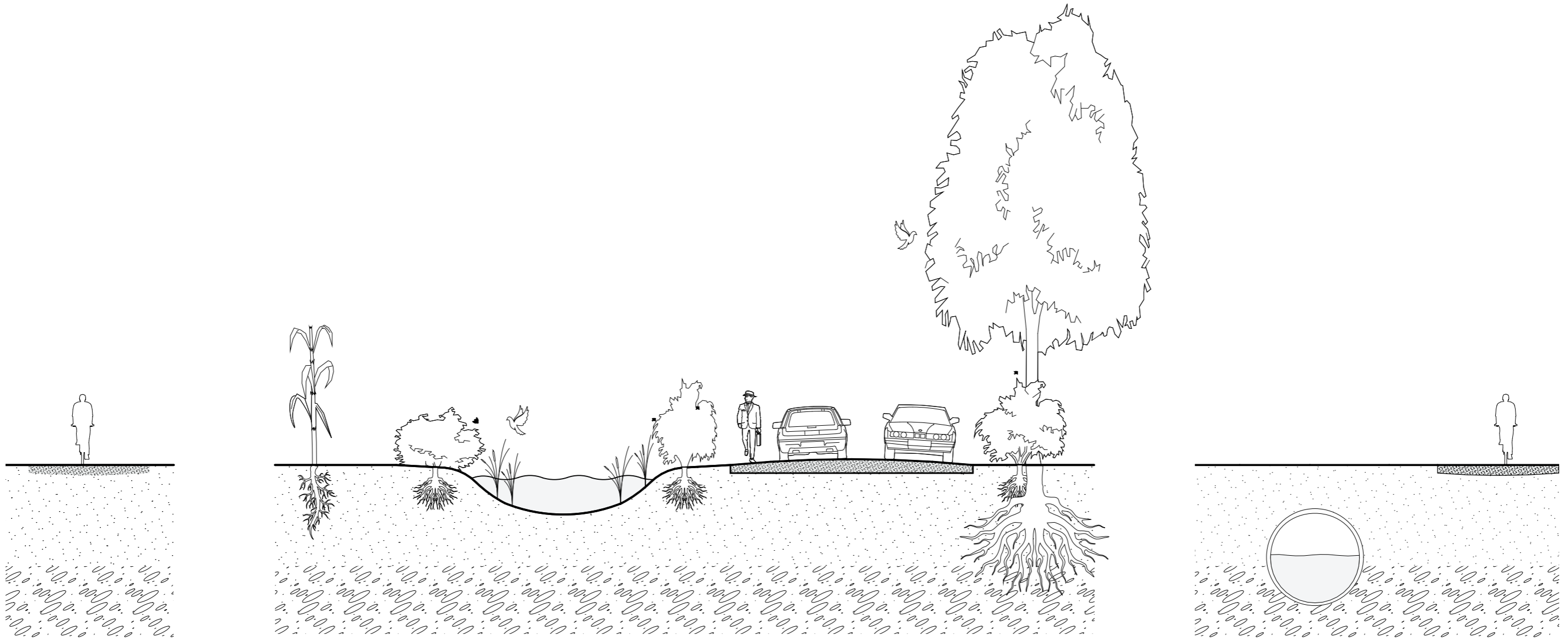


1. BLOEMENSTROOK



2. SLOOT

Principe wegenstructuur



4. ZANDWEG

5. HOOFDWEG

6. ZANDWEG MET DUIKER

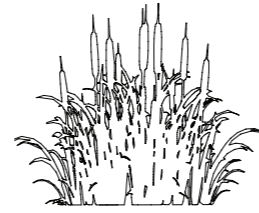
Bouwblokken Flora



CICHOREI



VOGELMUUR



GROTE KATTENSTRAAT



RIET



RIET



LELLIES



PADDESTOEL



BLOEMENSTROOK



LIBELLEN



SALAMANDER



ZANDWEG



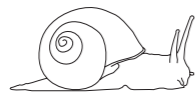
VLEERMUIS



BIJ



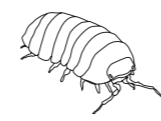
EEKHOORN



SLAK



EGEL



RUPS



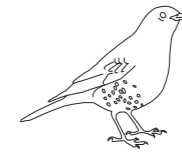
ZANDWEG



ZANDWEG

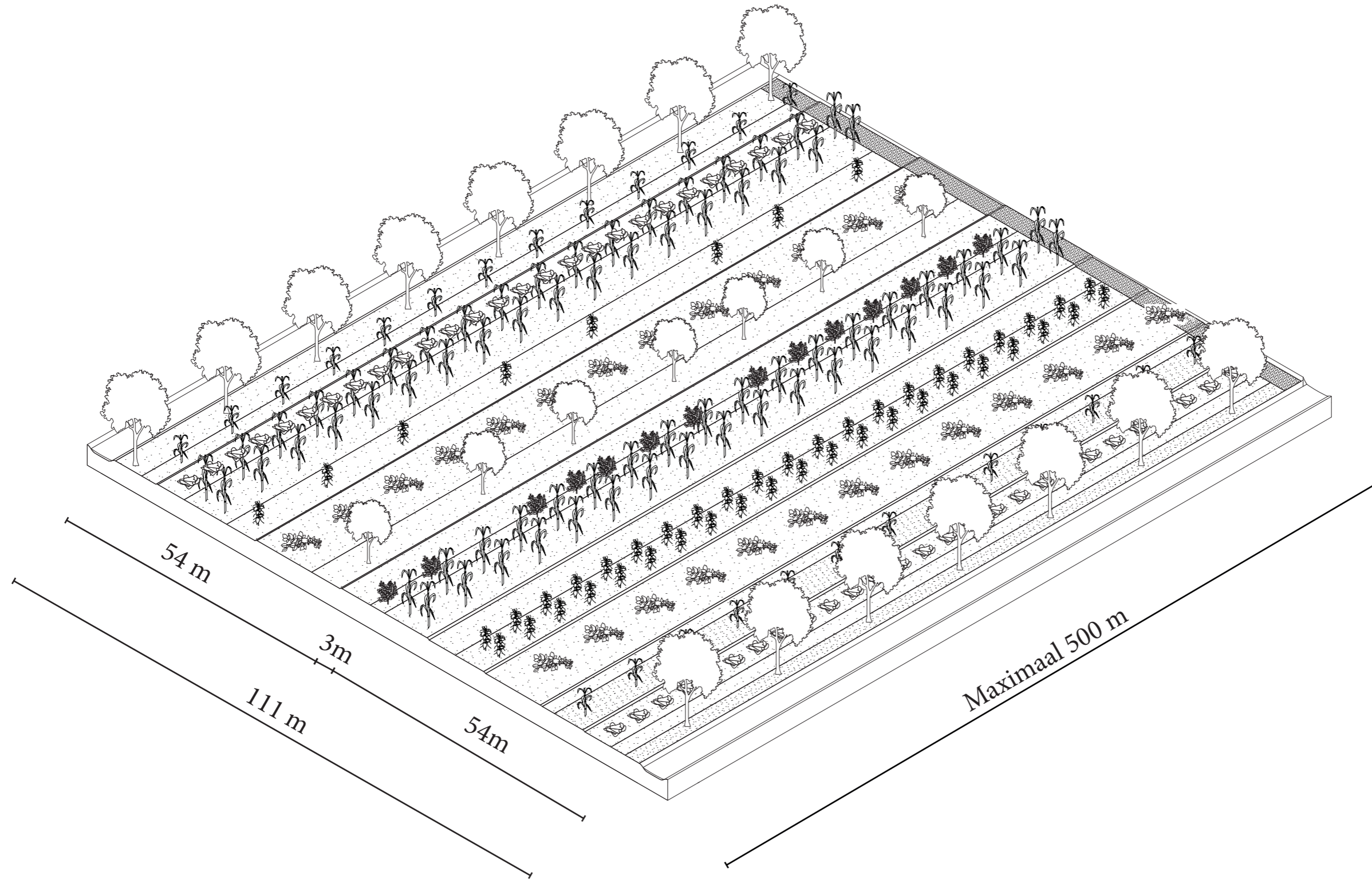


ZANDWEG

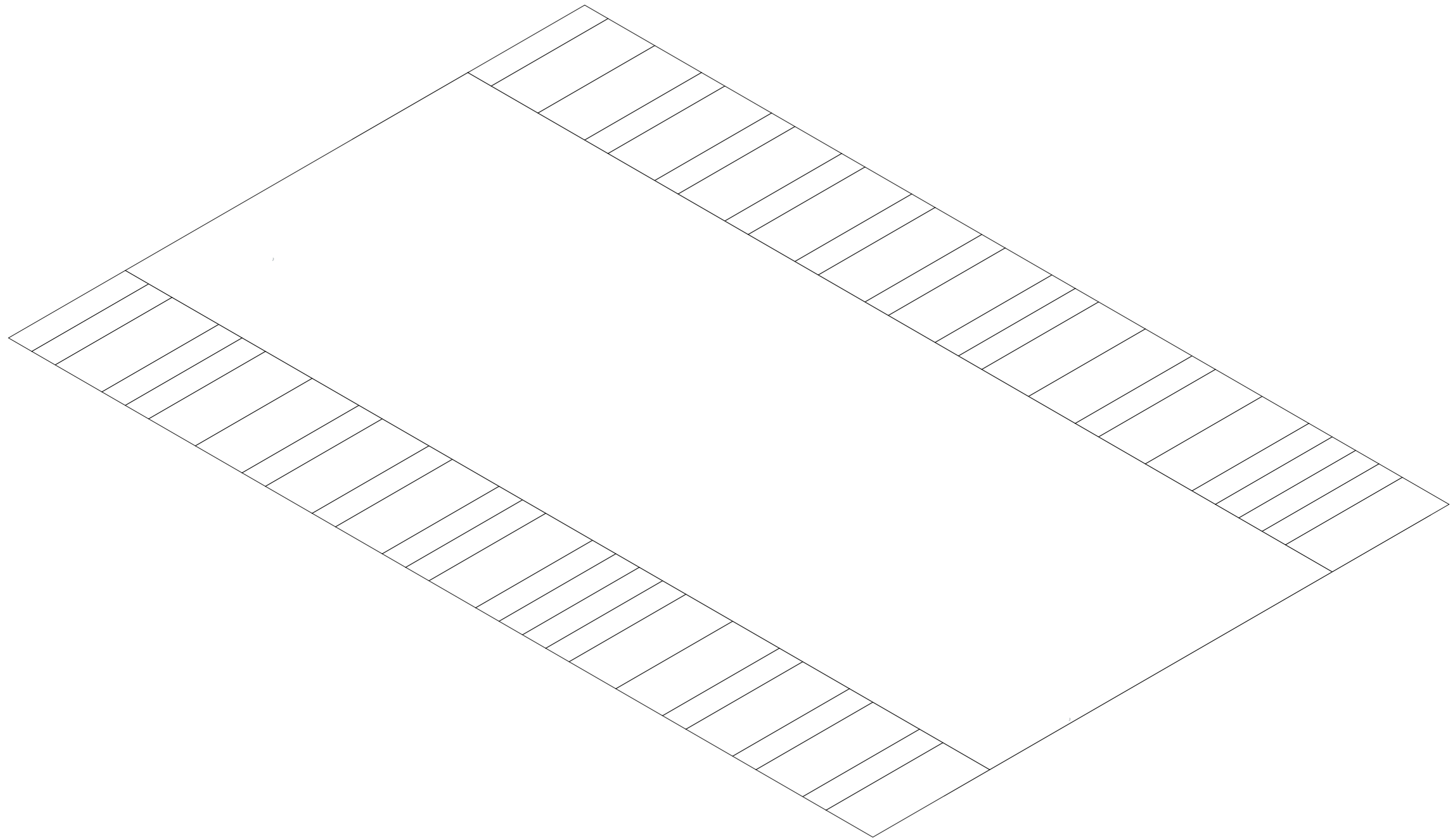


ZANDWEG

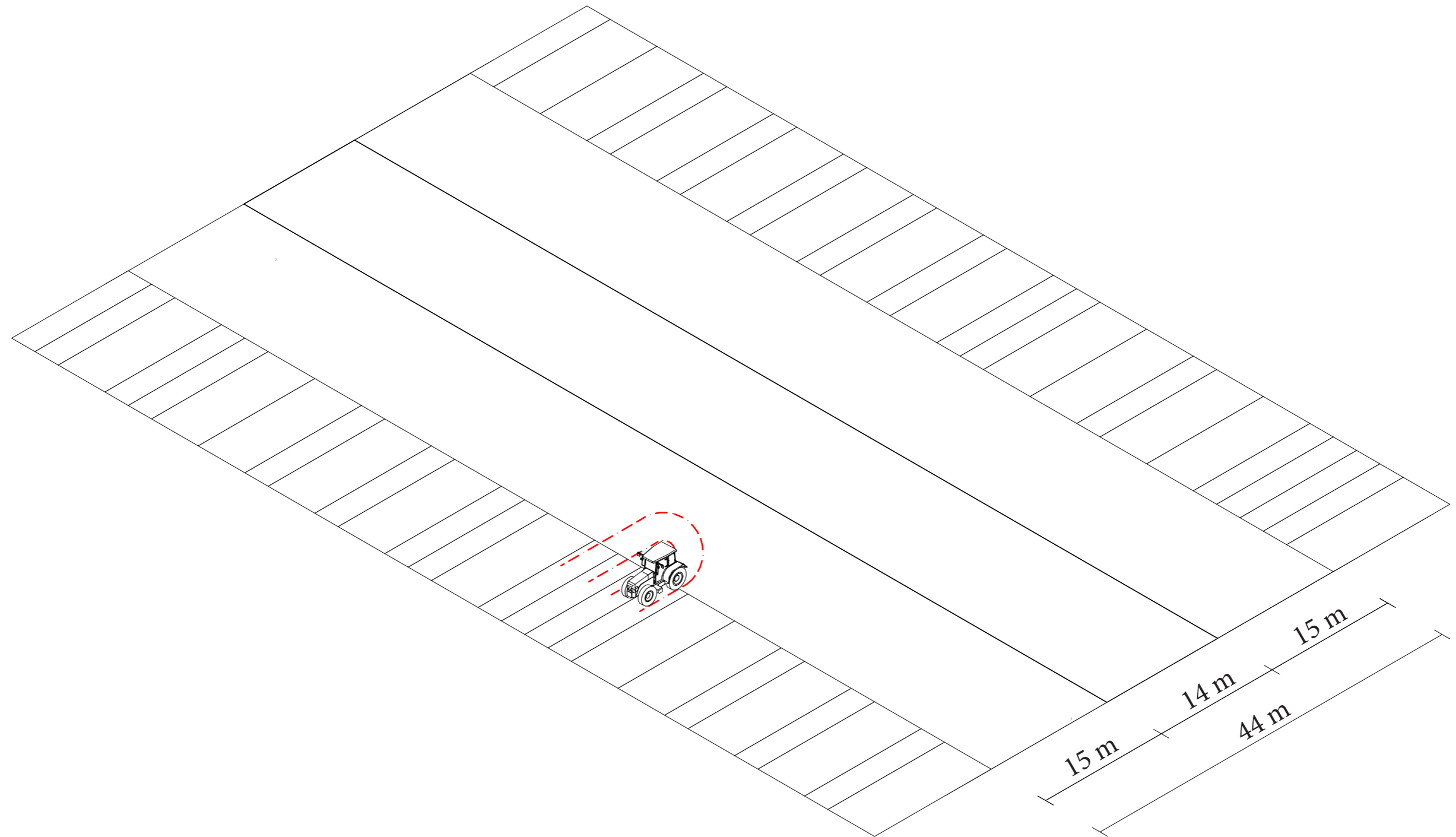
Raamwerk



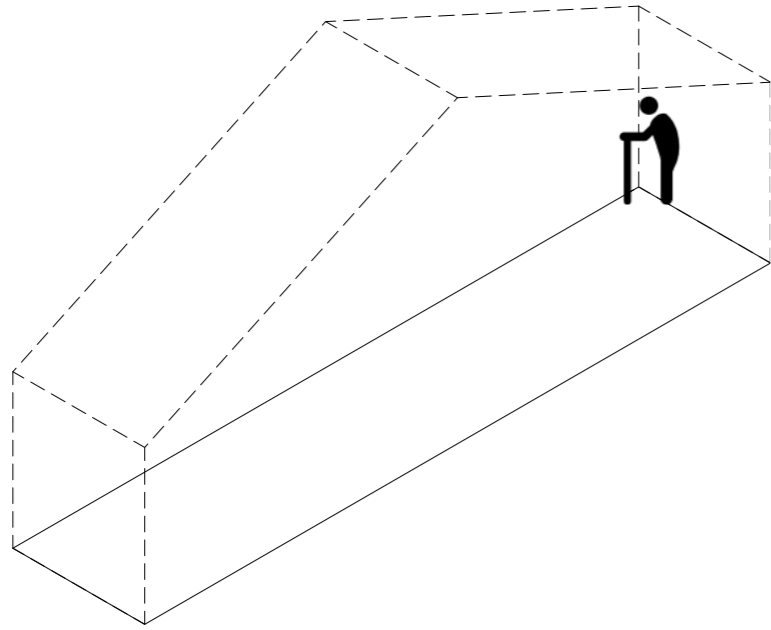
Erf systeem



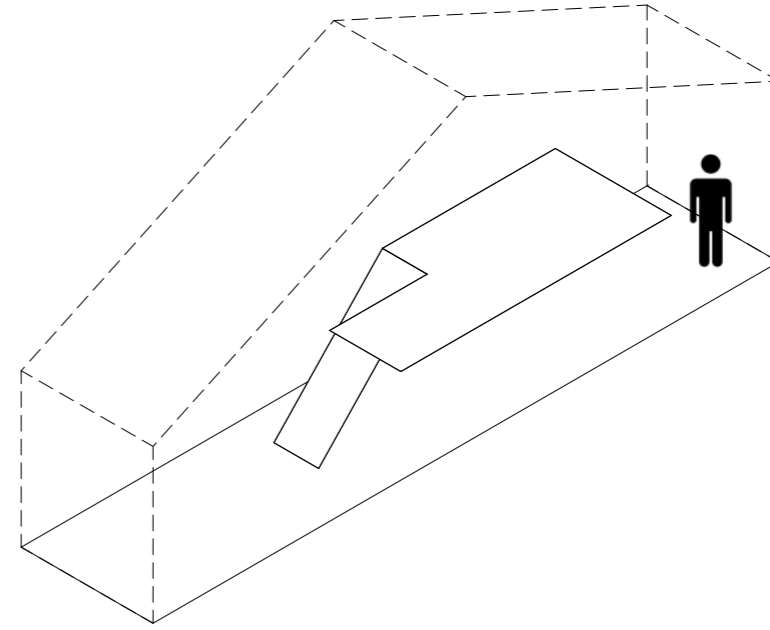
Erf systeem



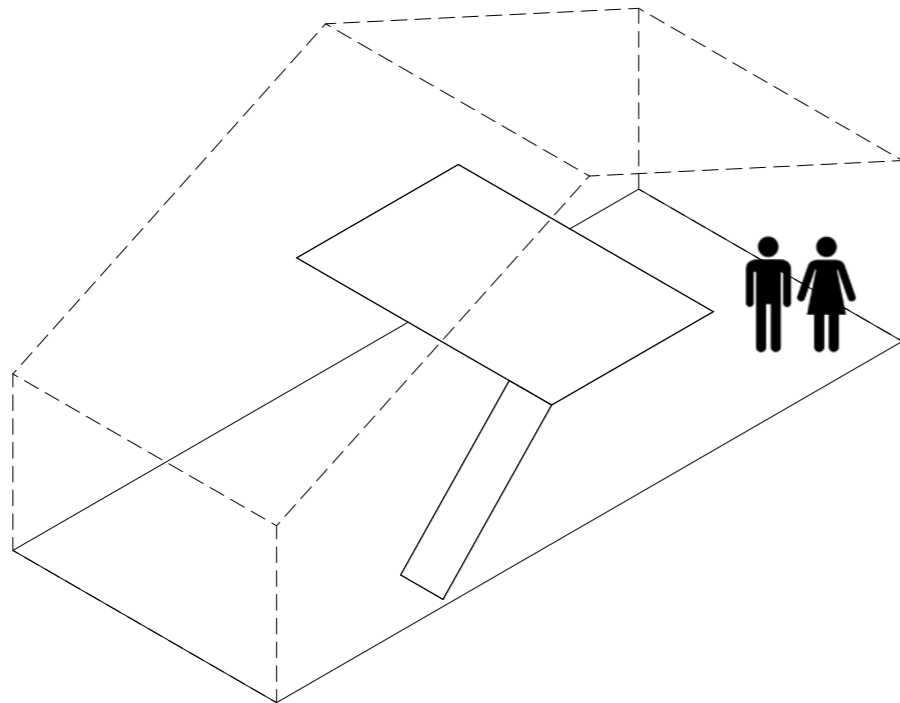
Gebruikers



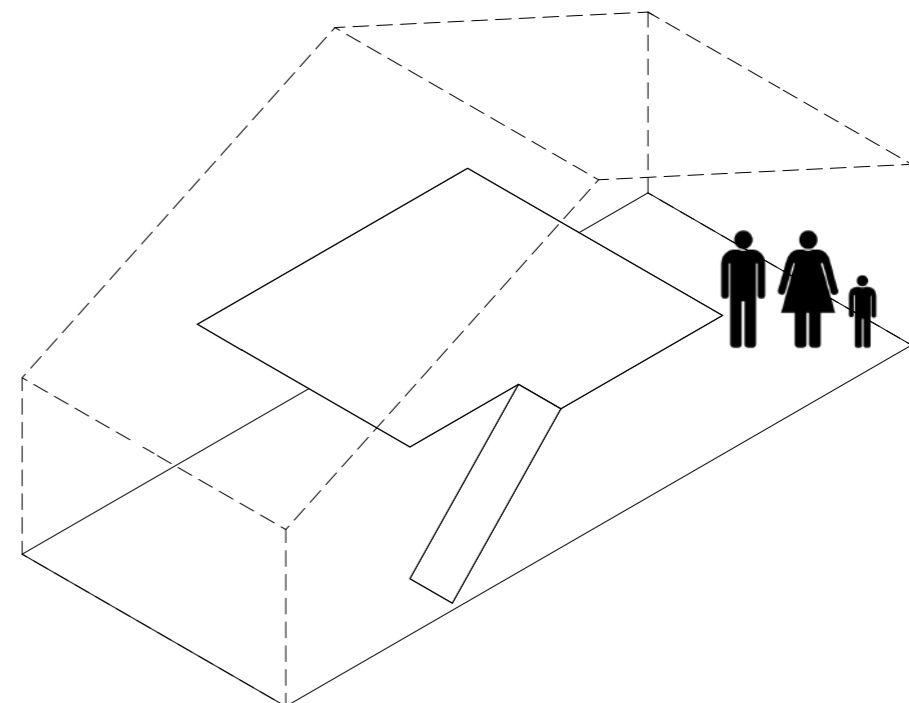
OUDEREN
14,0x3,0x6,9M (LxBxH)
145m³ (INH)
40m² (OPP)



