

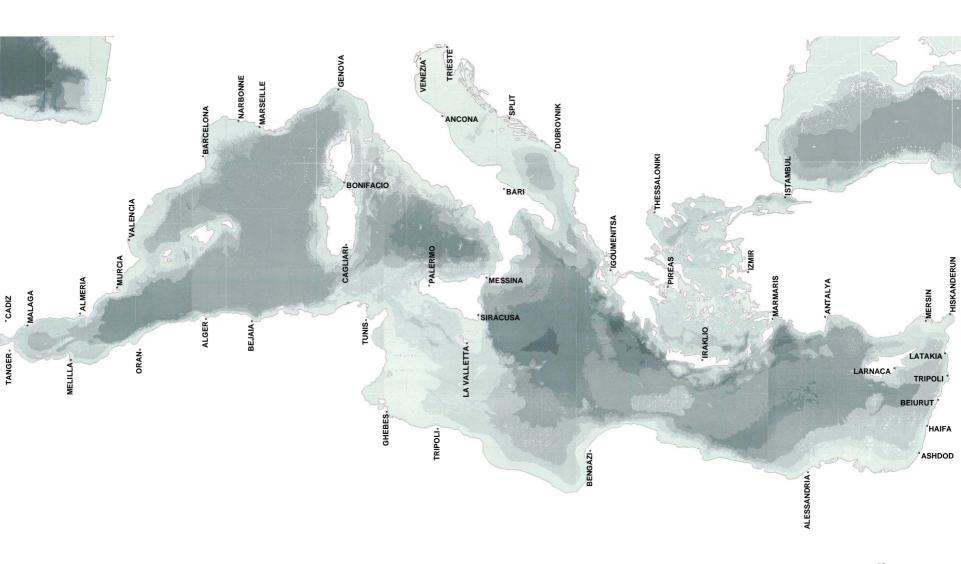
PAESAGGIO E SPAZI URBANI |

SUOLI | RISORSE | PRESTAZIONI

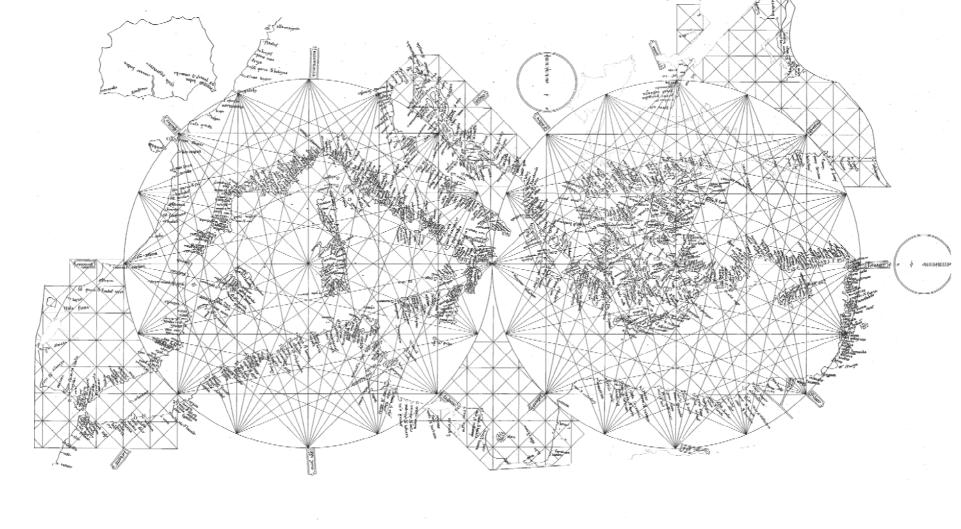
laura zampieri | verona | 07 02 2014

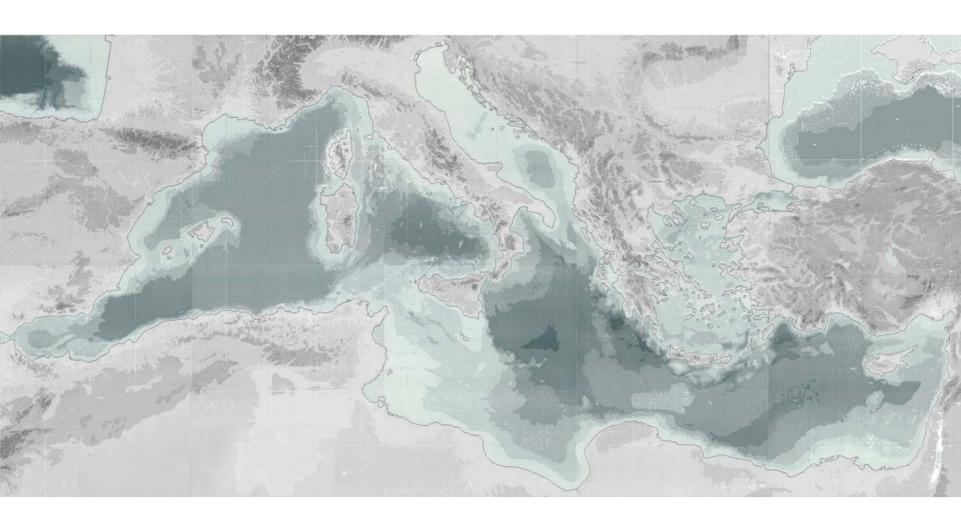
PAESAGGIO E SPAZI URBANI SUOLI | RISORSE | PRESTAZIONI czstudio associati

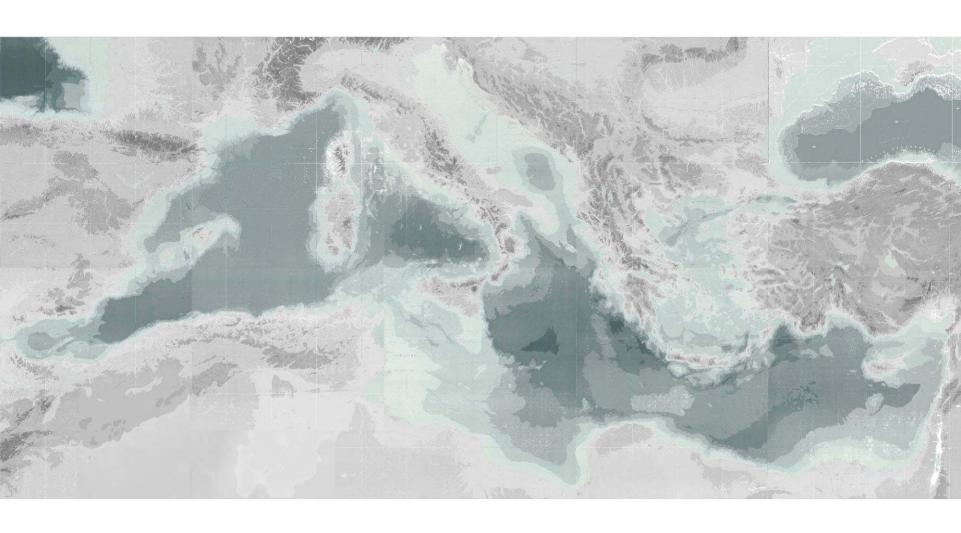
paolo ceccon laura zampieri architetti

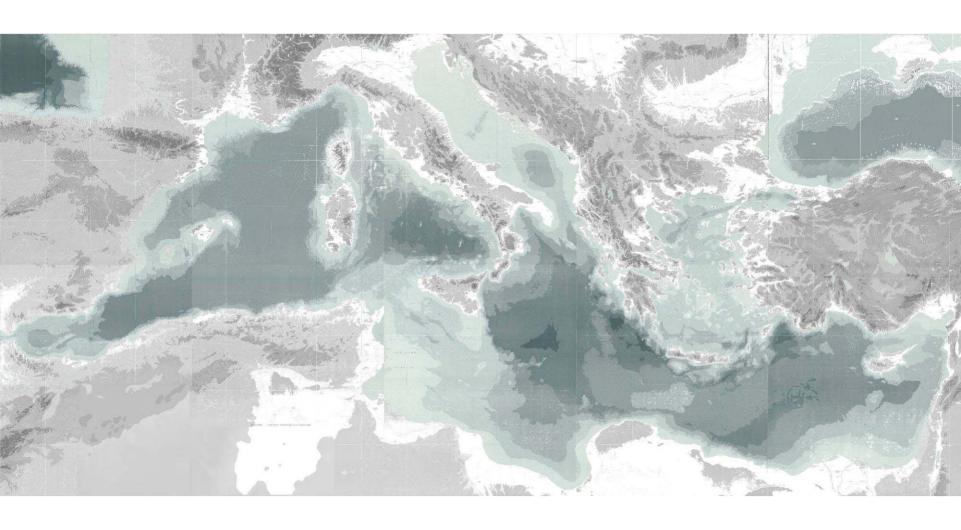


## mediterraneo

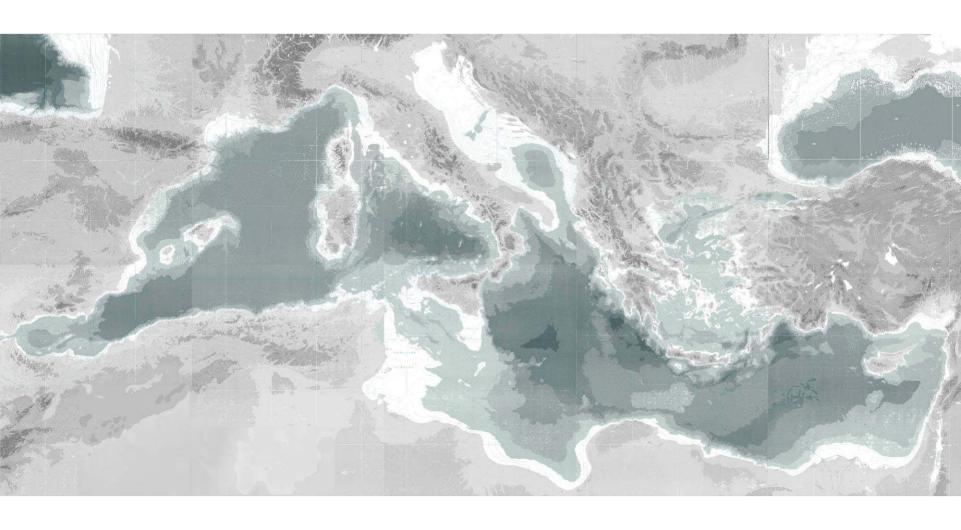




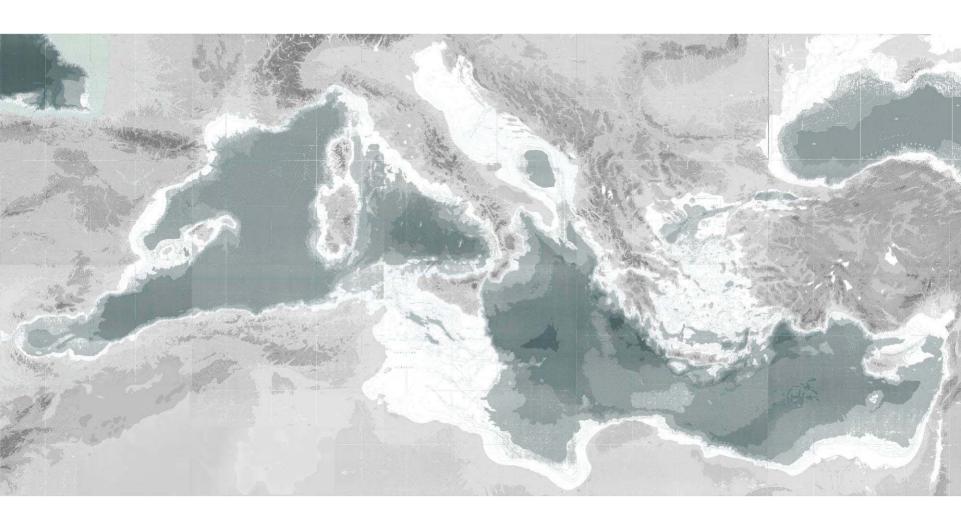




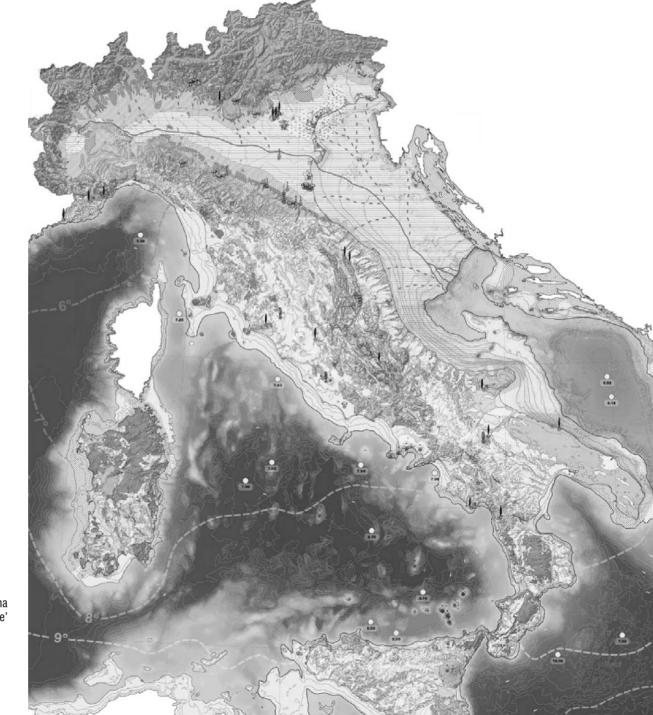
'Pliocene'



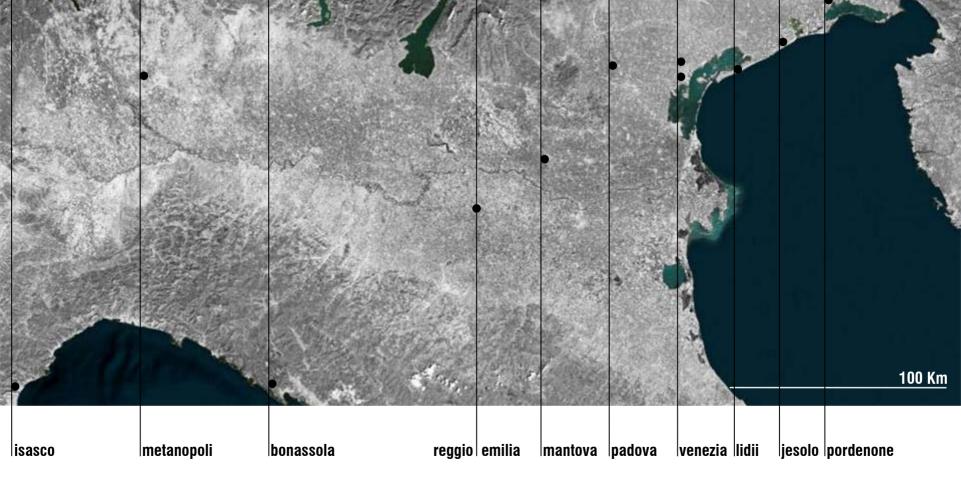
'Quaternario'



'Messiniano'

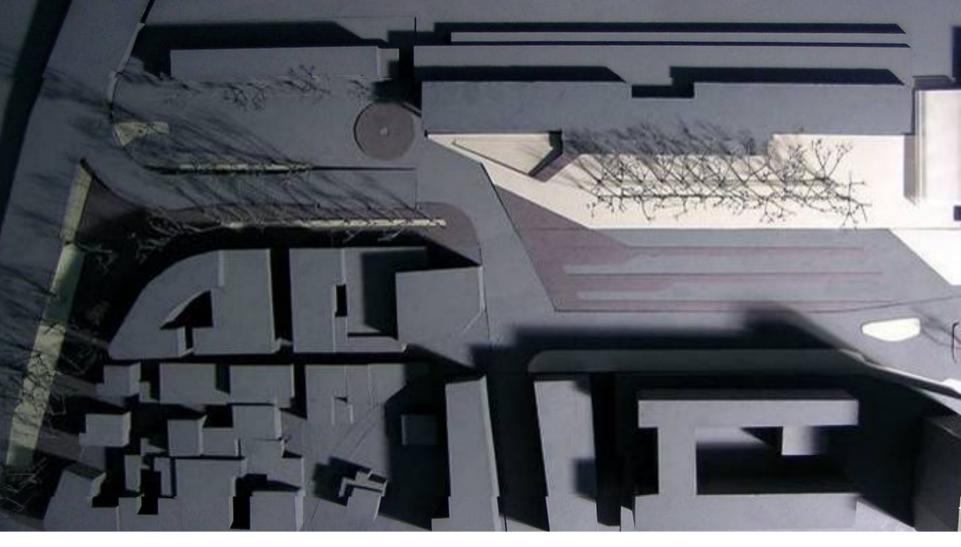


'Carta geomorfologica italiana (Climex maps Vai & Cantelli, 2004) durante l'ultimo periodo glaciale'









nuovi piazzali della stazione di padova | padova IT | 2008/12

Premio Biennale Internazionale di Architettura Barbara Cappochin 2013 | Padova | IT

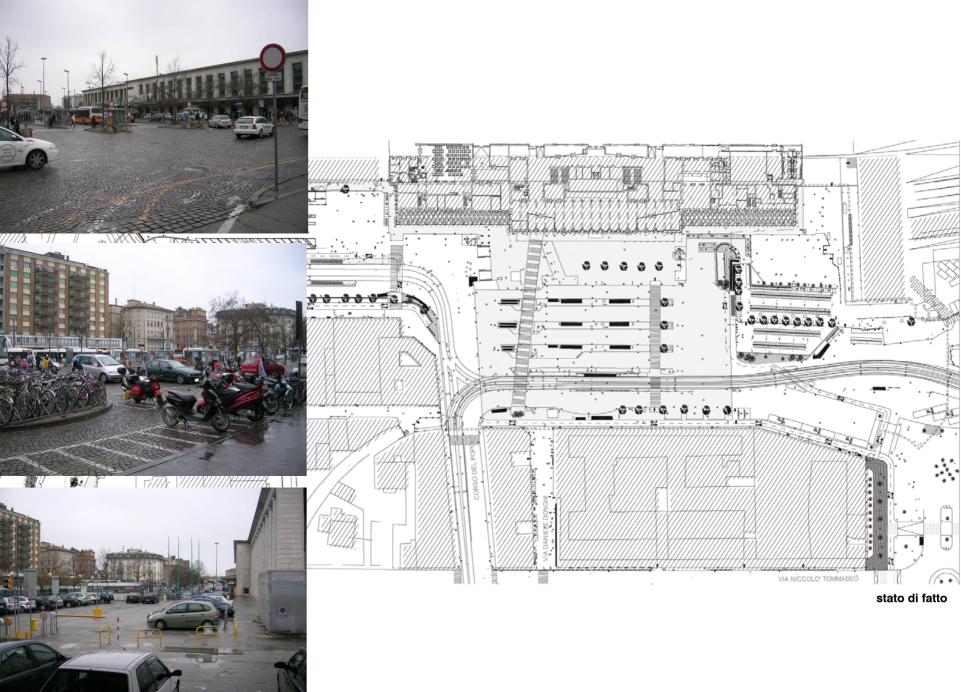


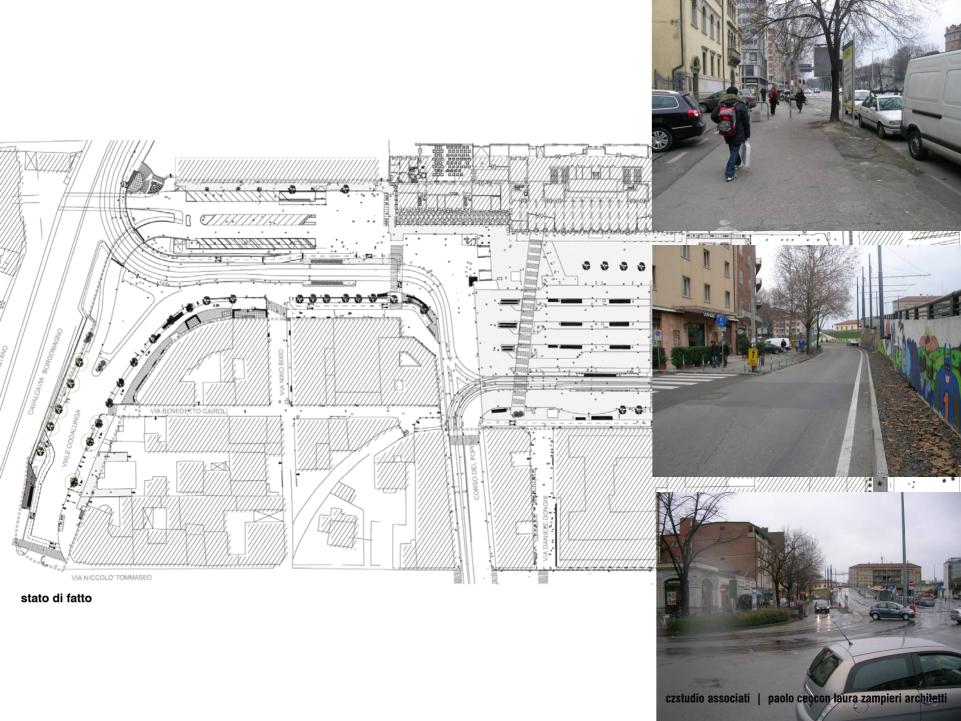
nuovi piazzali della stazione di padova | padova | IT | 2008/12

Premio Biennale Internazionale di Architettura Barbara Cappochin 2013 | Padova | IT

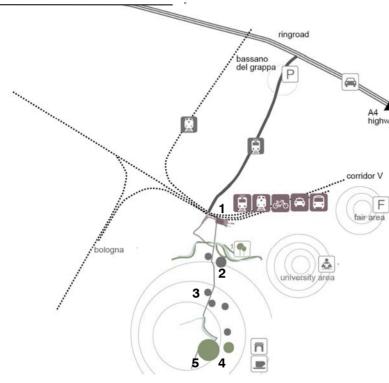


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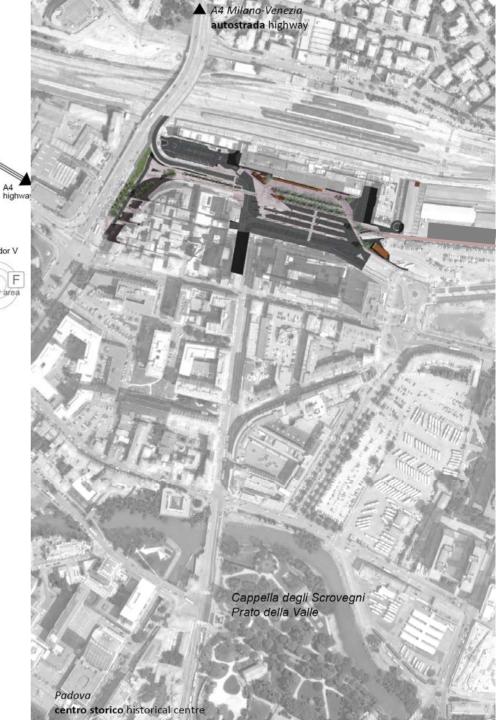


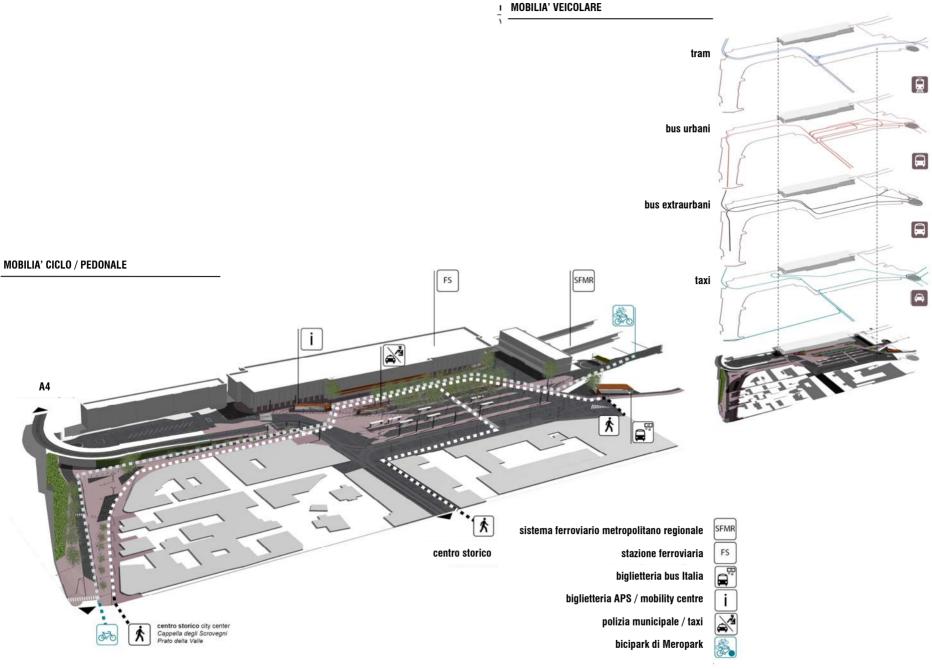


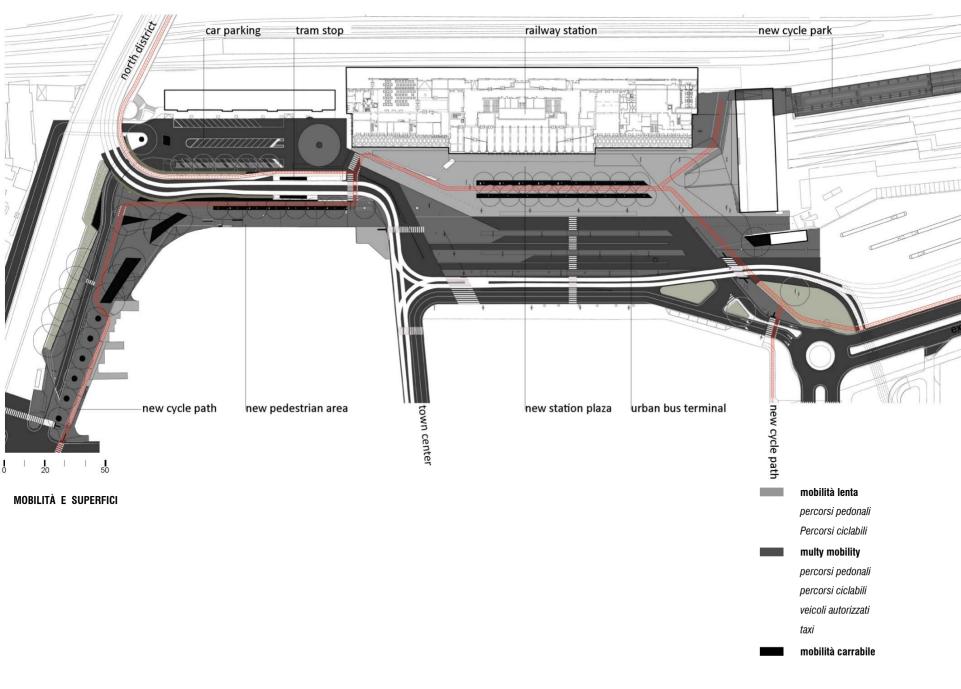
### MOBILIA' URBANA

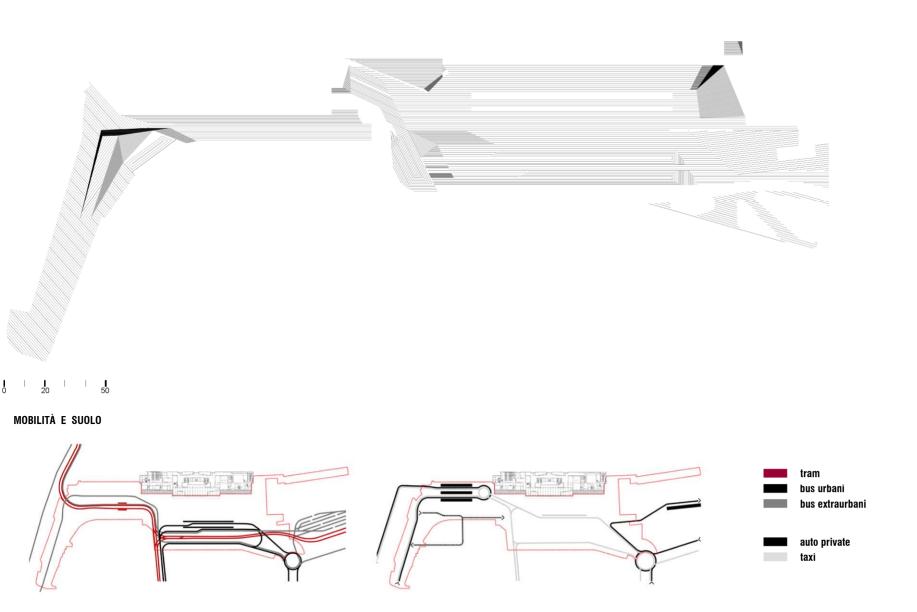


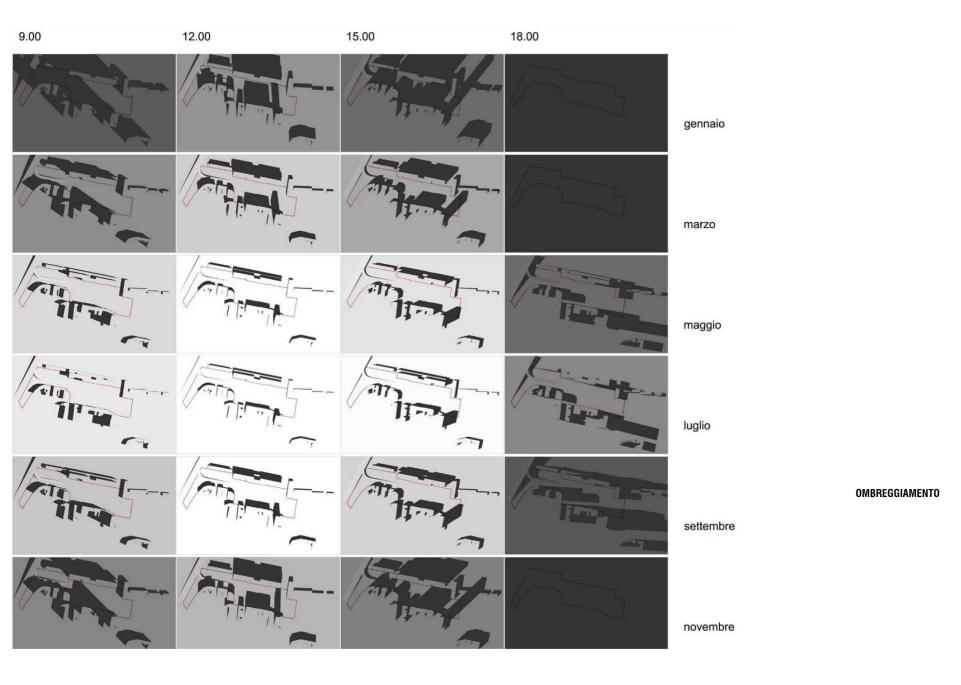
- 1. Stazione di Padova
- 2. Mura di Padova
- 3. Cappella degli Scrovegni
- 4. Palazzo della Ragione
- 5. Orto Botanico
- 6. Prato della Valle

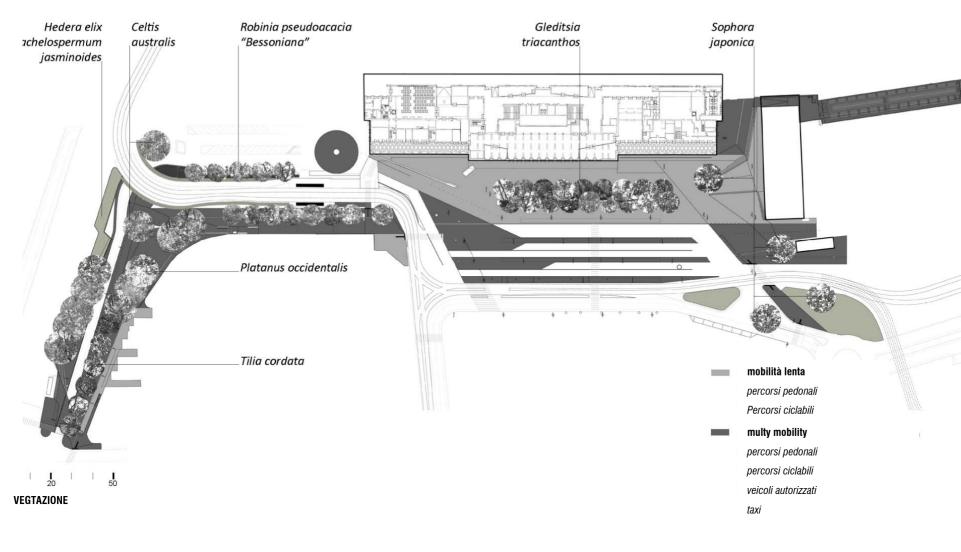


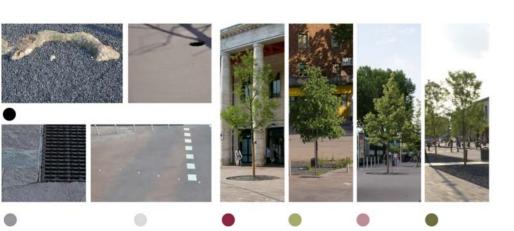






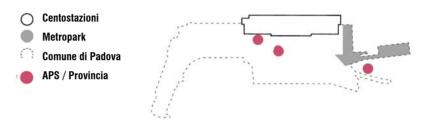




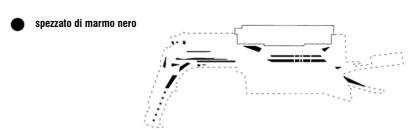


COMFORT URBANO \_ ambiente antropico e naturale

#### ATTORI



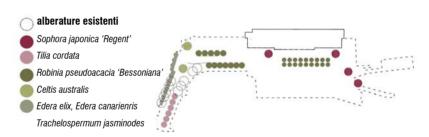
#### SUPERFICI PERMEABILI



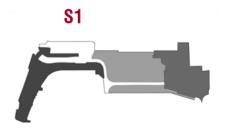
#### SUPERFICI IMPERMEABILI

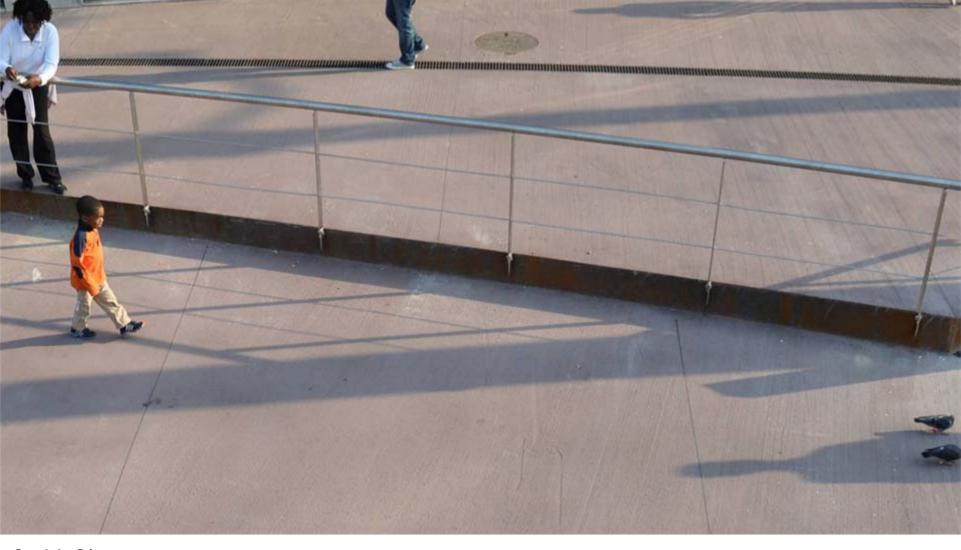
porfido | percorsi pedonali
cls pigmentato | multy mobility

#### **COPERTURA VEGETALE**



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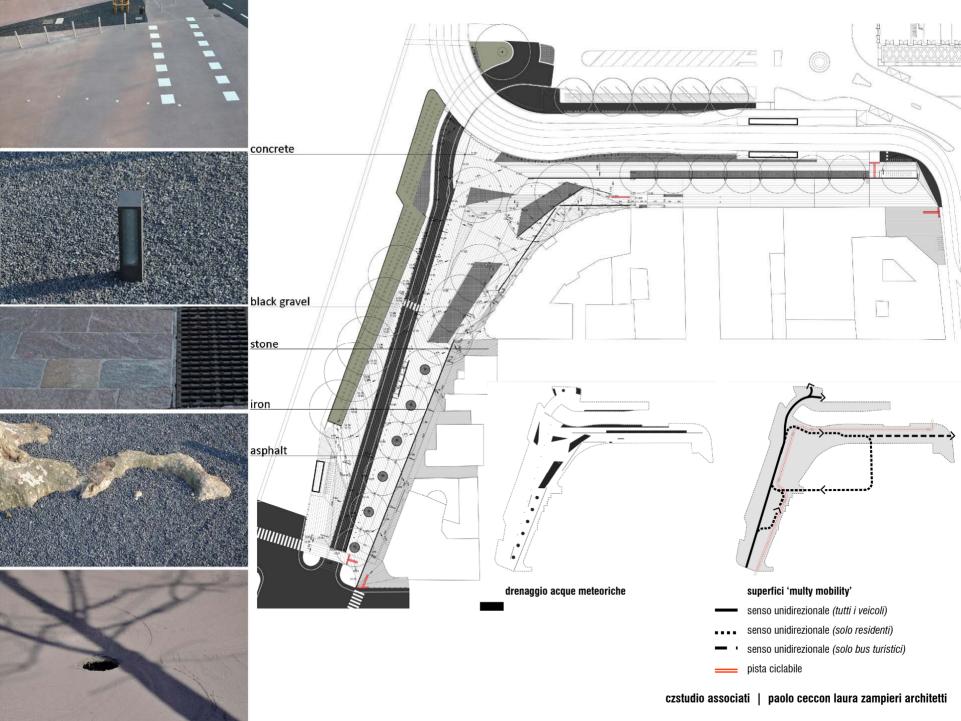
Stralcio S1

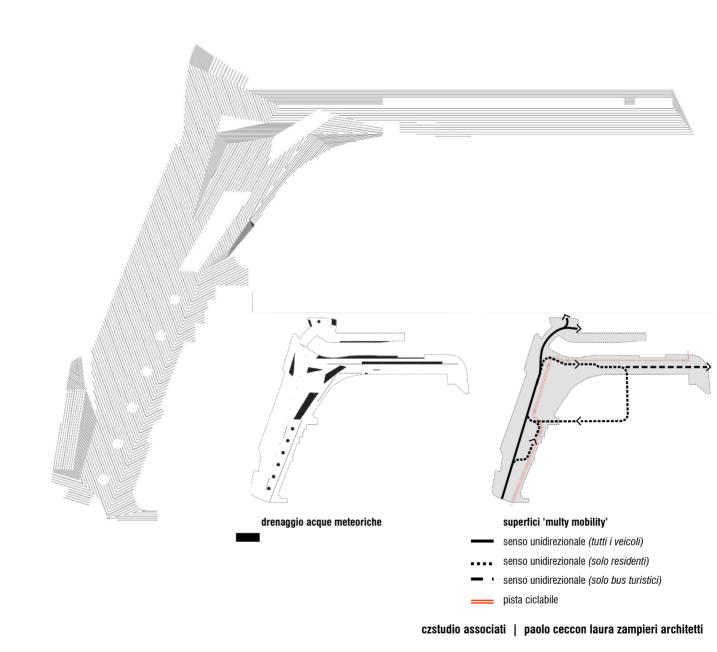


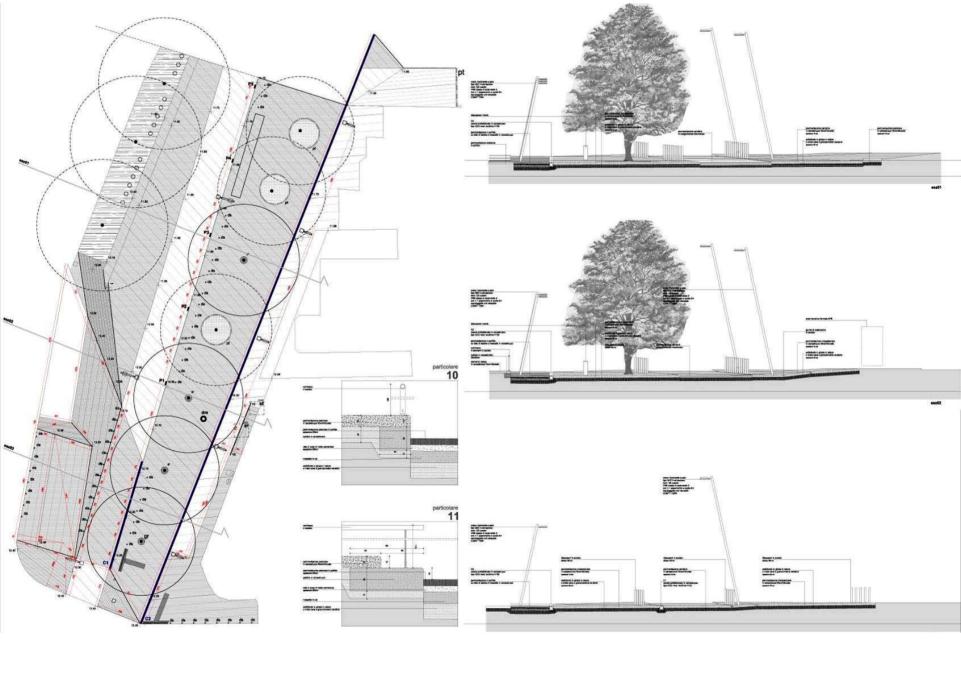


# Stralcio S1

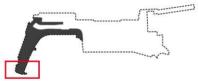










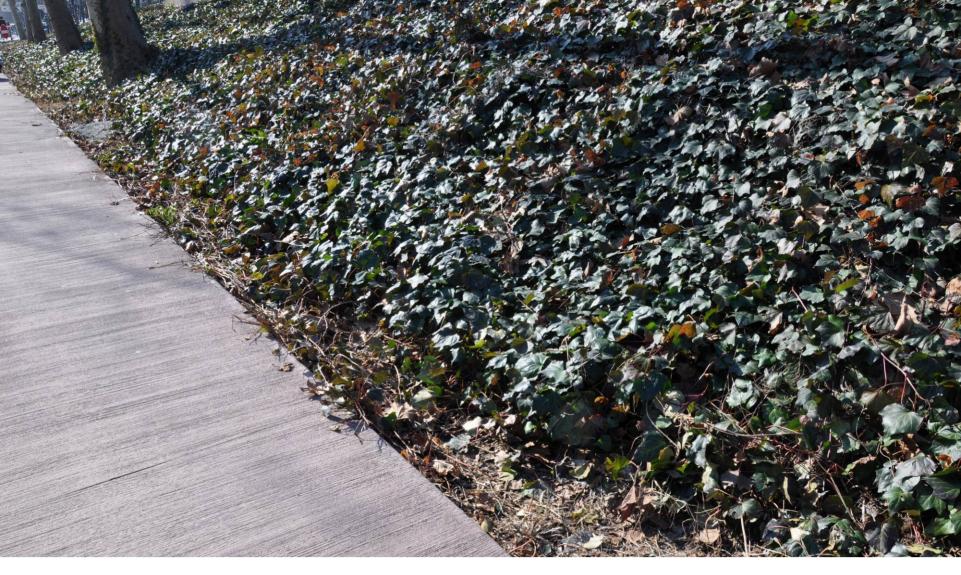








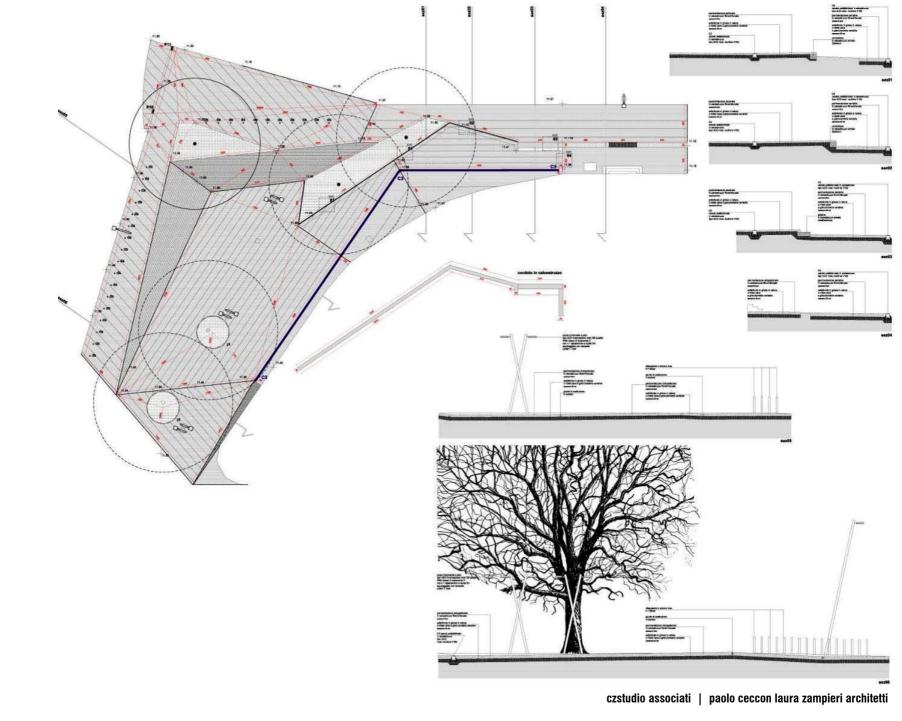




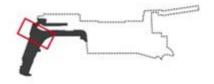


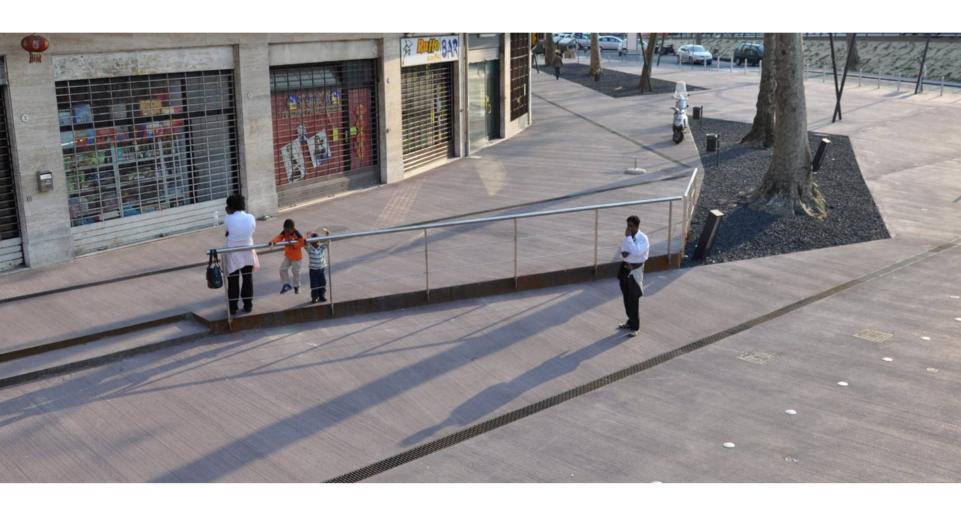
















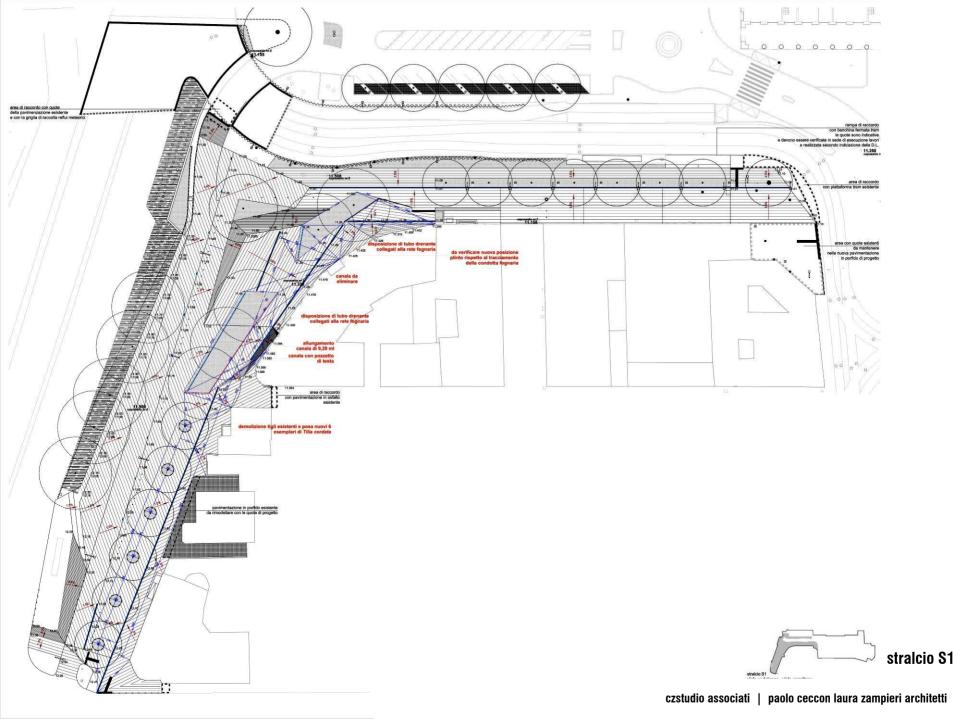








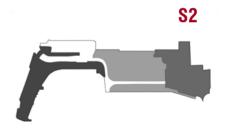






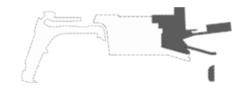






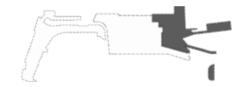




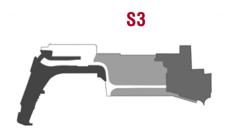


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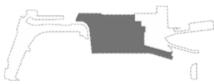




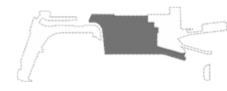
czstudio associati | paolo ceccon laura zampieri architetti



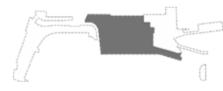


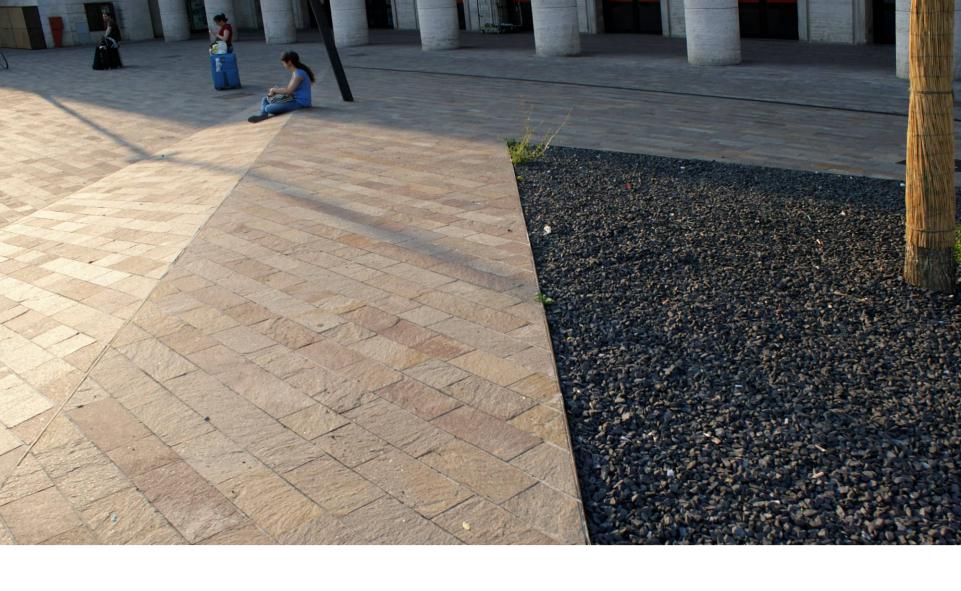


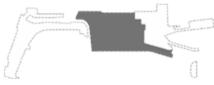




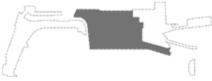




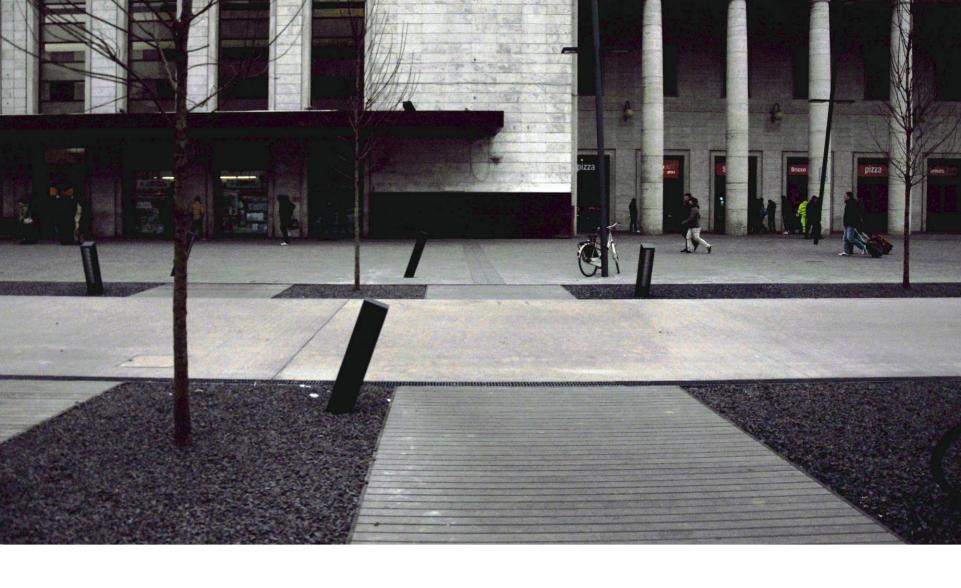


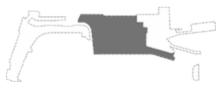


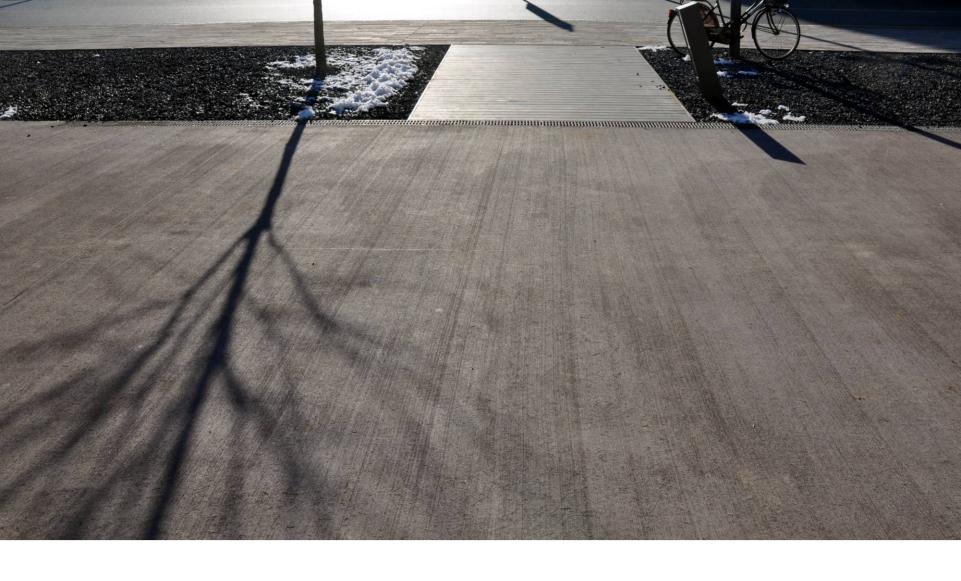


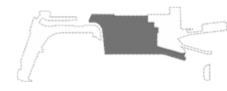




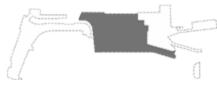




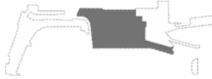




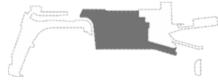


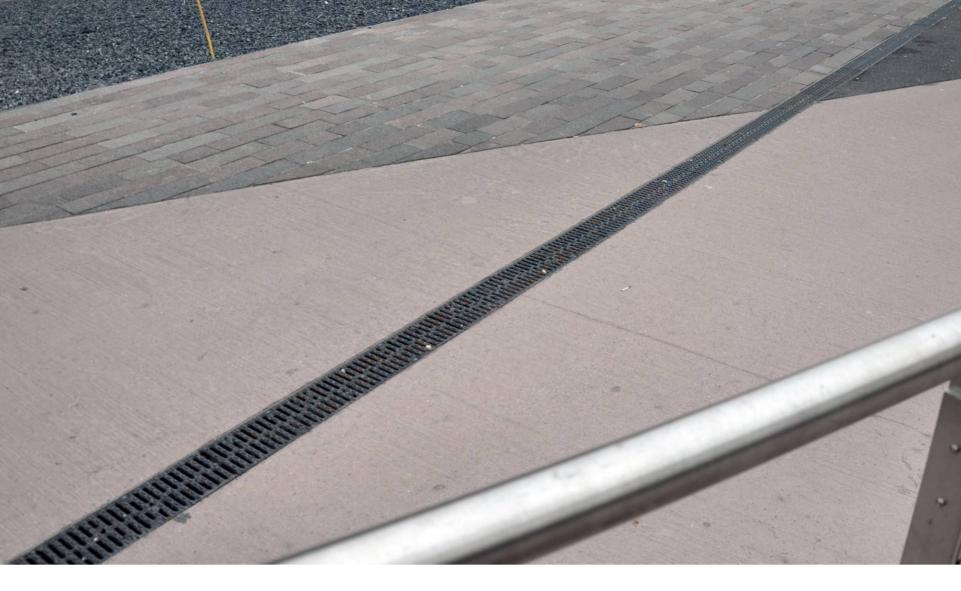


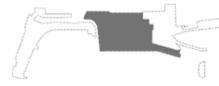


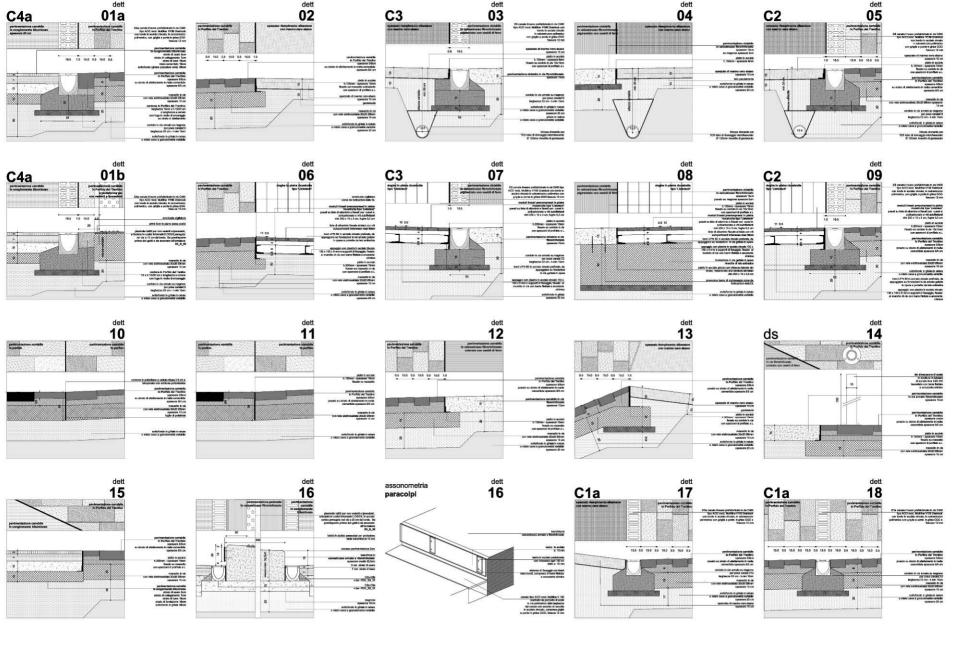




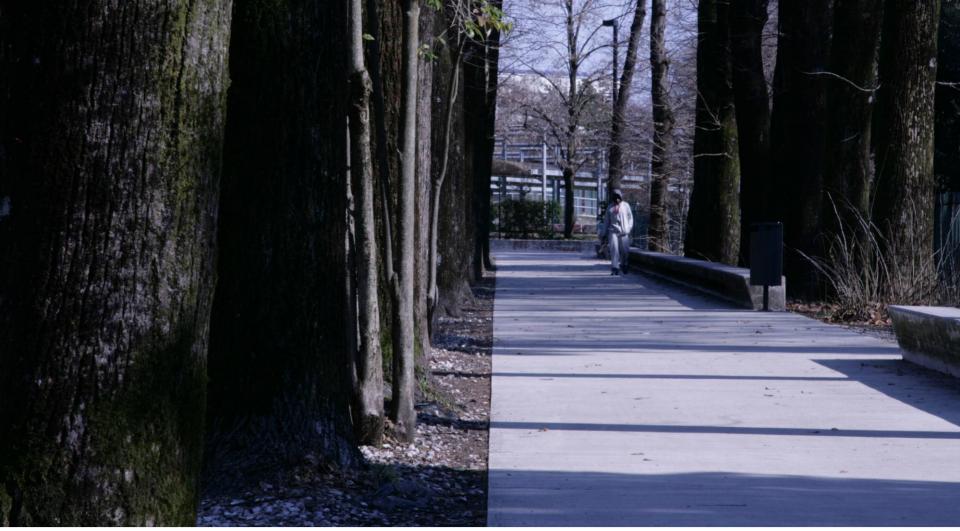












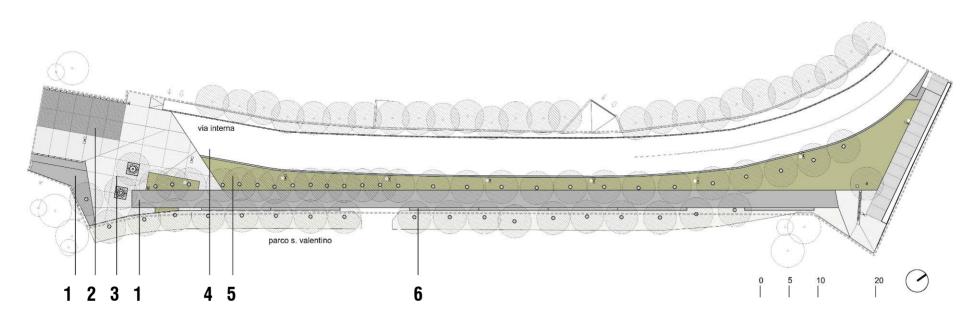
riqualificazione di via interna | pordenone IT | 2004/06



riqualificazione di via interna | pordenone IT | 2004/06

1 Km





## ambito \_ parco pubblico S.Valentino

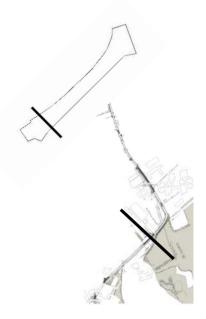
- 1. calcestruzzo bianco
- 2. calcestruzzo nero
- 3. calcestruzzo grigio
- 4. asfalto
- 5. pacciamatura
- 6. panca in calcestruzzo bianco



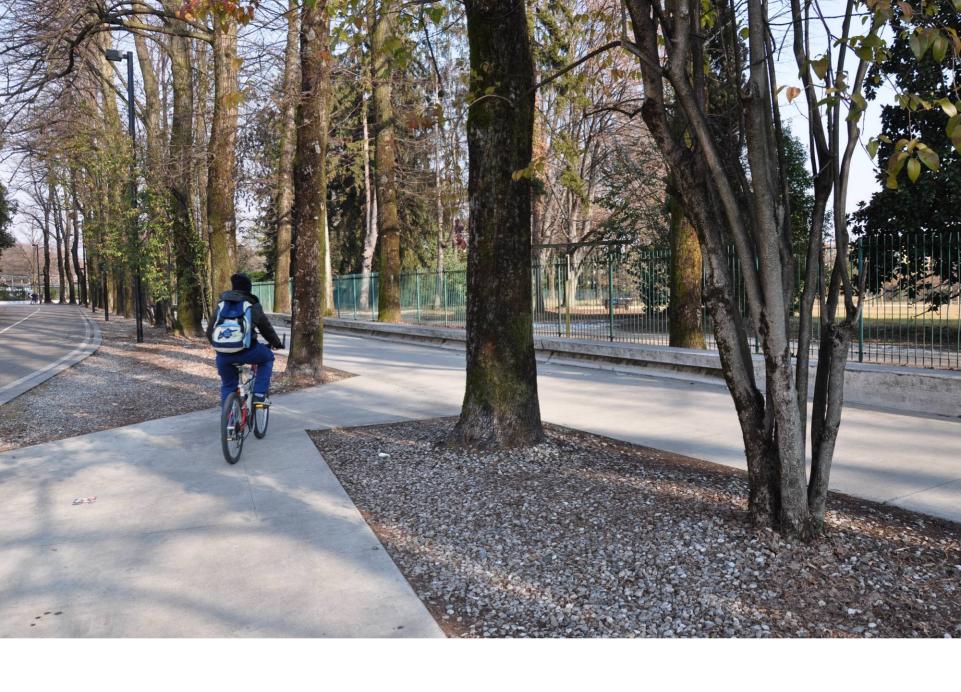


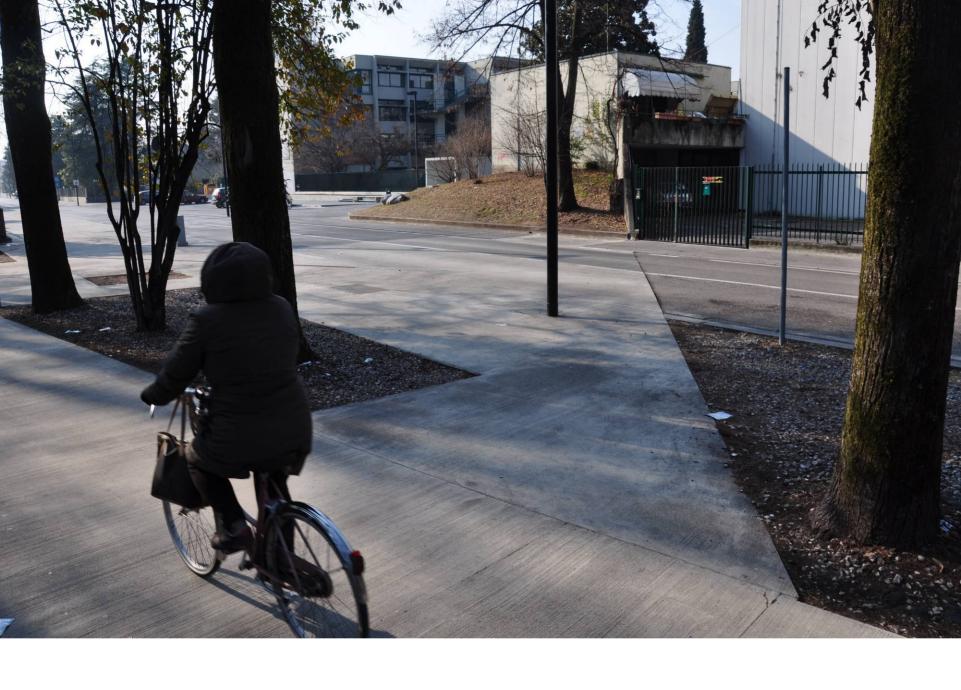


- v.01 superficie erbosa
- v.02 strato drenante
- p.01 sottofondo in ghiaia o misto cava a granulometria variabile spessore minimo 20 cm
- p.02 pavimentazione pedonale in cls fibrorinforzato scopatura antisdrucciolevole
- p.03 pavimentazione carrabile in cls fibrorinforzato scopatura antisdrucciolevole
- s.01 corpo illuminante a mensola sbraccio fissato a parete
- s.02 recinzione esistente
- s.03 panca in calcestruzzo armato
- s.04 canaletto tipo ACO N100 K con caditoia a fessura





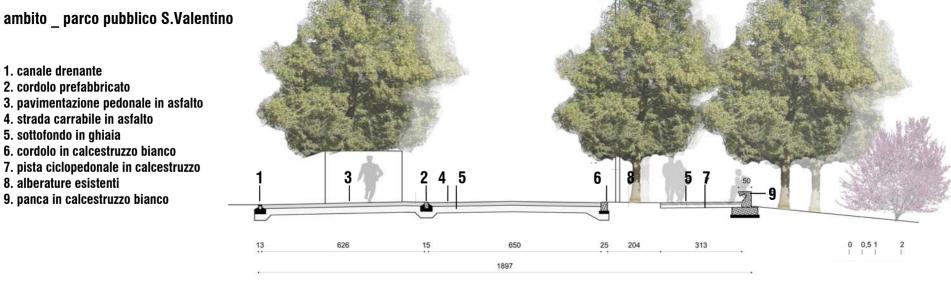




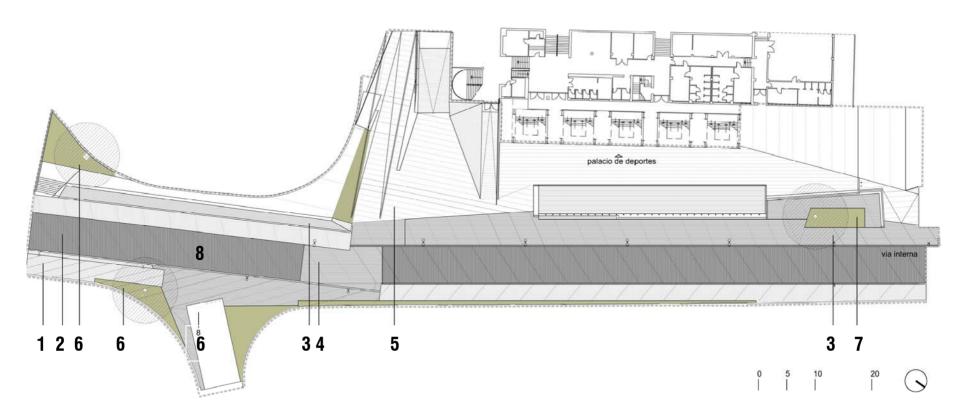




- 2. cordolo prefabbricato
- 3. pavimentazione pedonale in asfalto
- 4. strada carrabile in asfalto
- 5. sottofondo in ghiaia
- 6. cordolo in calcestruzzo bianco
- 7. pista ciclopedonale in calcestruzzo
- 8. alberature esistenti
- 9. panca in calcestruzzo bianco

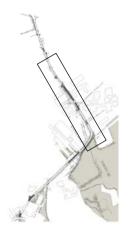


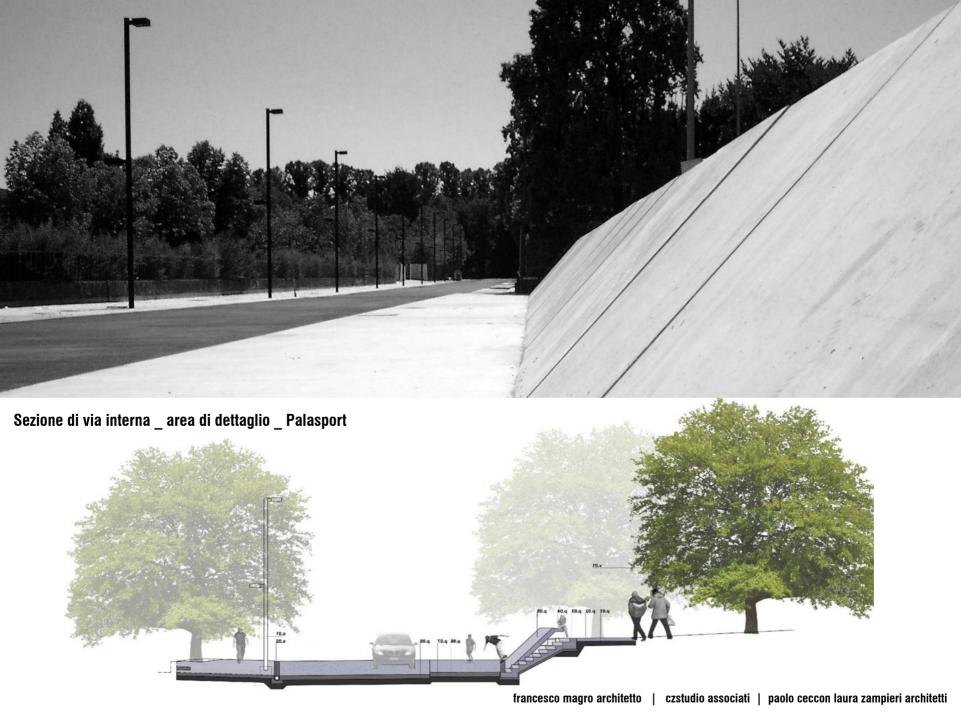




#### area di dettaglio \_ Palasport

- 1. calcestruzzo grigio lavato
- 2. calcestruzzo nero lavato
- 3. muro in calcestruzzo
- 4. calcestruzzo scopato
- 5. calcestruzzo bianco lavato
- 6. quercus rubra
- 7. ghiaia
- 8. asfalto



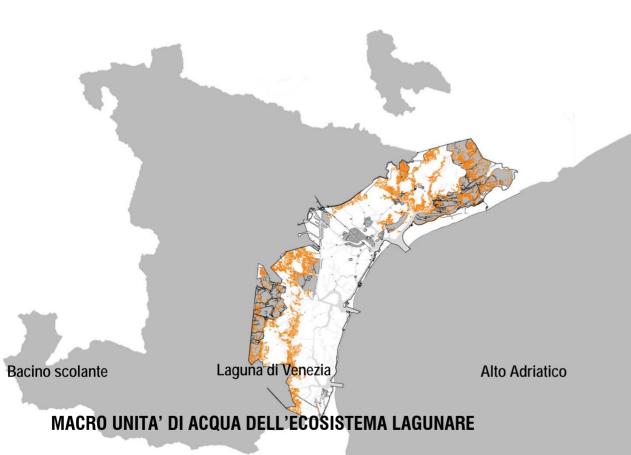


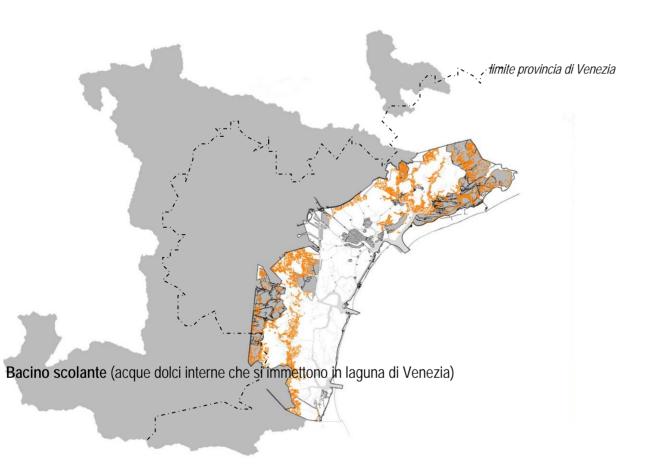












Superficie totale: 1.877 kmg,

abitanti: 1.000.000 (esclusa la popolazione fluttuante)

rete idrica: 2.515 km

Immissione acqua in laguna: 900 milioni di mc/anno

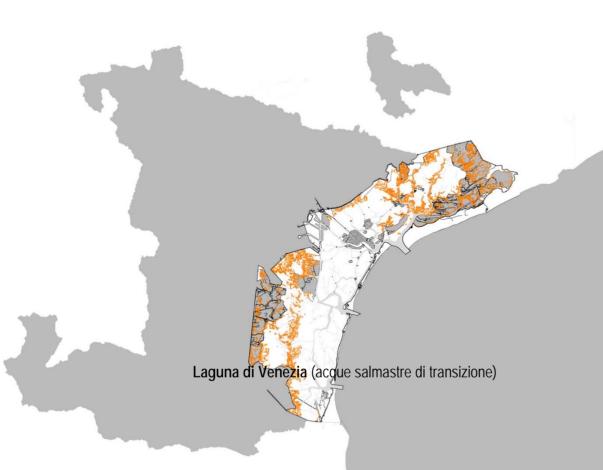
Comuni interessati: 101 appartenenti alle province di Venezia, Padova e Treviso.