ALLEENSTAANDE
14,0x3,0x6,9M (LxBxH)
145m³ (INH)
65m² (OPP)

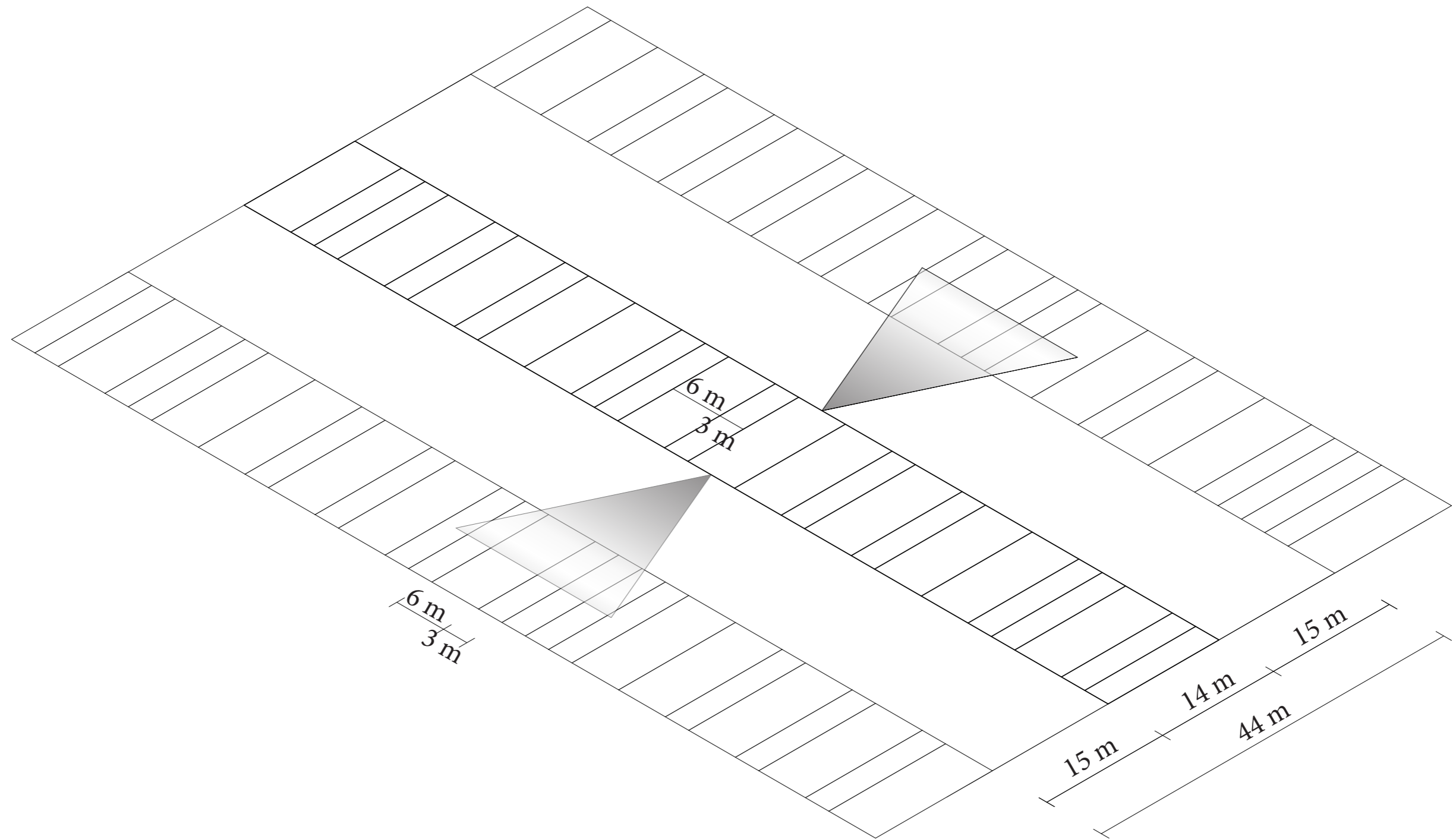


SAMENWONENDE
14,0x6,0x6,9M (LxBxH)
290m³ (INH)
105m² (OPP)

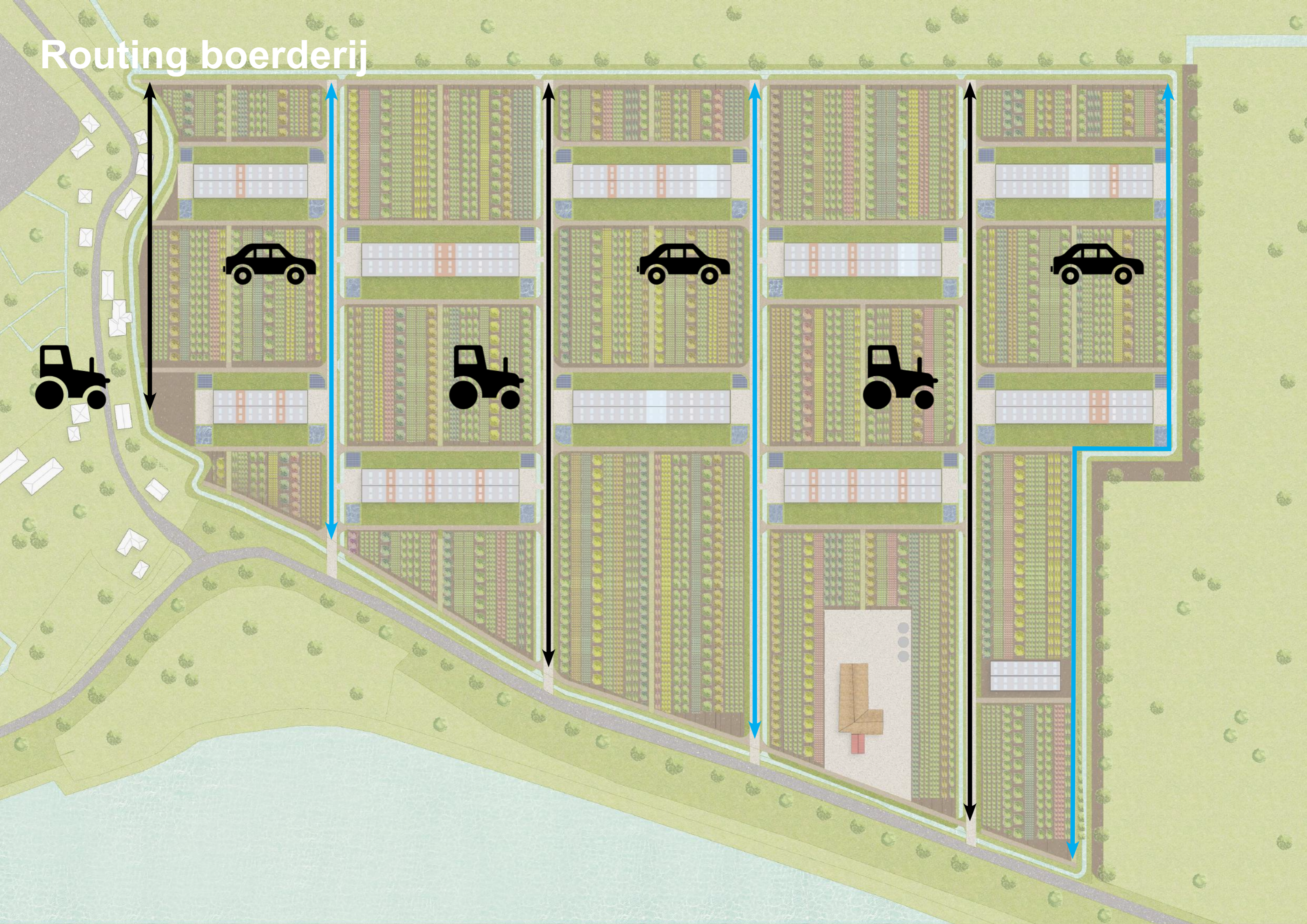


GEZIN MET TWEE KINDEREN
14,0x6,0x6,9M (LxBxH)
290m³ (INH)
120m² (OPP)

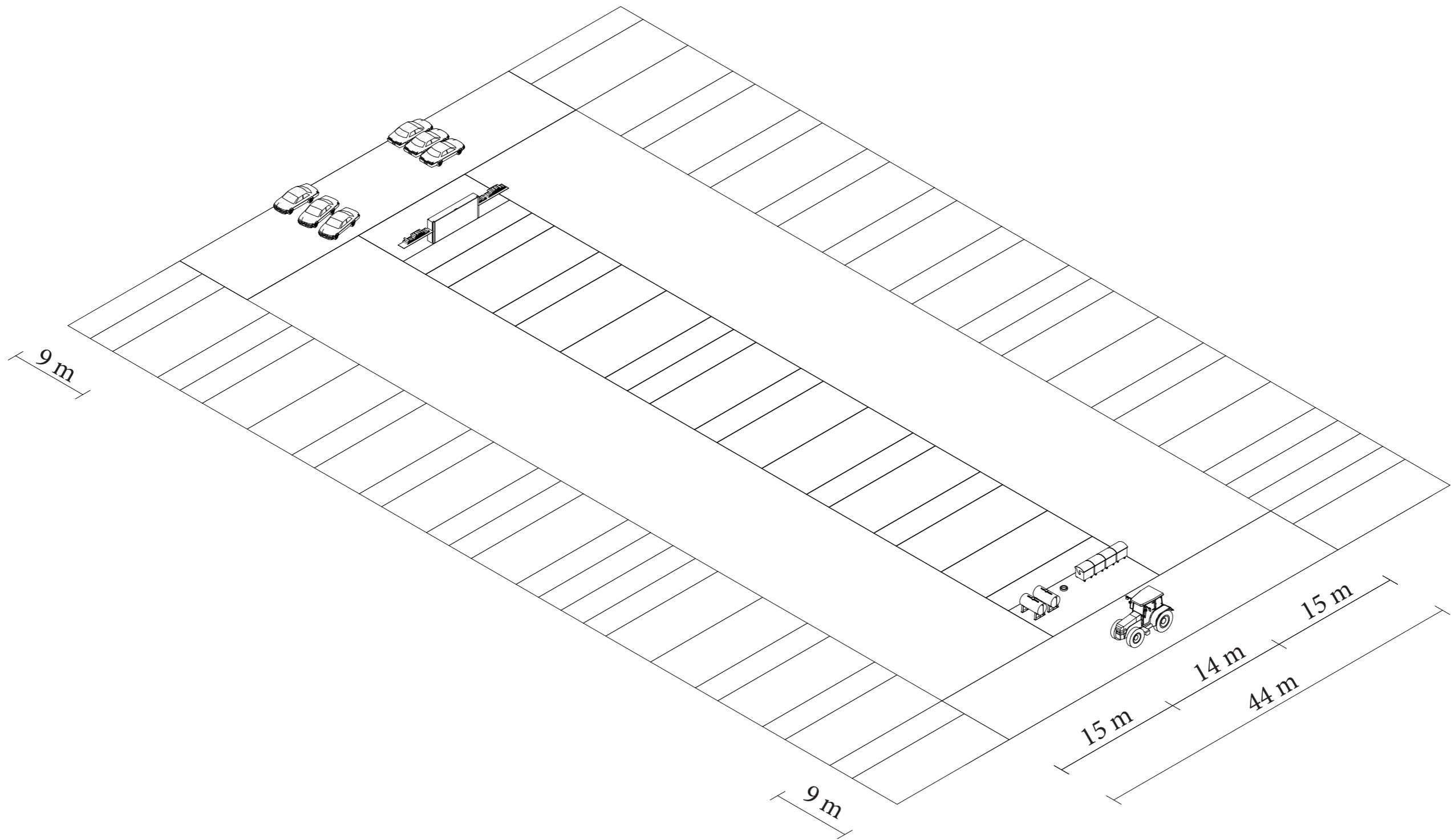
Erf systeem



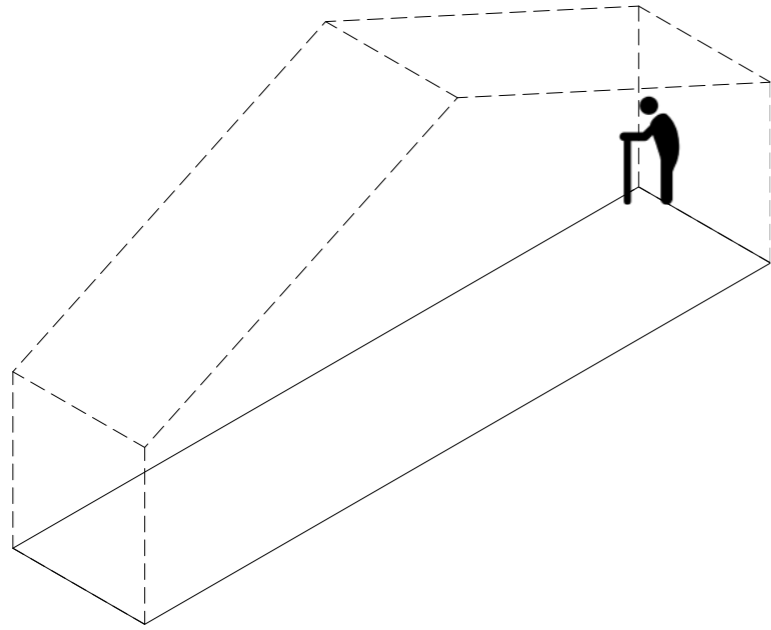
Routing boerderij



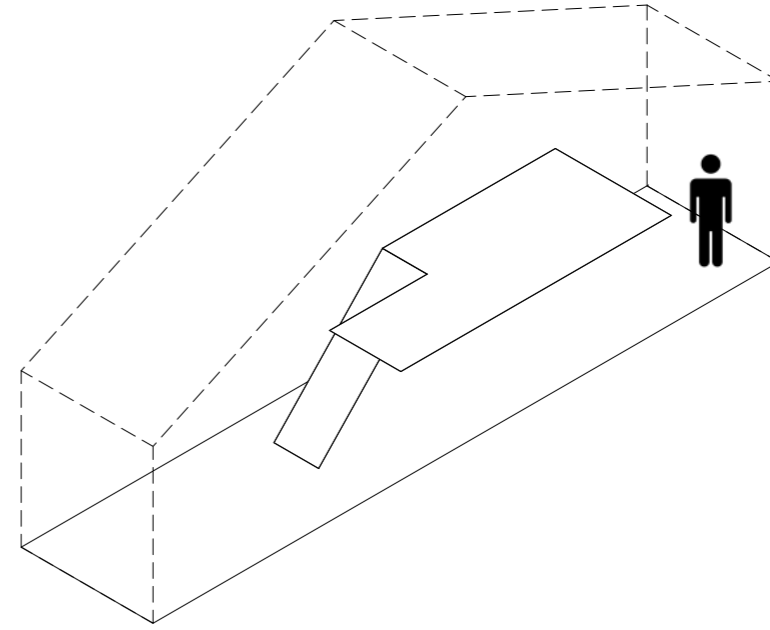
Erf systeem



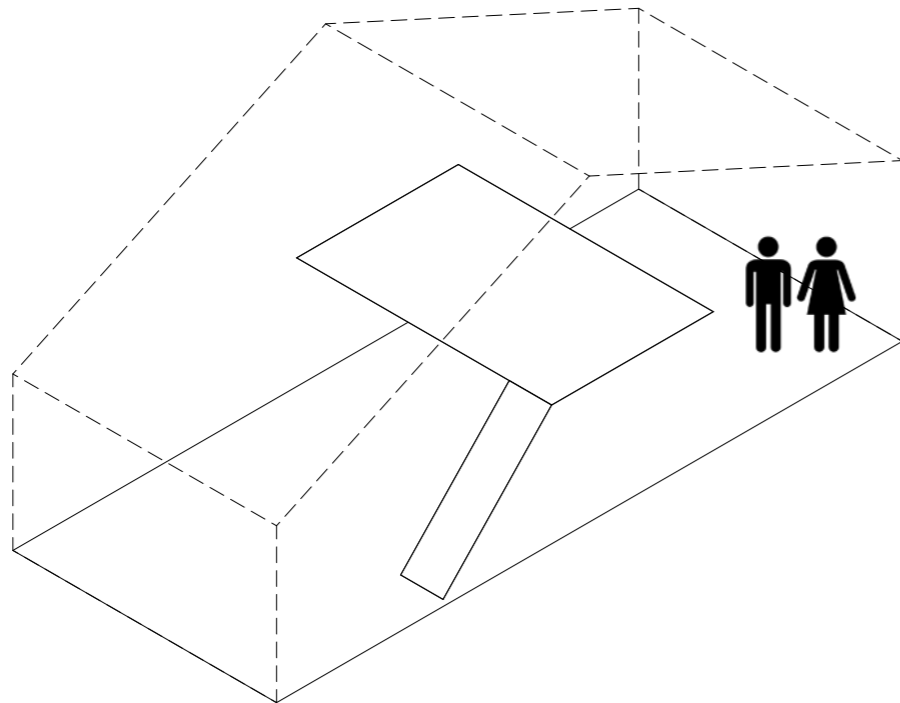
Gebruikers



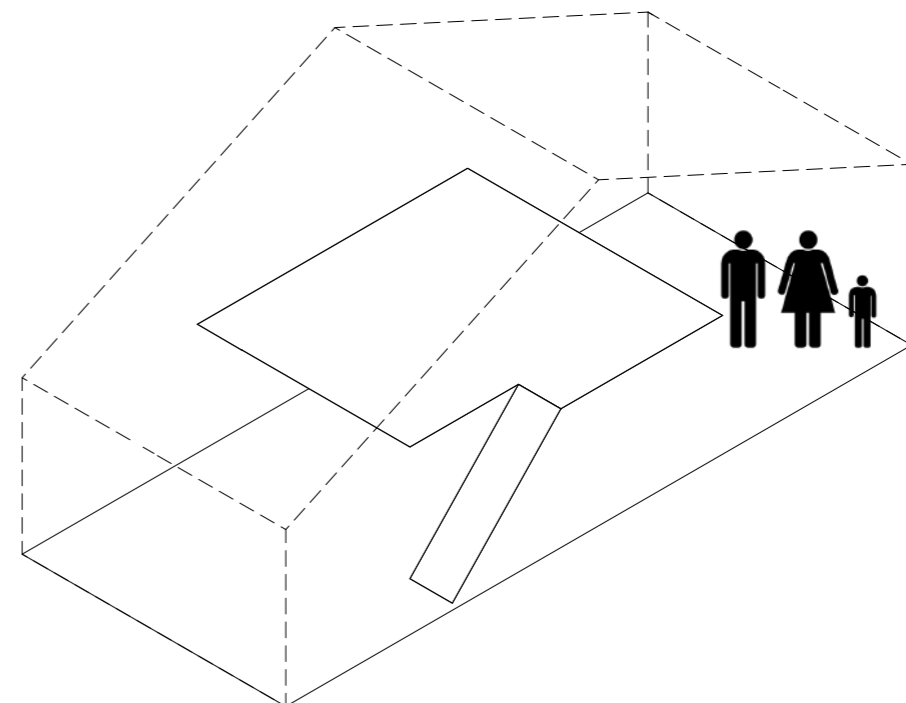
OUDEREN
14,0x3,0x6,9M (LxBxH)
145m³ (INH)
40m² (OPP)