Superficie provincia di VE: 190.363 ha gestiti dai Consorzi di Bonifica

deflusso naturale 67.542 ha deflusso alternato 5.501 ha

deflusso idrico meccanico 117.399 (pari al 61,68 % dell'intera superficie dei Consorzi, che gestiscono una superficie di suolo

agricolo posto al di sotto del livello medio marino per 90.669 ha)



Superficie totale:

Lunghezza:

Larghezza:

Superficie specchi d'acqua e barene

Superficie valli da pesca

Superficie terre emerse

Isole

550 kmq (circa)

50 km (circa)

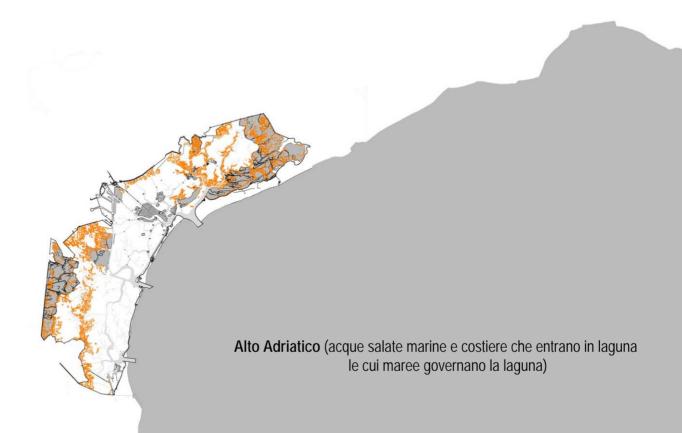
11 km (circa)

418 kmq

92 kmq

40 kmq (litorali, casse di colmata, isole)

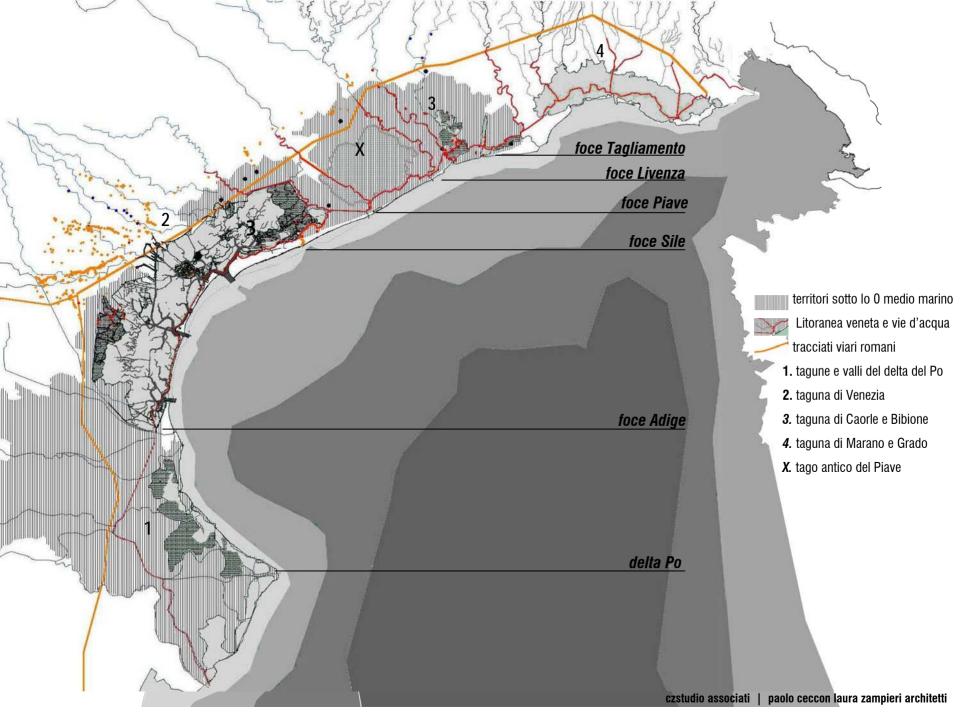
117

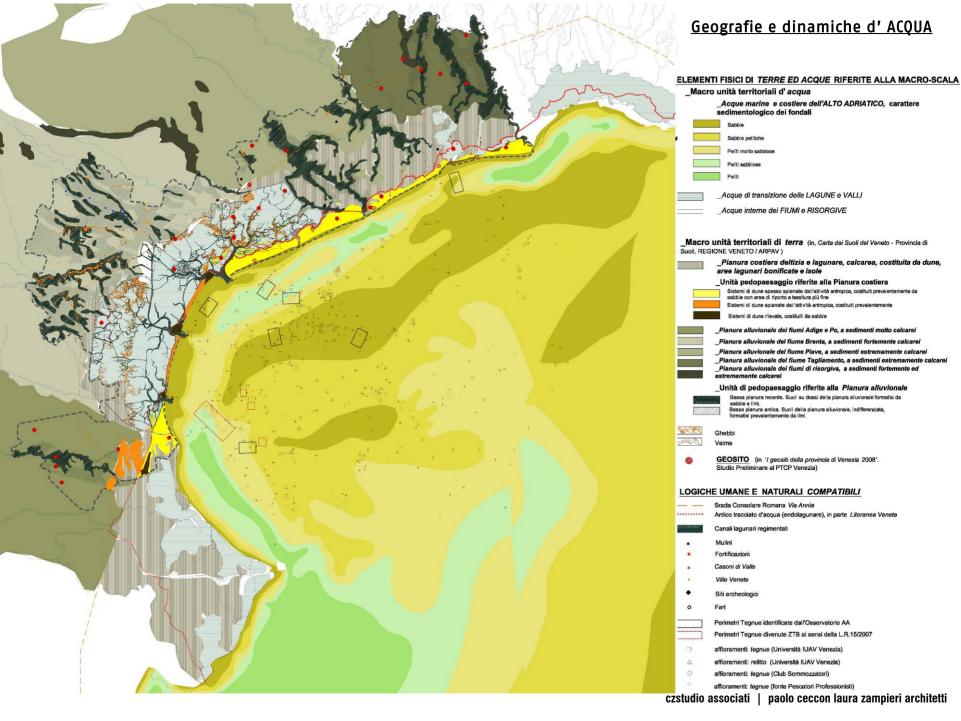


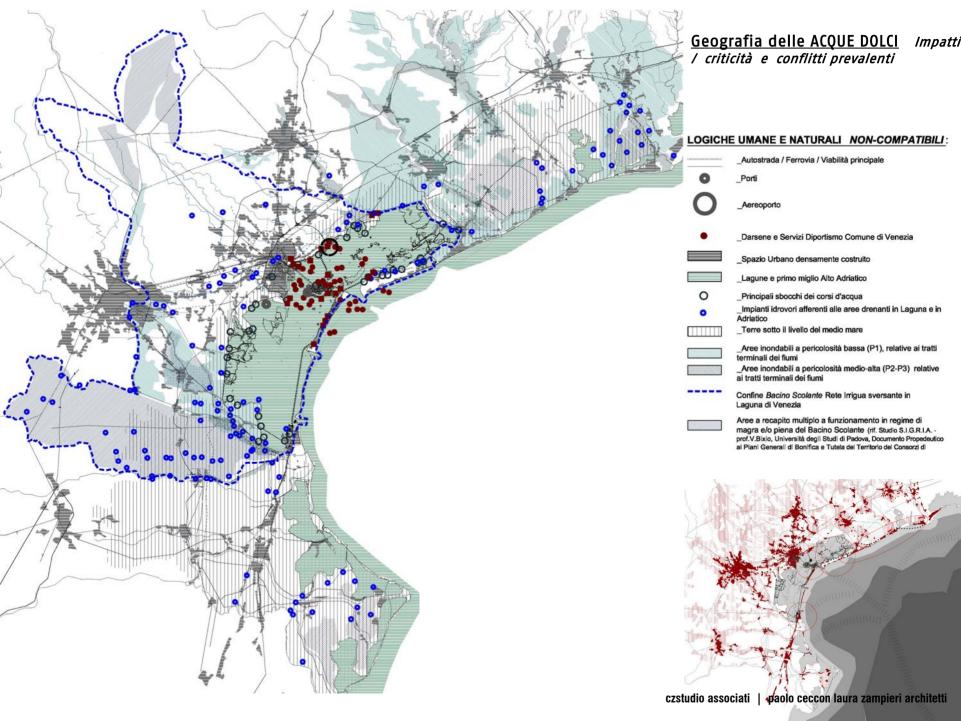
Volume medio giornaliero di acqua salata che entra in laguna

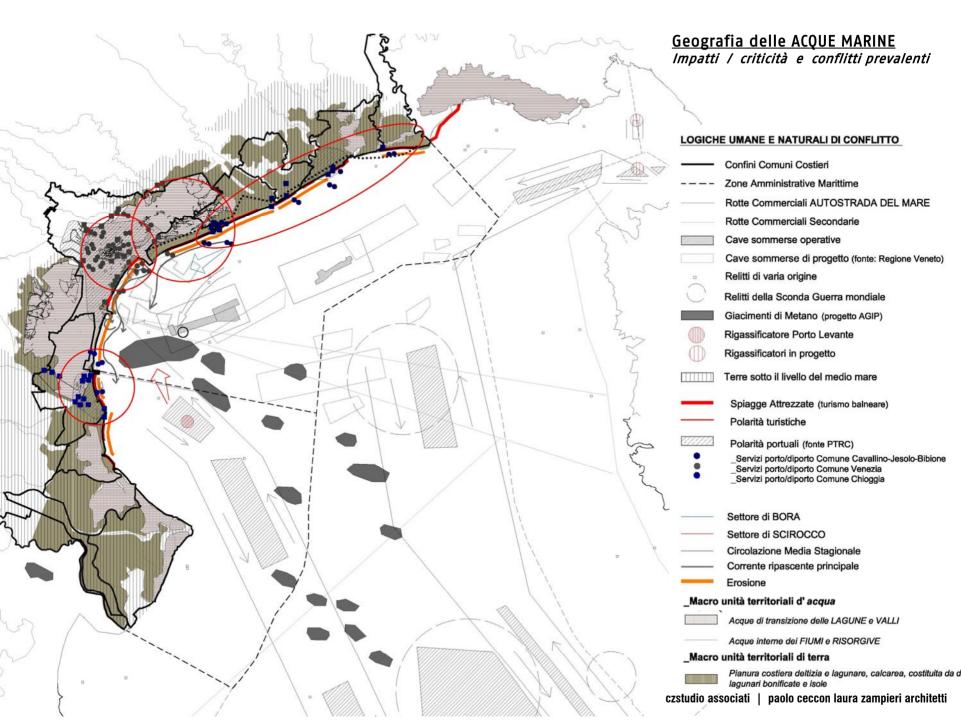
400 milioni di mc (circa)

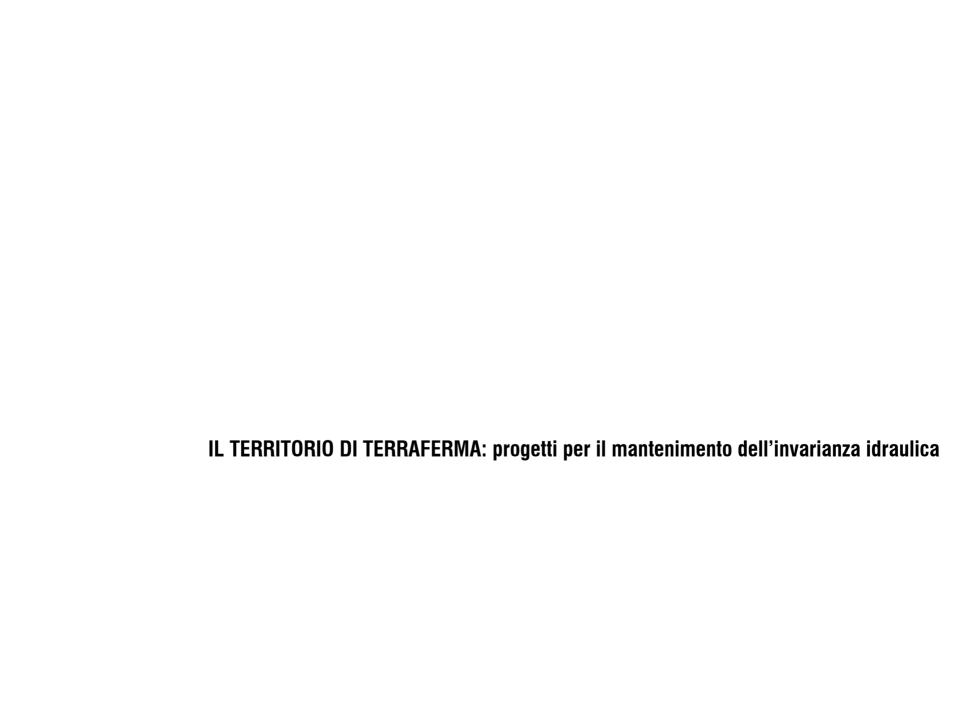
Il funzionamento idraulico del bacino afferente alla Laguna di Venezia risulta pertanto fortemente condizionato dall'andamento delle maree e delle mareggiate nell'Adriatico settentrionale, che possono sostenere i livelli idrometrici alla foce dei corsi d'acqua in Laguna di Venezia. Le portate di piena fluviale più gravose, soprattutto se associate a condizioni di marea eccezionale, danno luogo ad esondazioni, nella parte alta dei bacini di bonifica, essenzialmente dai canali costituenti la rete idrica minore, ad allagamenti diffusi e generalizzati nella parte meridionale dei bacini, per insufficienza delle reti di bonifica, e nelle zone più vicine alla laguna per rigurgito provocato dall'alta marea













parco pubblico di catene | venezia | 2004/2011



parco pubblico di catene | venezia | 2004/2011

area agricola esistente

# sistema idraulico esistente





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## prati ed aree umide esistenti





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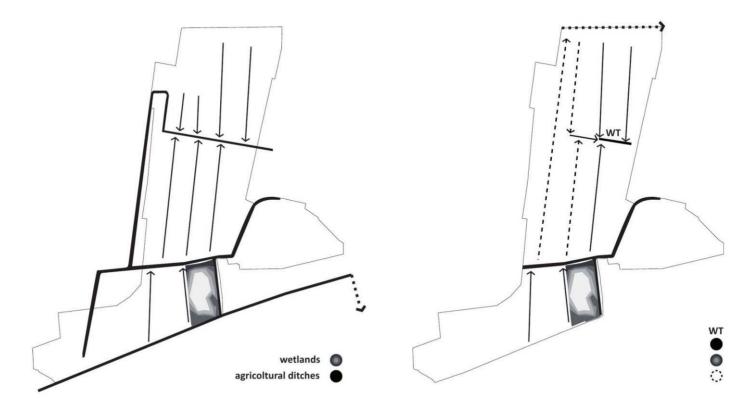
## terre di scavo





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## sistema idraulico preesistente e di progetto







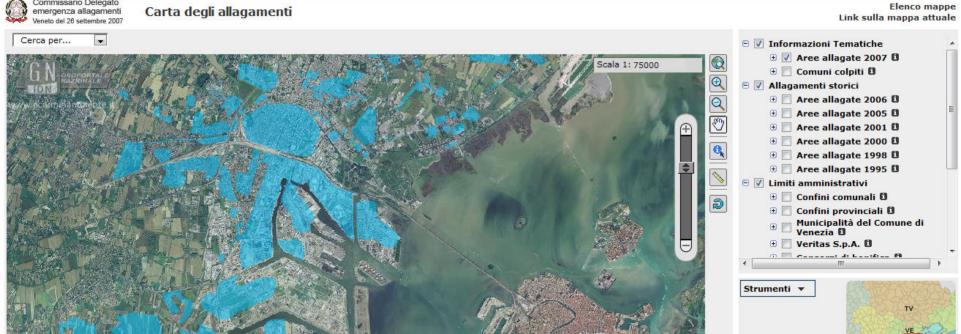








Dimensionamento volum	ne di lam	ninazione												
sup fondiaria		mq		80.000,00		inseri	ire l	a superficie fo	ndi	aria del lotto				
sup impermeabile esistente	Imp°	mq		0,00		quota	apar	rte di superfici	e in	npermeabile	es	istente		
sup impermeabile progetto	Imp	mq		8.000,00		incre	me	nto della quoi	tapa	arte imperme	eab	ile a seguito dell'int	erve	ento
sommand	0	mq		8.000,00										
sup permeabile esistente	Per°	mq		80.000,00		stabil	lire	la quotaparte	di s	uperficie pe	rme	abile esistente		
sup permeabile progetto	Per	mq		72.000,00		stabil	lire	la quotaparte	di s	uperficie pe	rme	abile restante		
	((lm	o°+lmp)+Per)/sup.	= '	100%		DEV	ES	EMPRE RISU	JLT	ARE 100%				
sup. trasformata/livellata	1	mq		75.000,00		Sup.	imp	ermeabile più	sup	o. permeabi	le tr	asformata rispetto	all'a	gricola.
sup. agricola inalterata	P	mq		5.000,00		La su	ıper	ficie di riferim	ento	o è quella ina	alter	rata		
		coeff. deflusso dopo trasformazione		Sie/Sf				Sf/Sip						
calcolo del ø°	=	0,9	х	0,0000	+	0,2	х		=	0,2000				
calcolo del ø	=	0,9	х	0,1000	+	0,2	х	0,9000	=	0,2700				
				Sip/Sf				Sf/Spp						
w	=	50	x	1,7809	-	15	х	0,9375	-	50	х	0,0625	=	71,86
								71,86	:	10.000	х	80.000,00	=	mc/ha 574,86
								,••	·		-	22.223,00		mc



1.25

X: 1754380 Y: 5039624

2.50

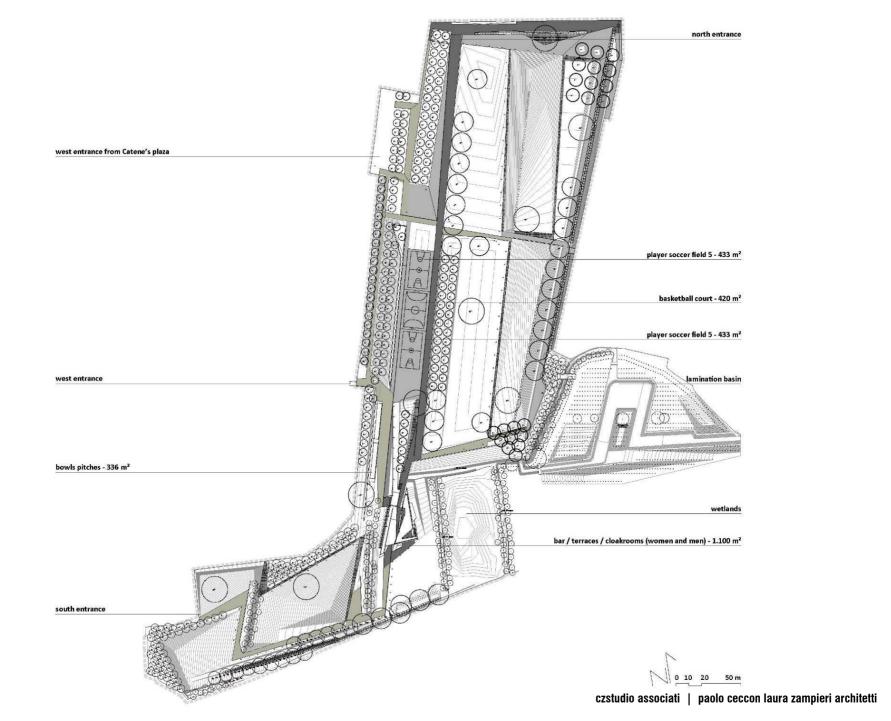
## 2007





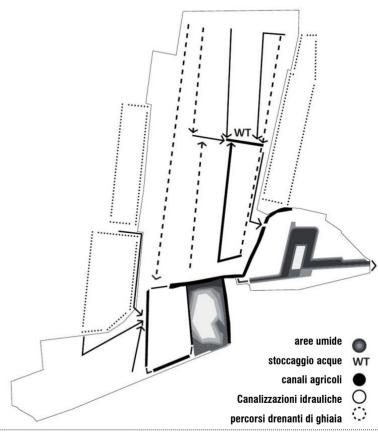
Dimensionamento volum	e di lan	ninazione									_			
sup fondiaria		mq		120.000,00		inser	ire la	a superficie fo	ndia	aria del lotto				
sup impermeabile esistente	Imp°	mq				quota	apan	te di superfici	e im	npermeabile	esis	tente		
sup impermeabile progetto	Imp	mq		38.000,00		incre	me	nto della quot	apa	rte imperme	abile	e a seguito dell'int	erve	ento
sommand	_	mq		38.000,00					Ì		4			
sup permeabile esistente	Per°	mq		120.000,00		stabi	lire l	a quotaparte	di sı	uperficie per	mea	bile esistente		
sup permeabile progetto	Per	mq		82.000,00		stabi	lire l	a quotaparte	di sı	uperficie per	mea	bile restante		
	((lm;	o°+lmp)+Per)/sup.	=	100%		DEV	E SI	EMPRE RISU	JLT	ARE 100%				
sup. trasformata/livellata	ı	mq		115.000,00		Sup.	imp	ermeabile più	sup	o. permeabil	e tras	sformata rispetto	all'a	gricola.
sup. agricola inalterata	Р	mq		5.000,00		Lası	pert	ficie di riferim	ento	è quella ina	ltera	ta		
		coeff. deflusso dopo trasformazione		Sie/Sf				Sf/Sip						
calcolo del ø°	=	0,9	х	0,0000	+	0,2	х	1,0000	=	0,2000				
calcolo del ø	=	0,9	х	0,3167	+	0,2	х	0,6833	=	0,4217				
				Sip/Sf				Sf/Spp			-			
w	=	50	х	4,1972	-	15	x	0,9583	-	50	x	0,0417	=	193,40
							Ц,	100.10		40.000		100 000 00	_,	mc/ha
								193,40	:	10.000	Х	120.000,00	=	2.320,82 mc