ALLEENSTAANDE
14,0x3,0x6,9M (LxBxH)
145m³ (INH)
65m² (OPP)

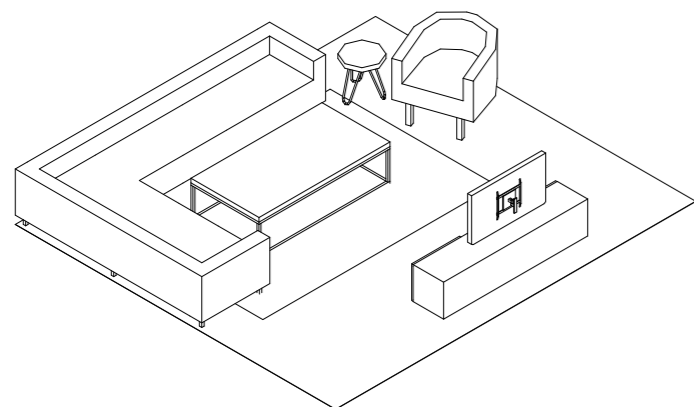


SAMENWONENDE
14,0x6,0x6,9M (LxBxH)
290m³ (INH)
105m² (OPP)



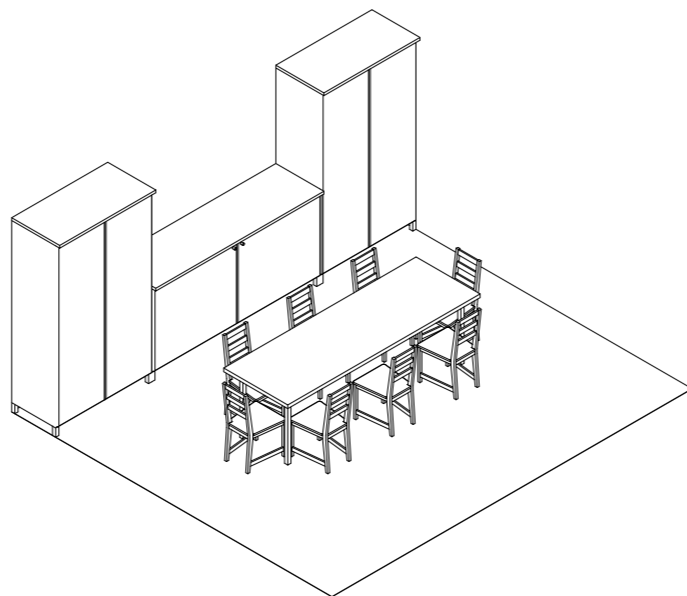
GEZIN MET TWEE KINDEREN
14,0x6,0x6,9M (LxBxH)
290m³ (INH)
120m² (OPP)

PVE



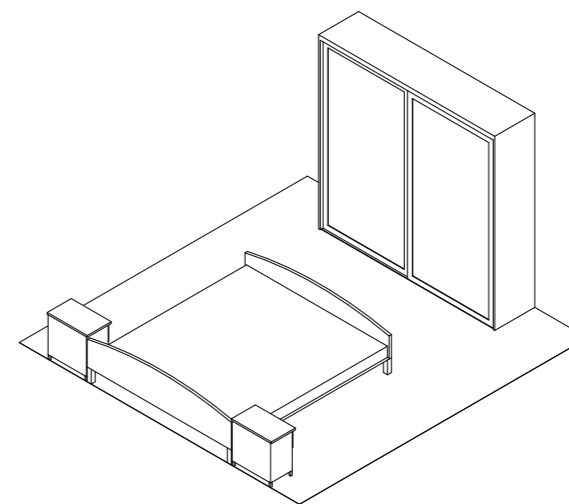
WOONKAMER GROOT

4,0x4,5M (LxB)
18m² (OPP)



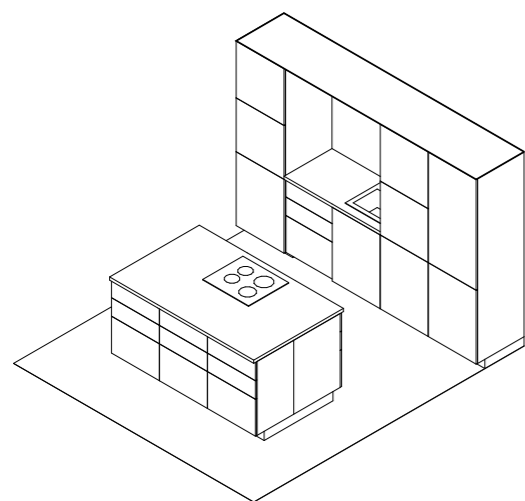
EETKAMER

4,5x4,0M (LxB)
18m² (OPP)



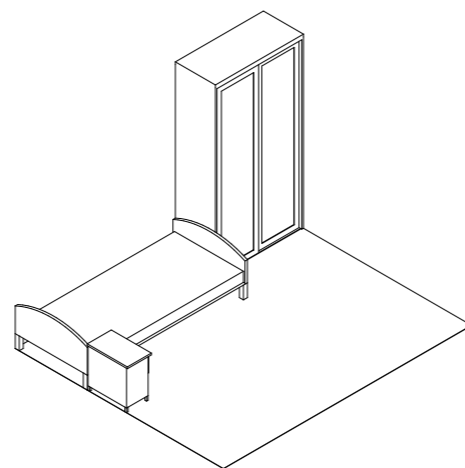
SLAAPKAMER GROOT

3,6x3,5M (LxB)
12,6m² (OPP)



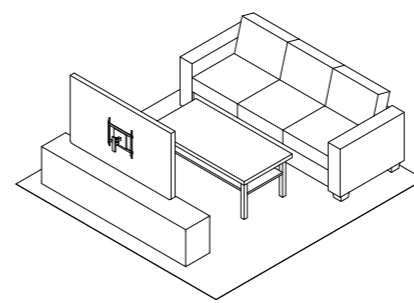
KEUKEN GROOT

3,4x3,0M (LxB)
10,2m² (OPP)



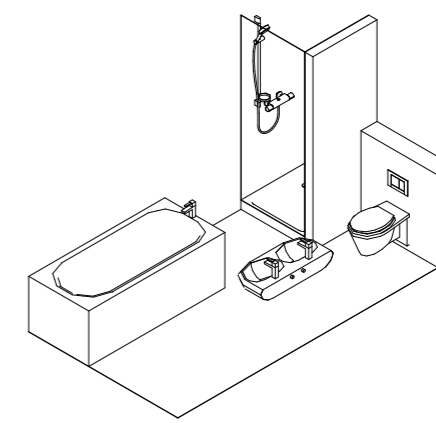
SLAAPKAMER KLEIN

3,1x2,6M (LxB)
8,1m² (OPP)



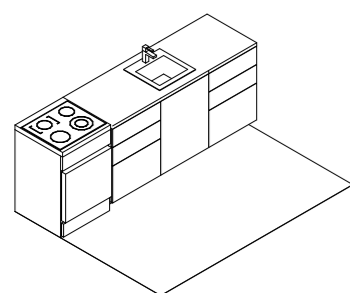
WOONKAMER KLEIN

2,6x2,5M (LxB)
6,5m² (OPP)



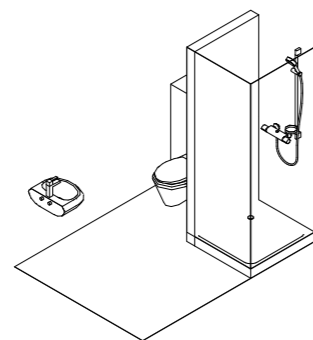
BADKAMER GROOT

3,4x1,8M (LxB)
6,1m² (OPP)



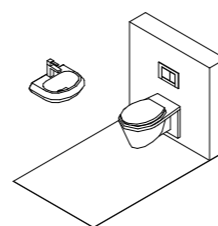
KEUKEN KLEIN

2,4x1,8M (LxB)
4,3m² (OPP)



BADKAMER KLEIN

2,1x1,6M (LxB)
3,5m² (OPP)



TOILET

1,6x1,0M (LxB)
1,6m² (OPP)

Exterieur

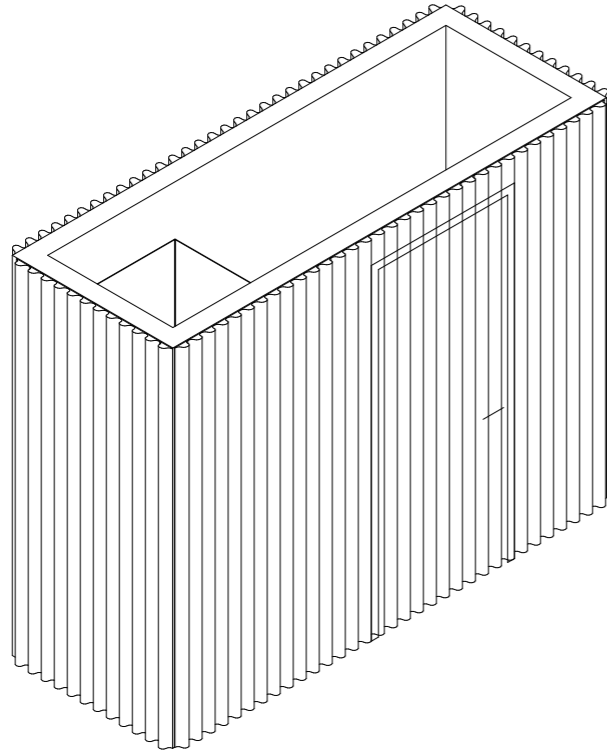


Interieur

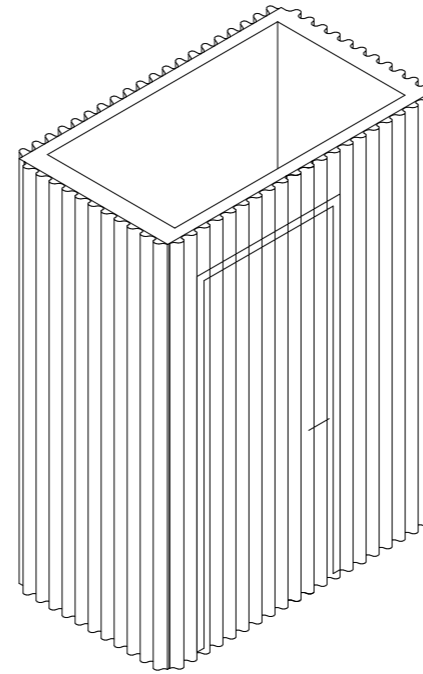


Waterloo City Farm, London, Feilden Fowles Architecten

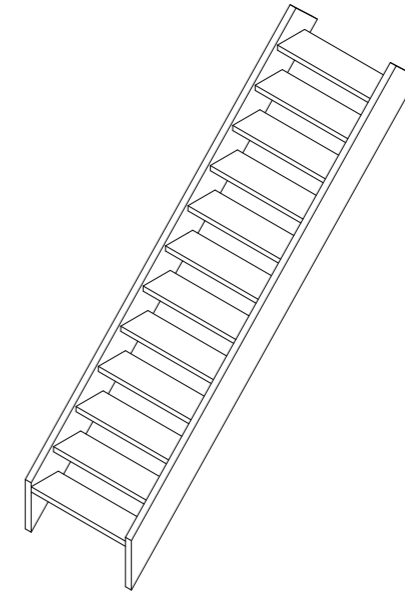
Vaste inrichting



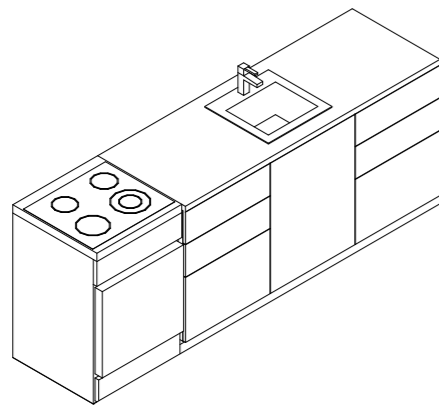
XL TOILET UNIT
3,1x1,2M (LxB)
3,7m² (OPP)



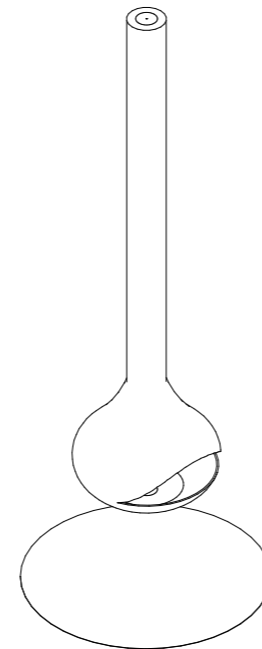
TOILET UNIT
1,9x1,0M (LxB)
1,9m² (OPP)



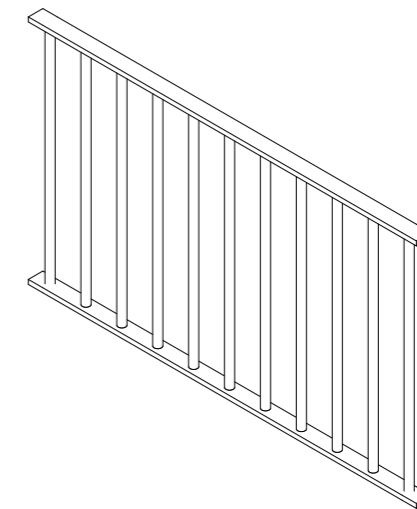
TRAP
2,1x0,9M (LxB)
1,8m² (OPP)



KEUKENBLOK
2,4x0,6M (LxB)
1,5m² (OPP)

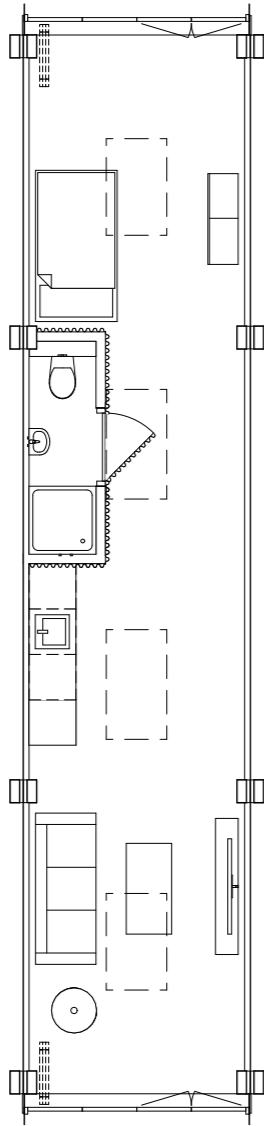


KACHEL
1,0x0,8M (LxB)
0,8m² (OPP)

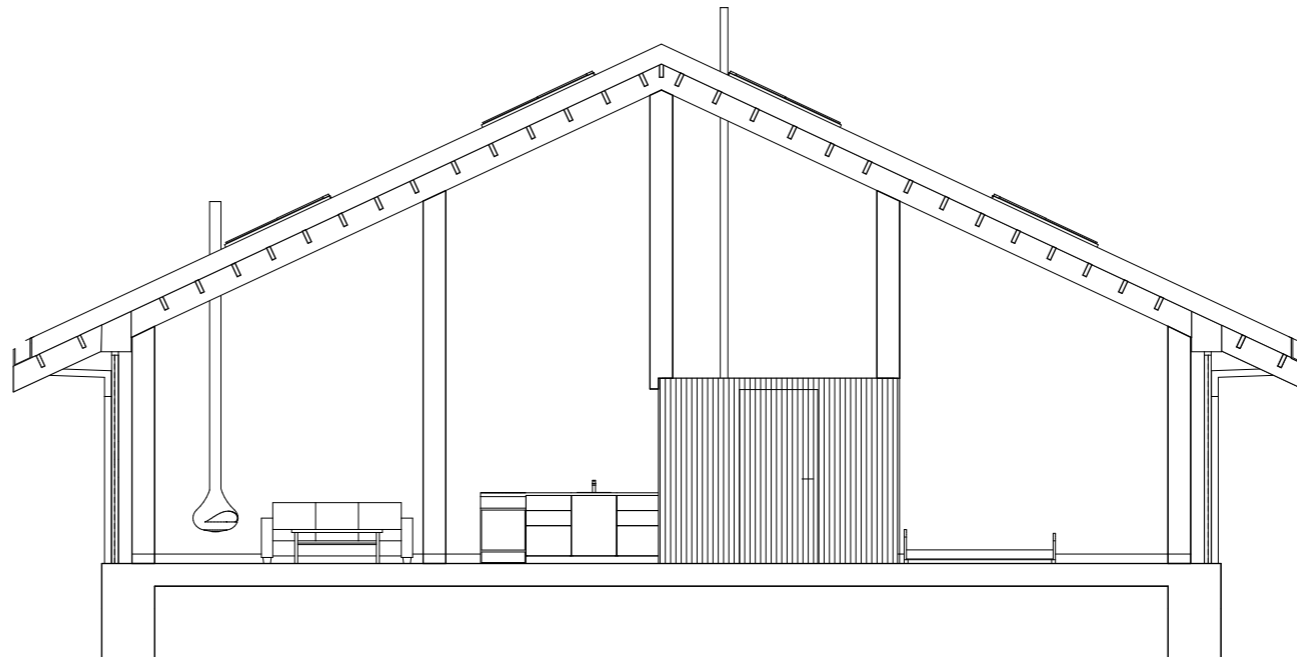


HEKWERK
1,0x0,2M (LxB)
0,2m² (OPP)

Ouderen

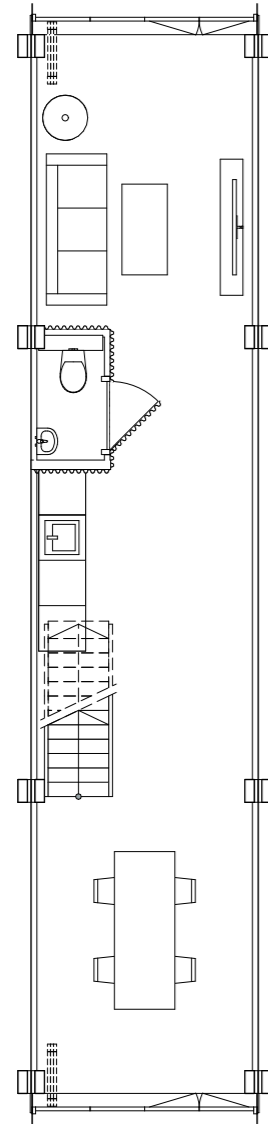


Begane grond 03



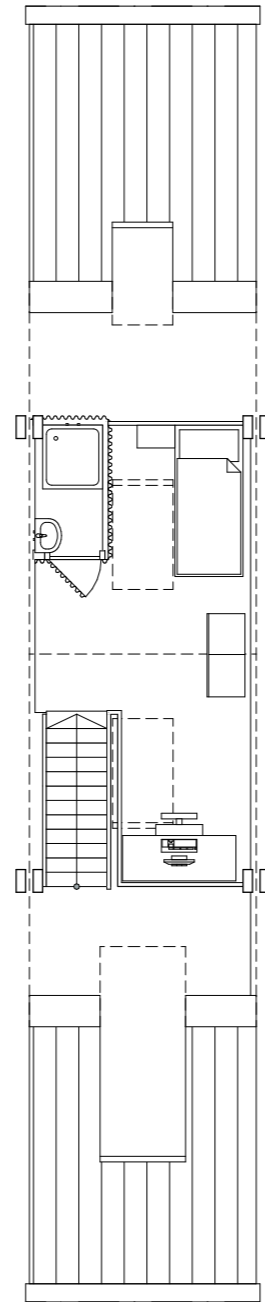
Building Section

Alleenstaande



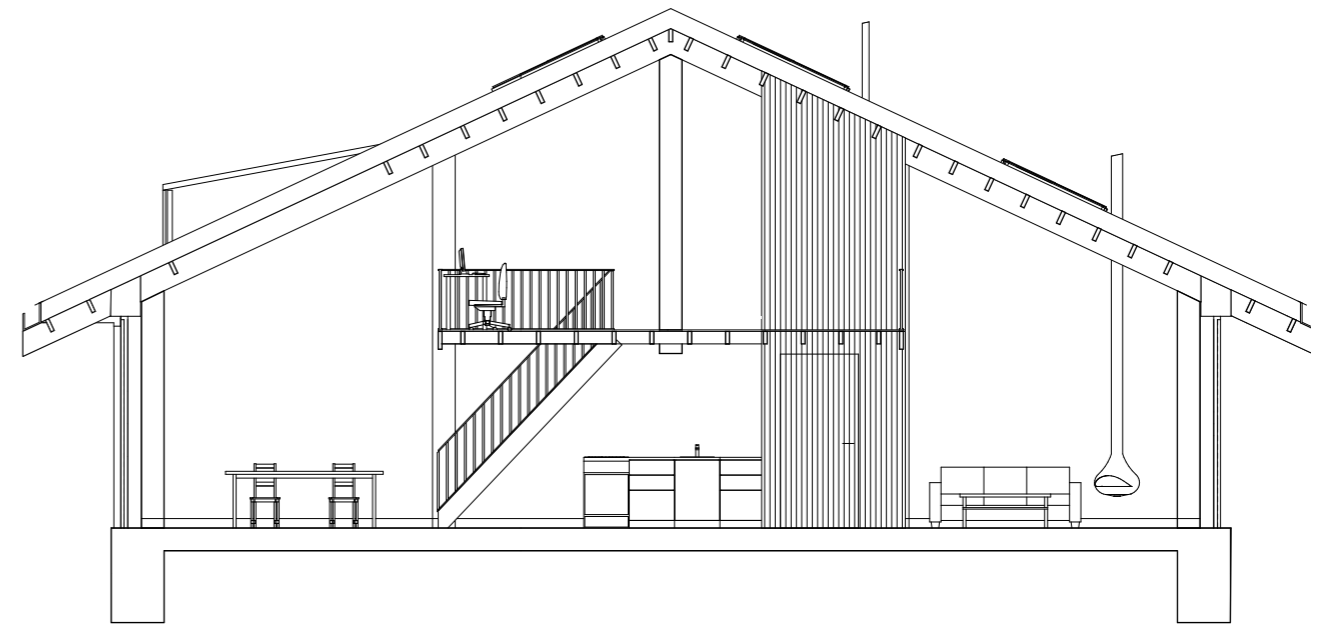
Begane grond

03



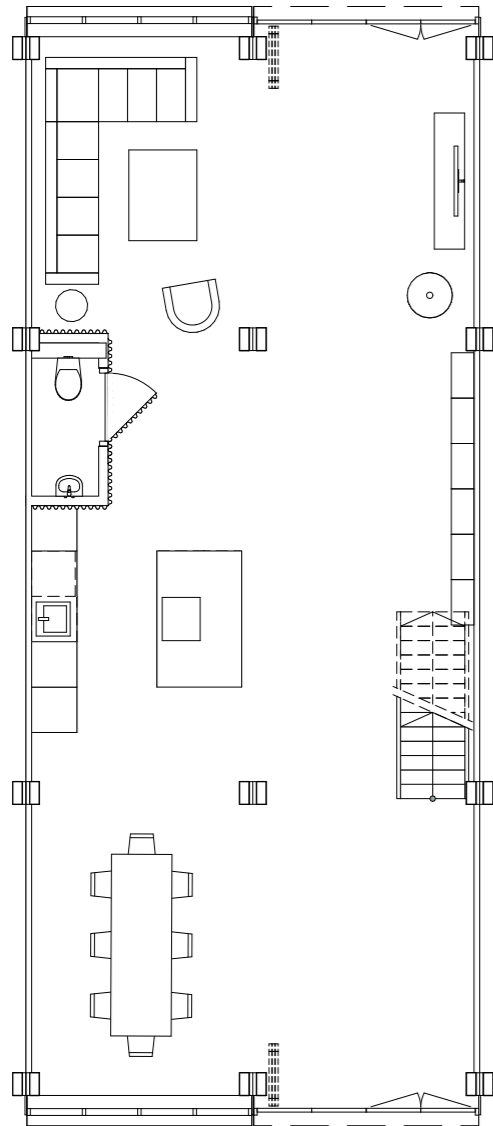
1e verdieping

03

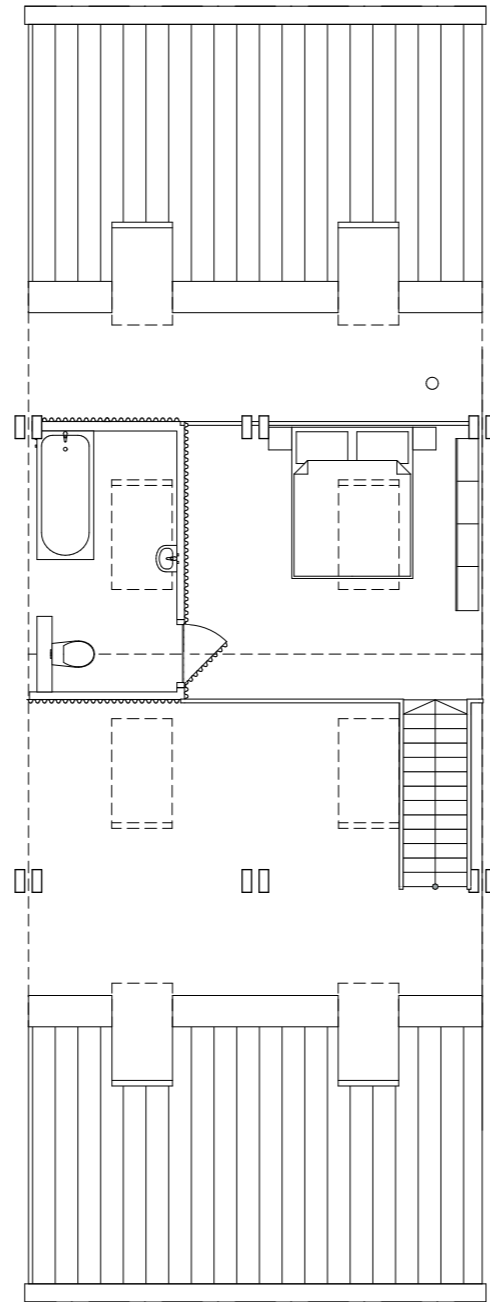


Building Section

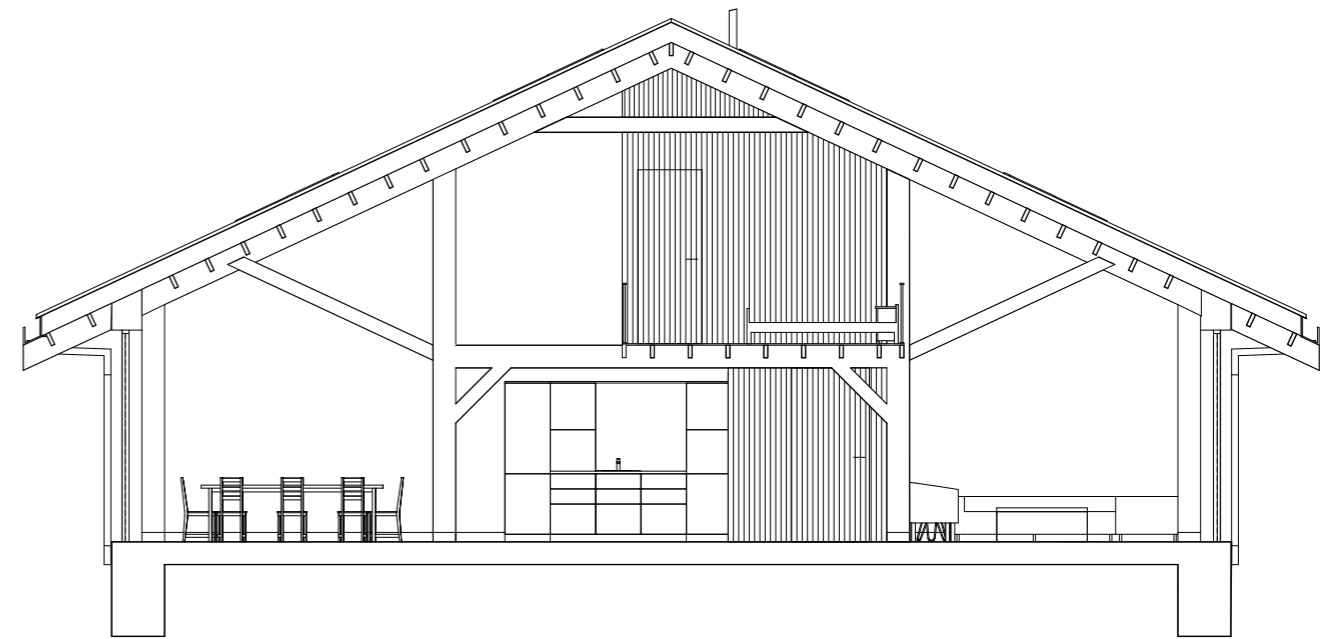
Samenwonende



Begane grond 04



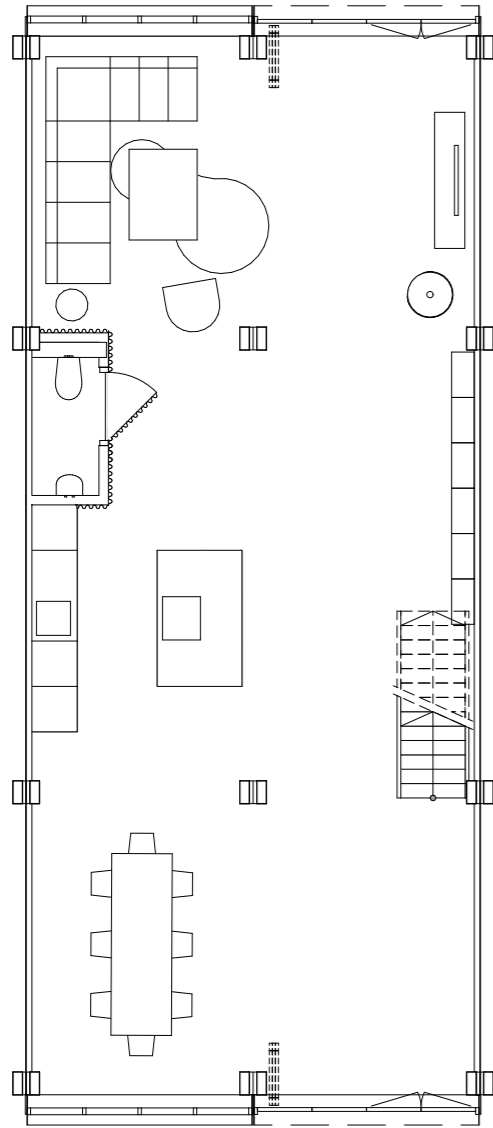
1e verdieping 04



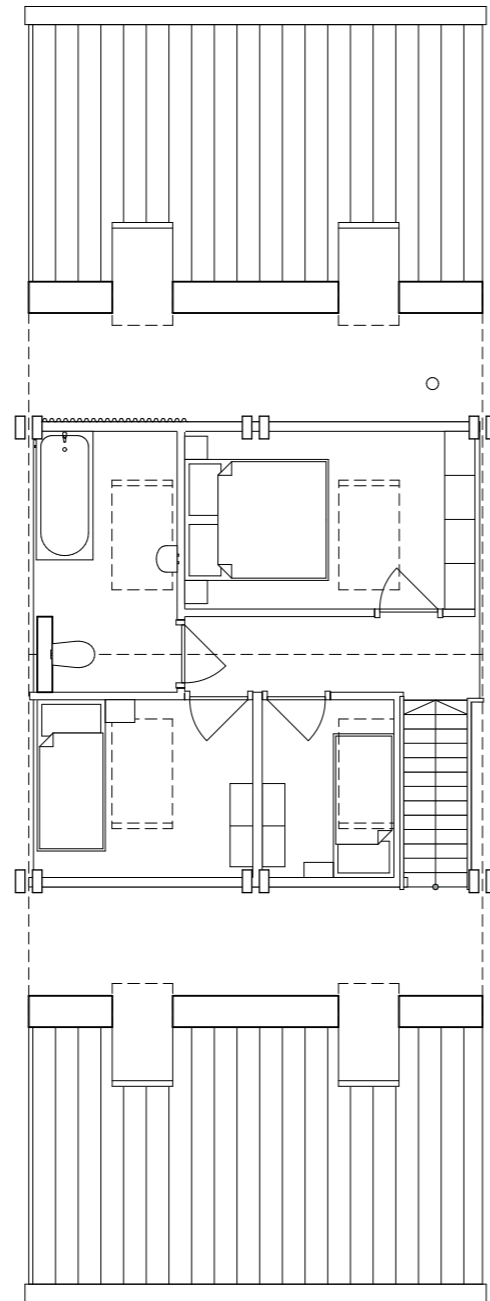
drs A-A

(

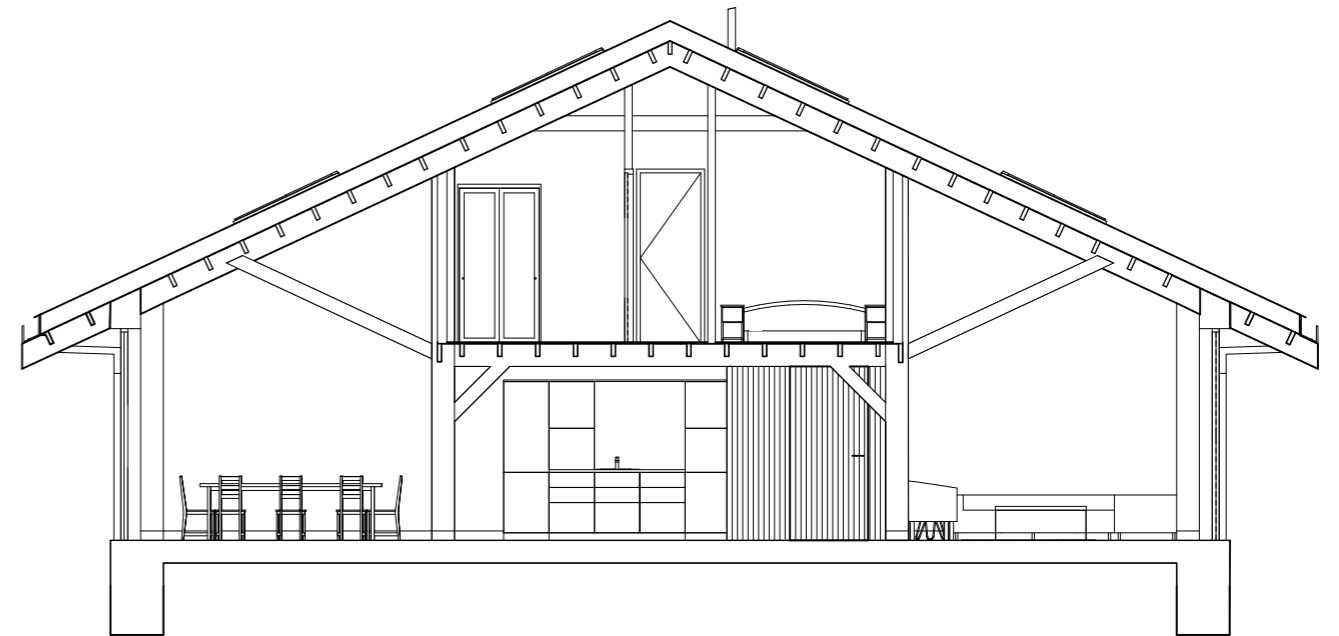
Gezin



Begane grond 04



1e verdieping 04

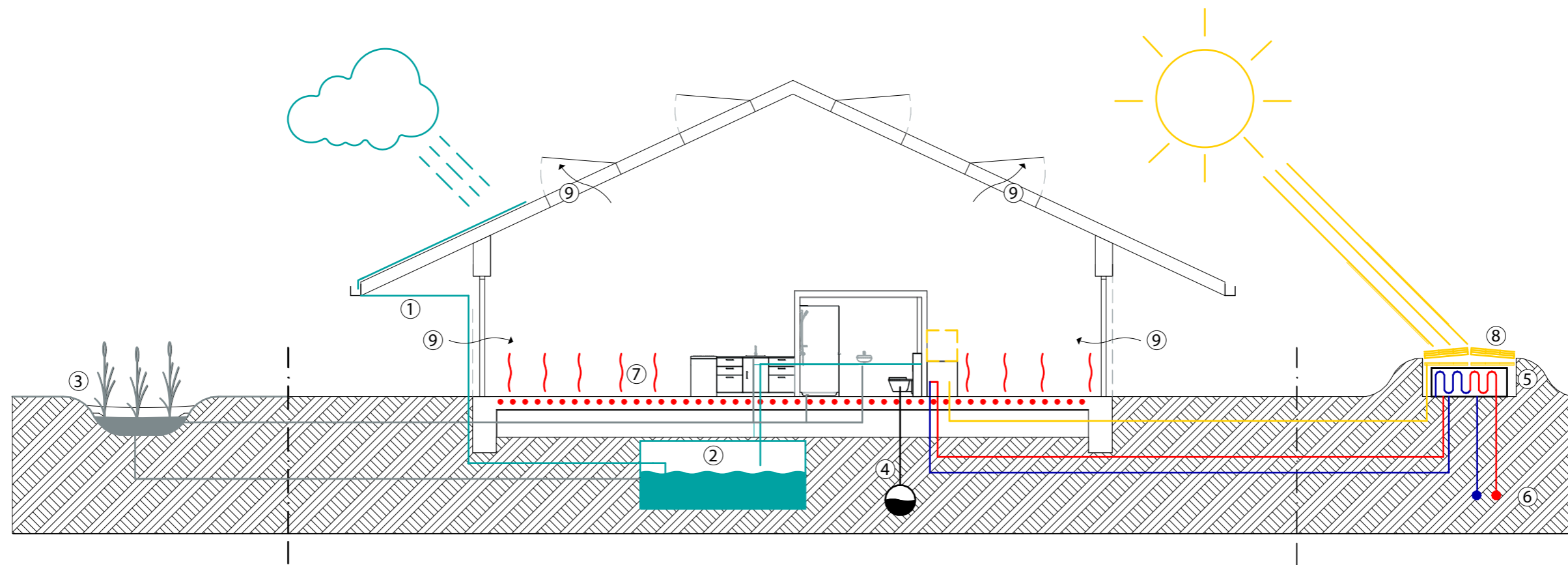


drs A-A

Impressie woning

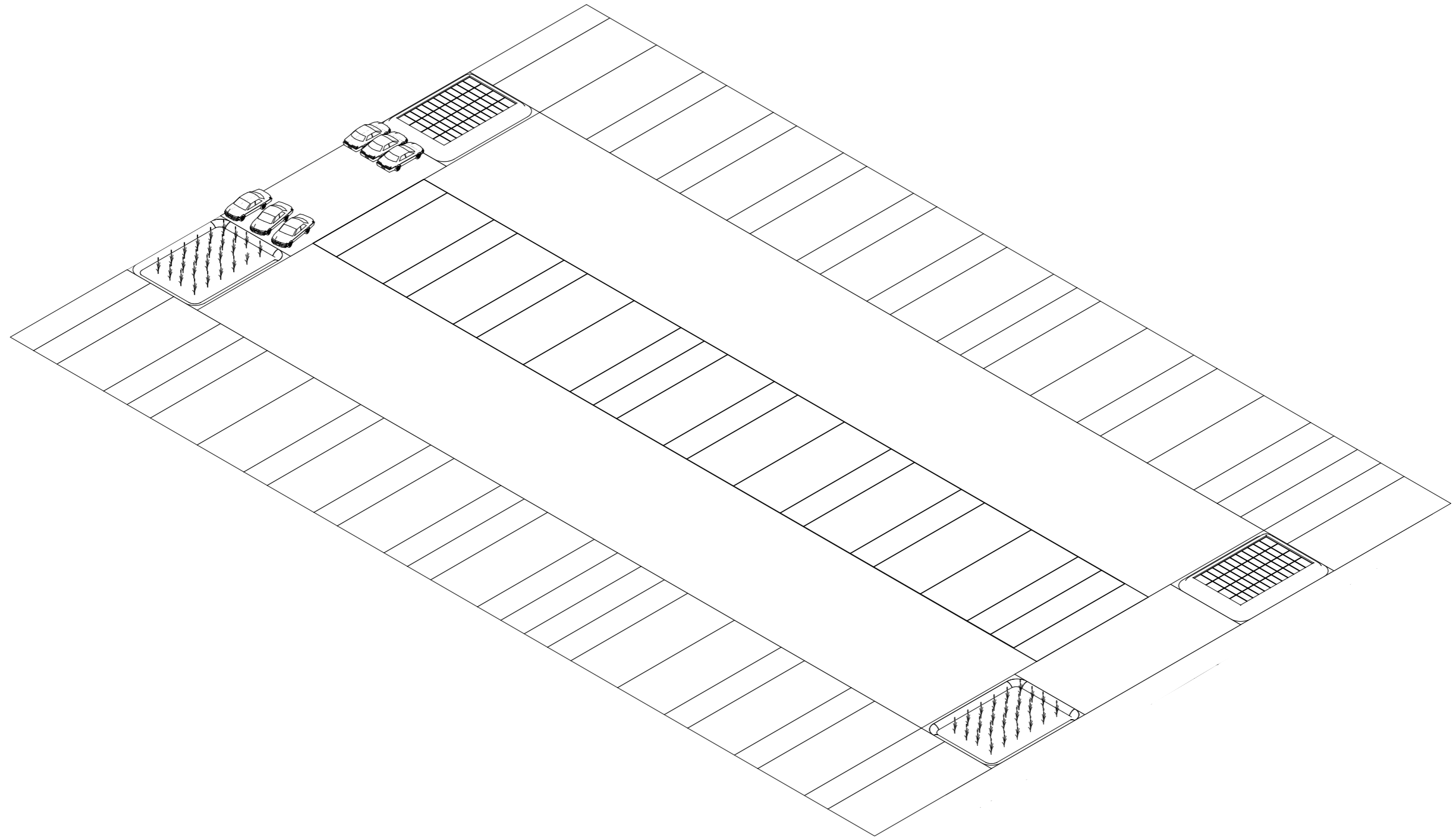


Erf werking

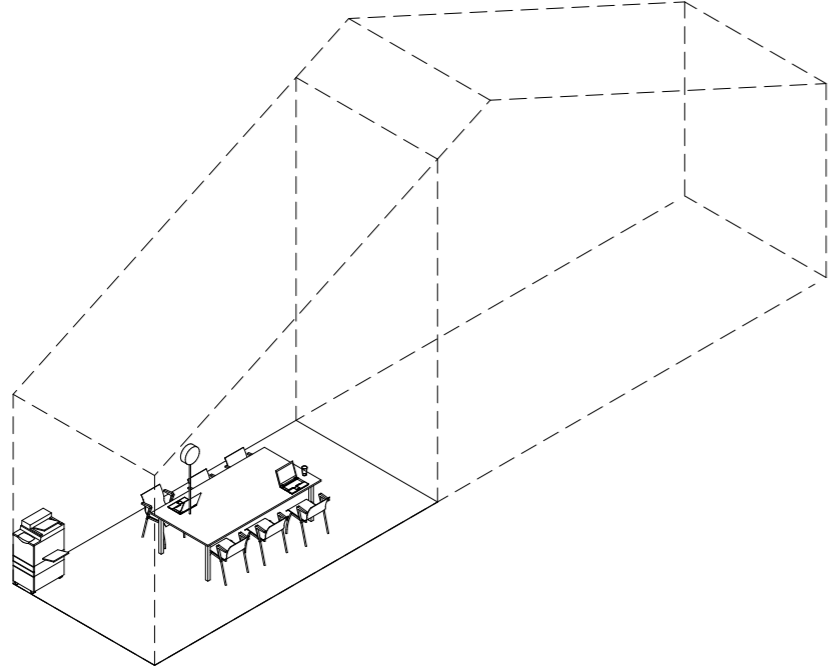


- ① Hemelwater afvoer
- ② Wateropslagtank
- ③ Hylofyten filter
- ④ afvoer zwart water
- ⑤ Warmtewisselaar
- ⑥ Warmtebron
- ⑦ Vloerverwarming
- ⑧ Zonnepanelen
- ⑨ Ventilatie