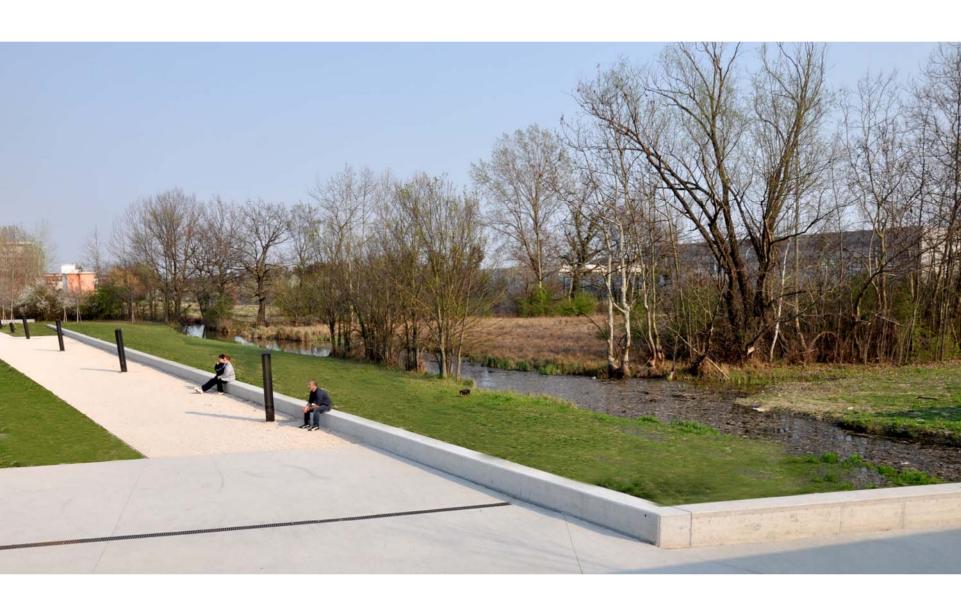






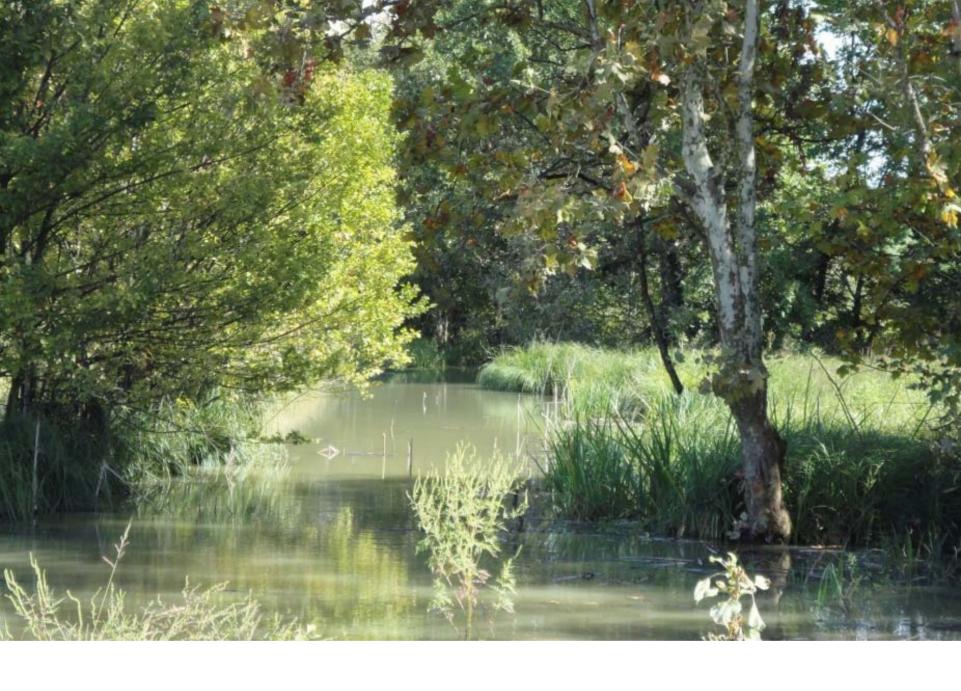
gestione dell'acqua dal 2007

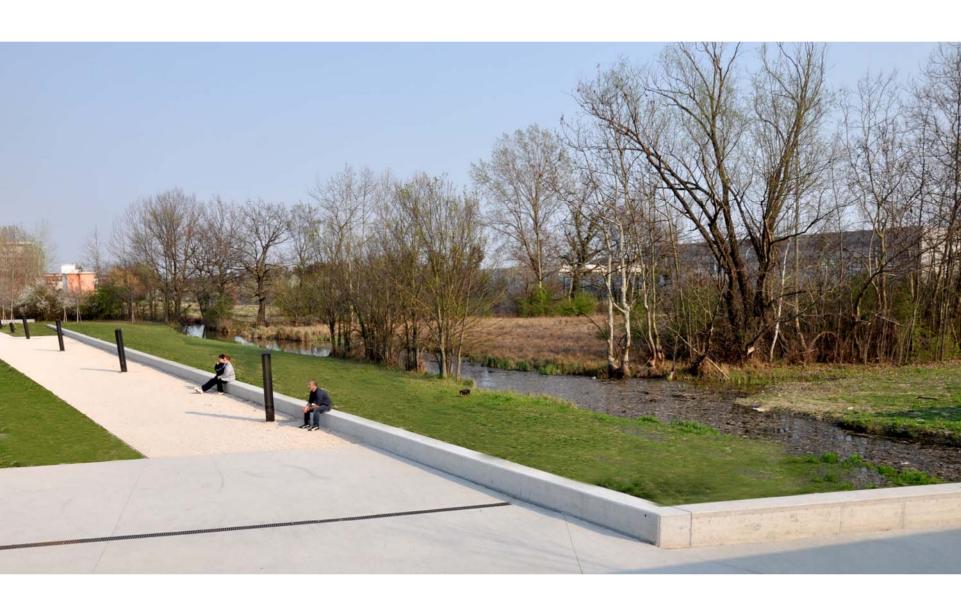
























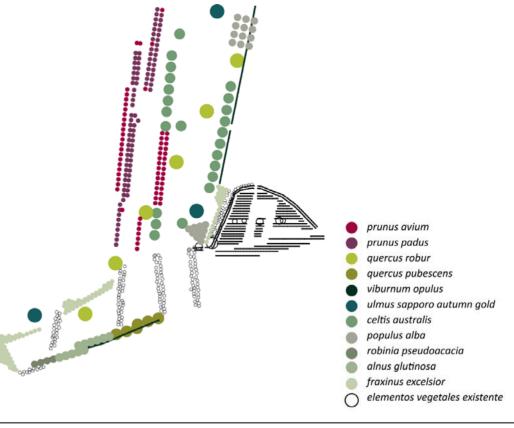






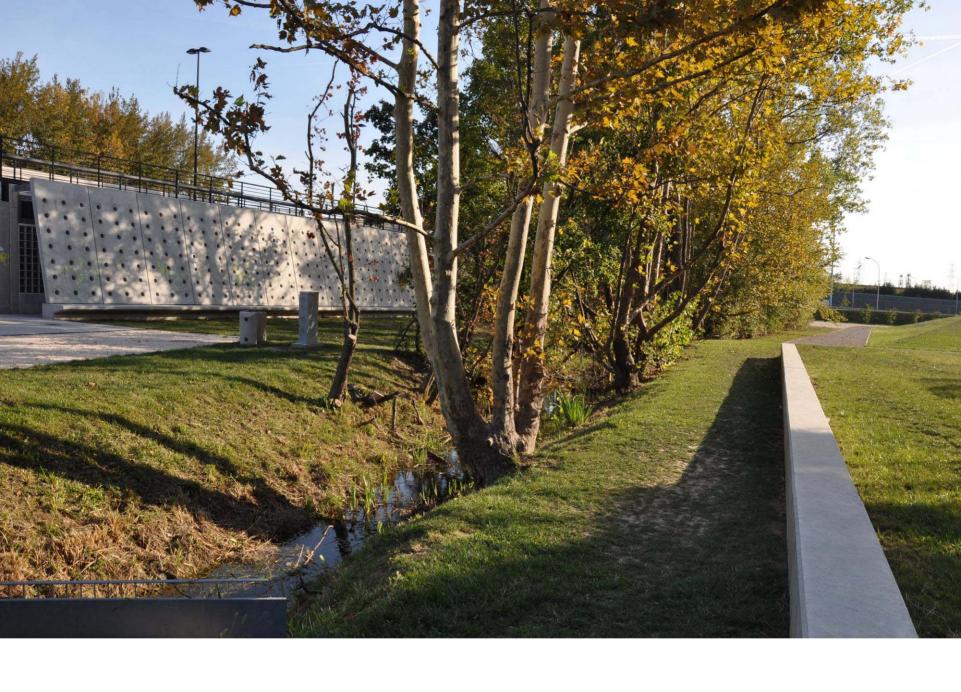






## alberature

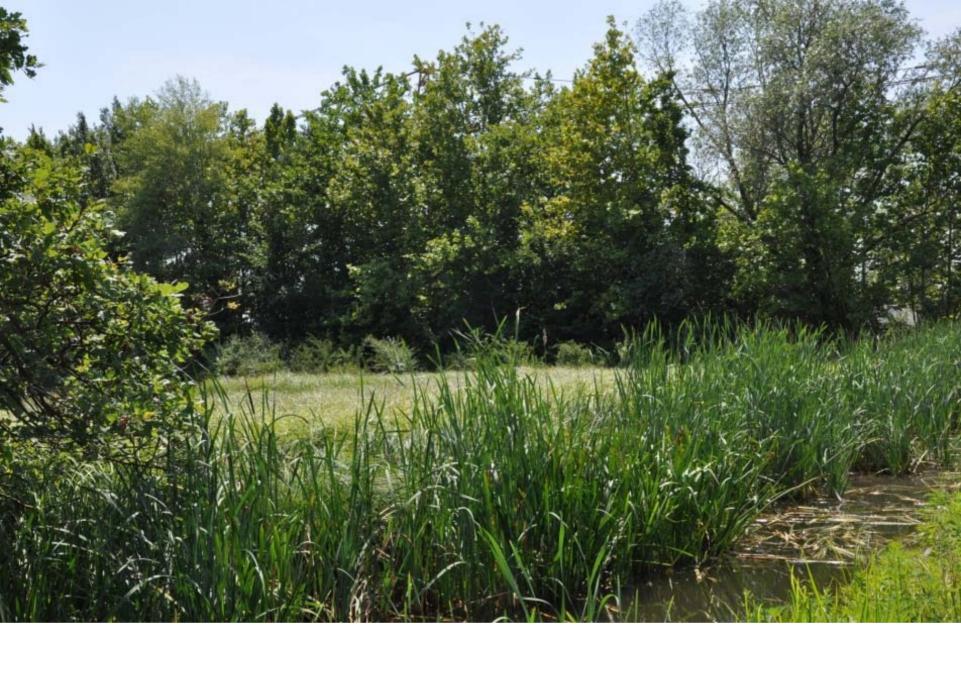






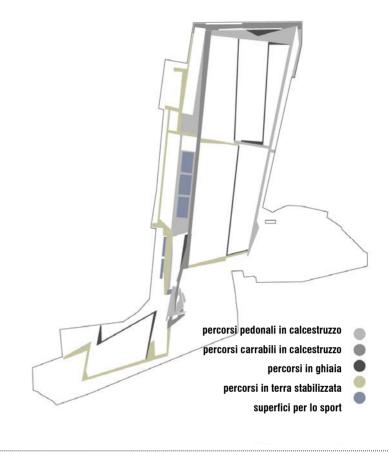


prati stabili e aree umide



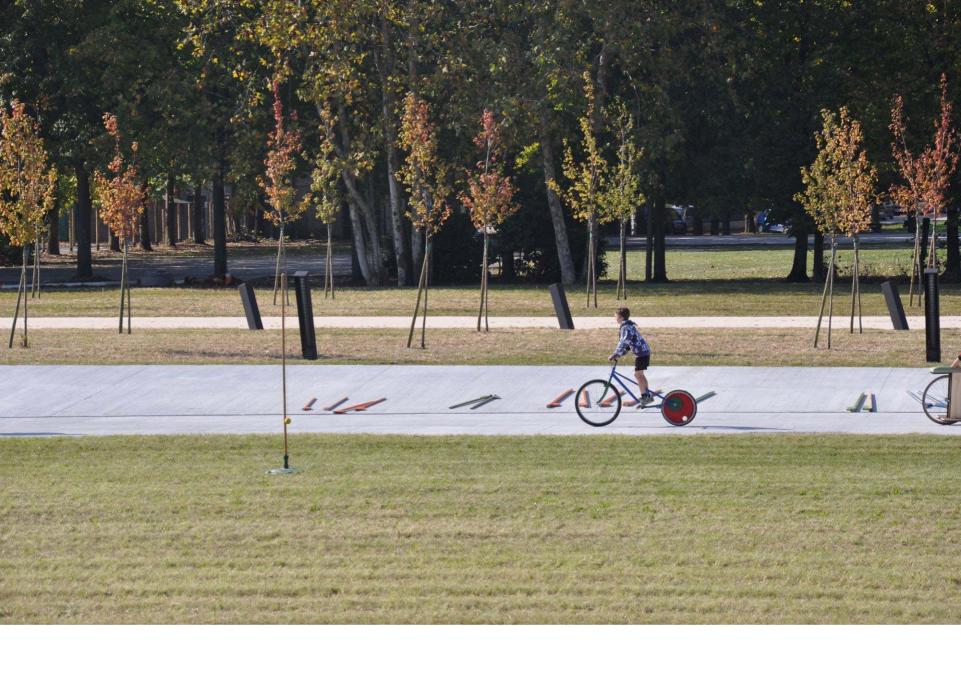


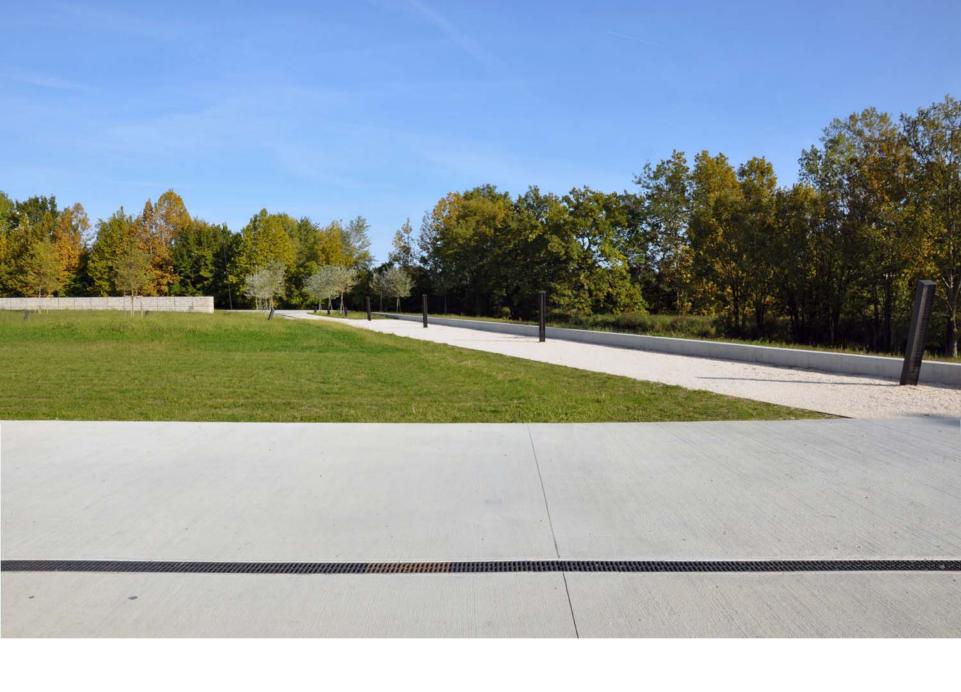




## percorsi e superfici







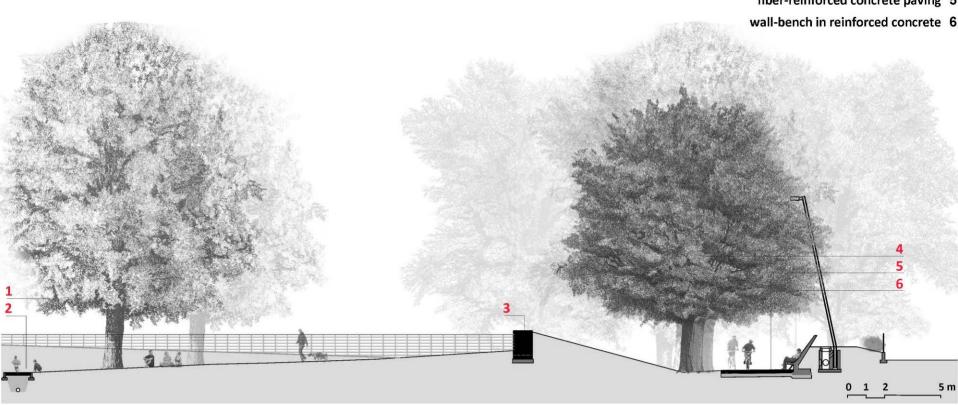


gravel path 2

gabion wall filled with limestone 3

Celtis australis 4

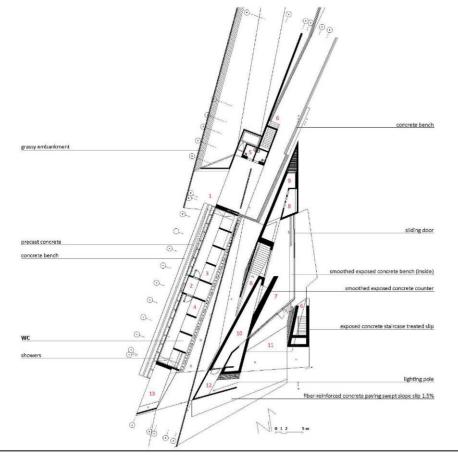
fiber-reinforced concrete paving 5











servizi sportivi e bar



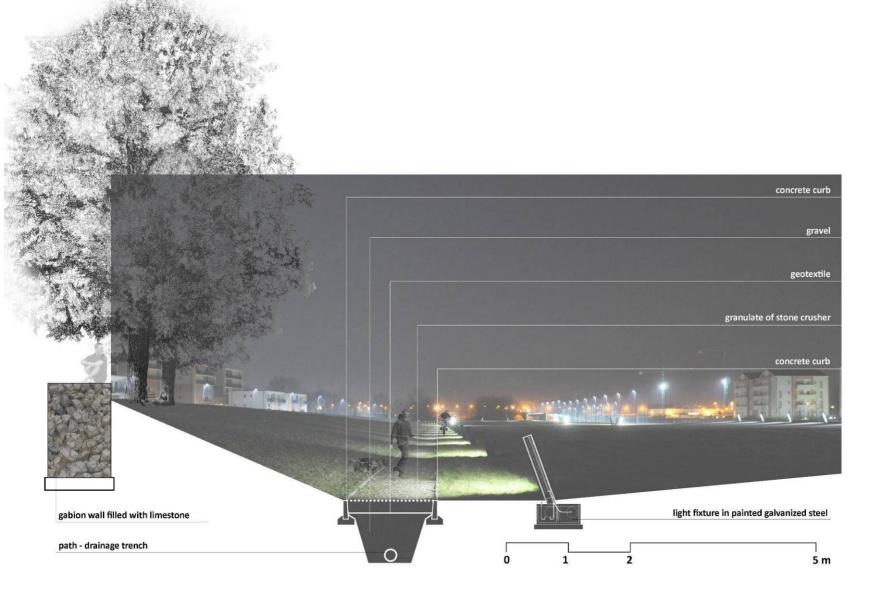














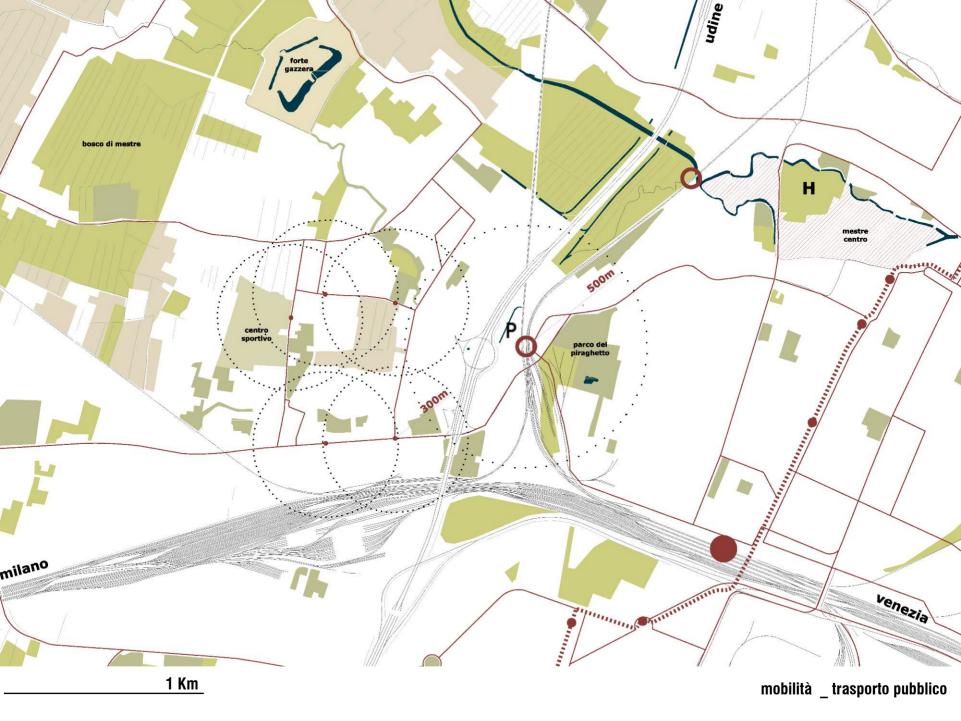


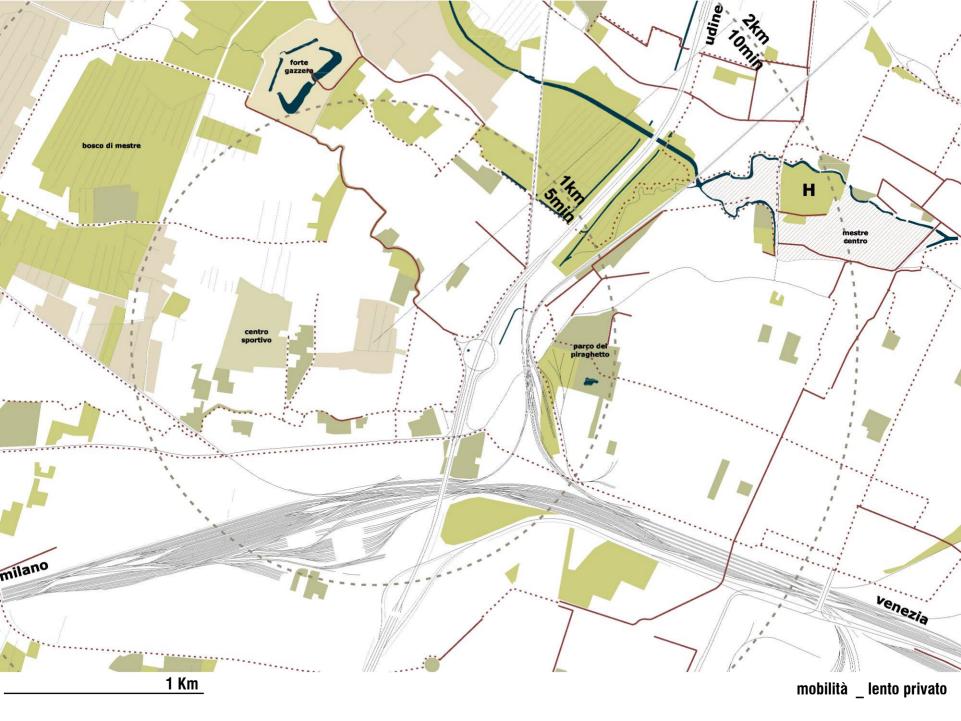
parco urbano di via mattuglie | venezia | 2011/2012

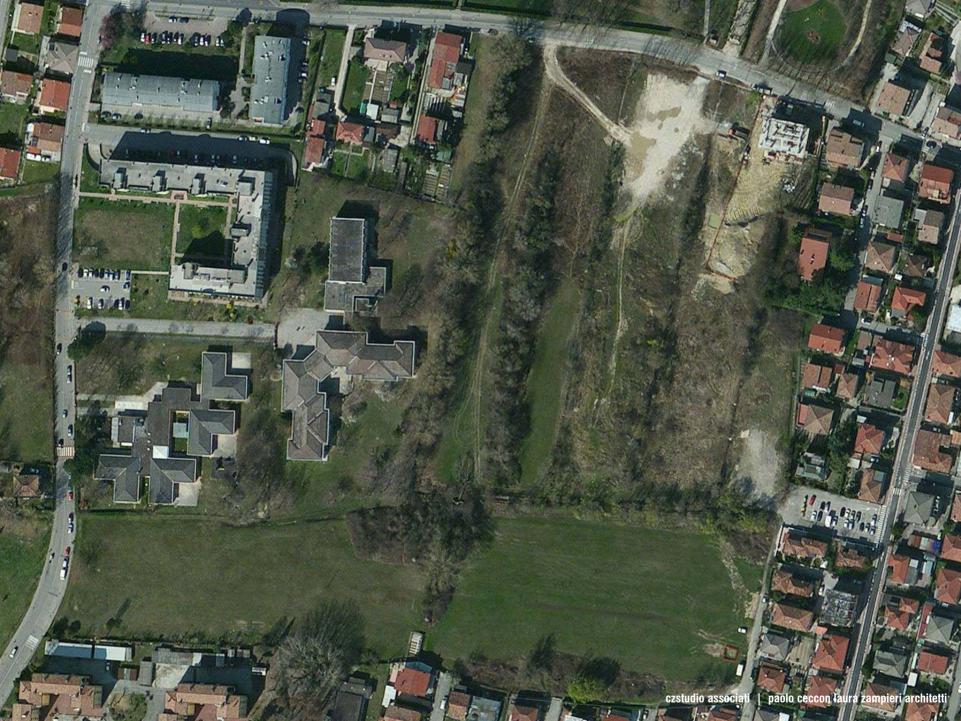


parco urbano di via mattuglie | venezia | 2011/2012







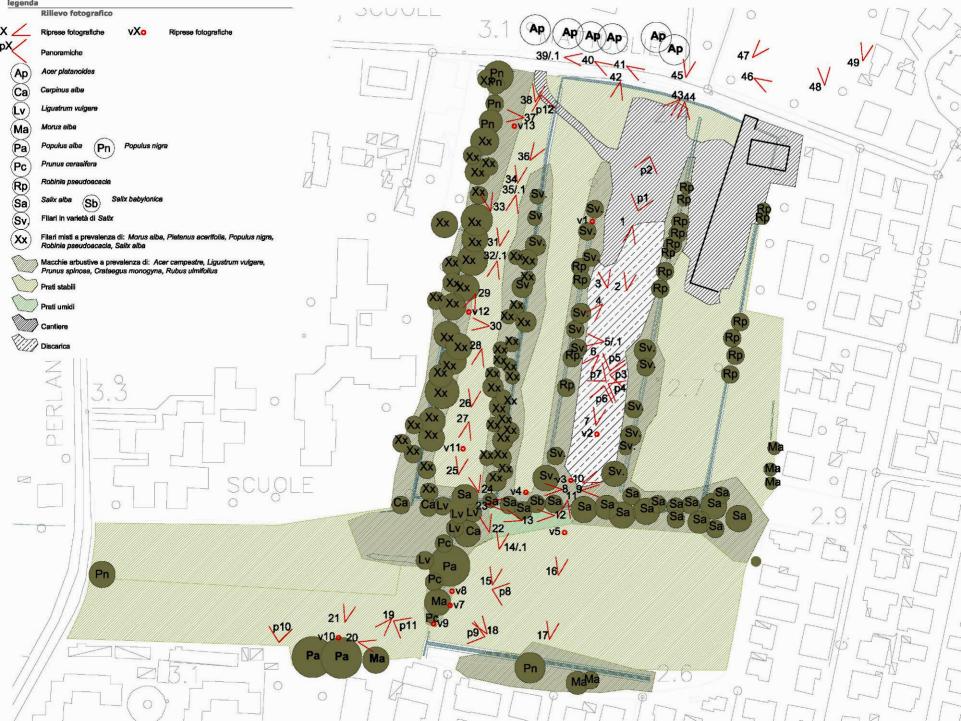


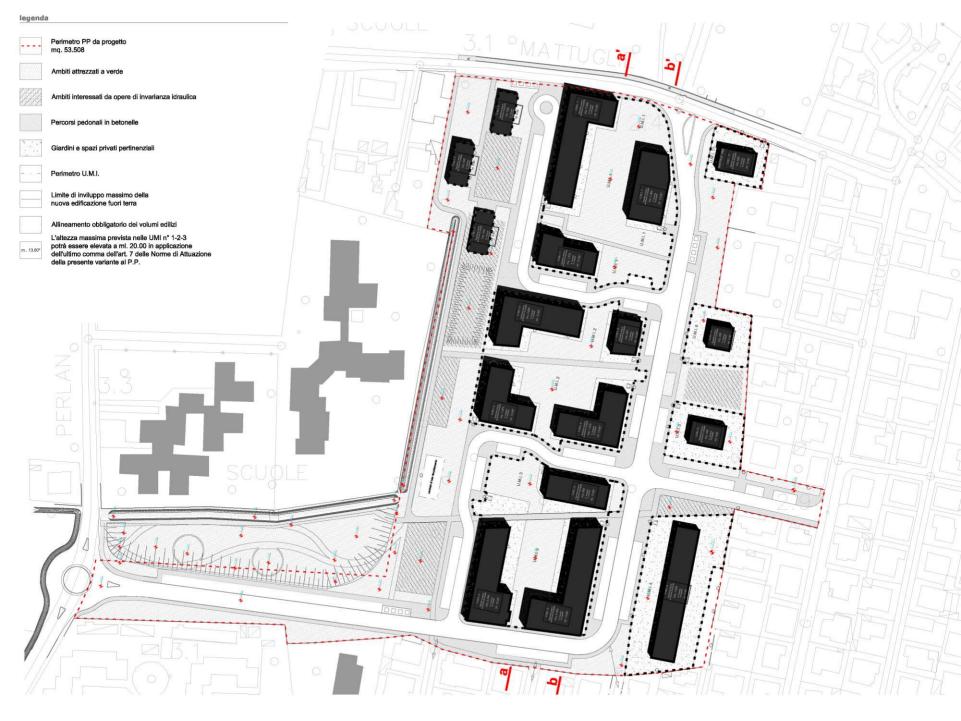


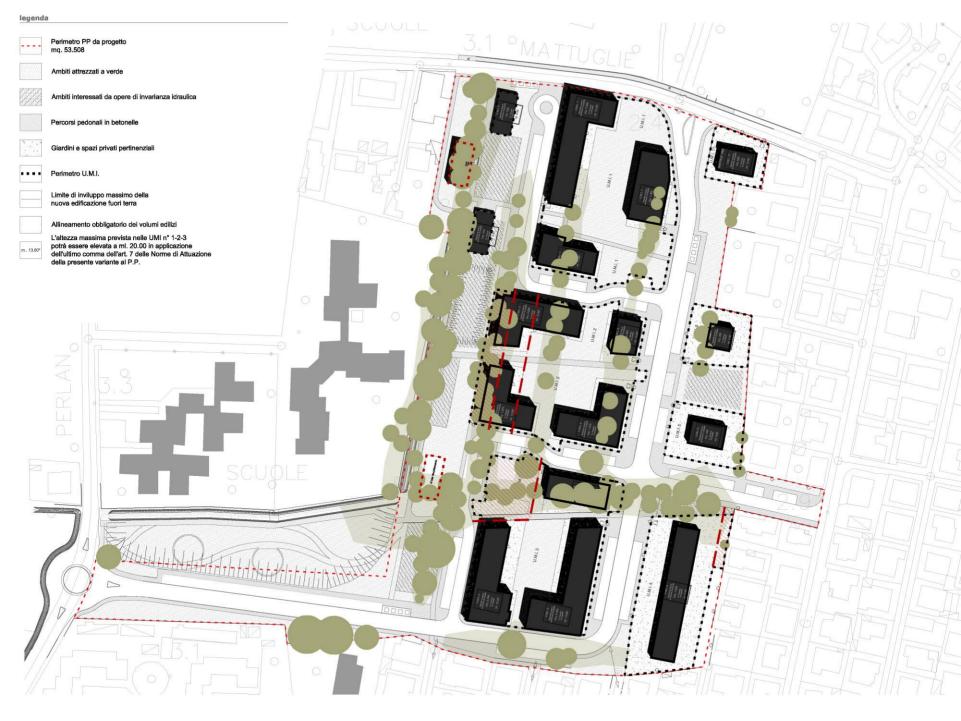


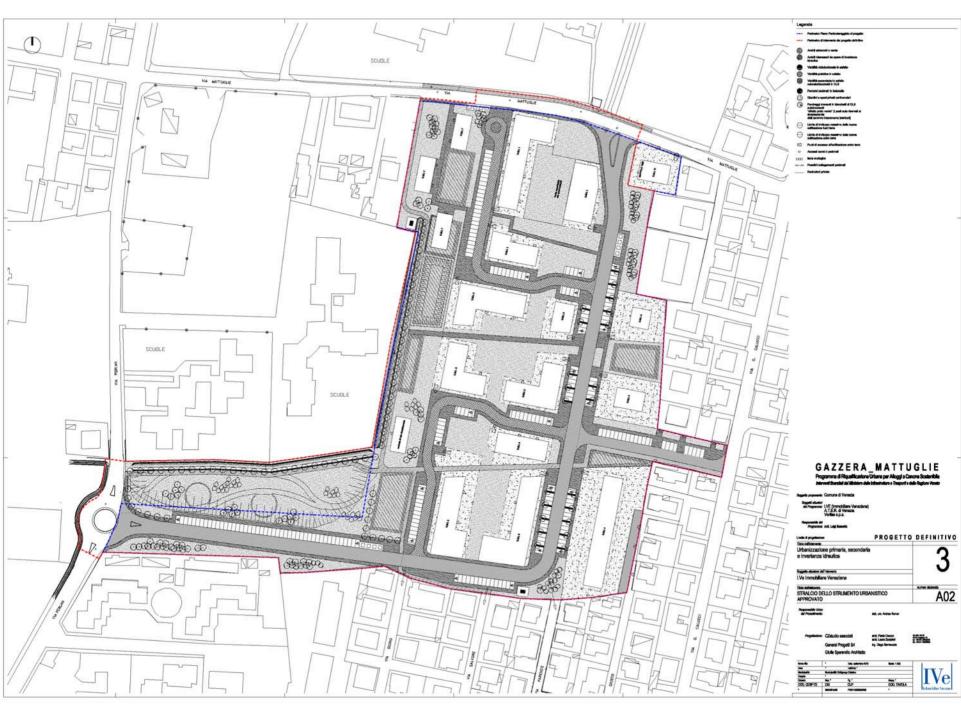


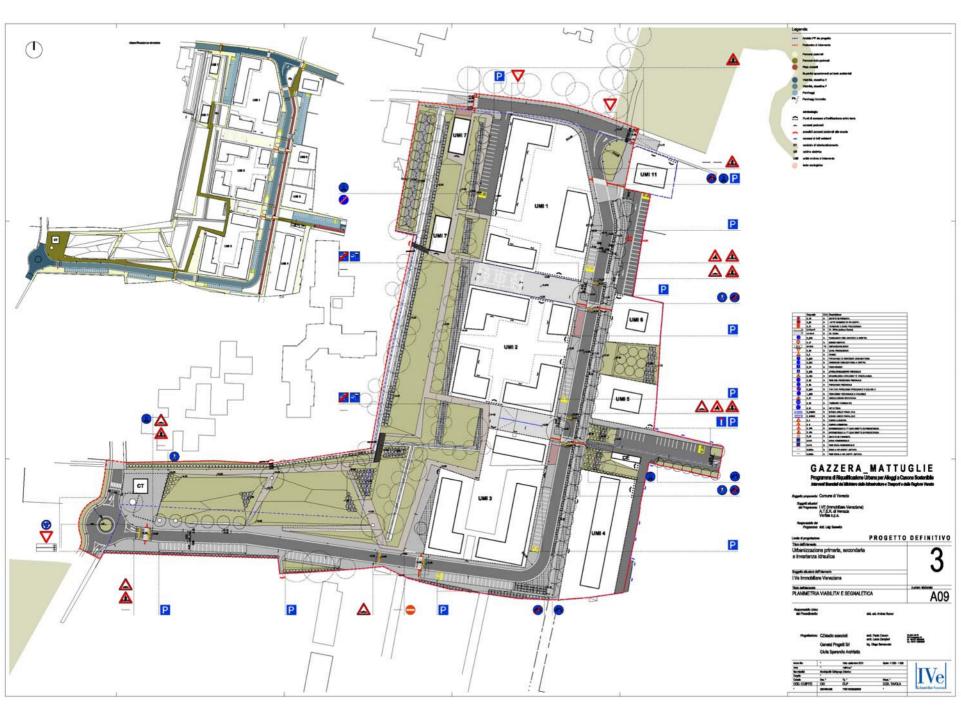


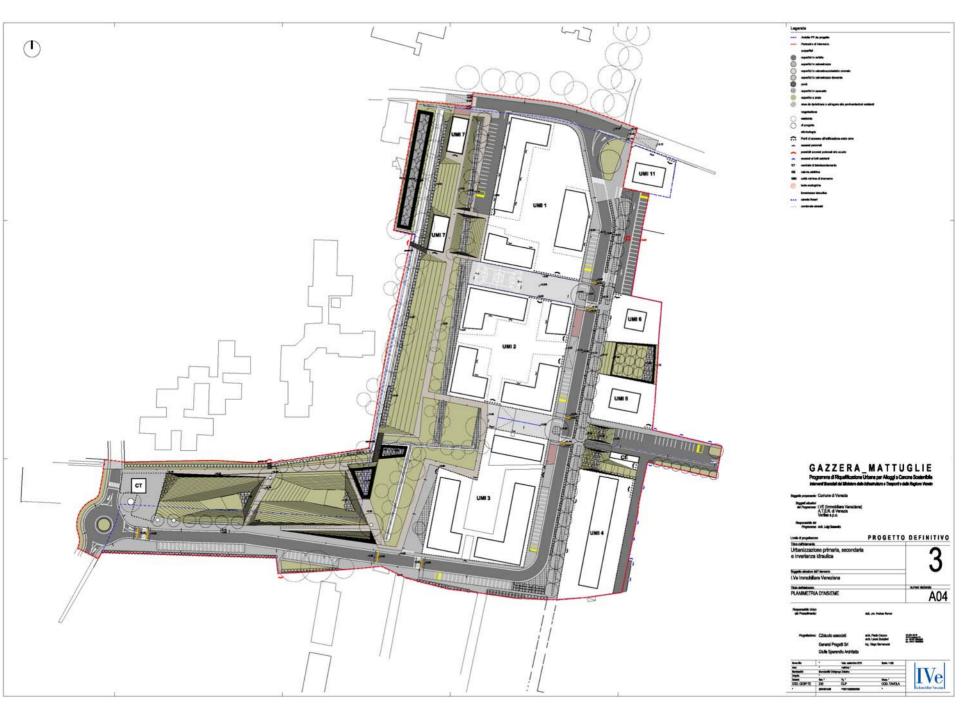


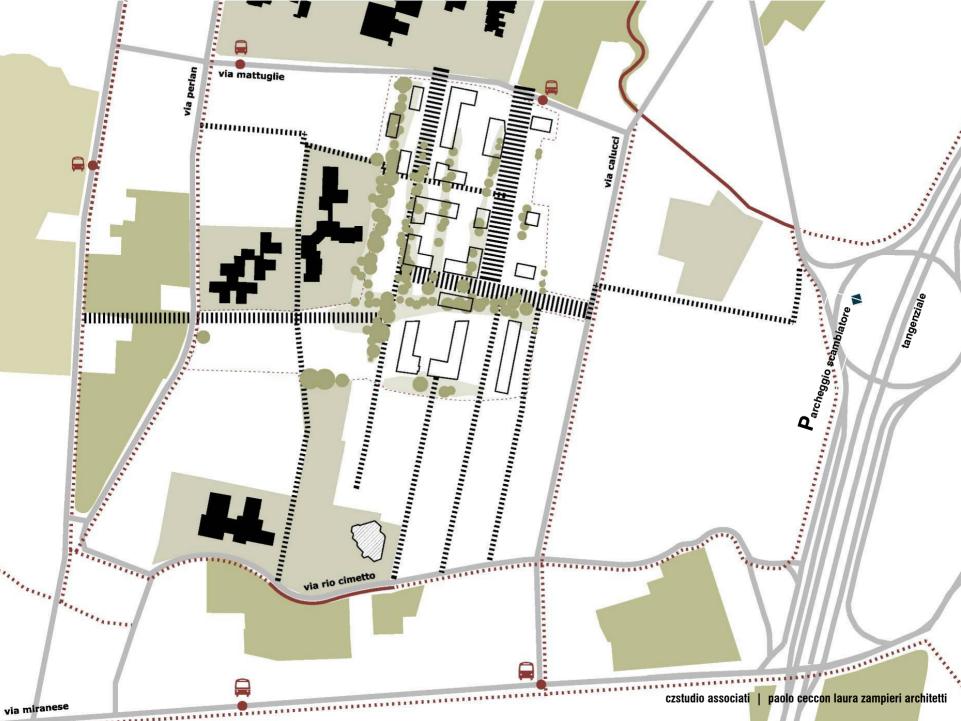


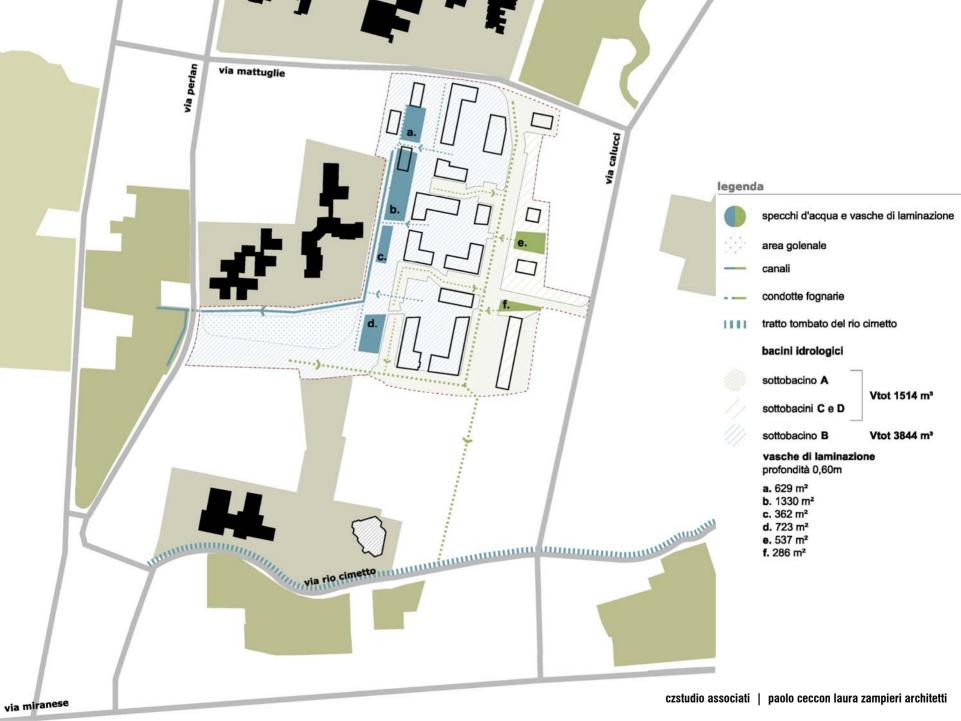


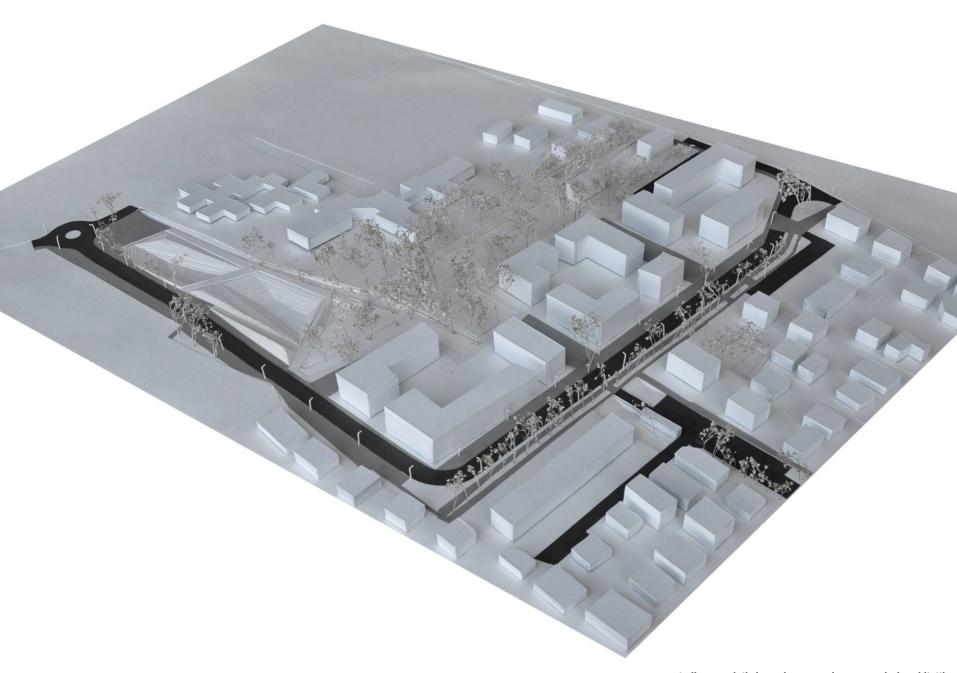








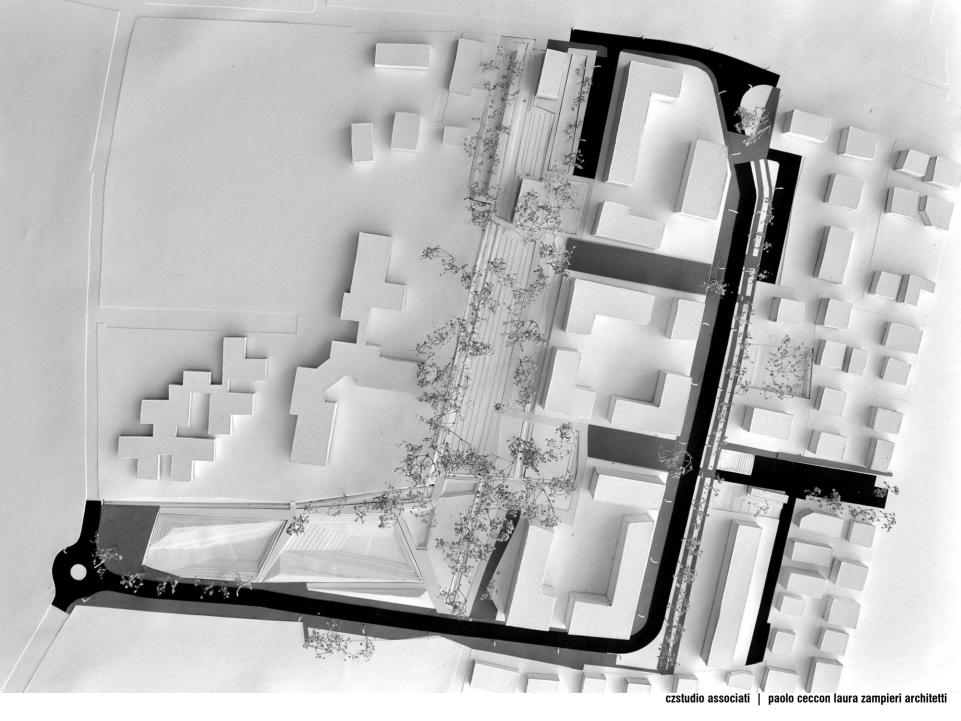


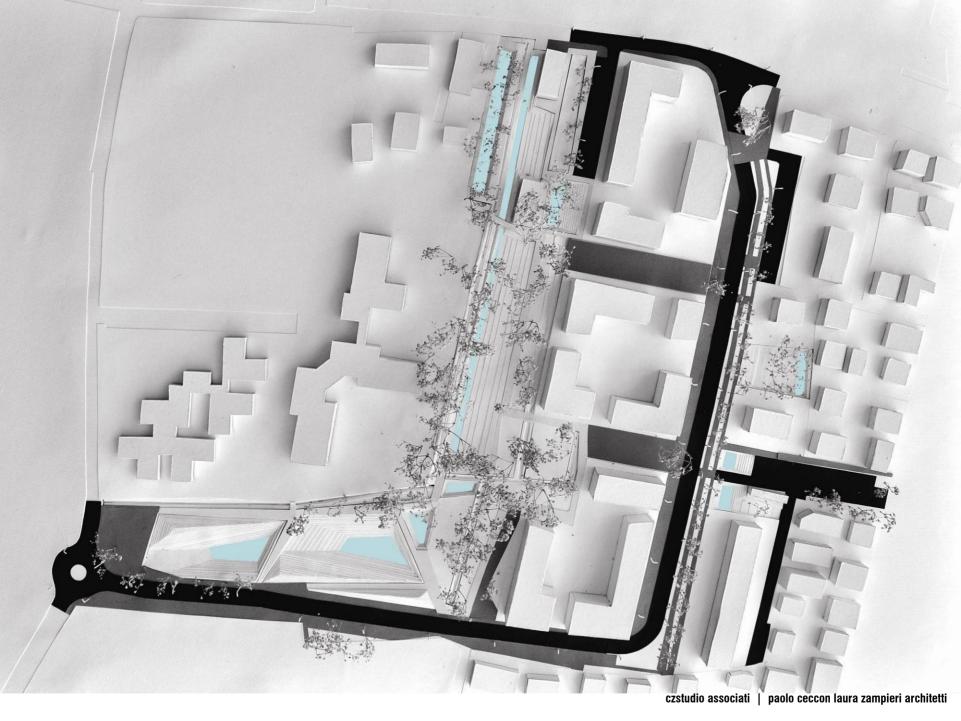


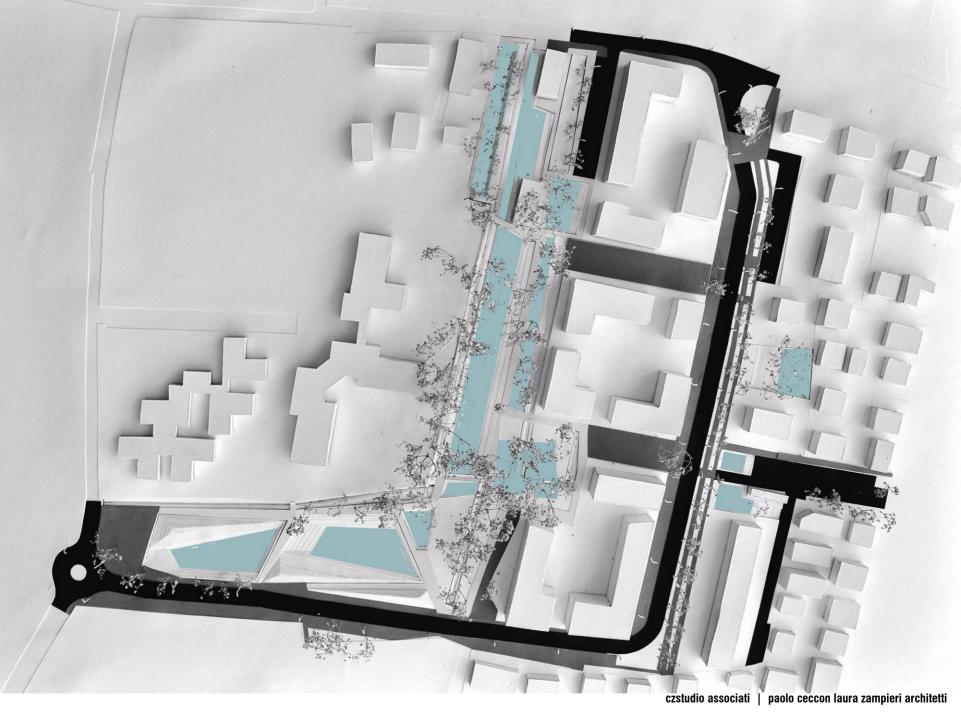


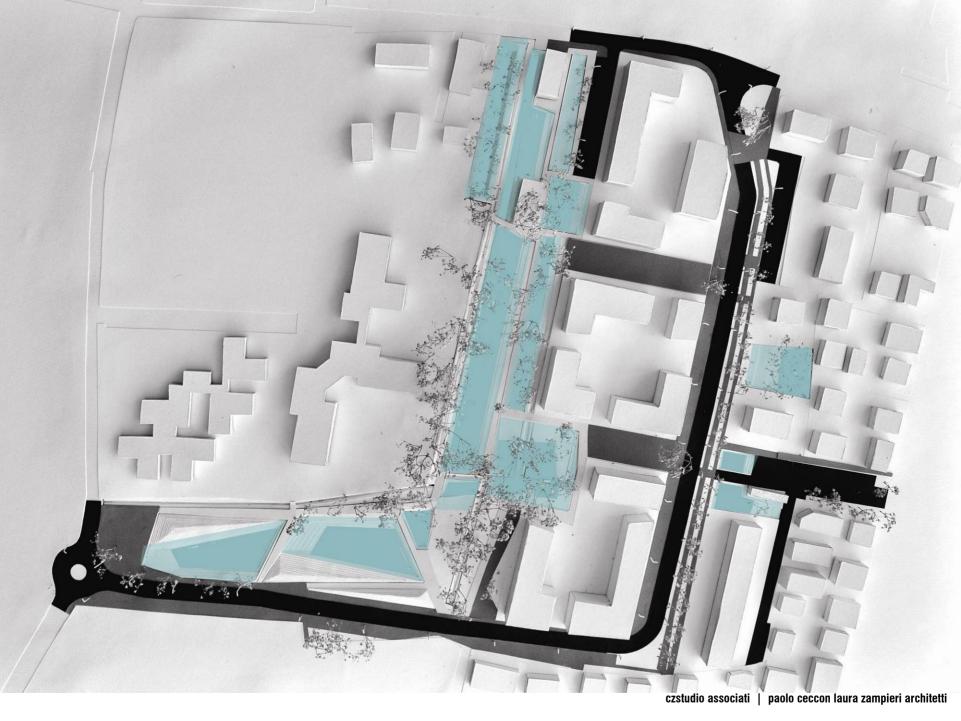
## superfici inerti arbusti e tappezzanti di progetto n. 140 Cornus sanguinea ghiaia di fiume per vasche di infiltrazione n. 280 Cornus mas n. 153 Salix viminalis ghiaia di fiume per vasche di infiltrazione n. 45 Salix eleagnos con finitura in spezzato e telo pacciamante n. 64 Salix purpurea n. 100 Salix triandra telo pacciamante per piantum, azioni arbistive n.2000 Hedera helix alberature di progetto superfici a prato **COPERTURA VEGETALE** 1a grandezza con impalcato > 3 m prati umidi n. 3 Celtis australis prati stabili n. 40 Fraxinus excelsior prati stabili fioriti n. 4 Populus tremula prati ombreggiati n. 3 Platanus occidentalis n. 5 Salix alba 2a grandezza con impalcato < 3 m n. 24 Alnus glutinosa n. 16 Fraxinus ornus ..... vegetazione esistente n. 78 da abbattere n. 56 da conservare