Erf systeem

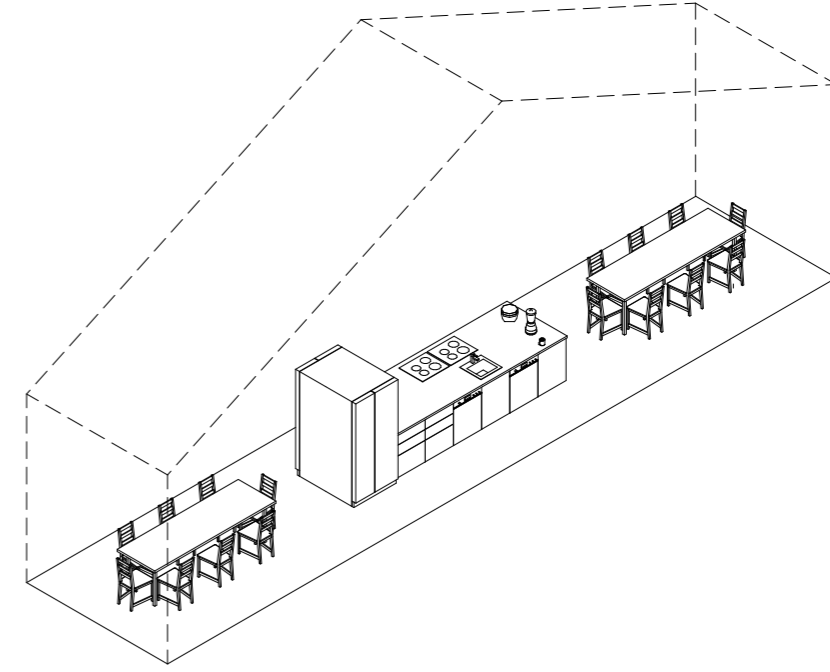


Collectieve programma



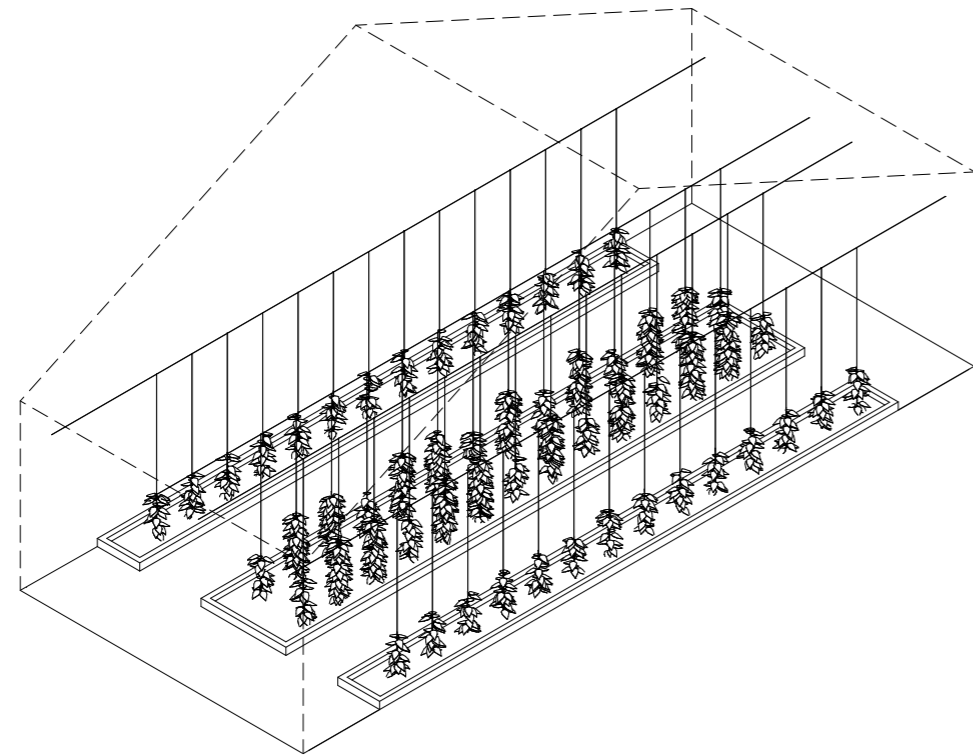
FLEXRUIMTE KANTOOR

6,0x3,0M (LxB)
18m² (OPP)



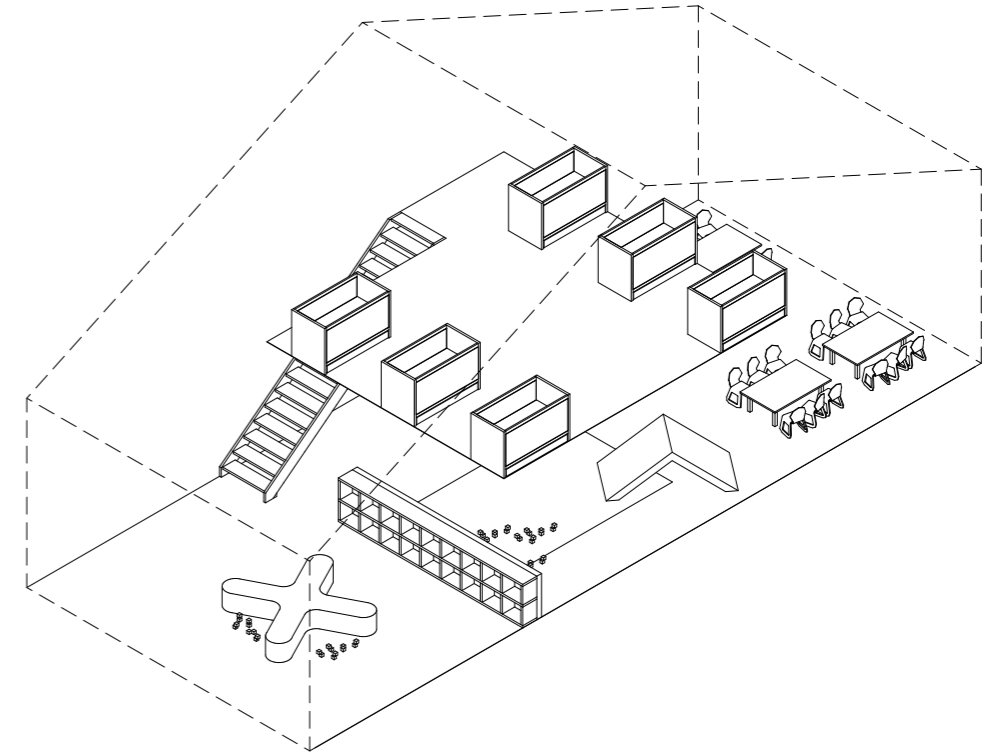
GEMEENSCHAPPELIJKE KEUKEN

14,0x3,0M (LxB)
42m² (OPP)



KAS

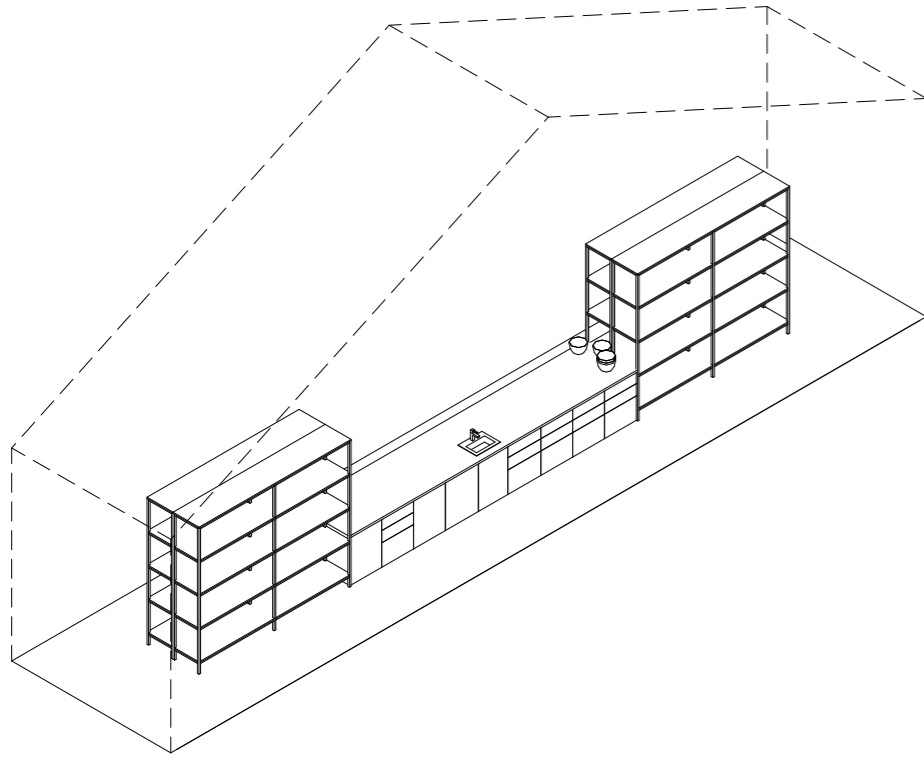
14,0x6,0M (LxB)
84m² (OPP)



KINDEROPVANG

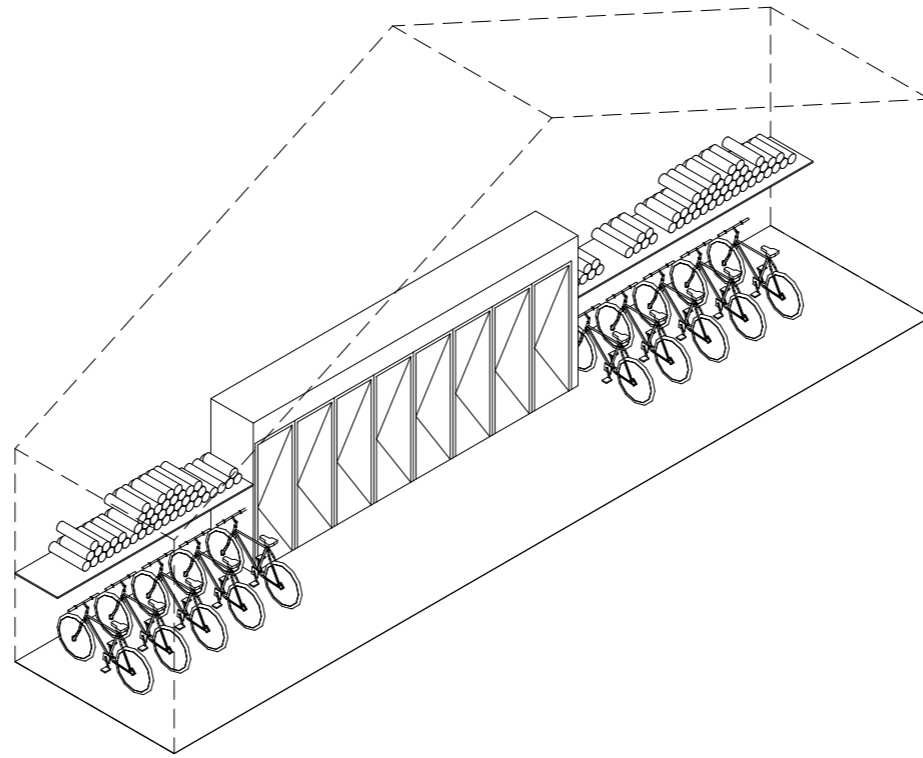
14,0x6,0M (LxB)
84m² (OPP)

Collectieve programma



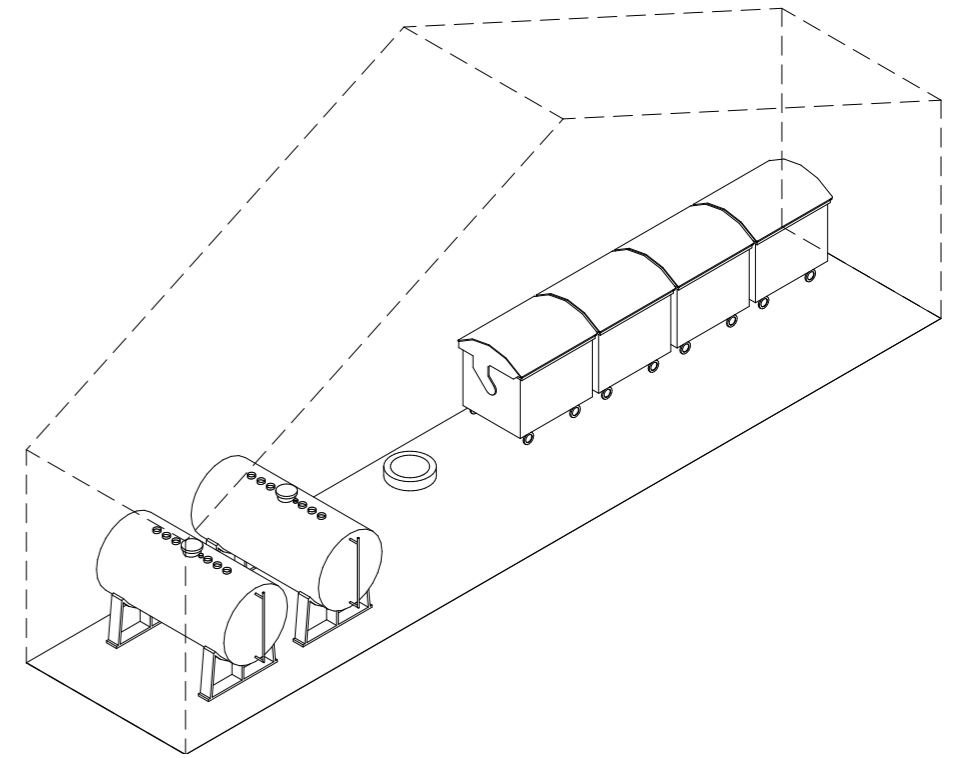
VOEDSELVERWERKING

14,0x3,0M (LxB)
42m² (OPP)



FUNCTIONELE KOP 1

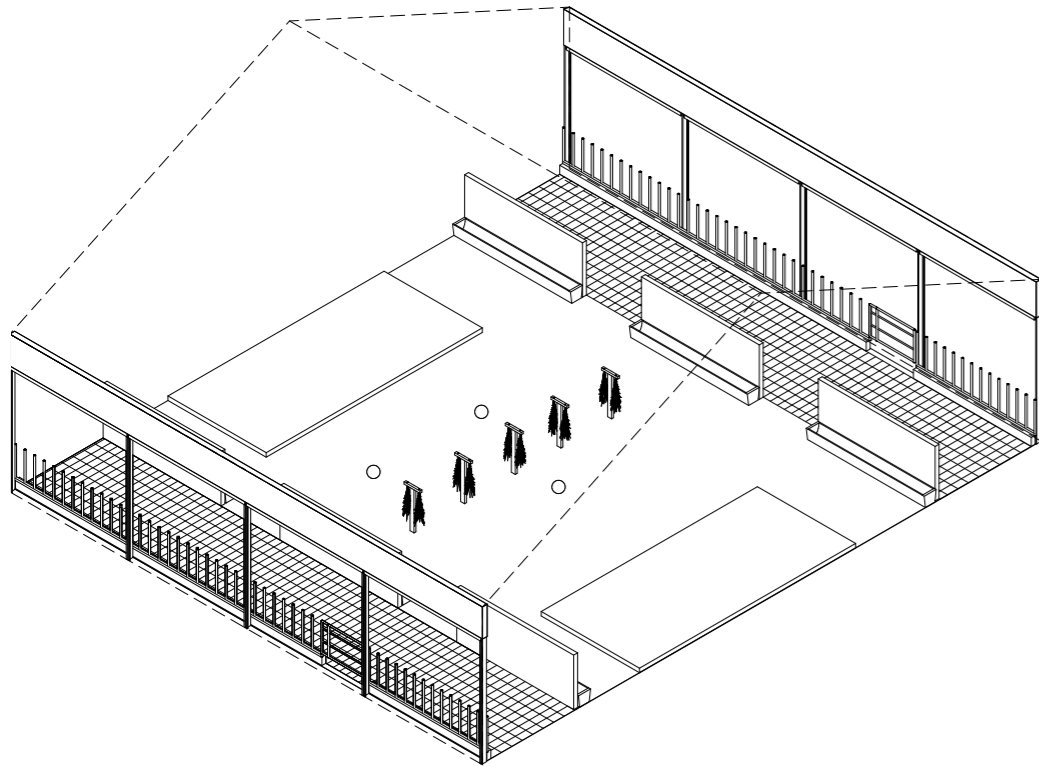
14,0x6,0M (LxB)
42m² (OPP)



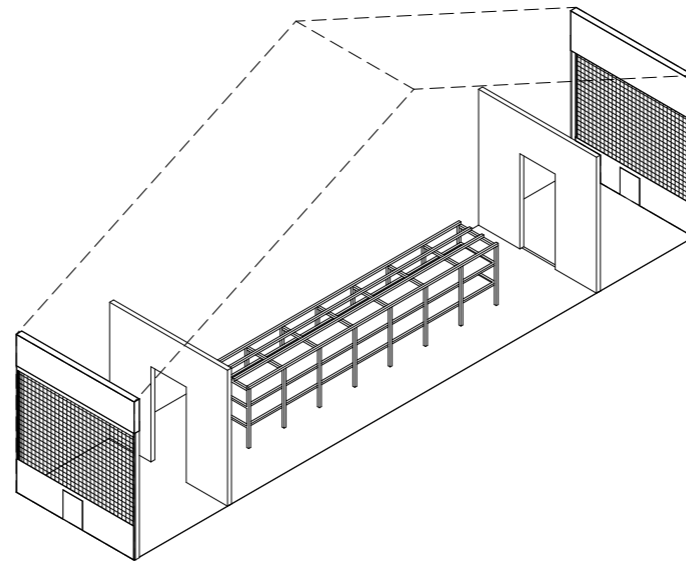
FUNCTIONELE KOP 2

14,0x3,0M (LxB)
42m² (OPP)