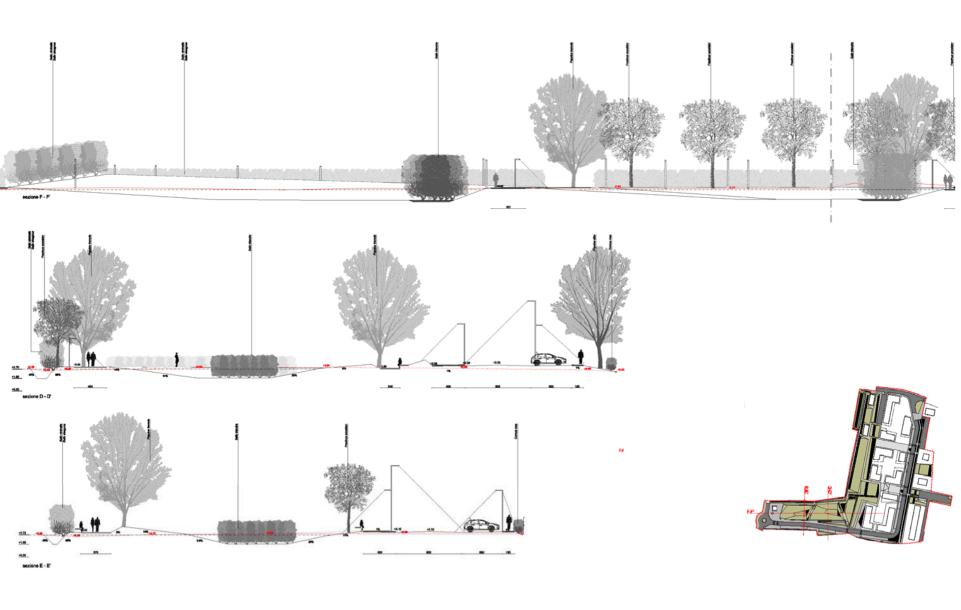
area umida da conservare

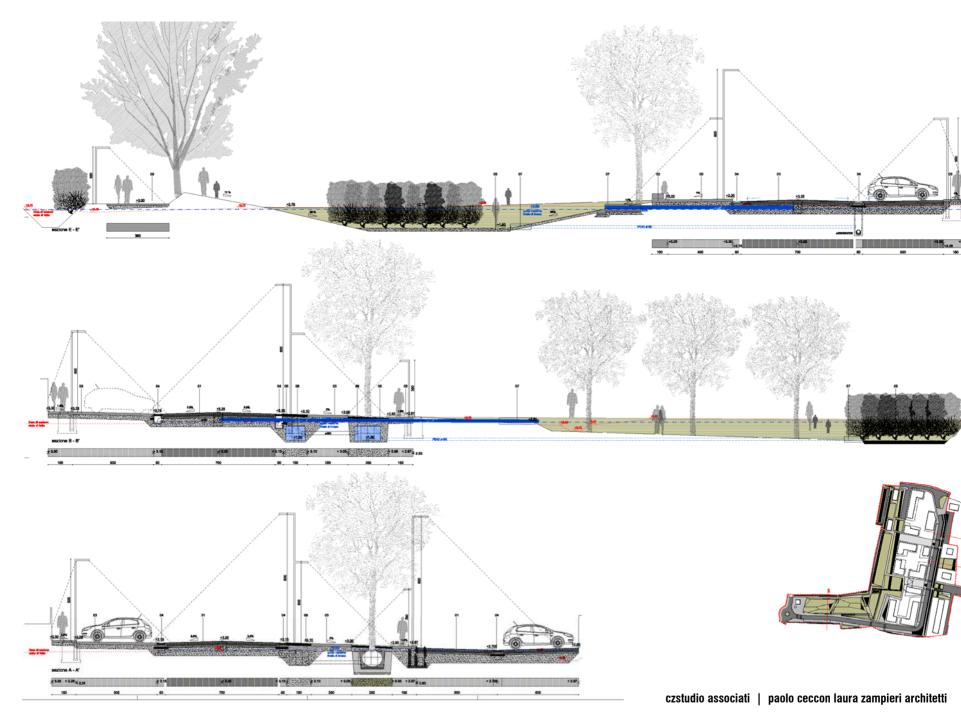




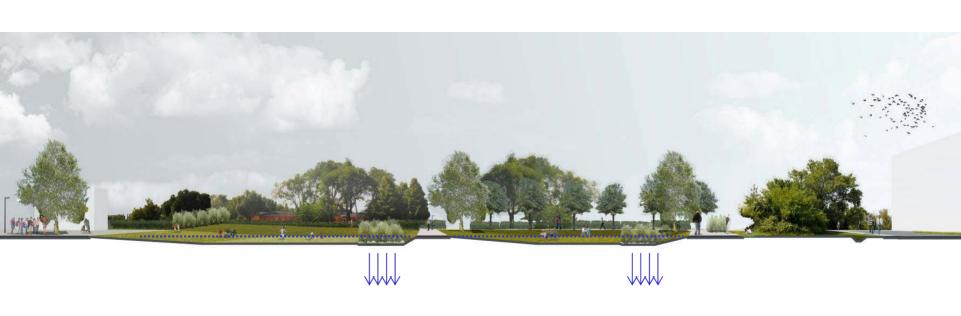


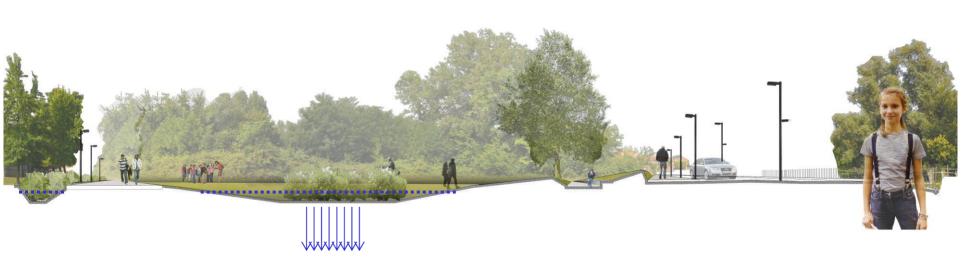




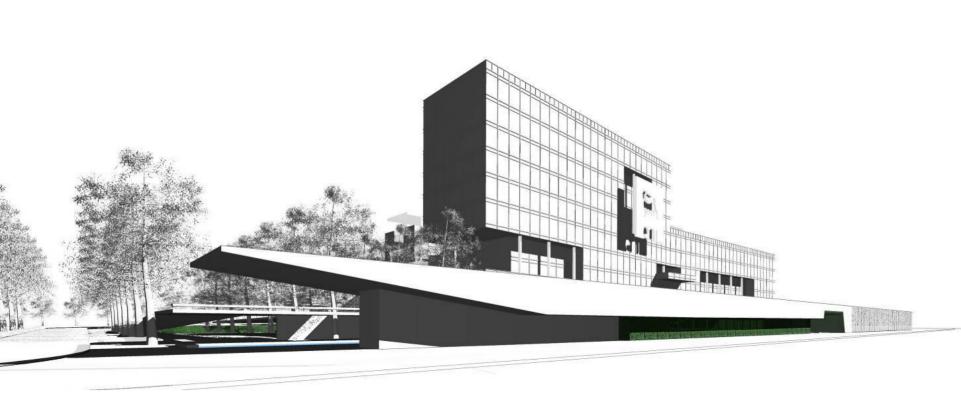






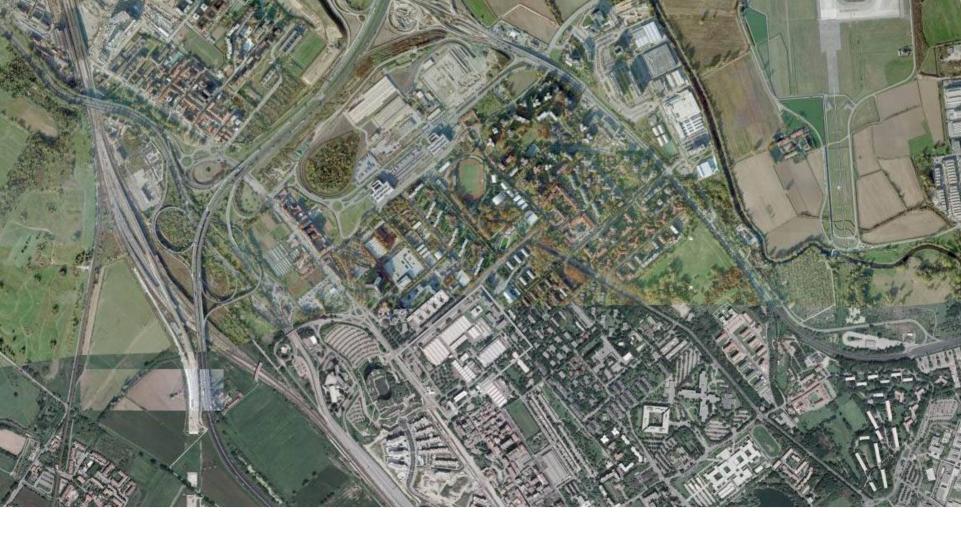






ENI concorso internazionale\_ progetto De Gasperi est | metanopoli | 2011

con: Richard Meier & Partners\_Cundall Ilp\_Tekne spa\_ AlterStudio AA

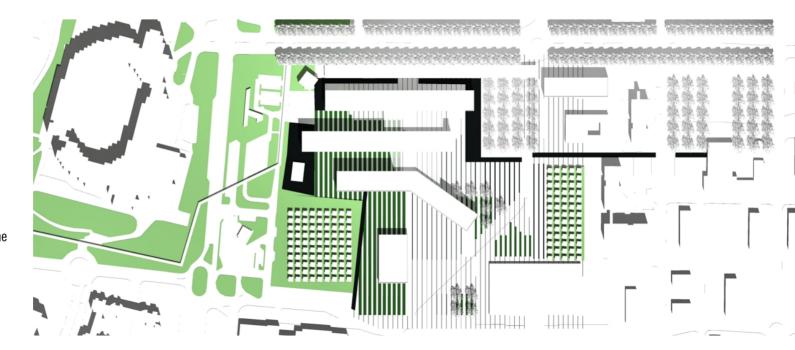


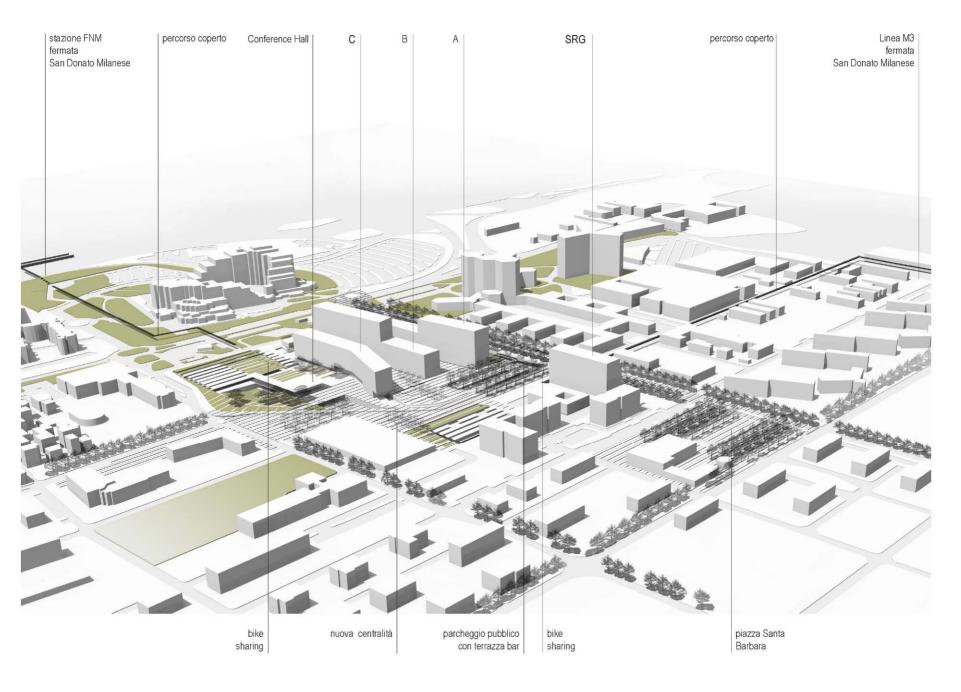
ENI concorso internazionale\_ progetto De Gasperi est | metanopoli | 2011

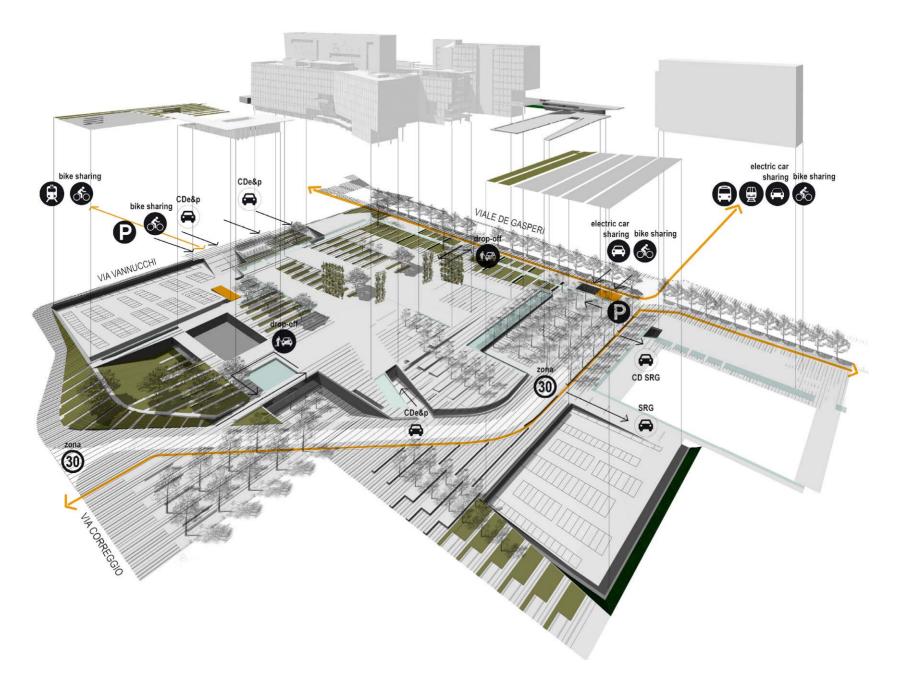
con: Richard Meier & Partners\_Cundall Ilp\_Tekne spa\_ AlterStudio AA

## 'landscape issues'

superfici e pavimentazioni
captazione acque meteoriche
limiti e barriere
vegetazione esistente
ingressi ed accessibilità

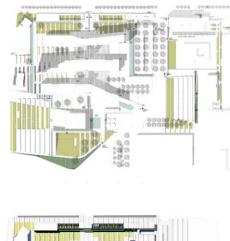


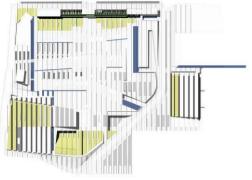


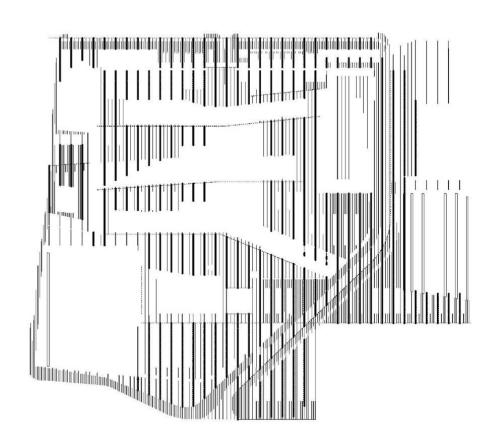


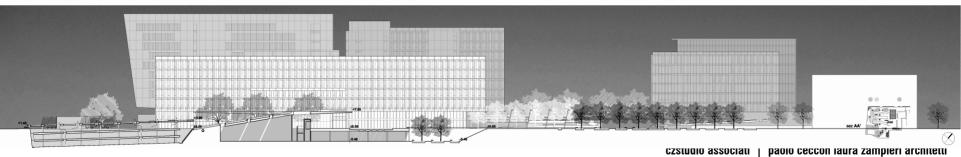












# Green Building nuove costruzioni e ristrutturazioni Sistema di Valutazione LEED NC 2009 Italia

(Approvato da GBC ITALIA 14/04/2010)

#### **GESTIONE DELLE ACQUE**

riduzione dell'uso d'acqua: gestione efficiente delle acque a scopo irriguo (2-4)

tecnologie innovative per le acque reflue (2)

## SOSTENIBILITA' DEL SITO

Trasporti alternativi: accesso ai trasporti pubblici (6)

portabiciclette e spogliatoi (1)

veicoli a bassa emissione e carburante alternativo (3

capacità dell'area di parcheggio (2)

Sviluppo del sito: proteggere e ripristinare l'habitat (1

massimizzazione degli spazi aperti (1)

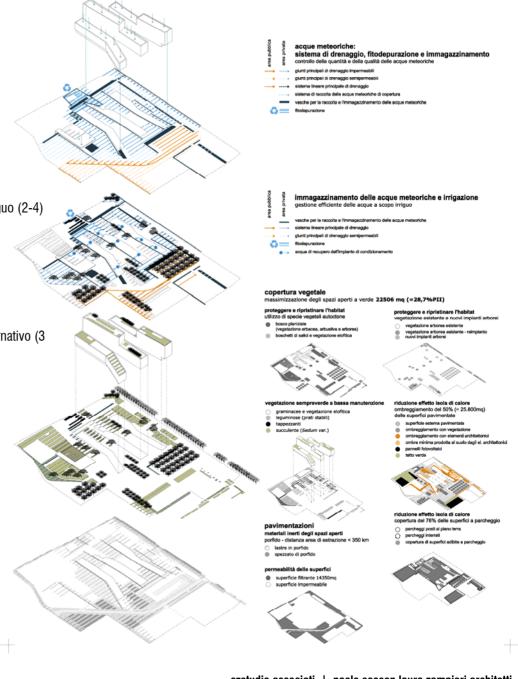
Acque meteoriche: controllo della quantità (1)

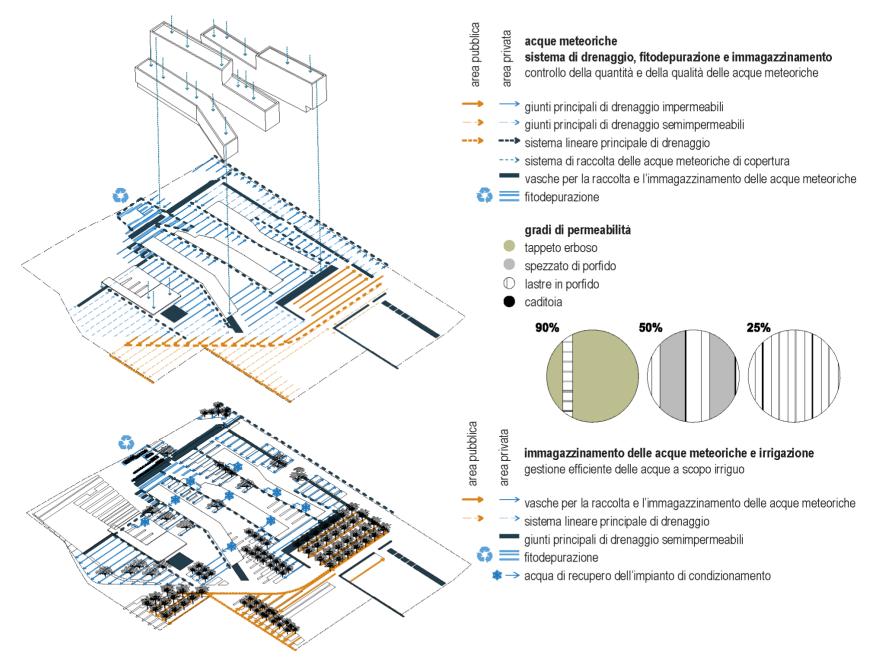
controllo della qualità (1)

Effetto isola di calore: superfici esterne (1) | coperture (1)

#### MATERIALI E RISORSE

materiali estratti, lavorati e prodotti a distanza limitata (1-2)





#### Vegetazione

#### leguminose graminacee tappezzanti

- 1. Trifolium repens
- 2. Hedera elix L.
- 3 Pennisetum villosum
- 4. Stipa tenuissima
- 5. Muhlenbergia lindheimeri
- 6. Sorghastrum nutans 'Indian Steel'

#### vegetazione igrofila

- 7. Typha latifolia L.
- 8. Typha angustifolia L.
- 9. Phragmites australis

#### vegetazione arbustiva

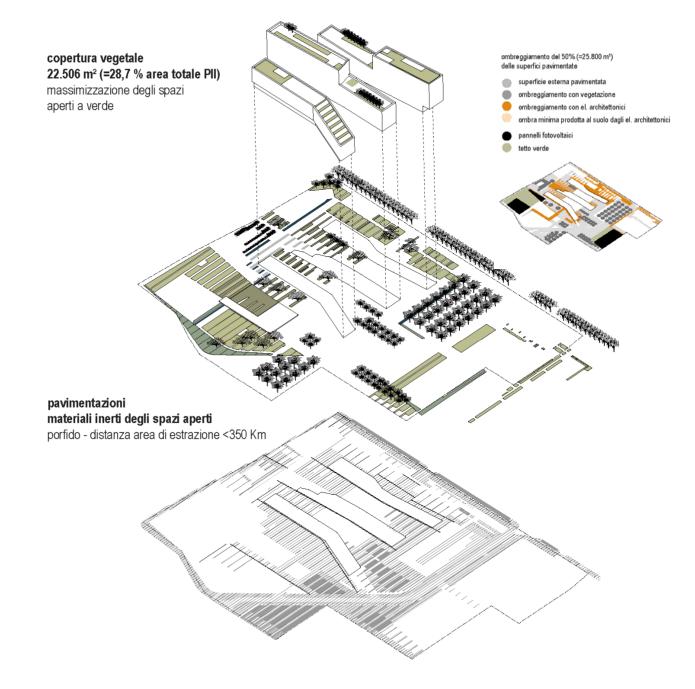
- 10. Lonicera nitida
- 11. Salix eleagnos
- 12. Salix purpurea
- 13 Salix cinerea

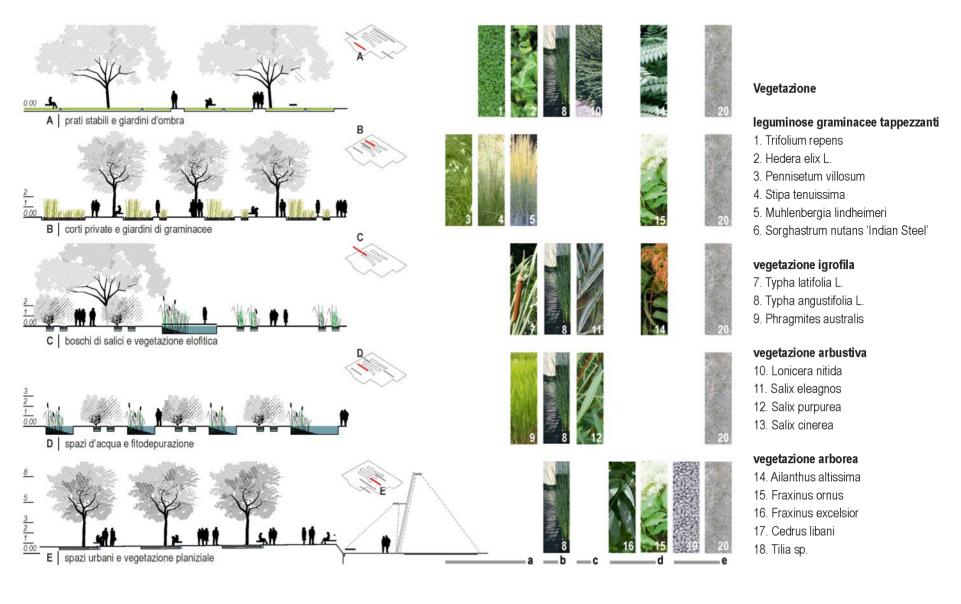
#### vegetazione arborea

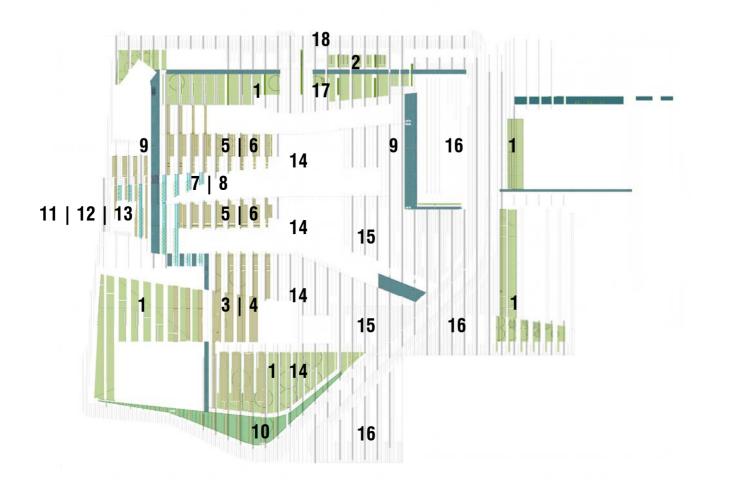
- 14. Ailanthus altissima
- 15. Fraxinus ornus
- 16. Fraxinus excelsior
- 17. Cedrus libani
- 18. Tilia sp.

## materiali inerti

- 19. spezzato di porfido
- 20. lastre di porfido







#### Vegetazione

# leguminose graminacee tappezzanti

- 1. Trifolium repens
- 2. Hedera elix L.
- 3. Pennisetum villosum
- 4. Stipa tenuissima
- 5. Muhlenbergia lindheimeri
- 6. Sorghastrum nutans 'Indian Steel'

#### vegetazione igrofila

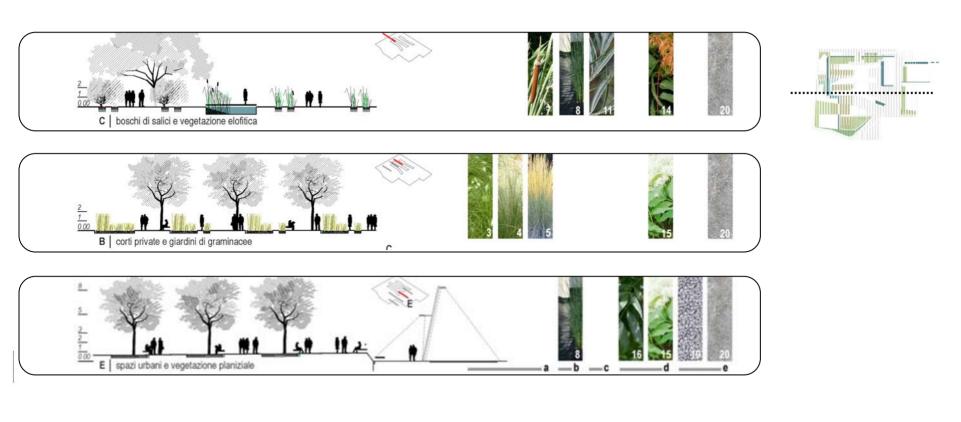
- 7. Typha latifolia L.
- 8. Typha angustifolia L.
- 9. Phragmites australis

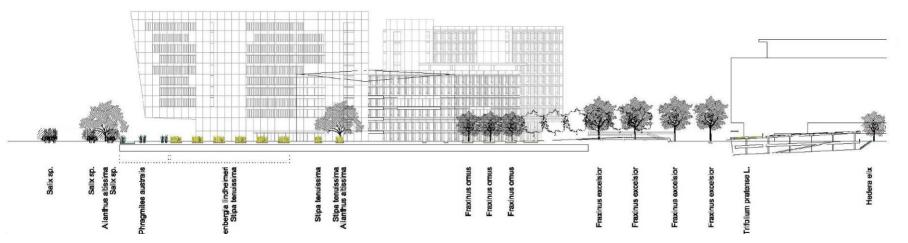
#### vegetazione arbustiva

- 10. Lonicera nitida
- 11. Salix eleagnos
- 12. Salix purpurea
- 13. Salix cinerea

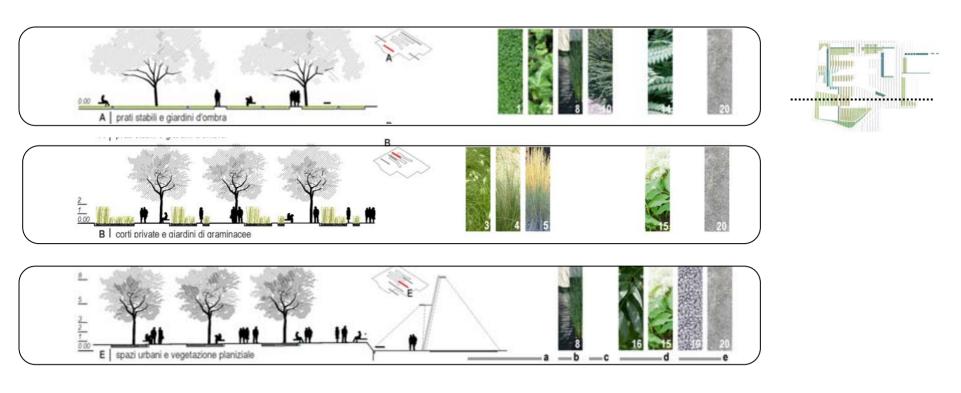
## vegetazione arborea

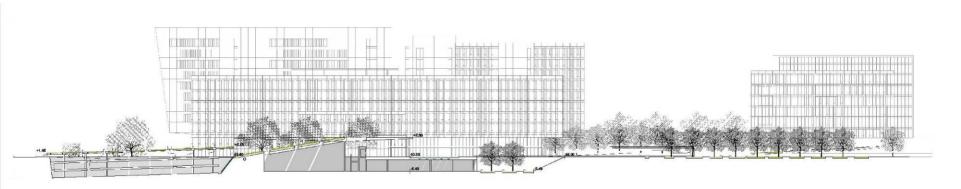
- 14. Ailanthus altissima
- 15. Fraxinus ornus
- 16. Fraxinus excelsior
- 17. Cedrus libani
- 18. Tilia sp.





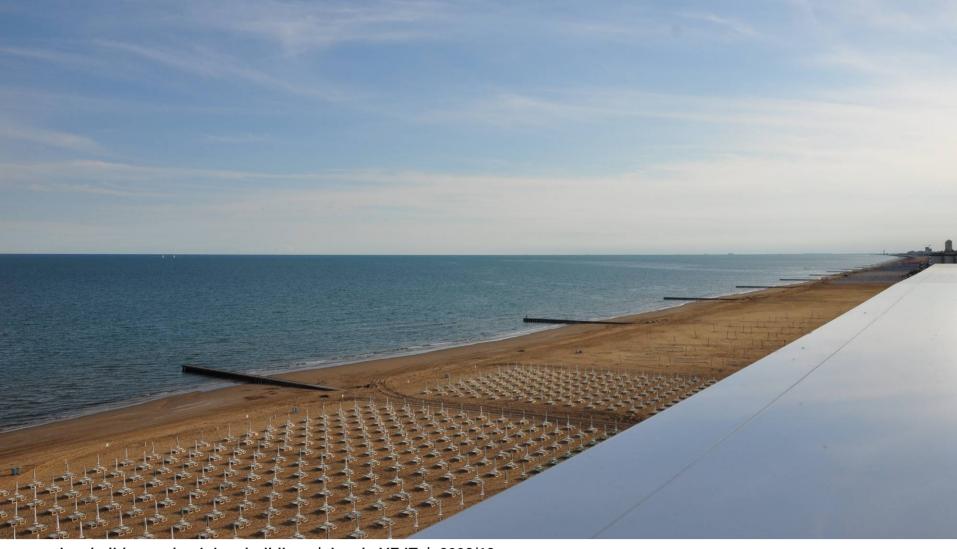












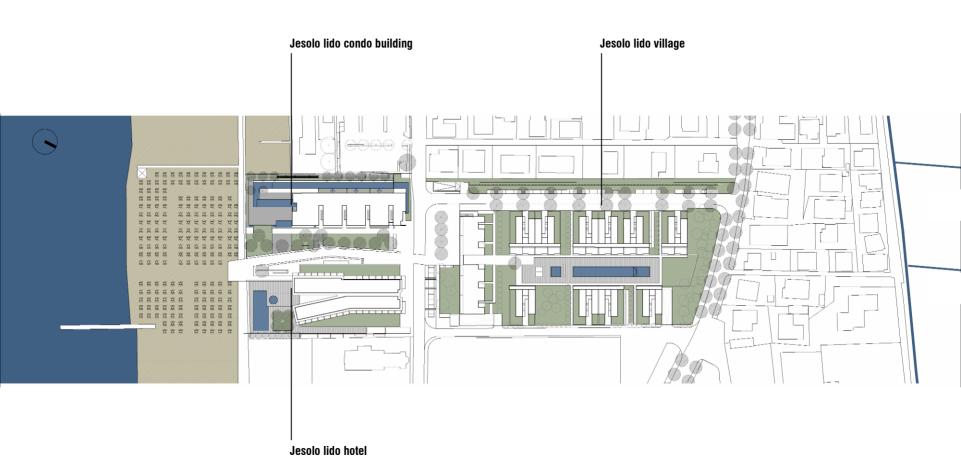
parco jesolo lido condominium building | jesolo VE IT | 2008/12

Architecture Honour Award 2013 | AIA | NY USA

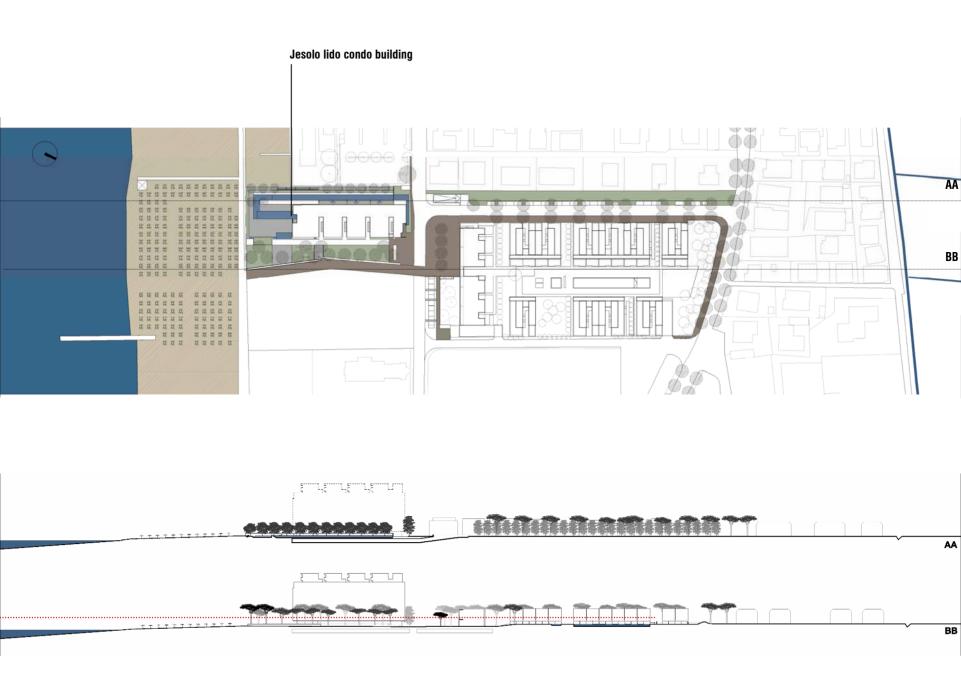


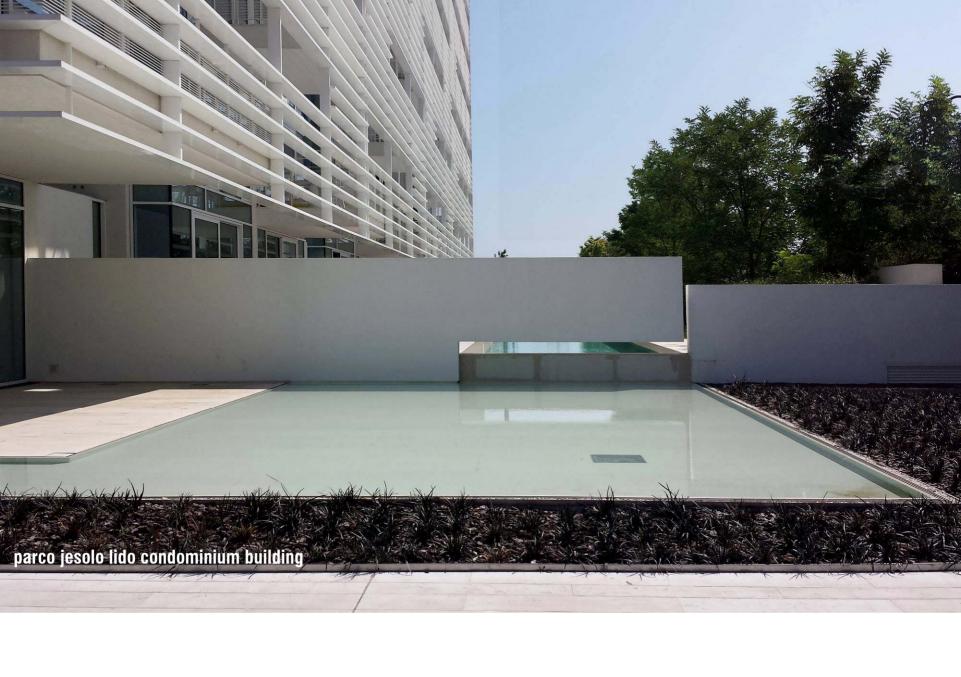
parco jesolo lido condominium building | jesolo VE IT | 2008/12

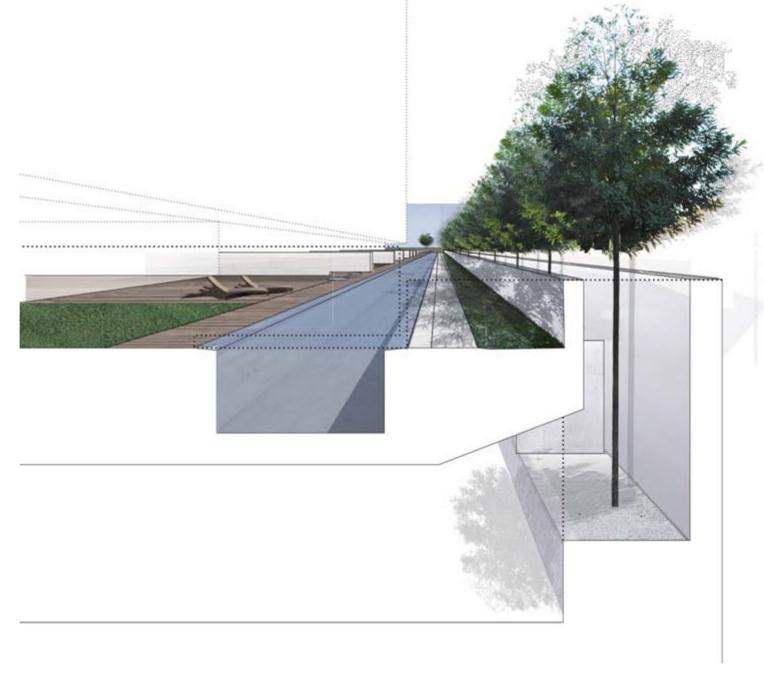
Architecture Honour Award 2013 | AIA | NY USA



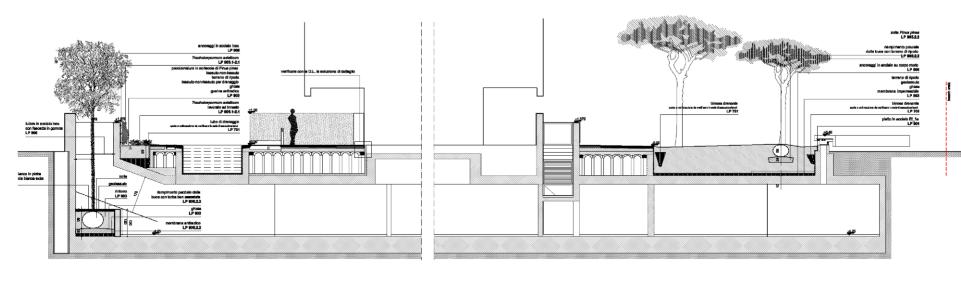


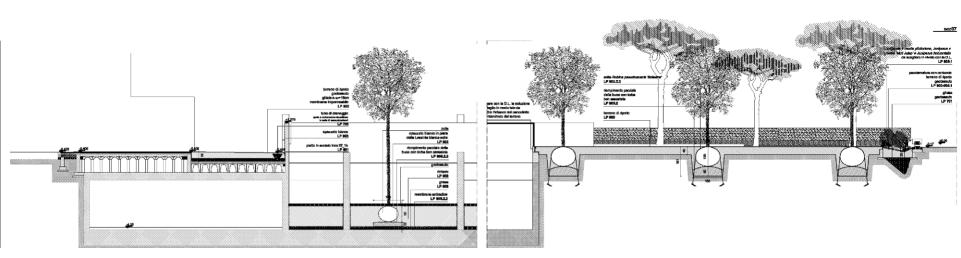






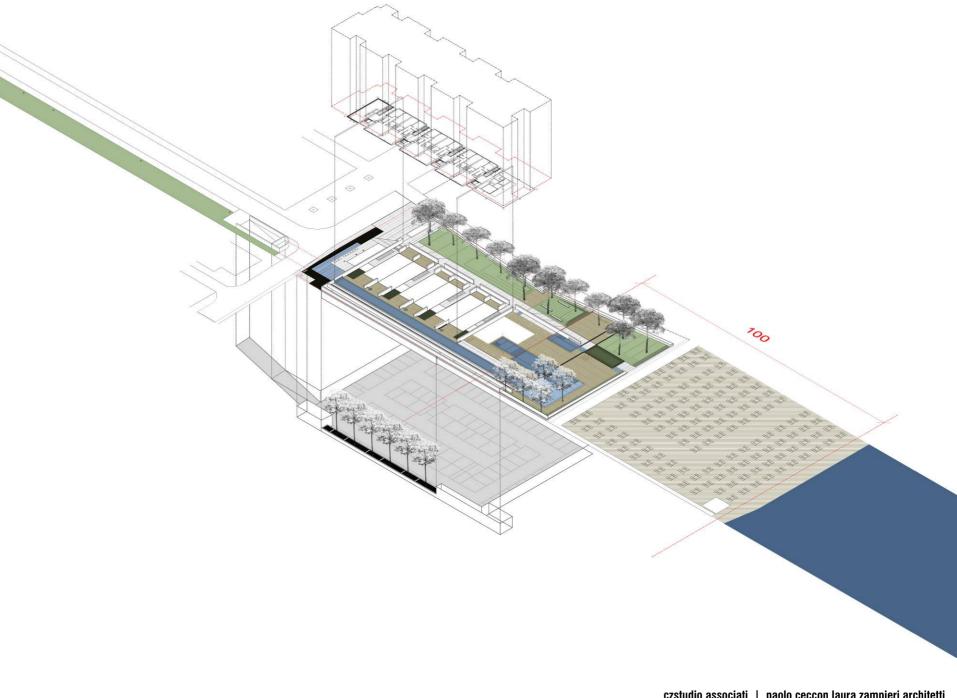


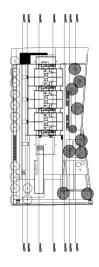


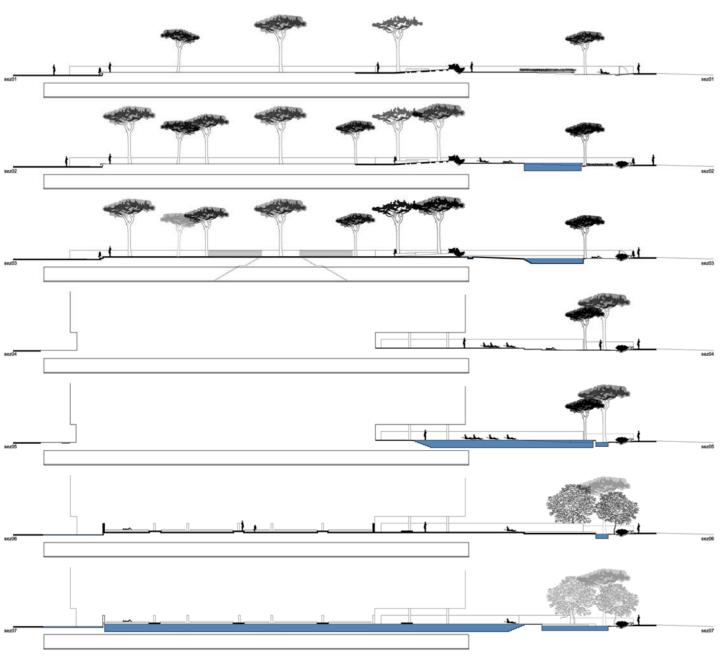


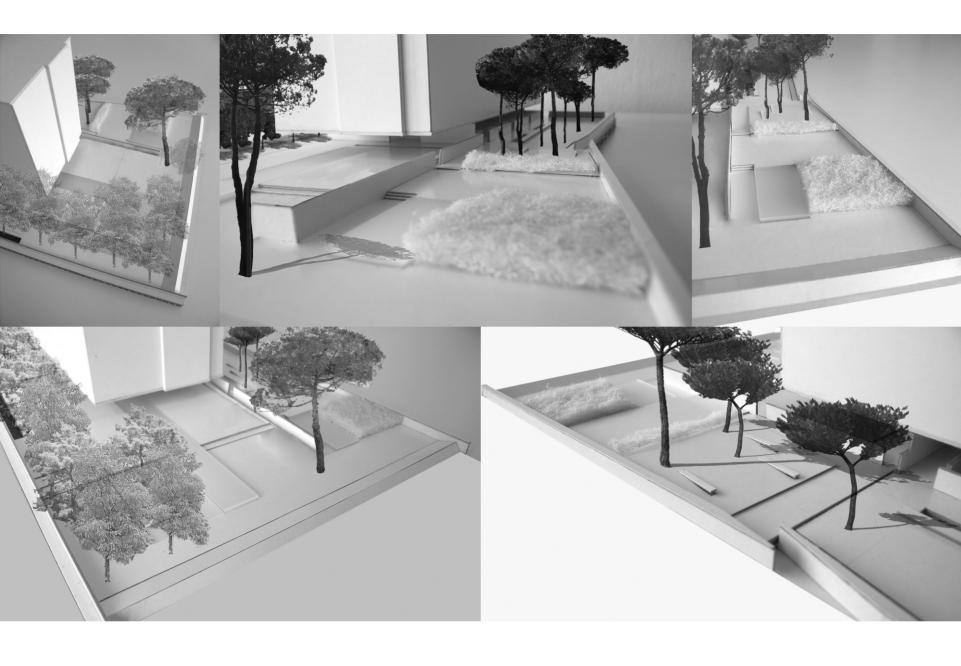


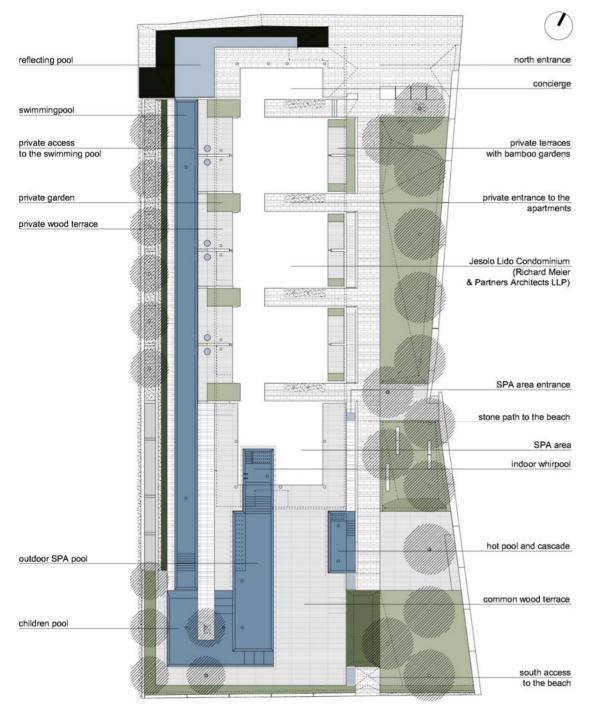
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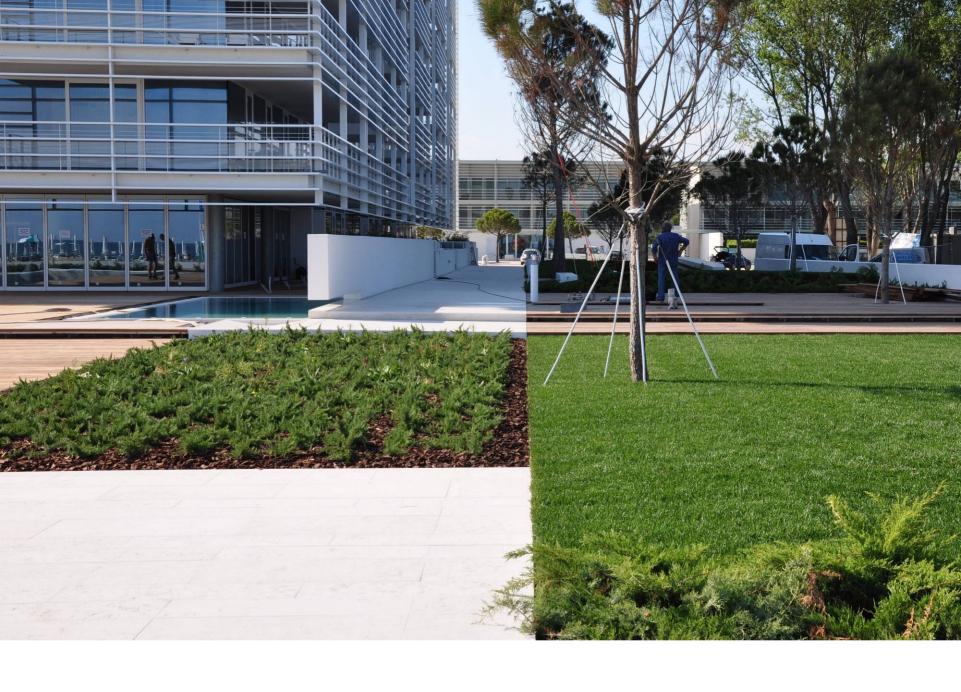




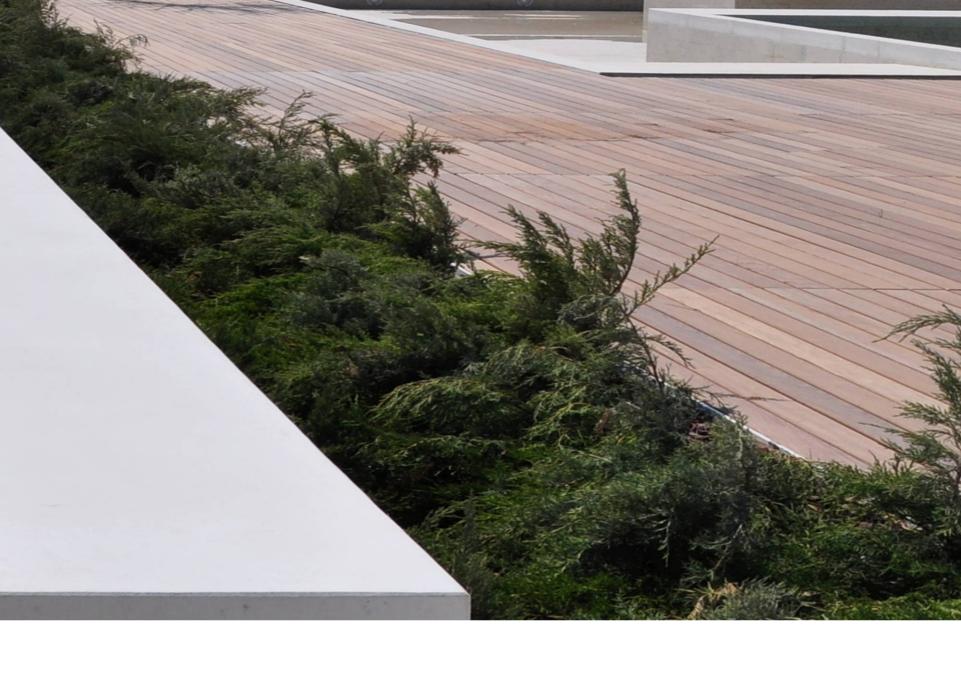


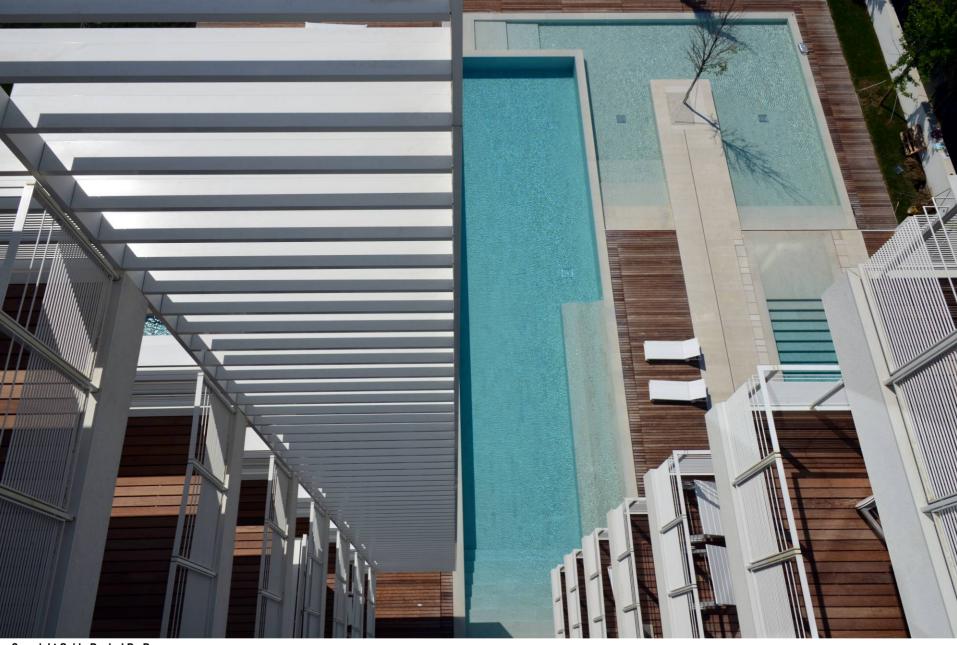


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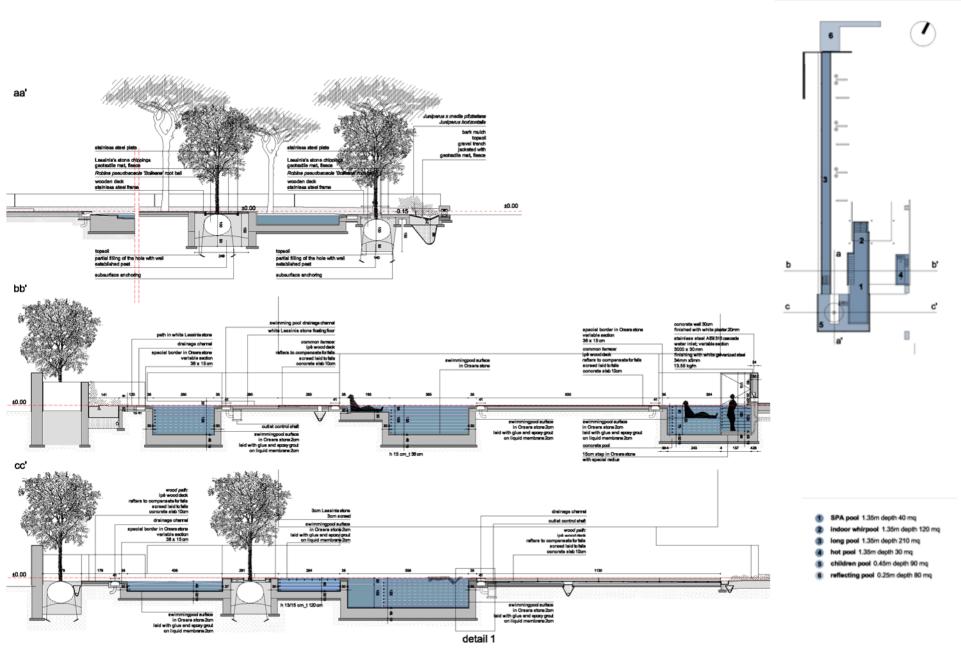


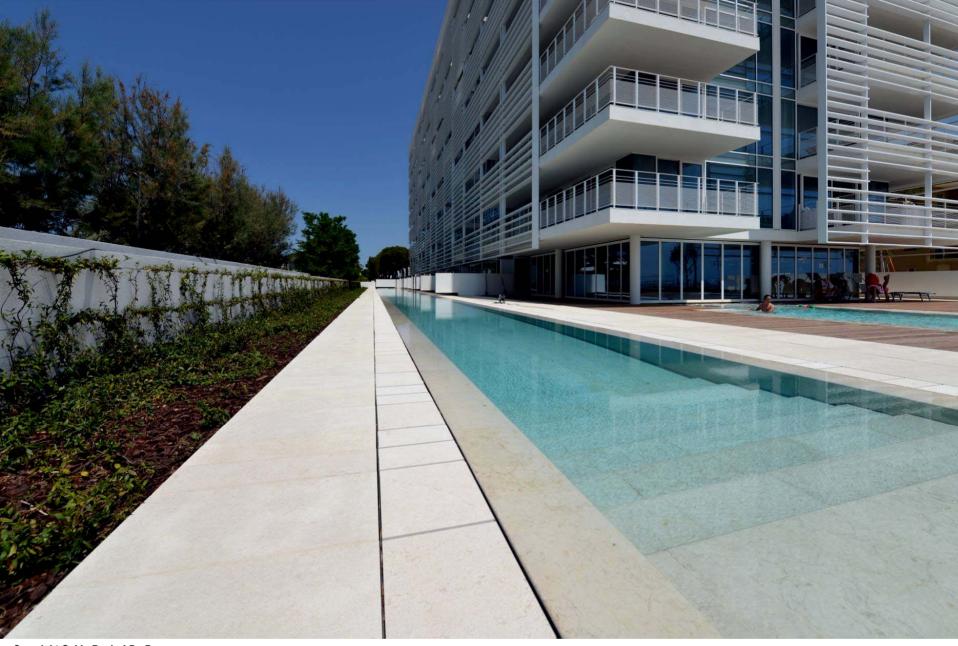




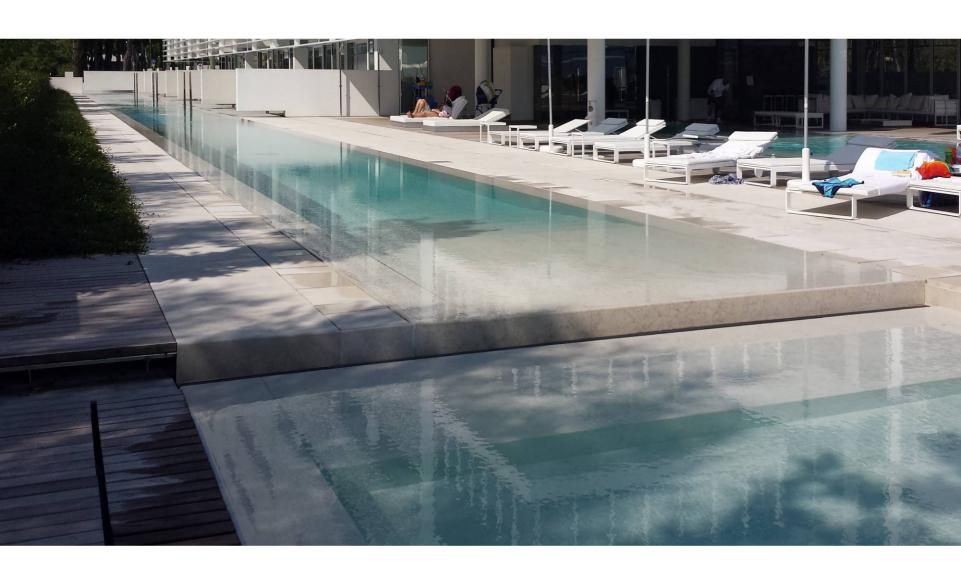


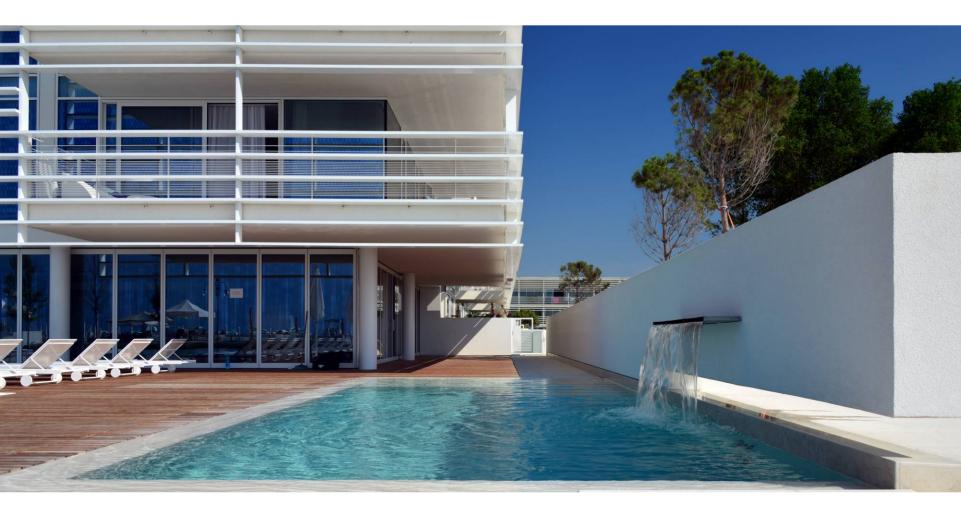
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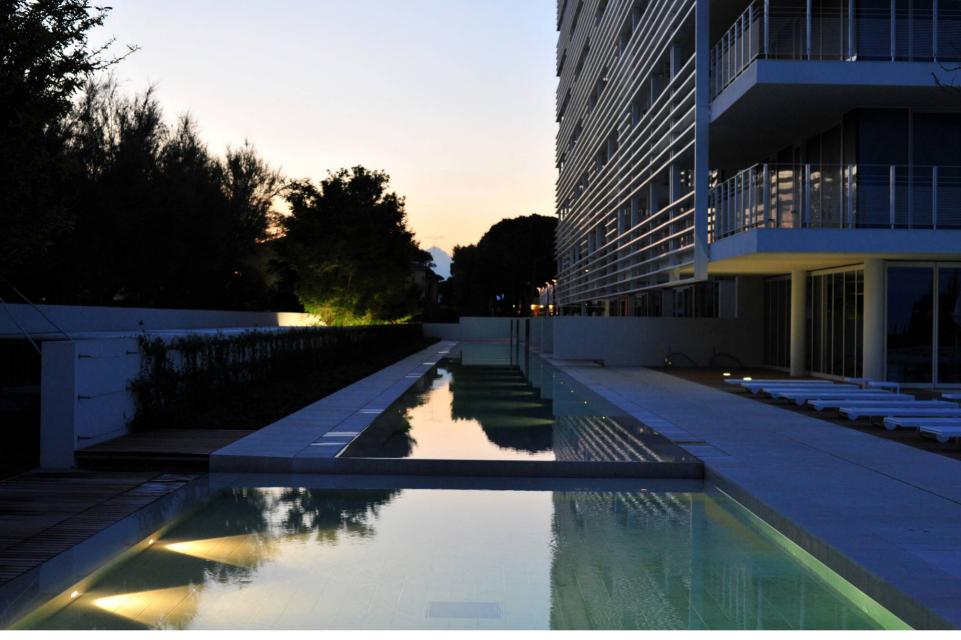


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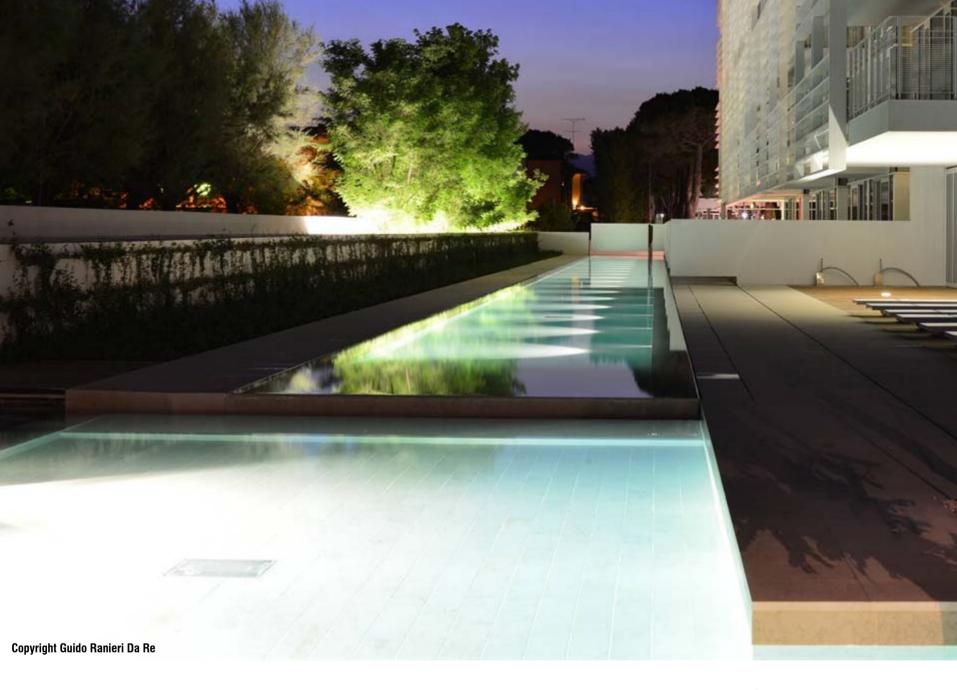


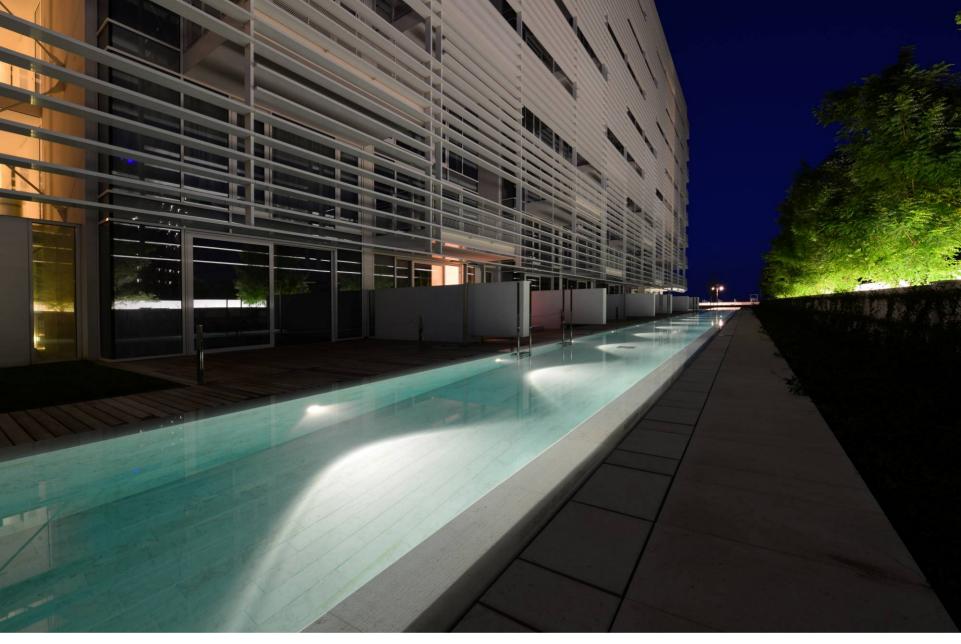


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paesaggio: tempo | luoghi | geografie

czstudio associati | paolo ceccon laura zampieri architetti

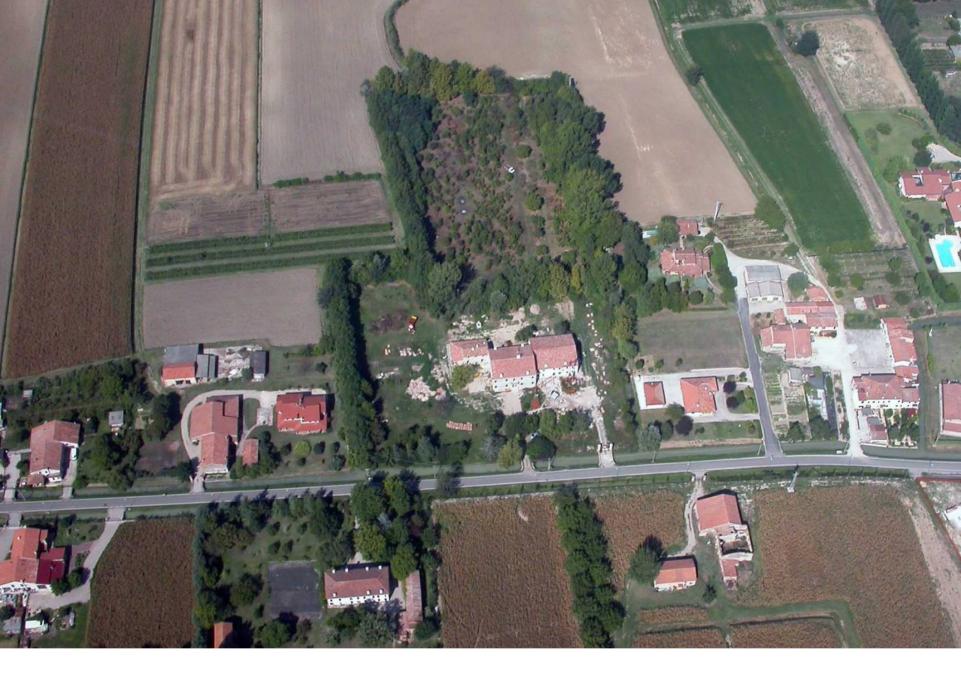


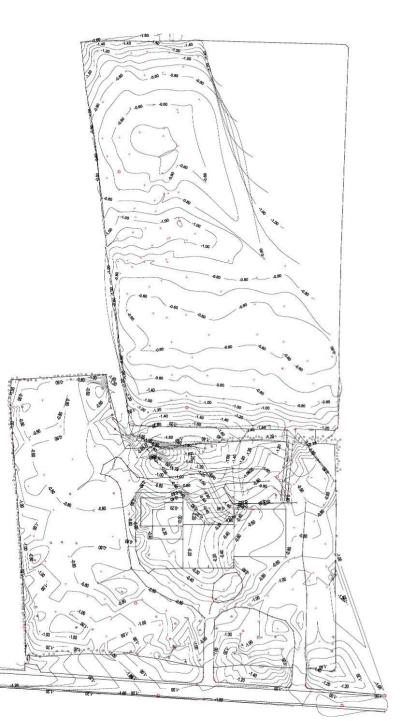


Sistemazione spazi aperti e parco privato | barbassolo MN | 2007/11



Sistemazione spazi aperti e parco privato | barbassolo MN | 2007/12





# 1.3 Larix decidua (4) 1.15 Diospyros 2.7 Salix alba 2.10 Ficus carica 3.1 Abies grandis 3.12 Prunus avium 2,12 1 A10 30 2 23413/13 (13 13413): 13) 13 6.27 120 - -1.20