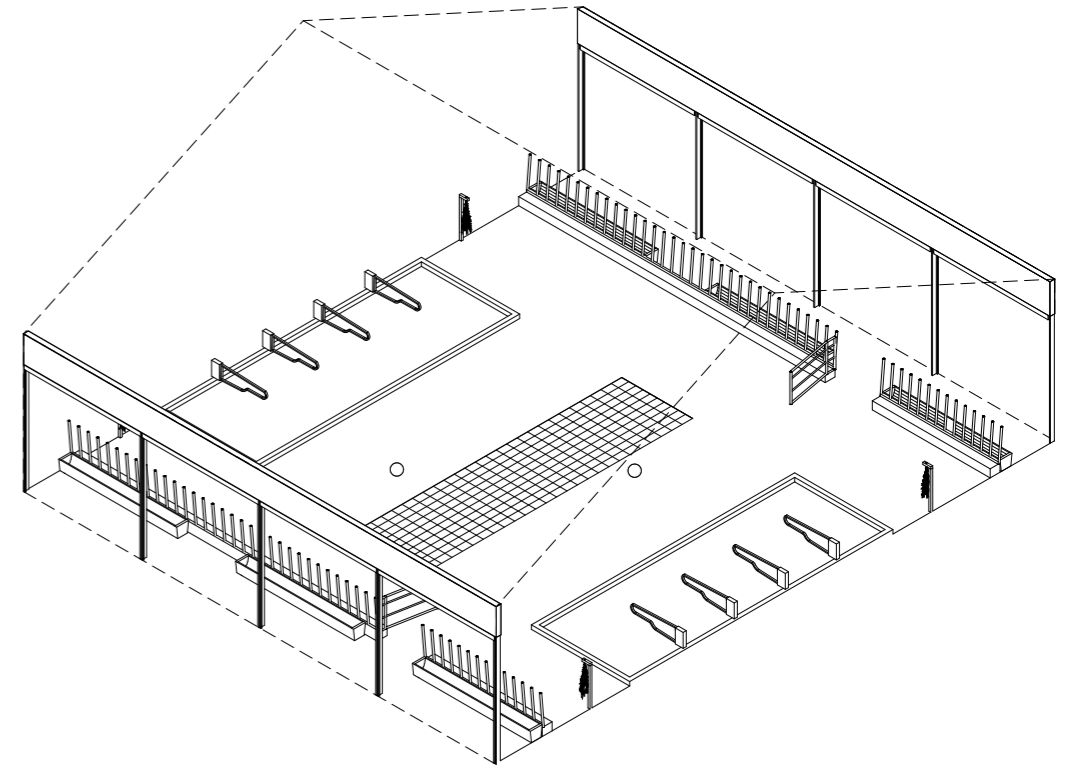
Dierenverblijven



VARKENSTAL
14,0x12,0M (LxB)
168m² (OPP)

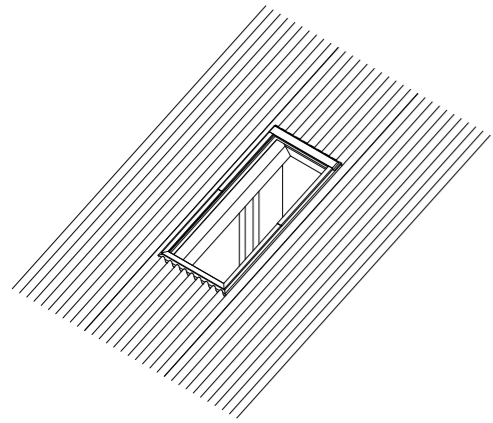


KIPPENSTAL
14,0x3,0M (LxB)
42m² (OPP)

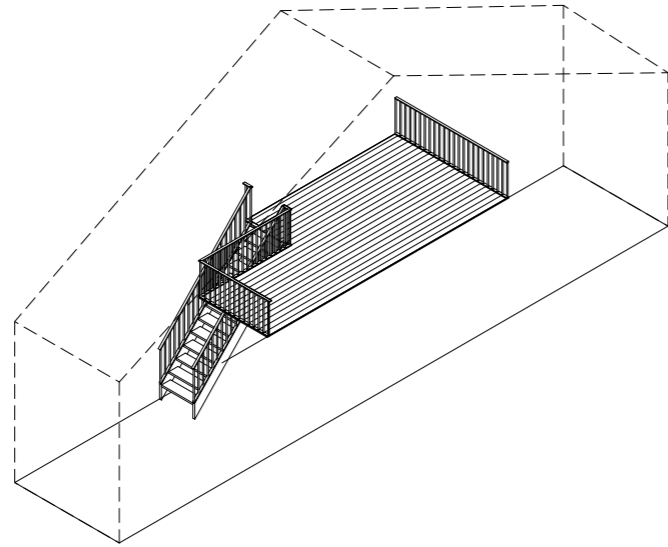


KOEIENSTAL
14,0x12,0M (LxB)
168m² (OPP)