### 1 SISTEMA DI ALBERATURE FRONTE STRADA

1.1 Abies grandis abete 1.2 Taxus baccata larice

1.10 Ficus carica fico

1.11 Salix chrysocoma salice piangente

1.13 Magnolia grandiflora magnolia

# 2 SISTEMA DI ALBERATURE BORDO CANALE

2.4 Alnus alutinosa ontano nero 2.5 Morus nigra gelso nero 2.6 Prunus cerasifera mirabolano salice bianco

2.8 Tilia platyphyllos tiglio nostrale

2.9 Juglans regia noce

fico

2.11 Salix chrysocoma salice piangente

2.12 Prunus avium ciliegio dolce 2.17 Populus nigra pioppo nero

2.18 Platanus acerifolia platano

2.19 Alnus glutinosa ontano nero

### 3 ALBERI ISOLATI

abete

ciliegio dolce 3.13 Magnolia grandiflora magnolia

3.14 Acer campestre acero campestre

3.15 Diospyros

3.16 Tilia cordata tiglio selvatico

# 4 ALBERATURE A MACCHIA

4.6 Prunus cerasifera mirabolano

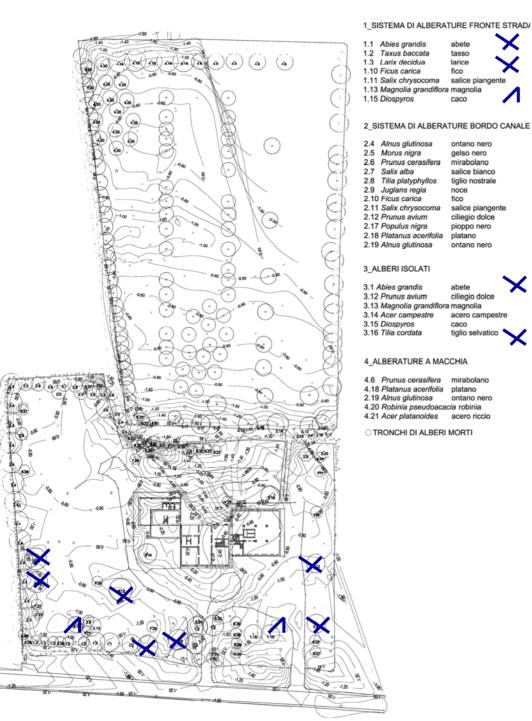
4.18 Platanus acerifolia platano

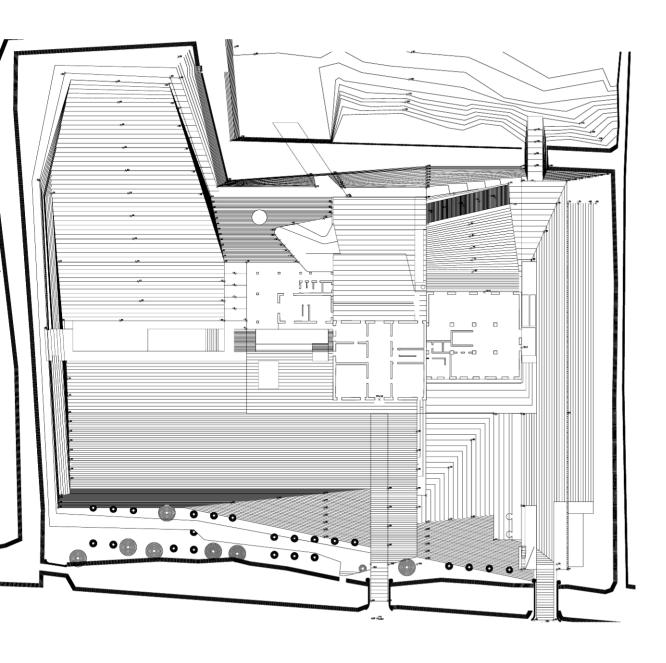
2.19 Alnus glutinosa ontano nero

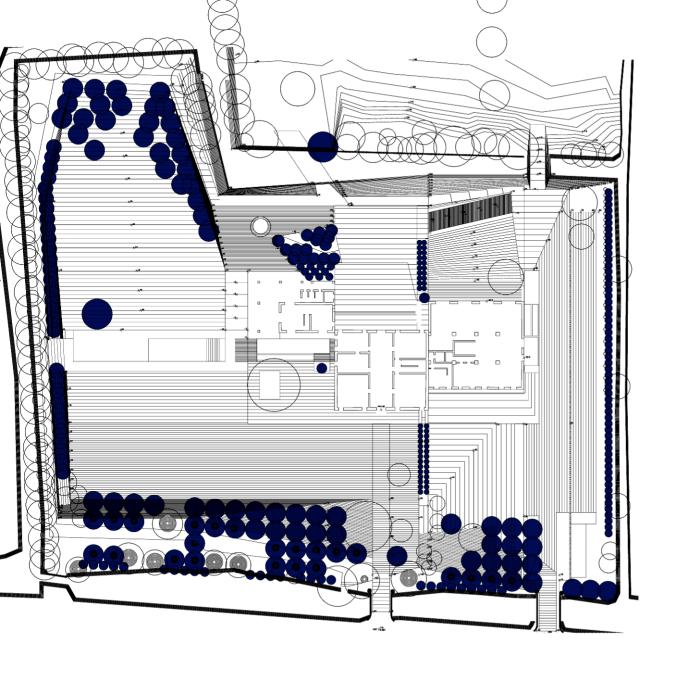
4.20 Robinia pseudoacacia robinia

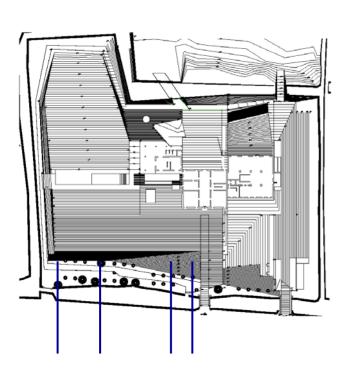
4.21 Acer platanoides acero riccio

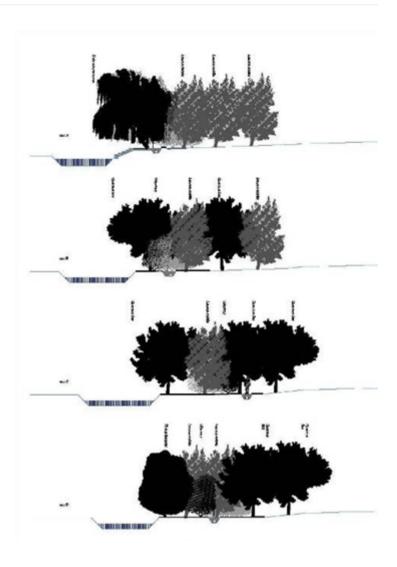
OTRONCHI DI ALBERI MORTI

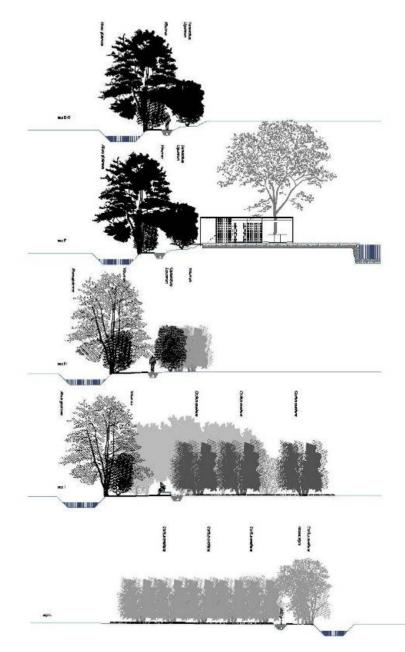


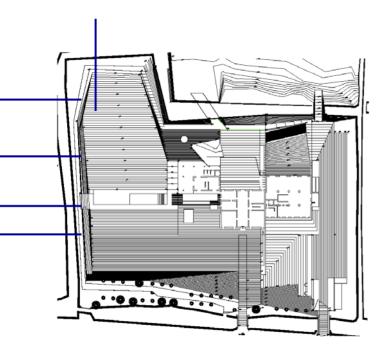




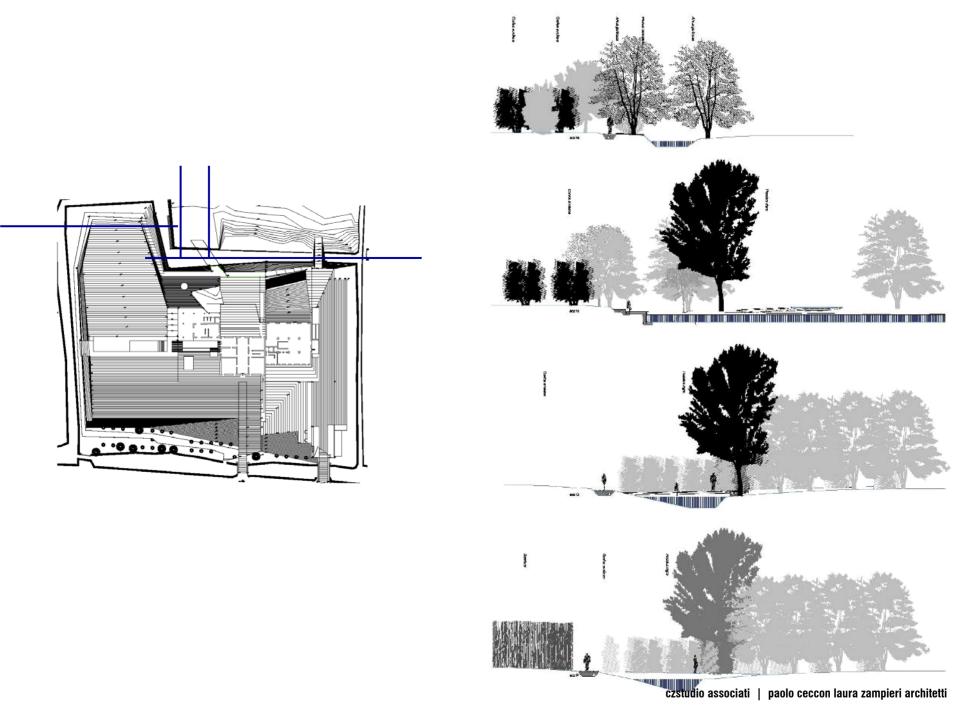








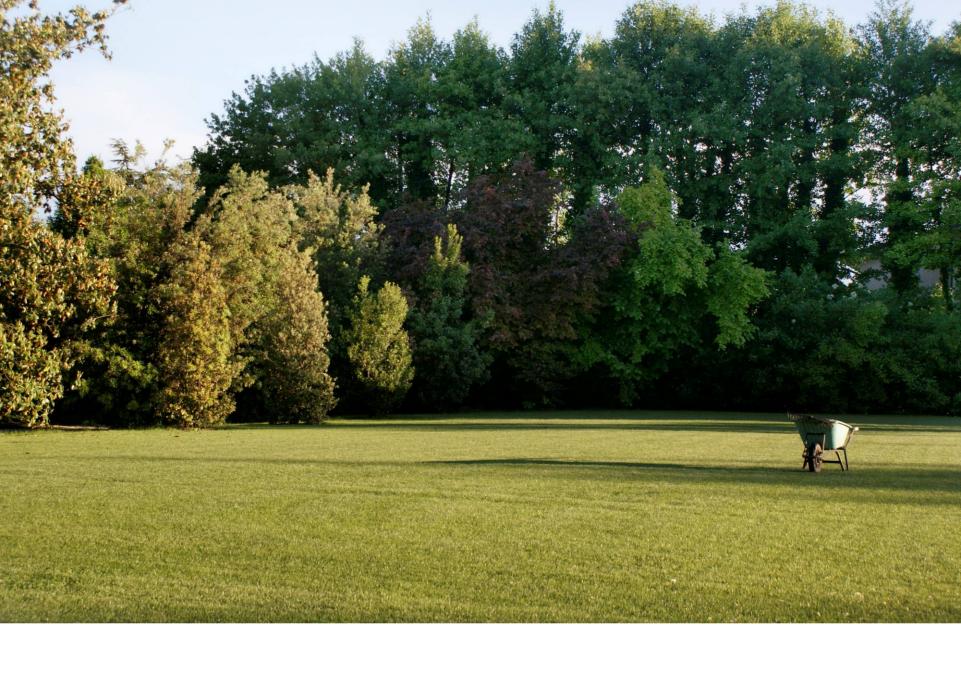
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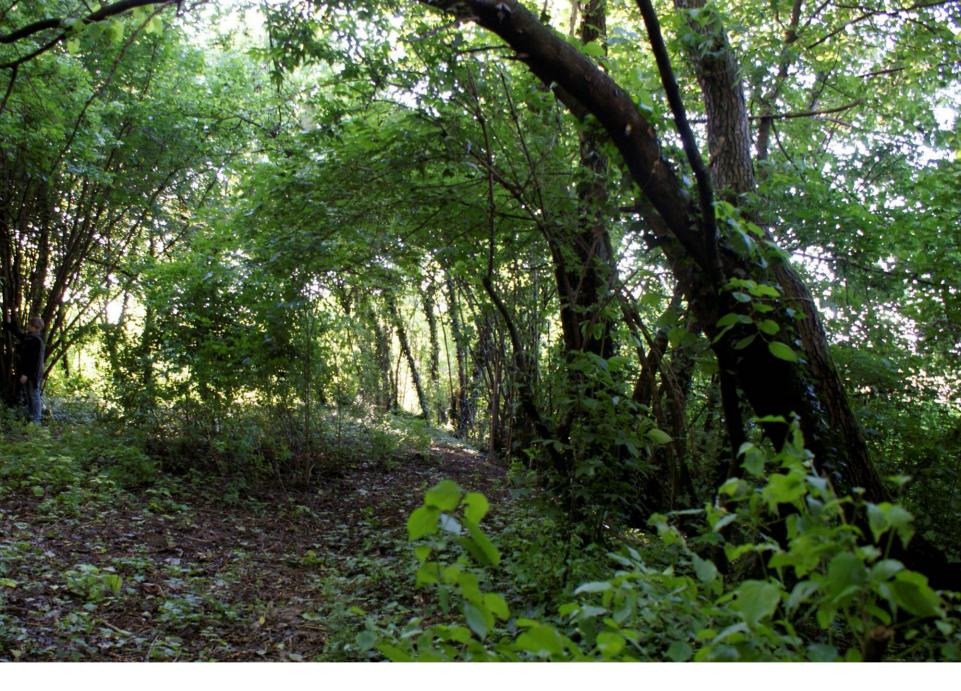


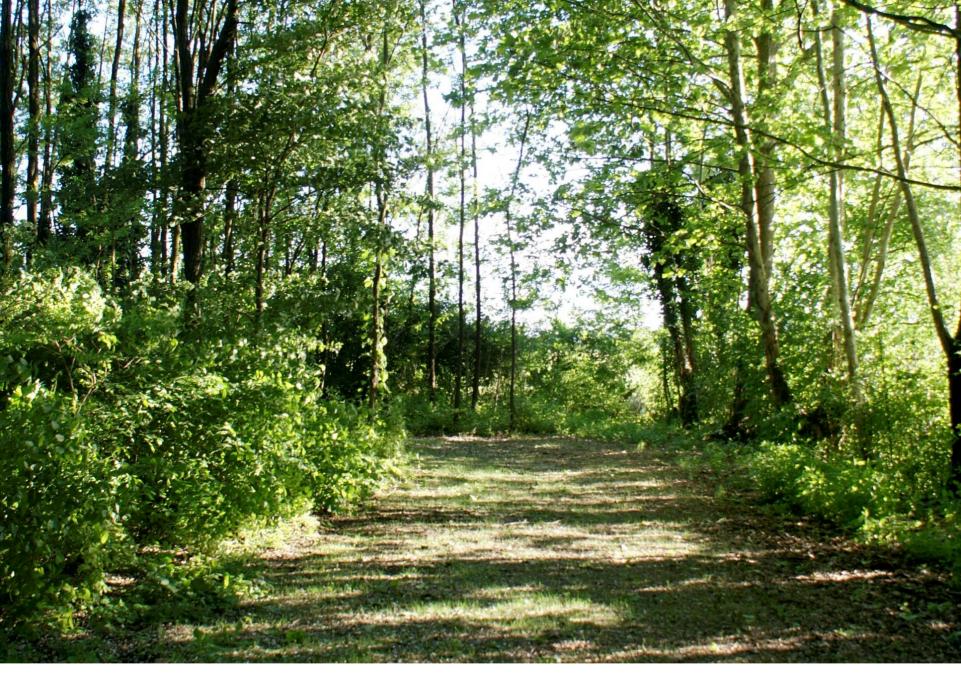
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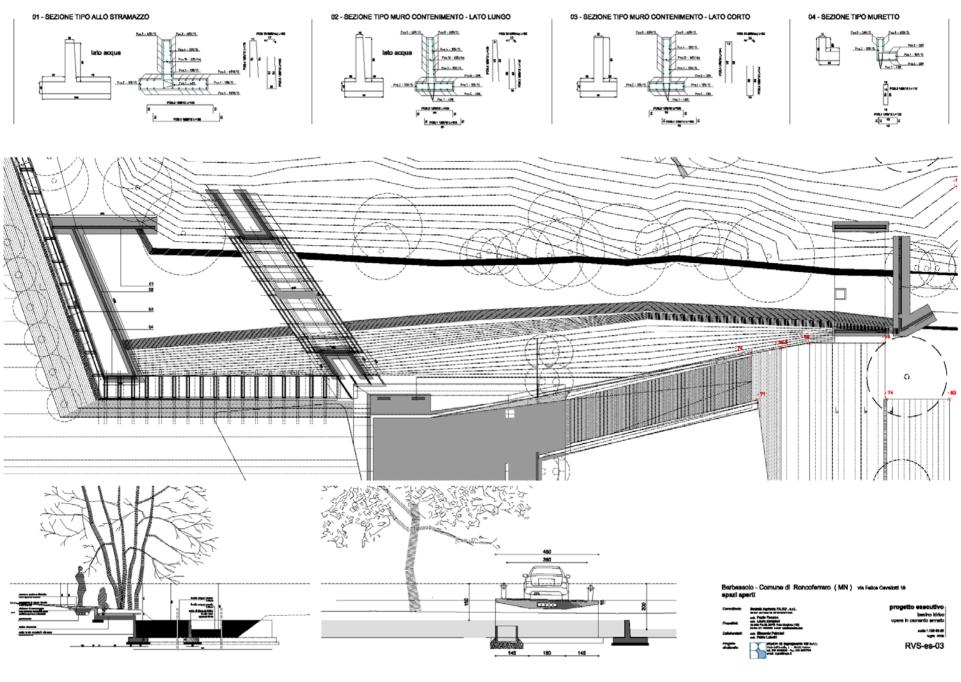




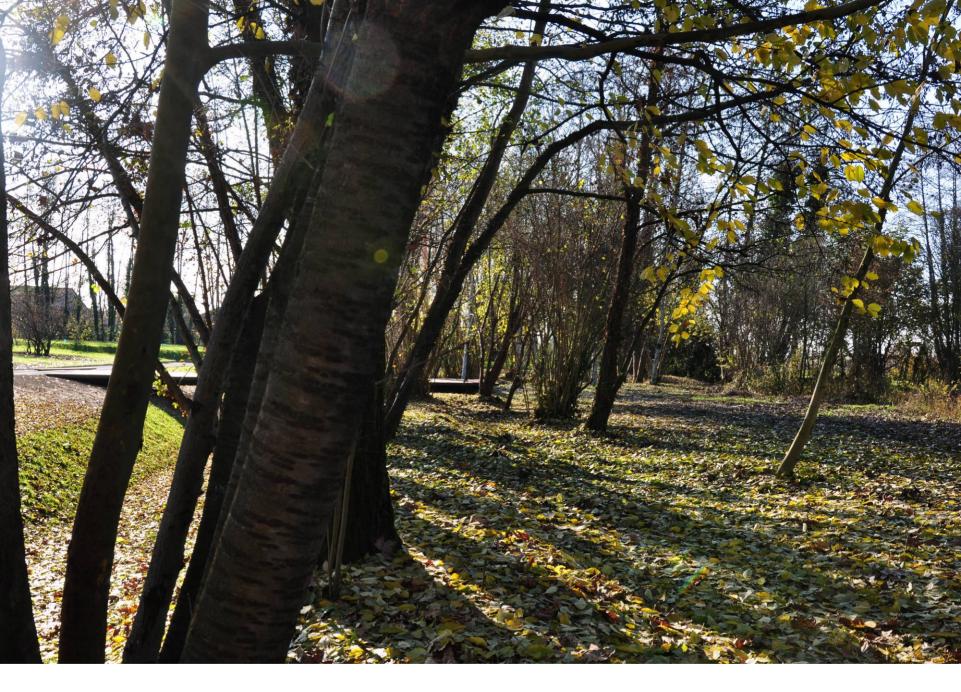






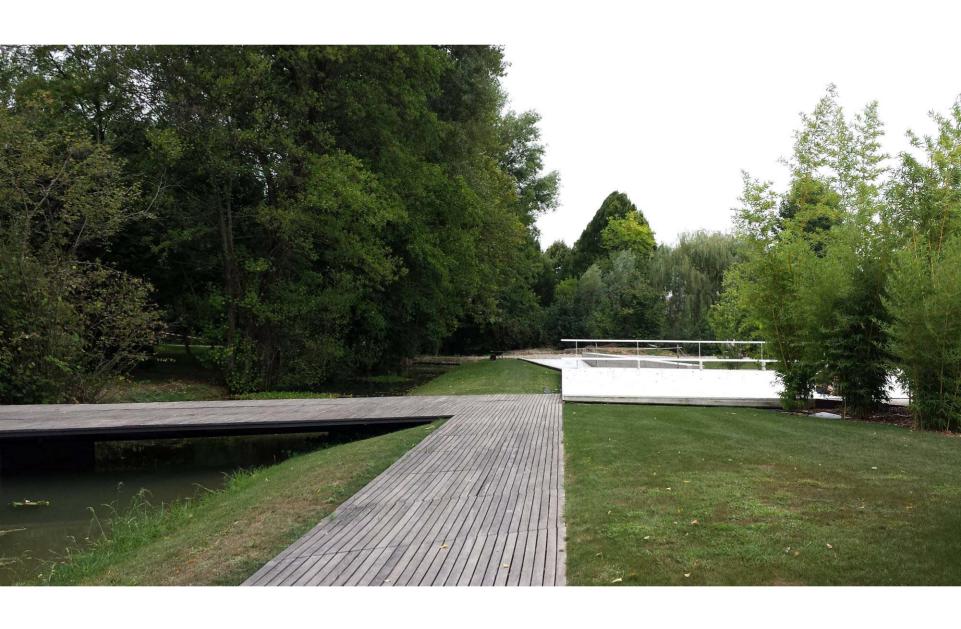


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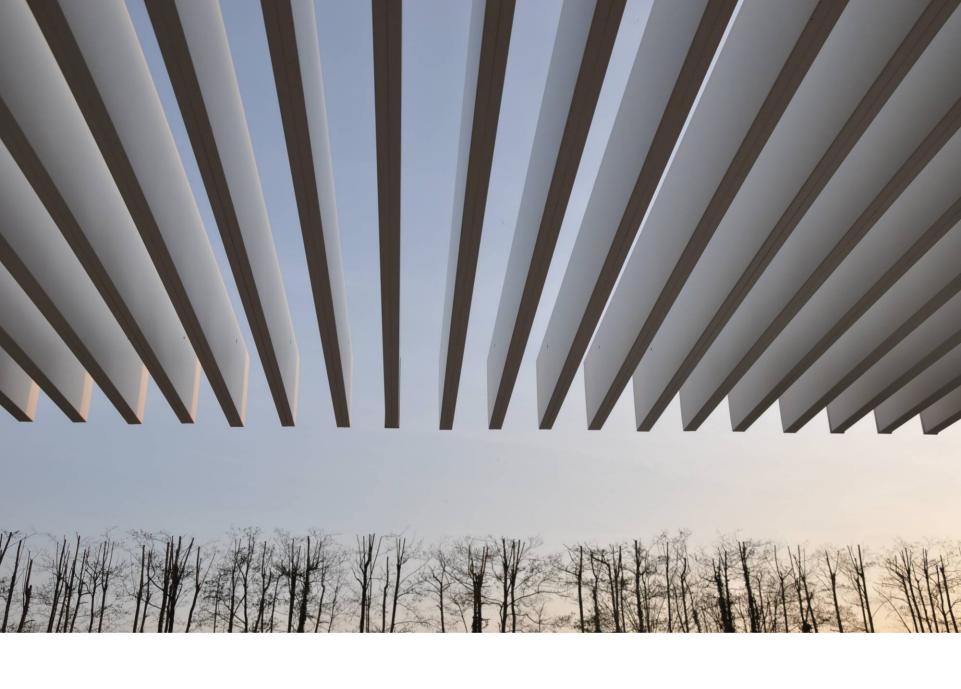




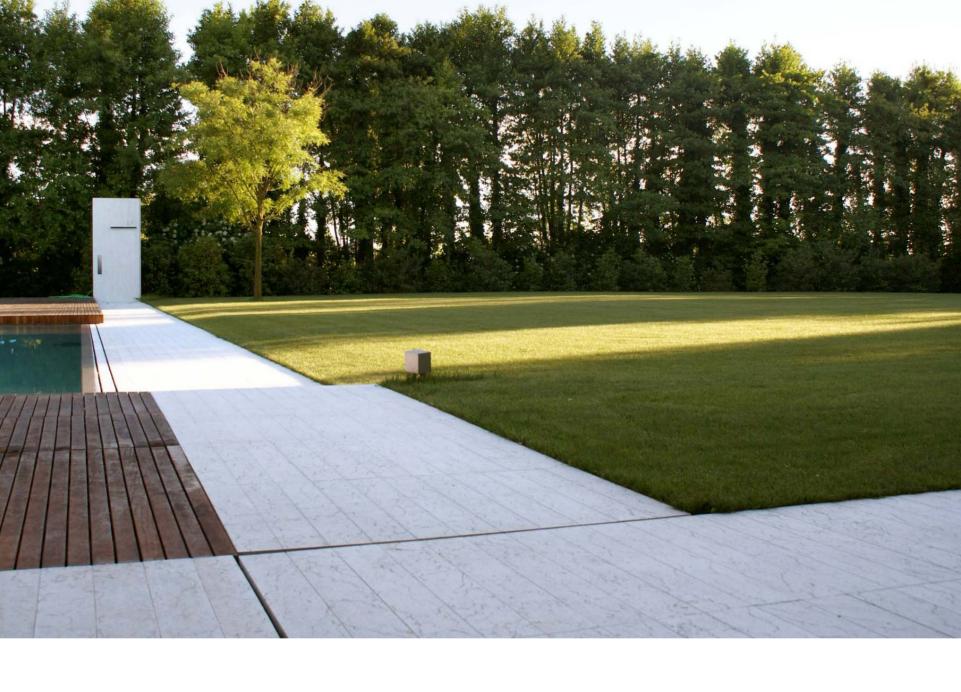


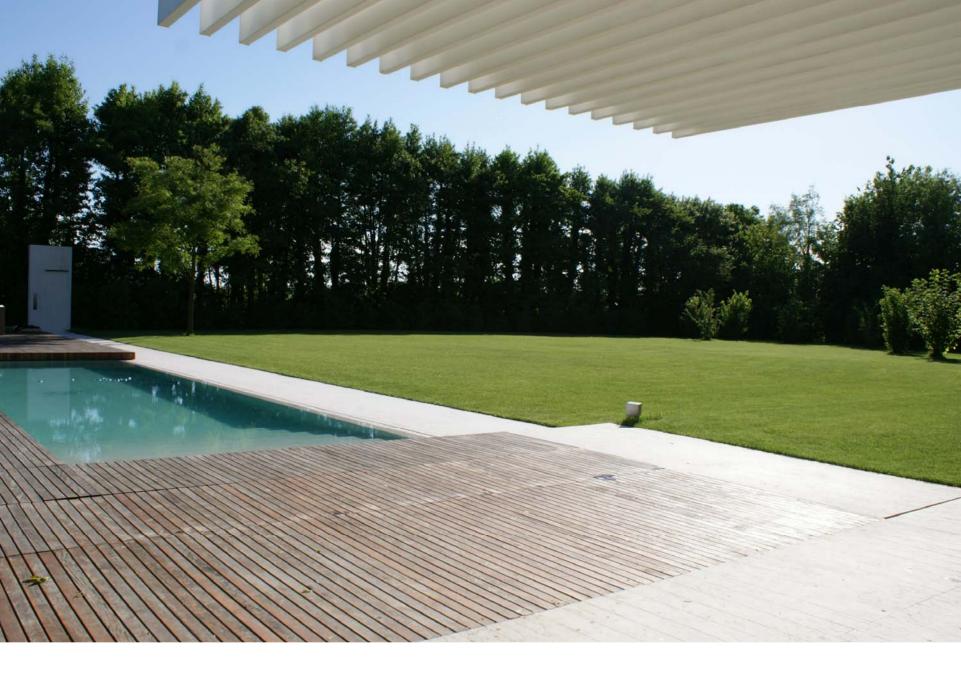
















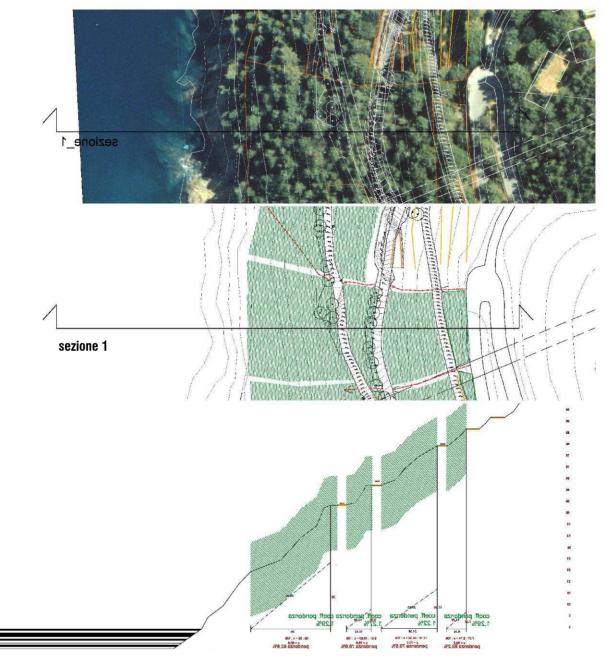


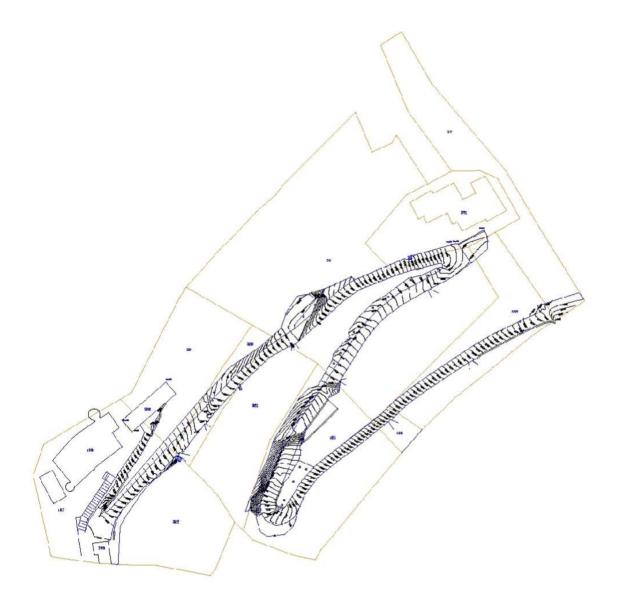


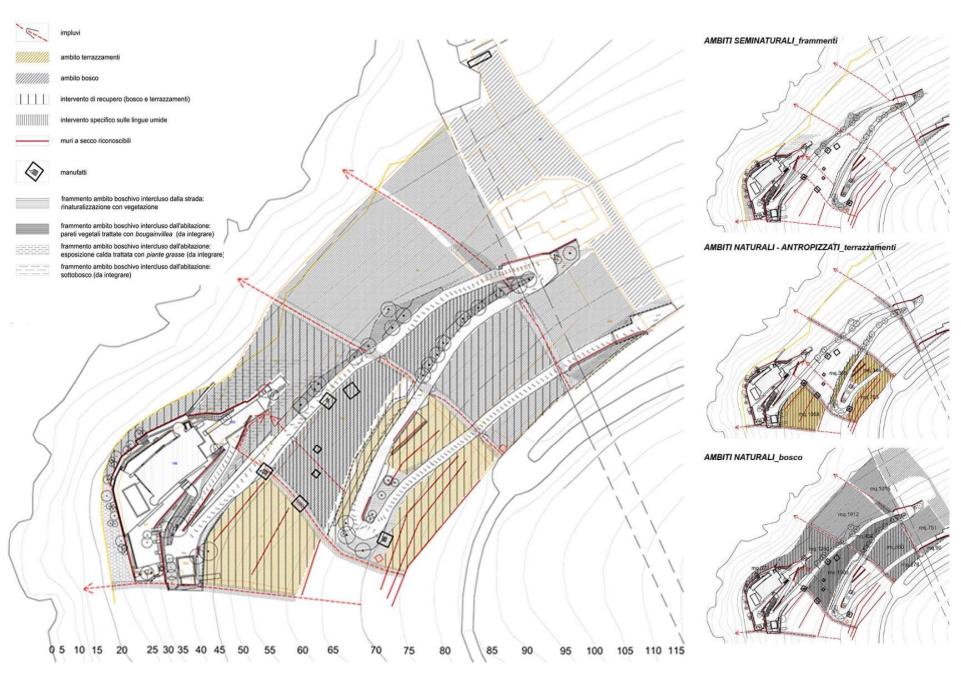
sistemazione spazi scoperti, tenuta e bosco a bonassola | La Spezia | 2006/11



sistemazione spazi scoperti, tenuta e bosco a bonassola | La Spezia | 2006/11



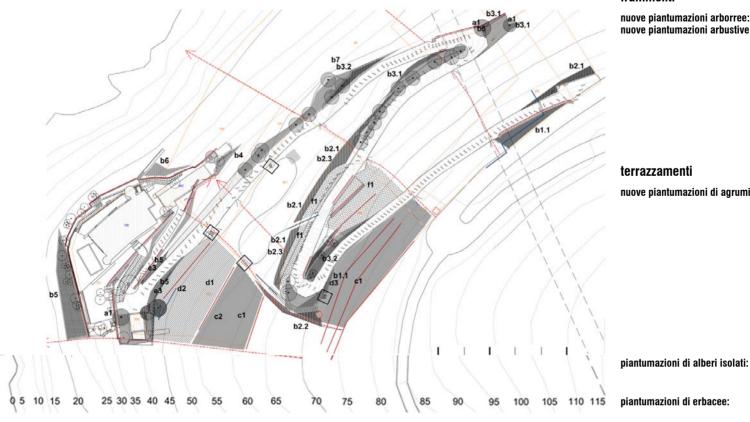












## frammenti

nuove piantumazioni arborree: nuove piantumazioni arbustive a1 Ceratonia siliqua **b1.1** Poncirus trifoliata

**b1.**2 Spartium junceum

**b2.1** Hippophae rhamnoides

**b2.2** Mirtus communis

**b2.3** Phillirea angustifolia b3.1 Erica arborea

b3.2 collection of Erica

**b4.1** collection of Cistus

**b5.1** collection of Succulents

**b6.1** mediterranean shrubs **b7.1** collection of Crocus

e1 Capparis spinosa

## terrazzamenti

nuove piantumazioni di agrumi:

c1 Citrus Limon Femminello Citrus Limon Sfusato Citrus limonimedica Citrus medica Citrus medica Etroa Citrus grandis Citrus paradisi

c2 Citrus aurantium Citrus sinensis "sanguineum" Citrus sinensis "Navelate"

Citrus sinensis "sanguinello" Citrus bergamia

Citrus myrtifolia

Citrus deliziosa "Tardivo of Ciaculli"

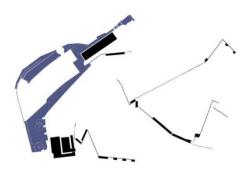
Citrus lumia "of Sarzana"

d1 Persica iulodermis

d2 Pirus malus finariensis

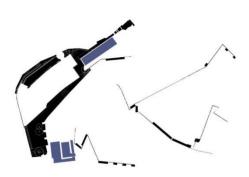
d3 Prunus padus piantumazioni di erbacee:

f1 collection of santoline

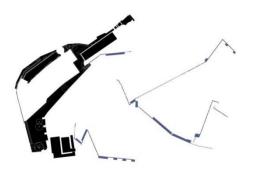


## **GLI INTERVENTI**

pavimentazioni in prossimità abitazione (+30 m. slm)