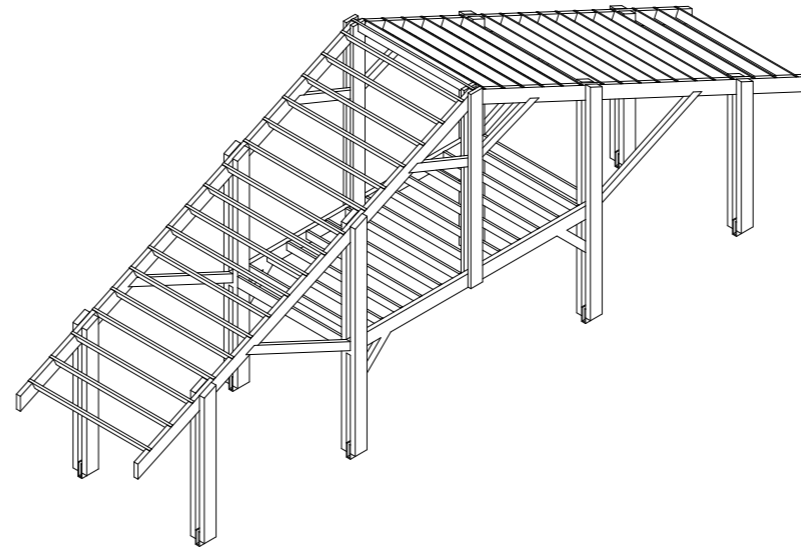
Architectonische elementen



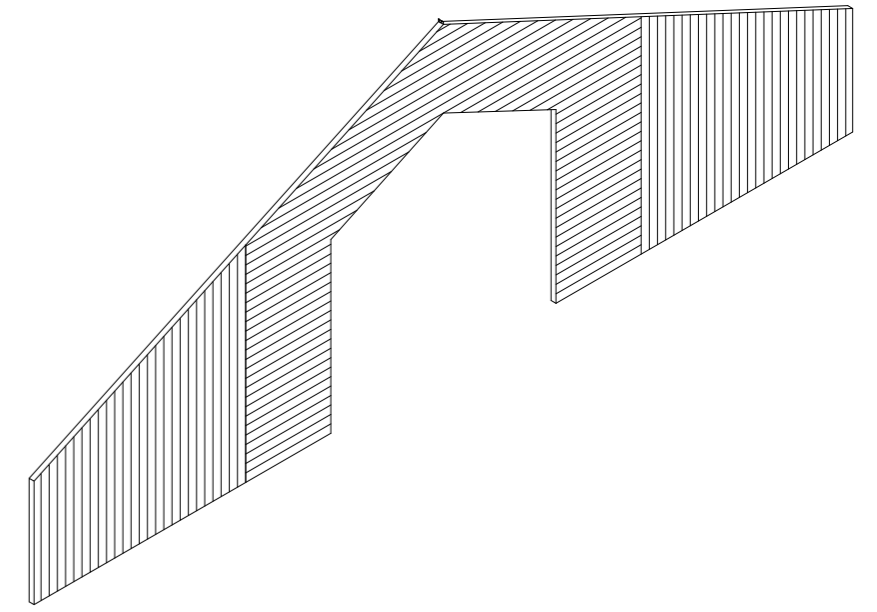
LUIKEN



VIDE

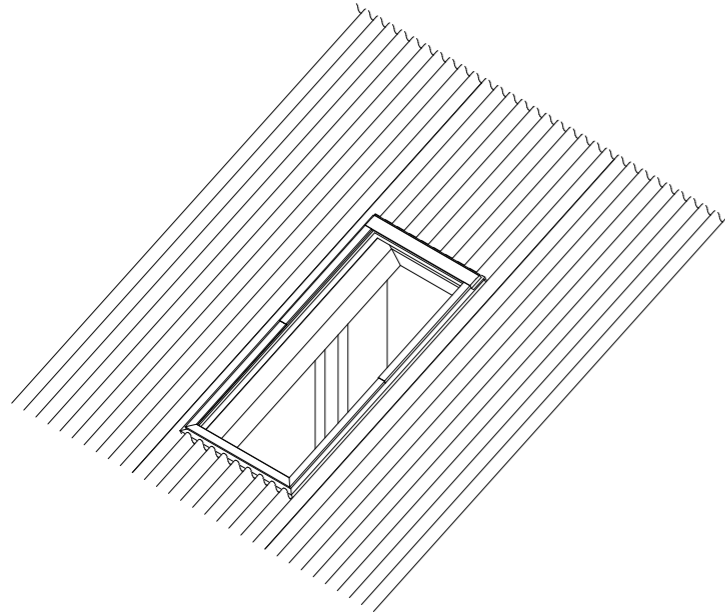


DRAAGCONSTRUCTIE

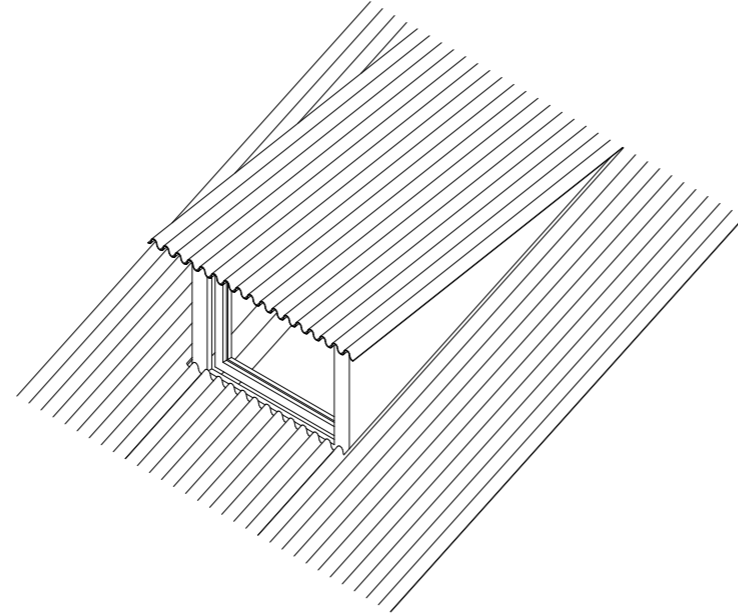


POORT

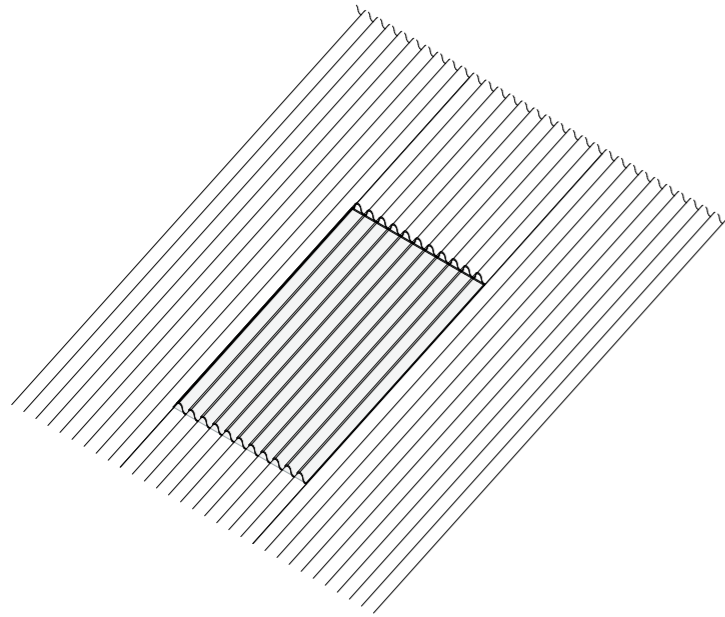
Luiken



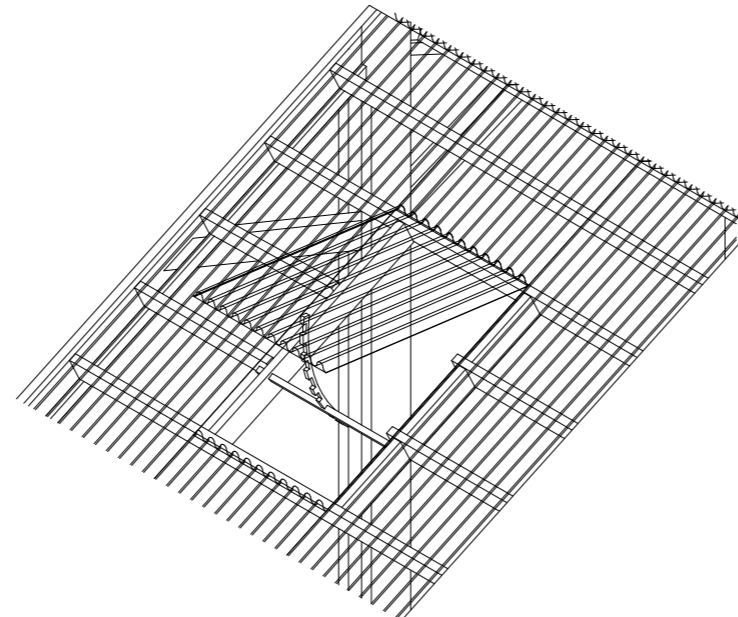
DAKRAAM



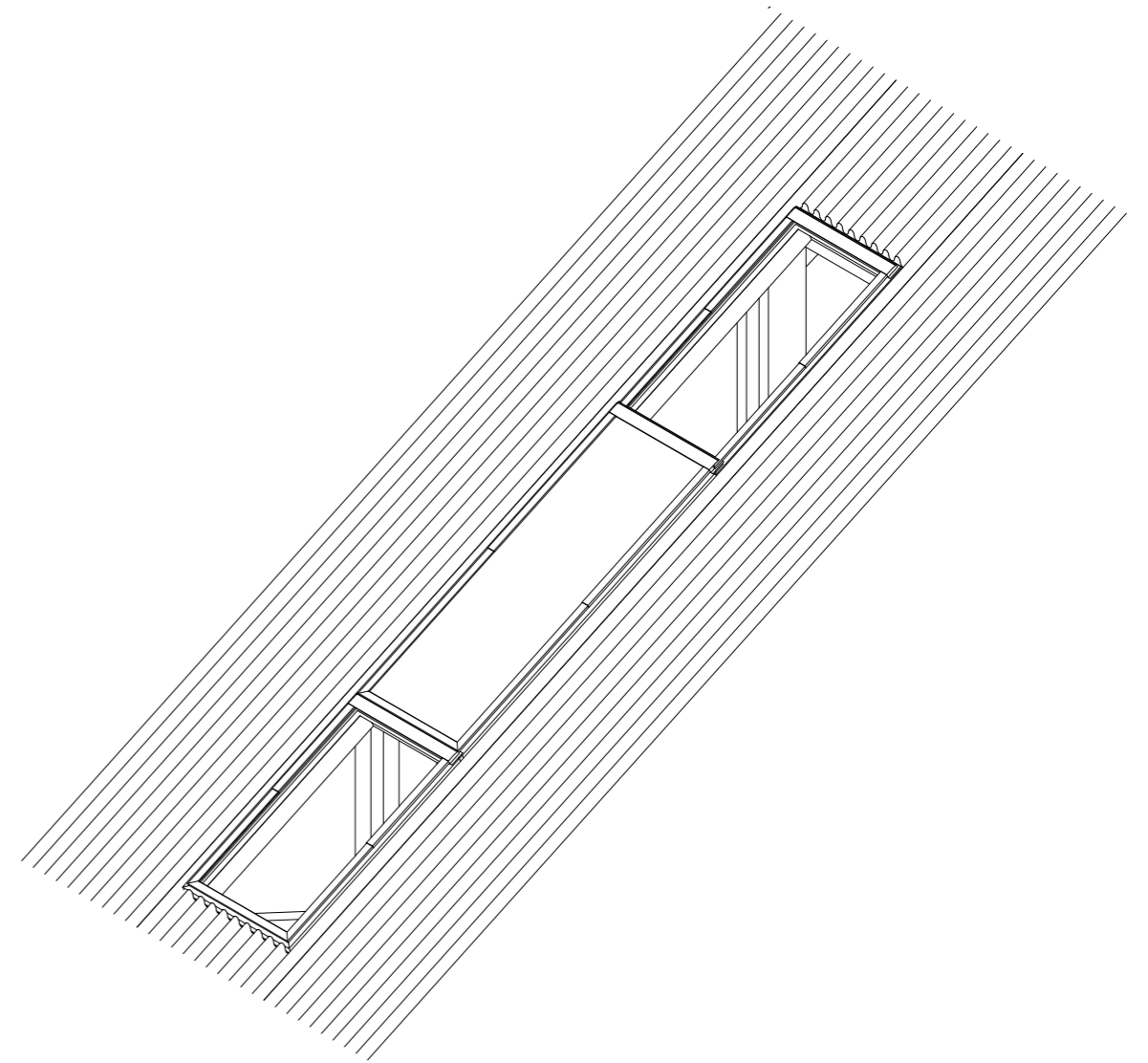
DAKKAPEL



TRANSLUCENT DAKDEEL

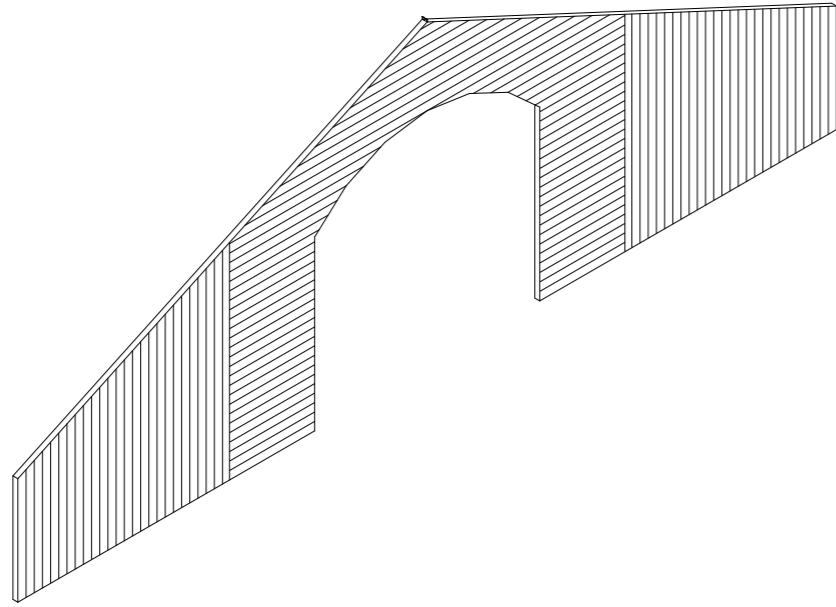


DAKLUIK KAS

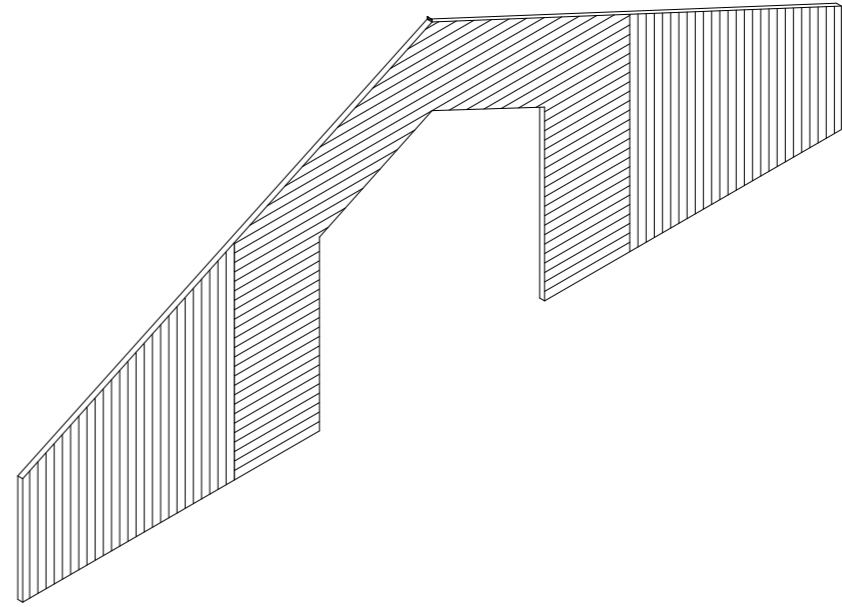


GLASSTROOK DAK

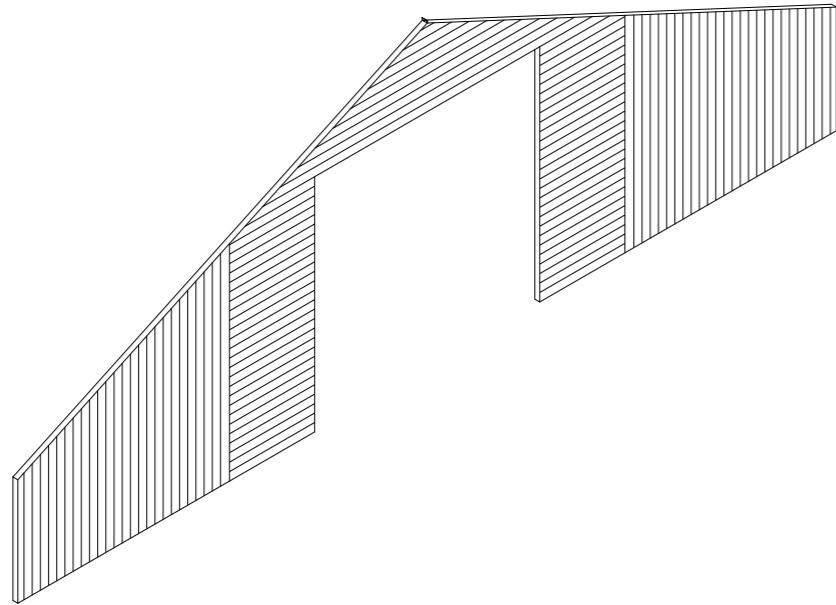
Poorten



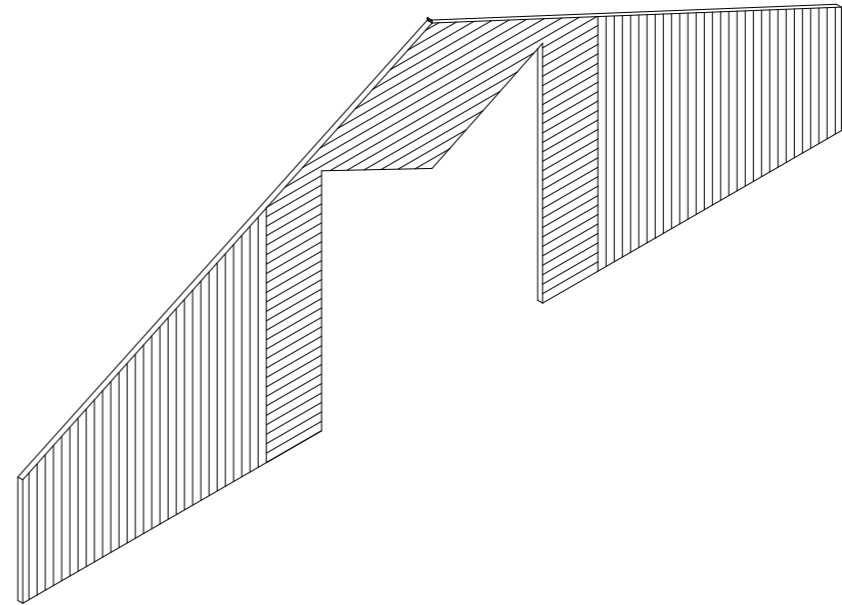
RONDE POORT



DRIEHOEKS POORT



RECHTHOEKIGE POORT

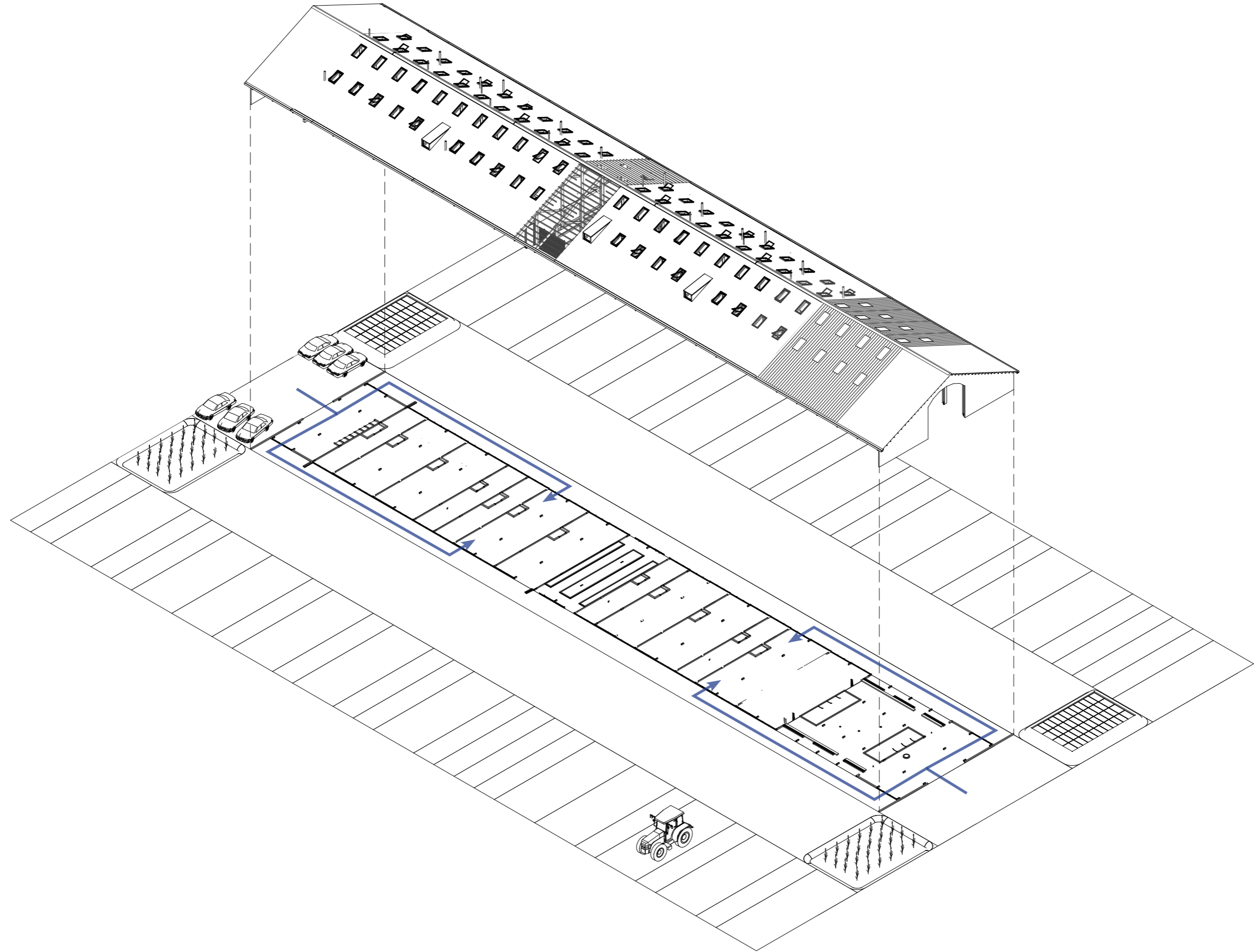


POORT

Erf

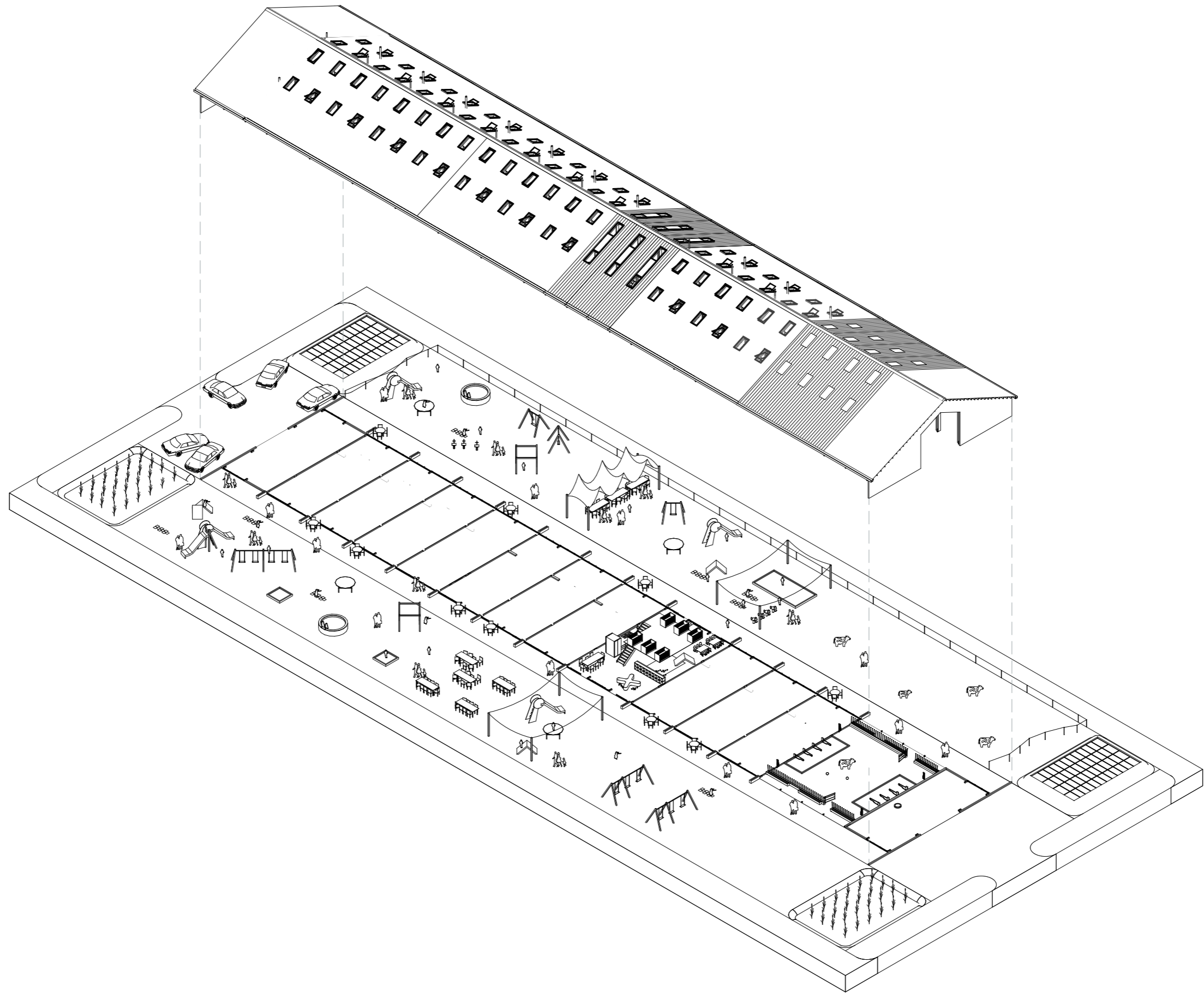


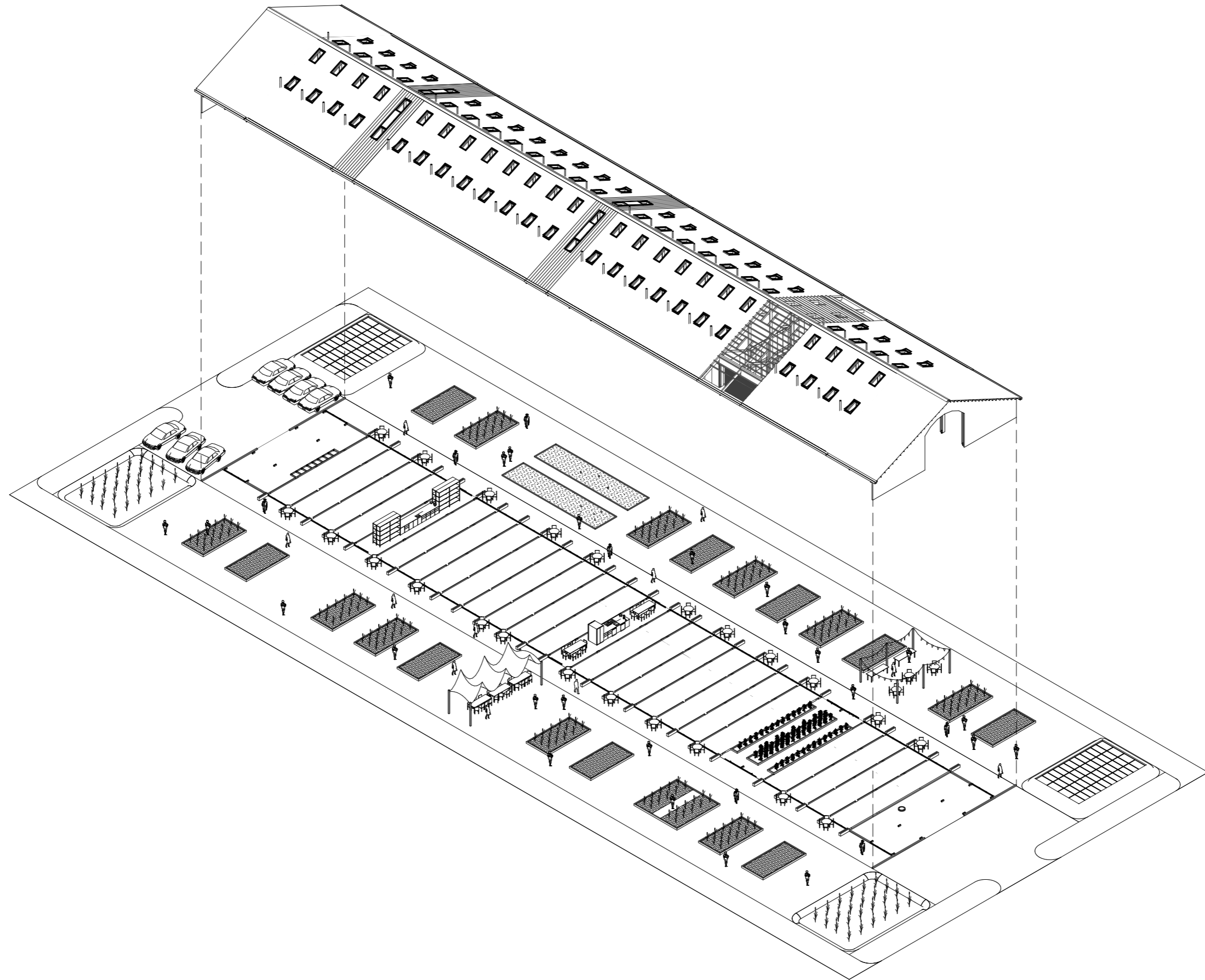
Erf systeem



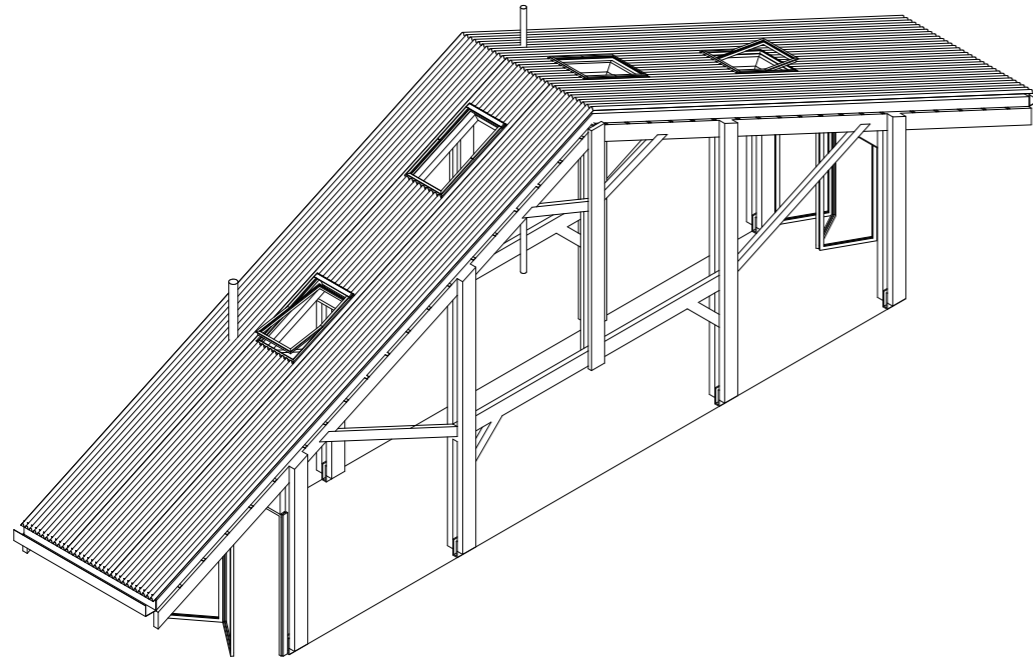
Erf



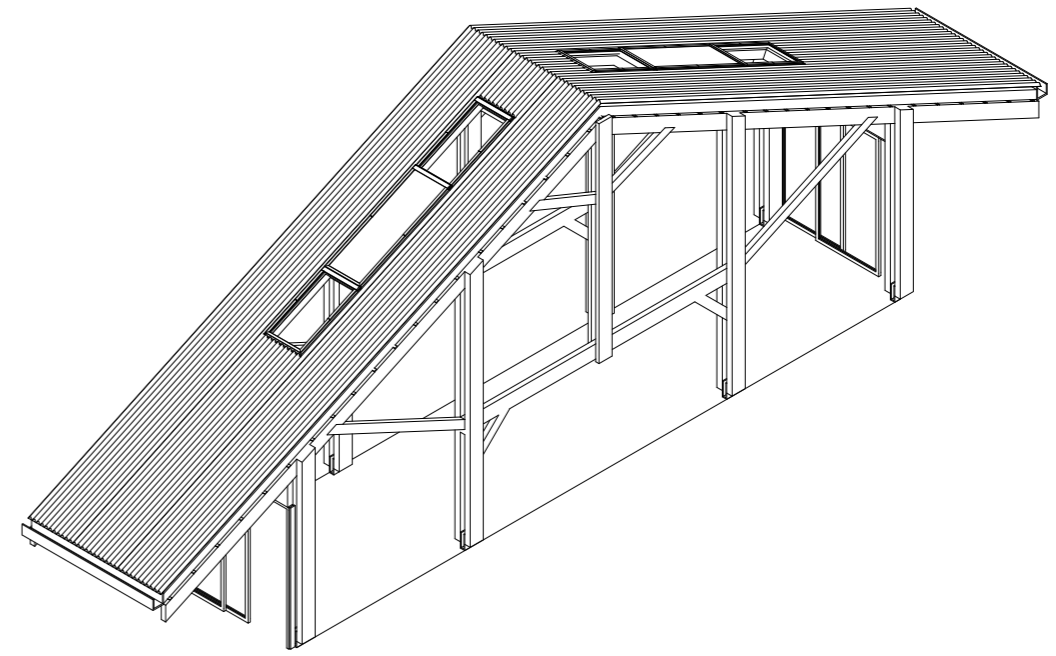




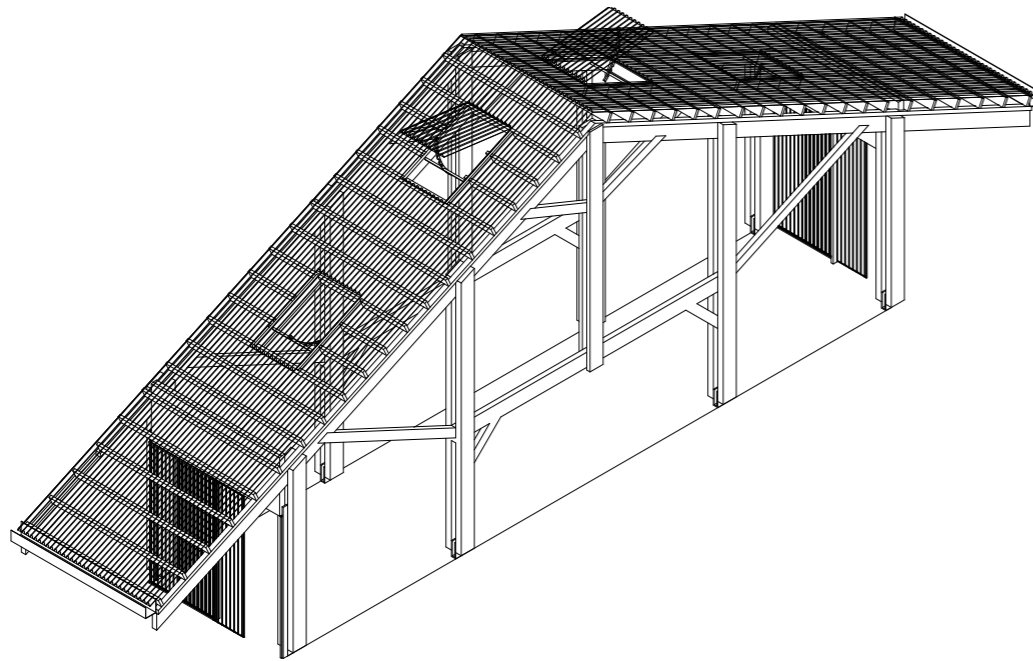
Schil



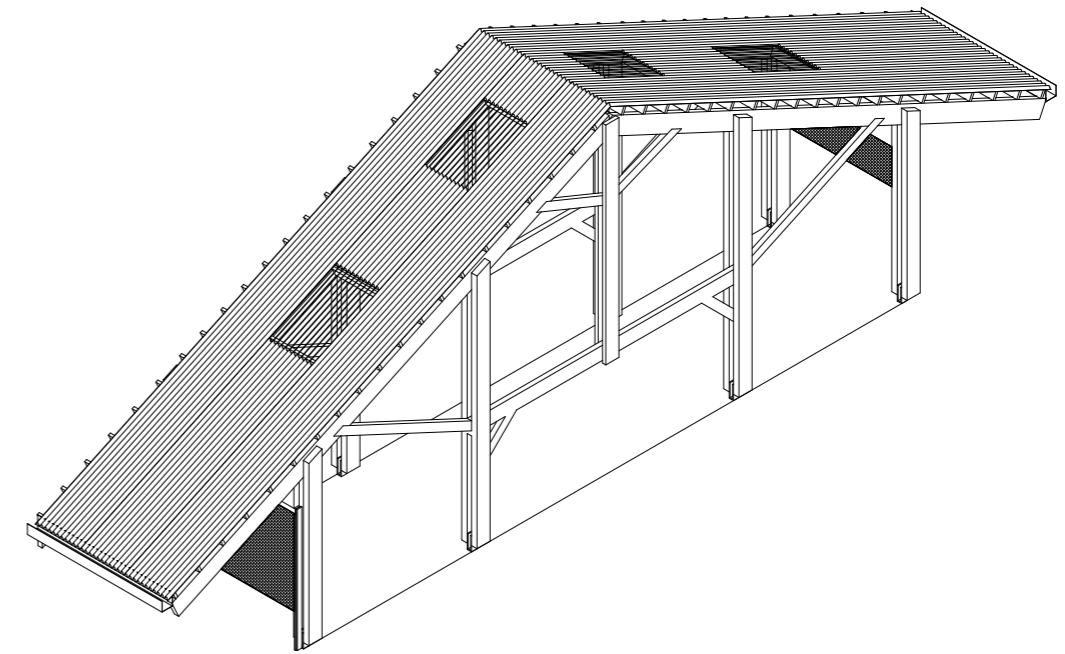
GEVEL WONINGEN



GEVEL COLLECTIEVE
PROGRAMMA



GEVEL KAS

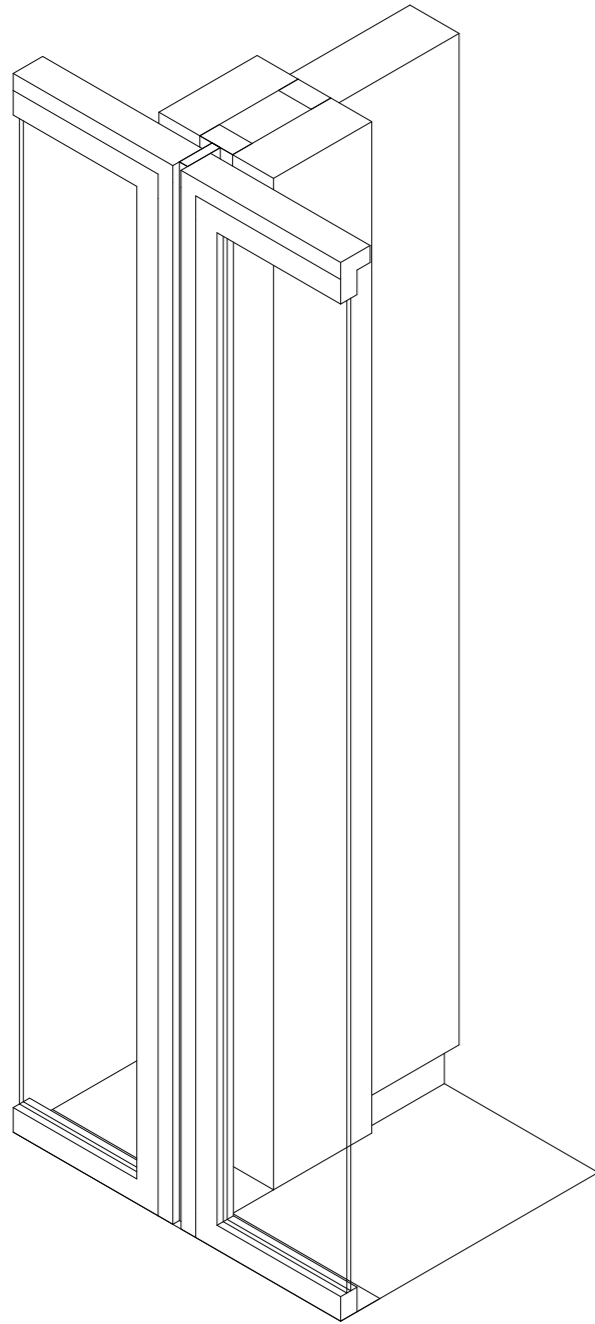


GEVEL STAL

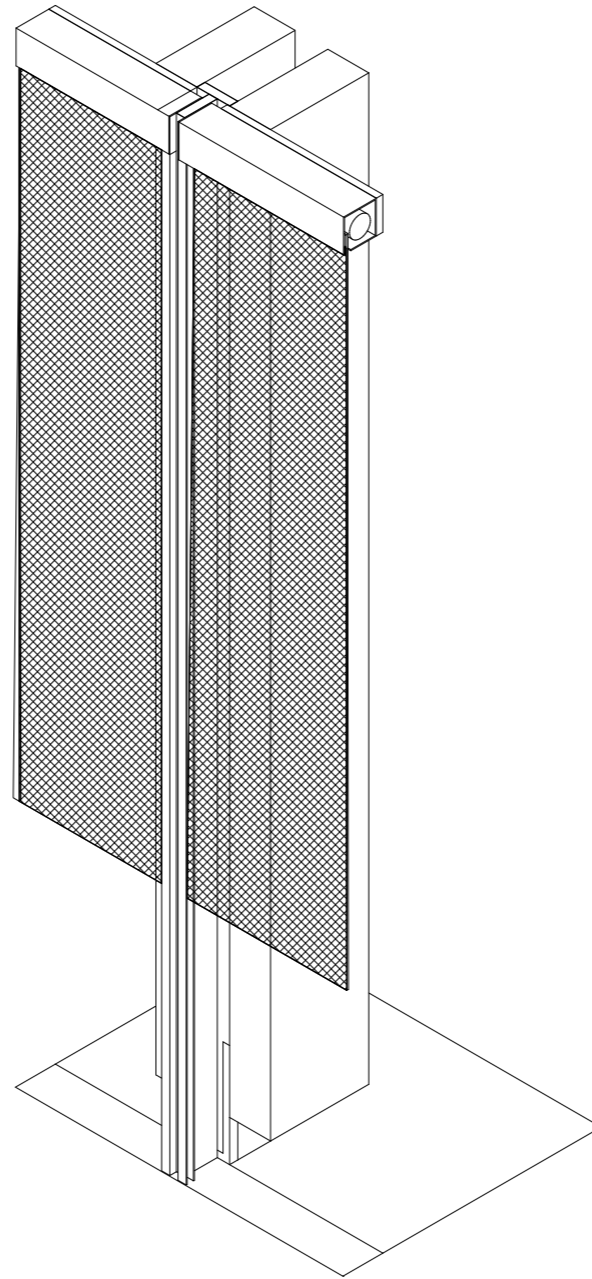
Schil



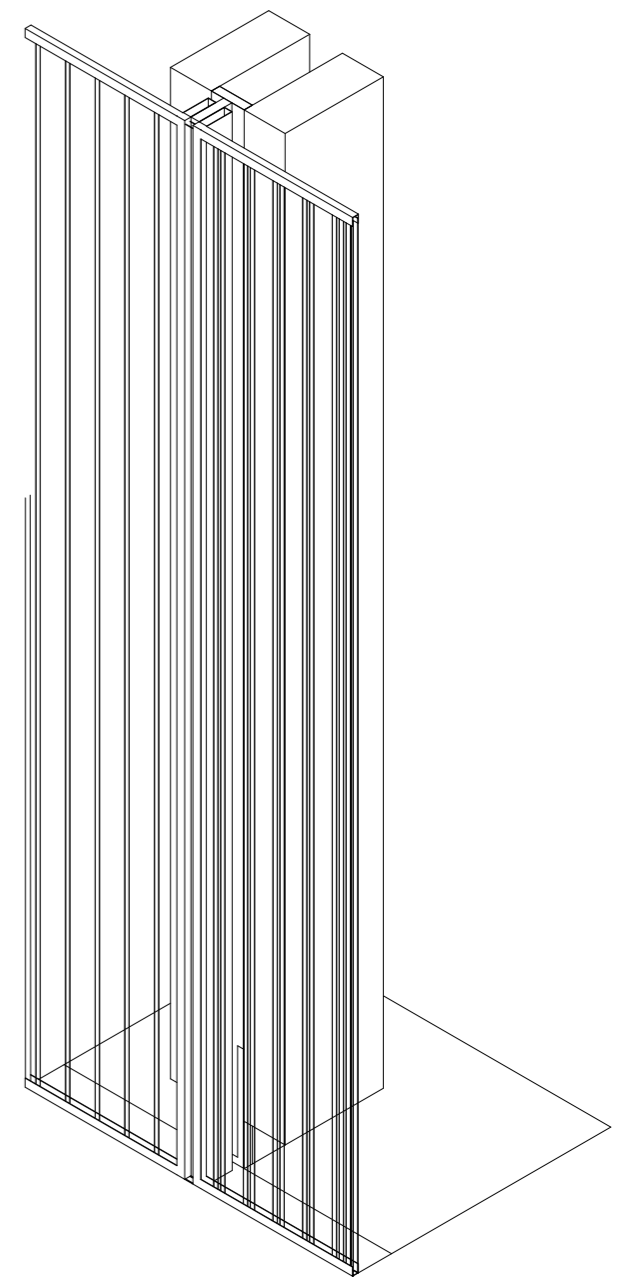
Details schil



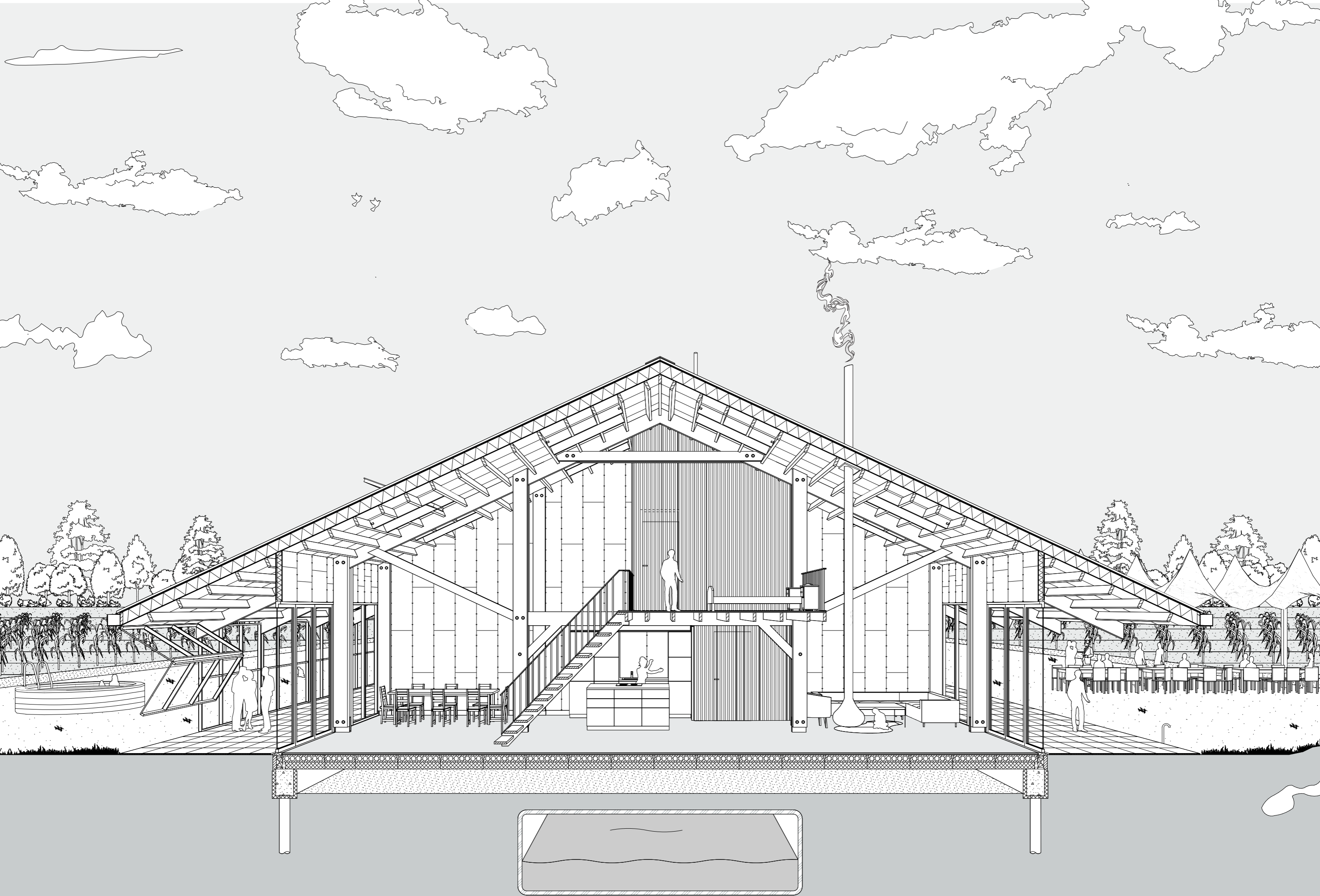
GEVEL WONINGEN



GEVEL STAL



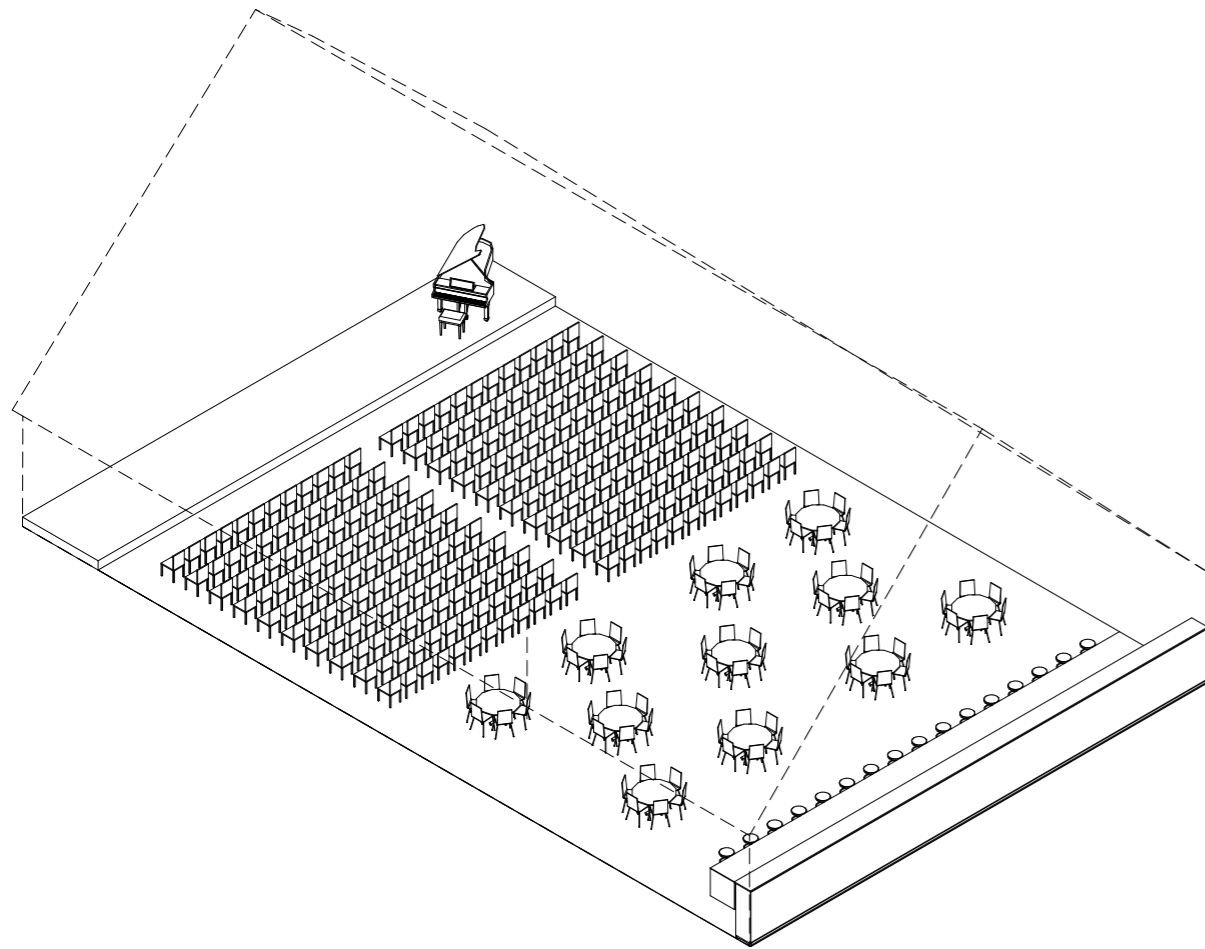
GEVEL KAS



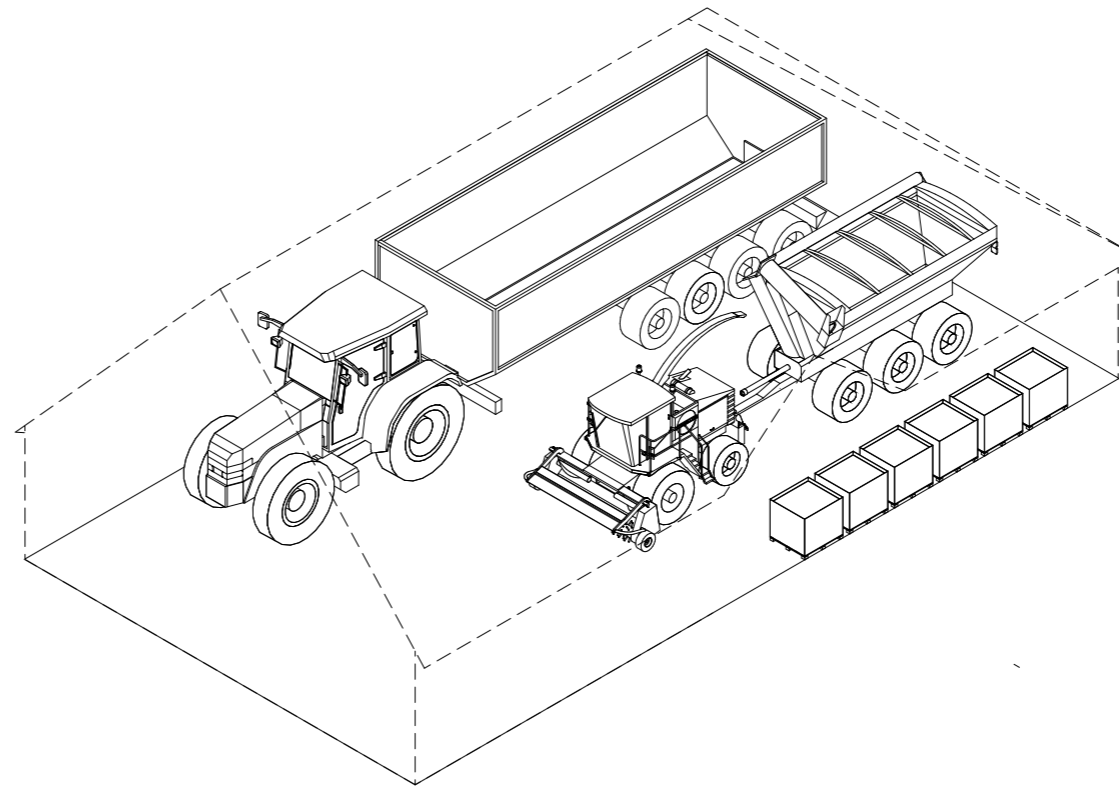
Impressie bestaande boerderij



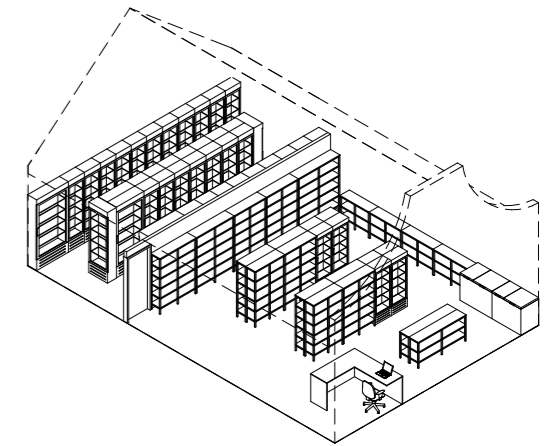
Functie bestaande boerderij



BIJEENKOMST/MULITIFUNCITONELE ZAAL
27,0x17,0M (LxB)
459m² (OPP)



OPSLAG BOER
26,0x15,0M (LxB)
390m² (OPP)



OPSLAG/WINKEL
11,5x7,6M (LxB)
87,5m² (OPP)

Duurzaamheidsschema