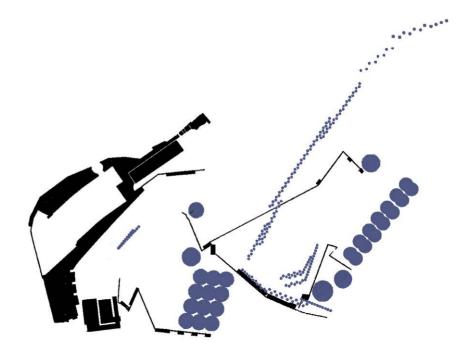


terrazze panoramiche (+40 / 47 m. slm)



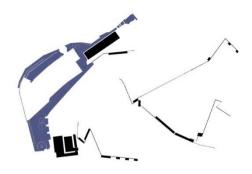
scale e percorsi in ambiti boschivi e terrazzati (+40 / 70 m. slm)

## minerali vegetali

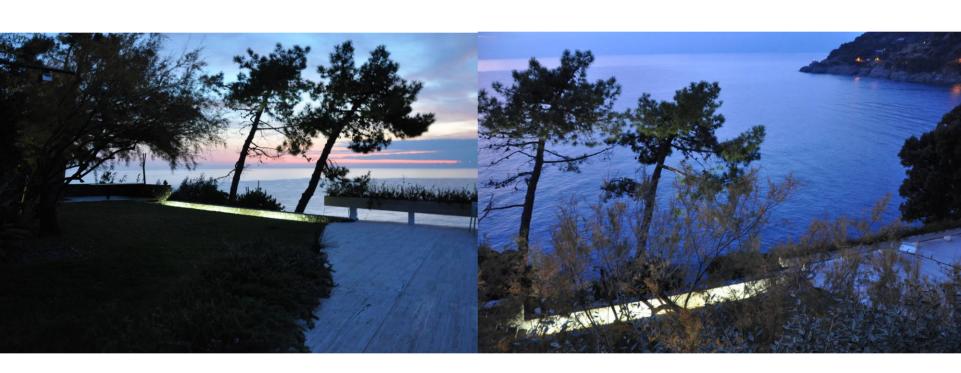


piantumazioni su terrazzamenti e frammenti (+40 / 75 slm)





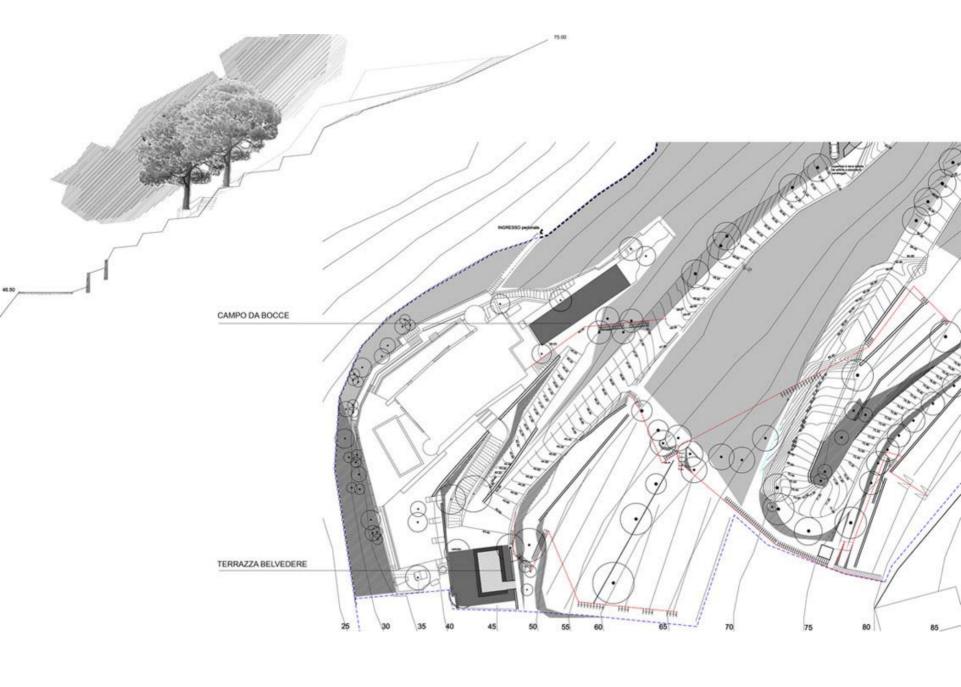
pavimentazioni in prossimità abitazione (+30 m. slm)

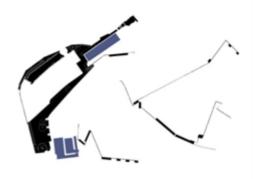












terrazze panoramiche (+40 / 47 m. slm)



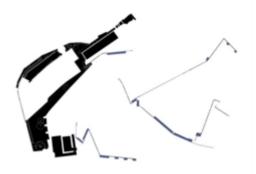












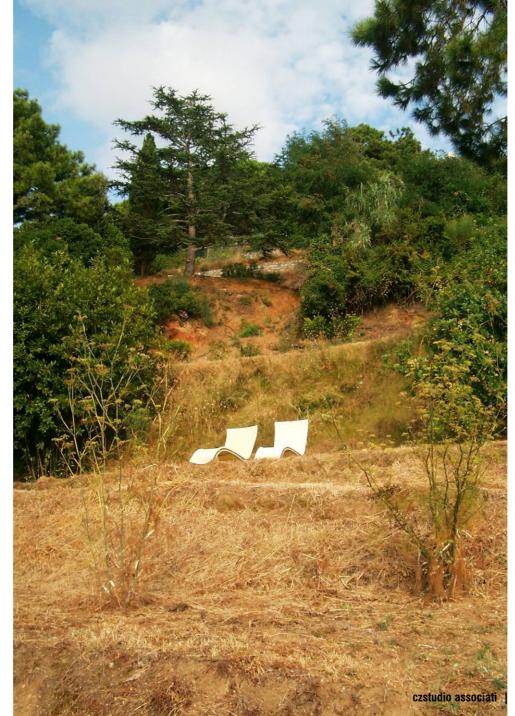
scale e percorsi in ambiti boschivi e terrazzati (+40 / 70 m. slm)



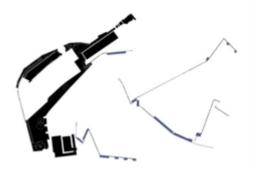








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scale e percorsi in ambiti boschivi e terrazzati (+40 / 70 m. slm)





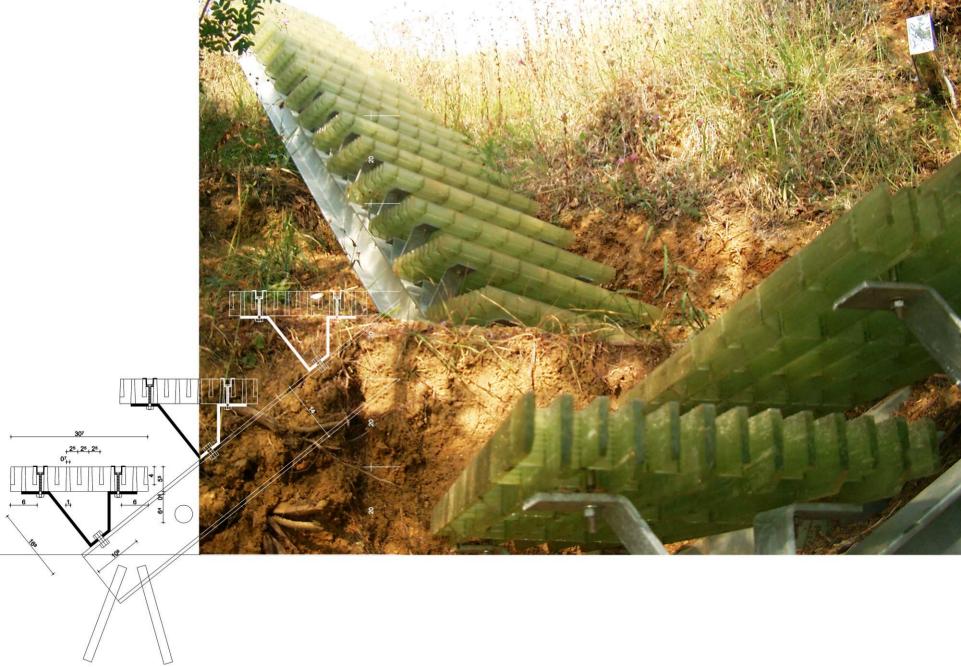








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paolo ceccon laura zampieri architetti



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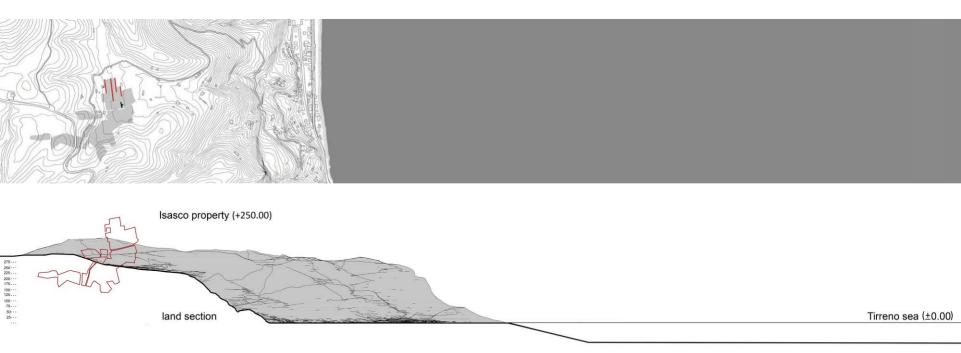


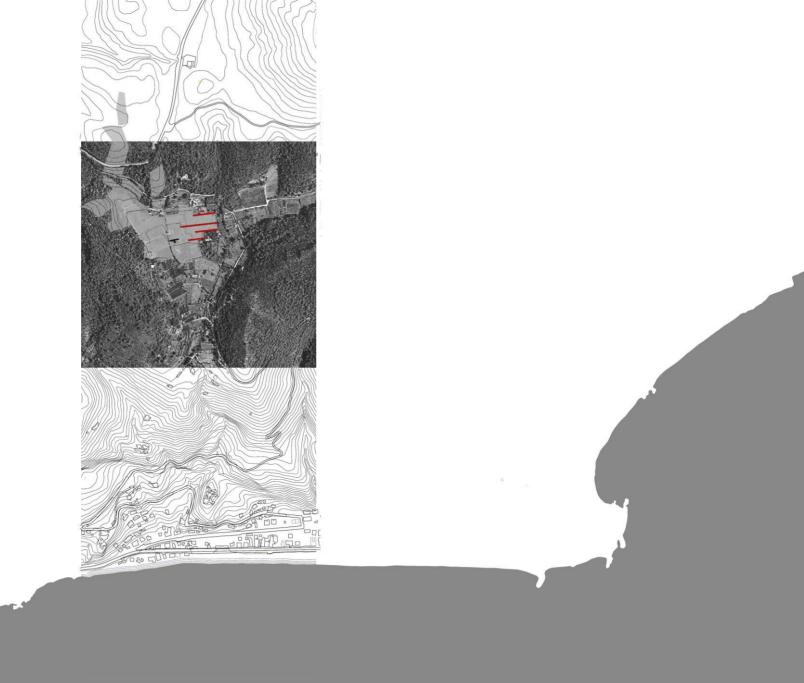


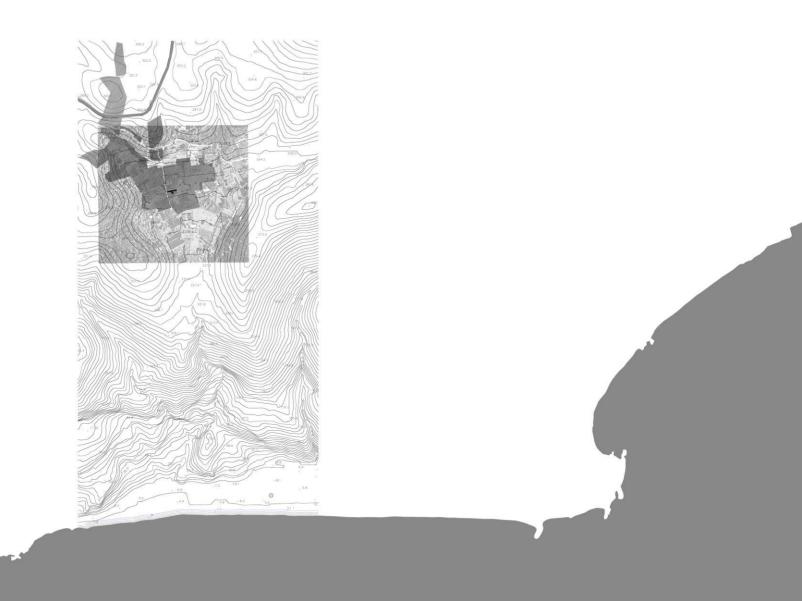


sistemazione spazi scoperti tenuta di isasco | Savona | 2004/07

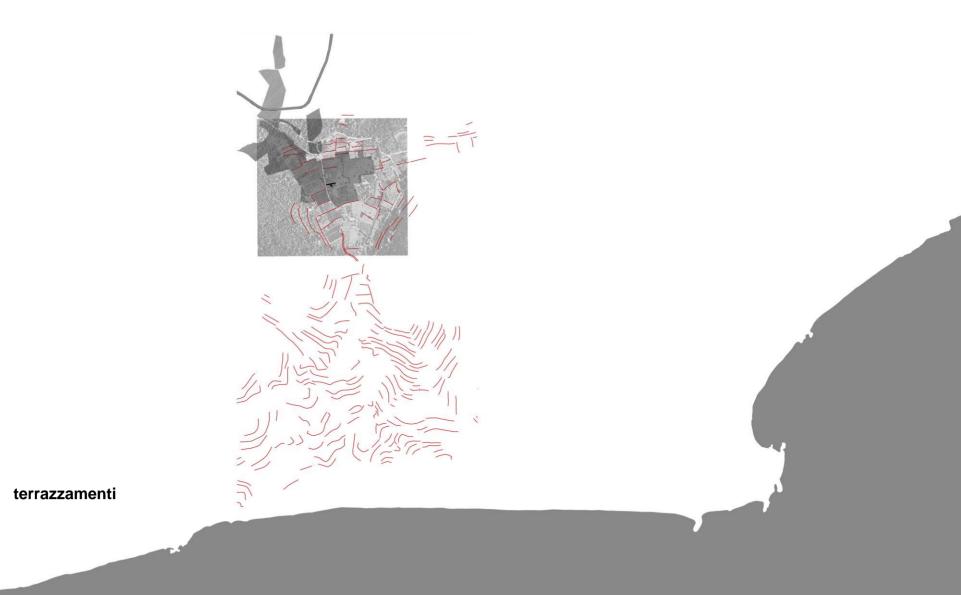








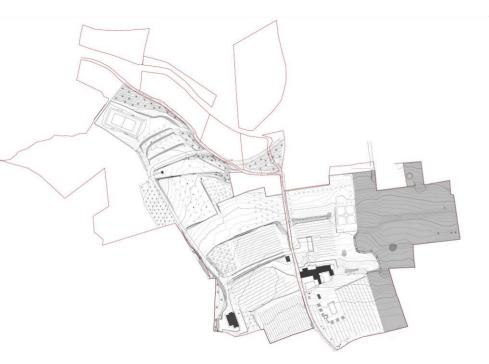
orografia





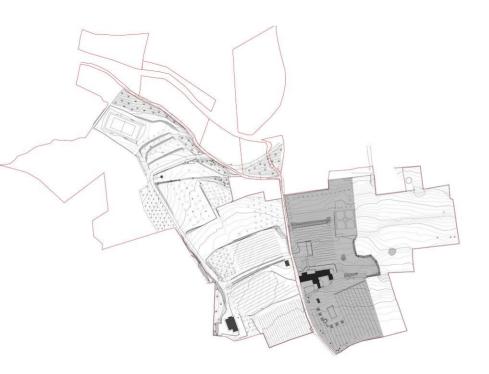
copertura boschiva





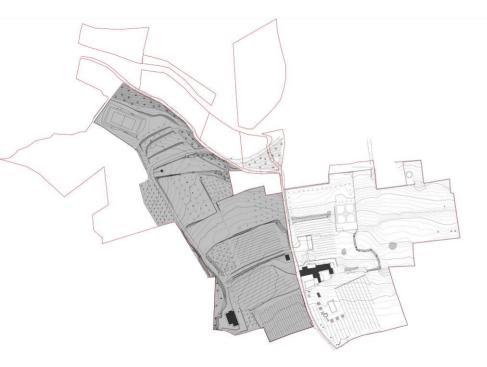


stato di fatto





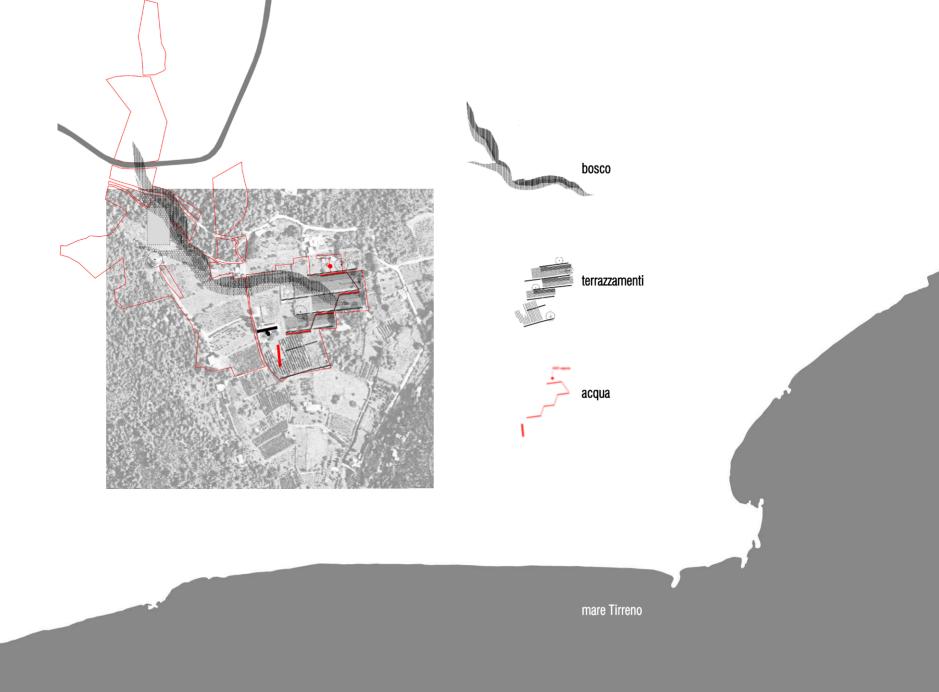
stato di fatto

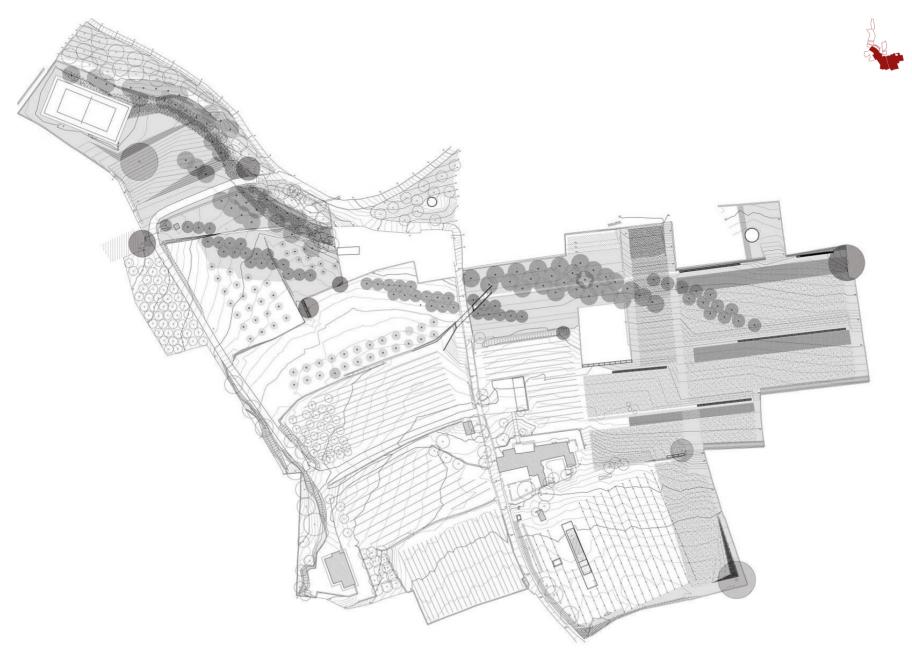




stato di fatto



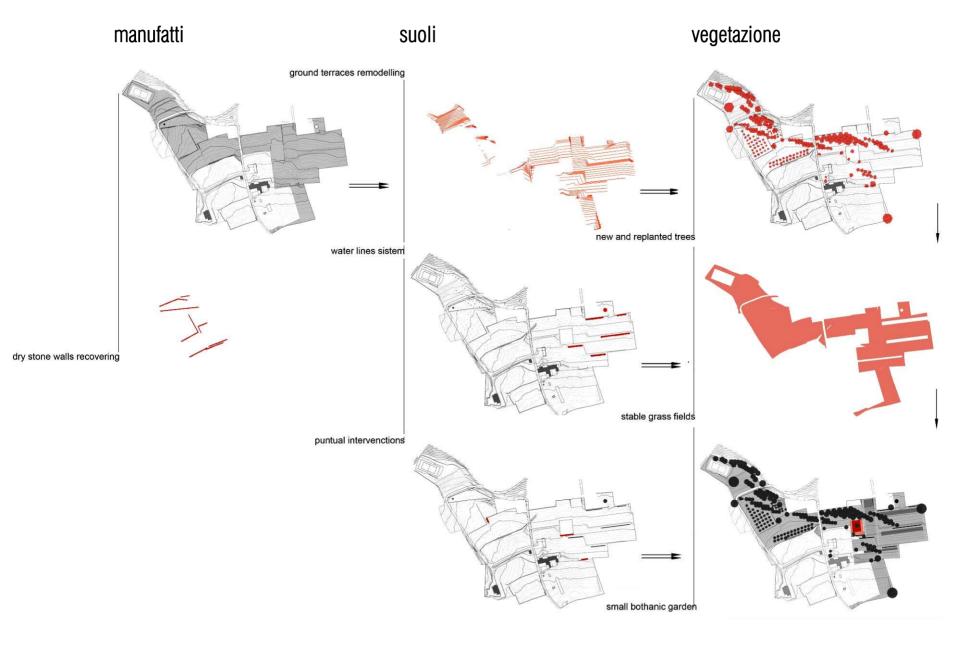


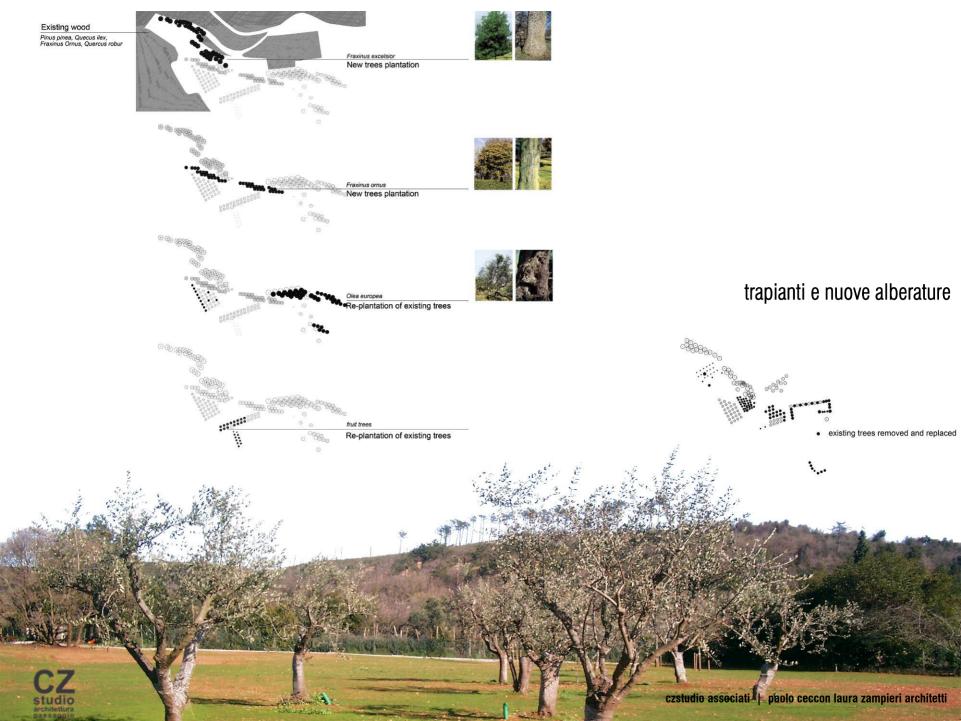


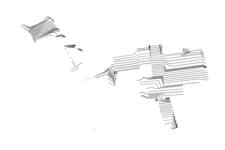






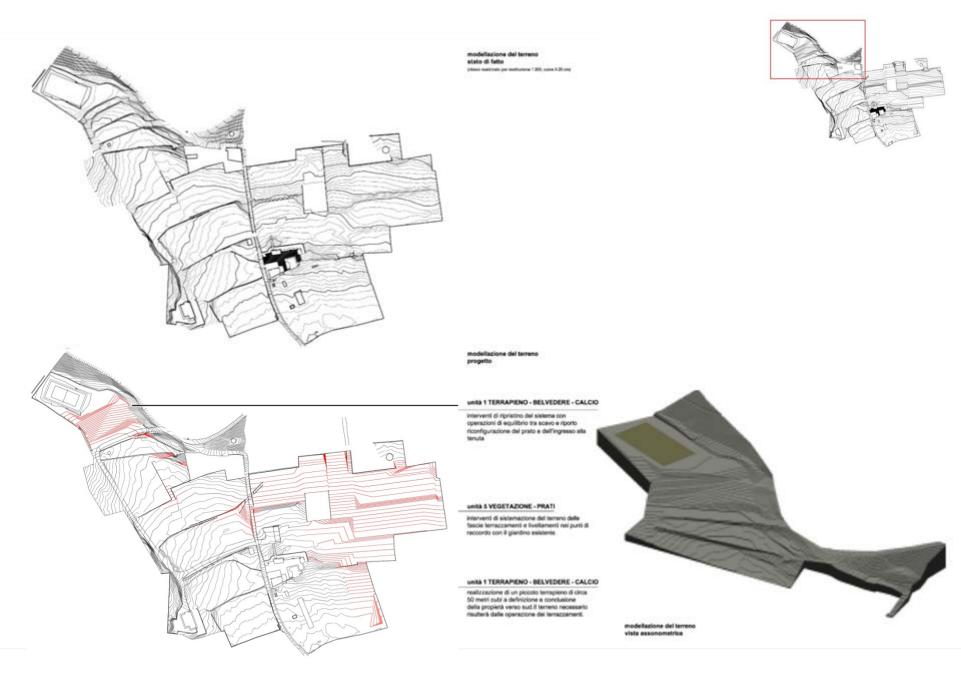


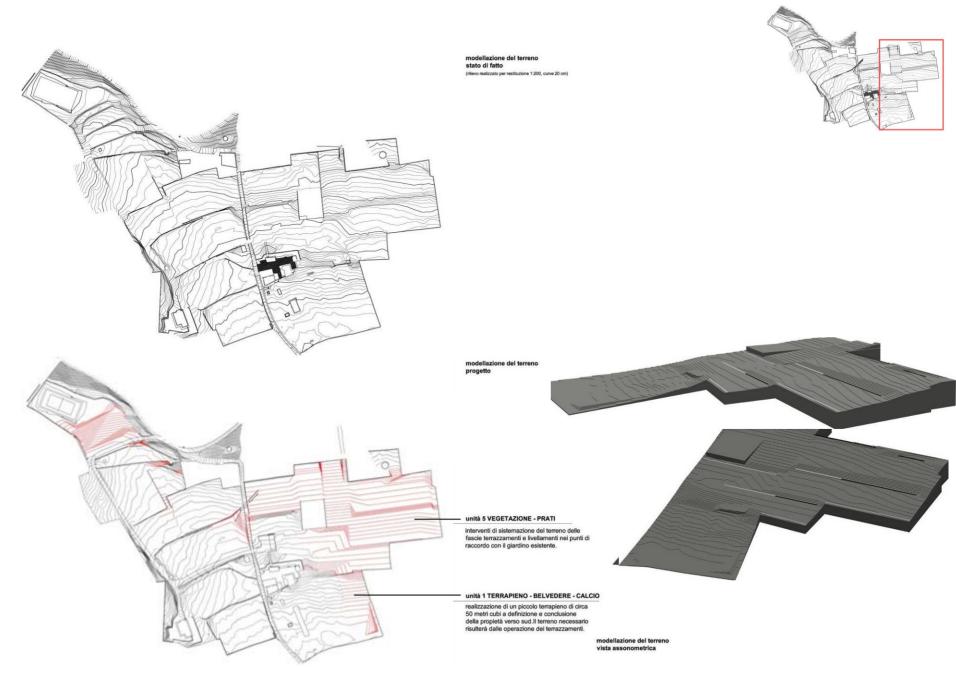




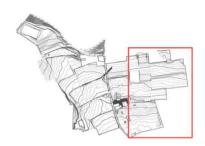
## rimodellazione dei suoli







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sezione prospettica sulle fasce - terrazze

linea d'acqua (circuito\_A) prato stabile monofita a

bande

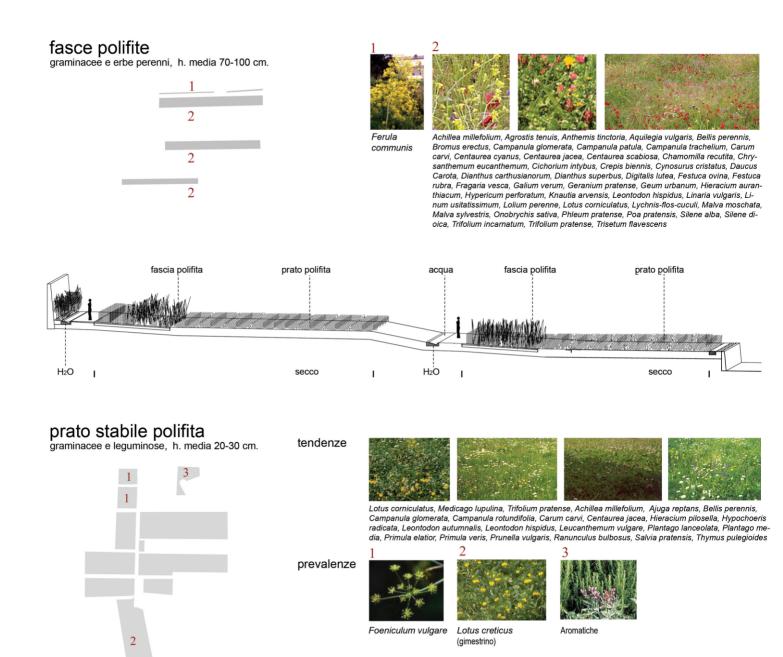
prato stabile polifita

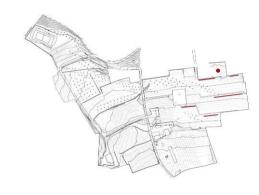
linea d'acqua (circuito\_A)

prato stabile monofita a bande prato stabile polifita

linea di ghiaia

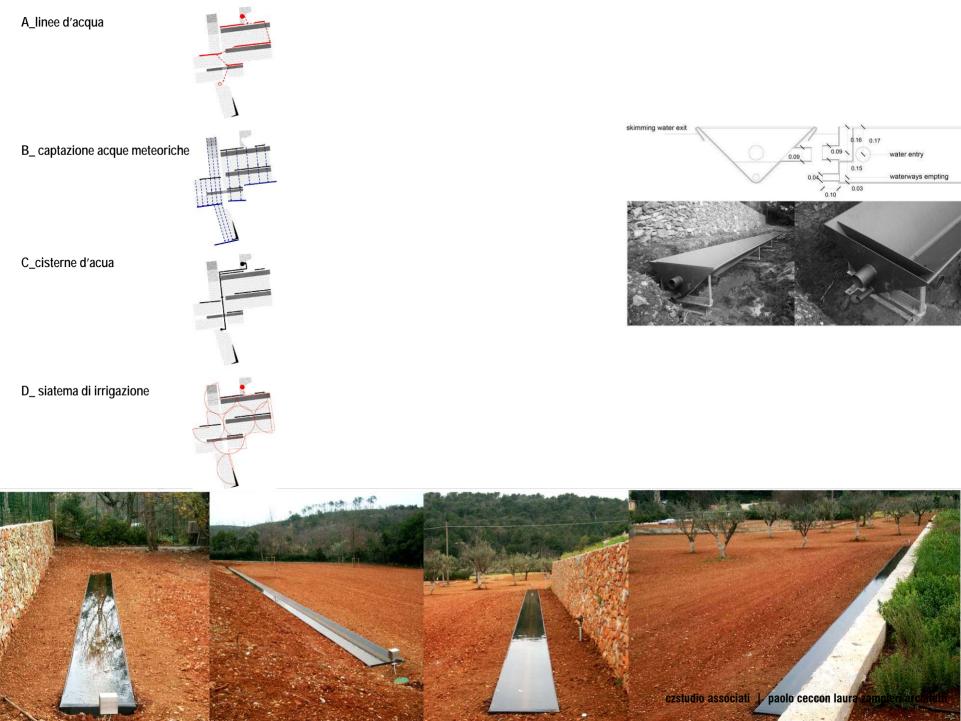
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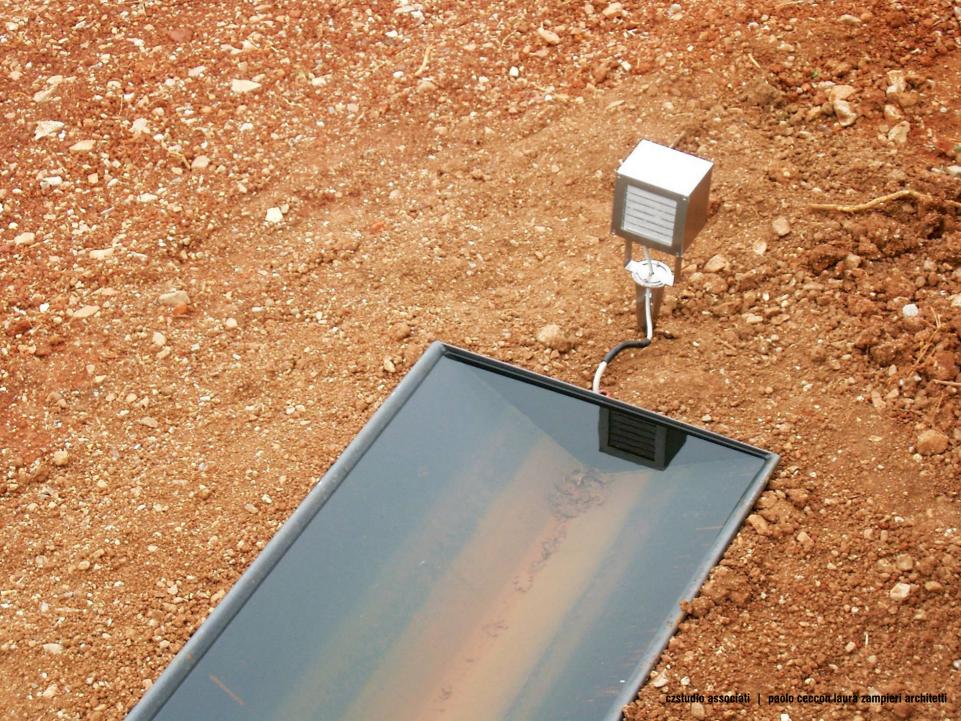
# linee d'acqua

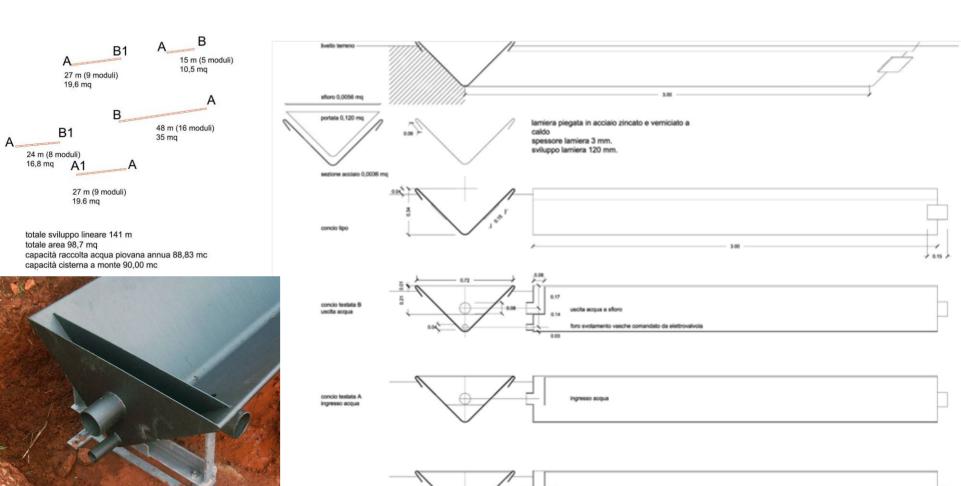








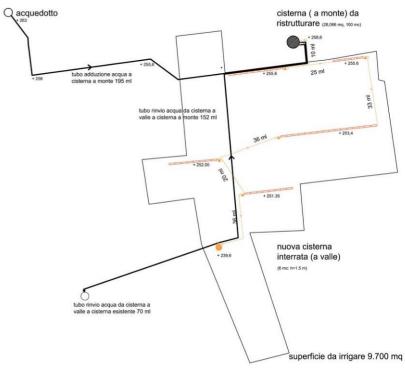


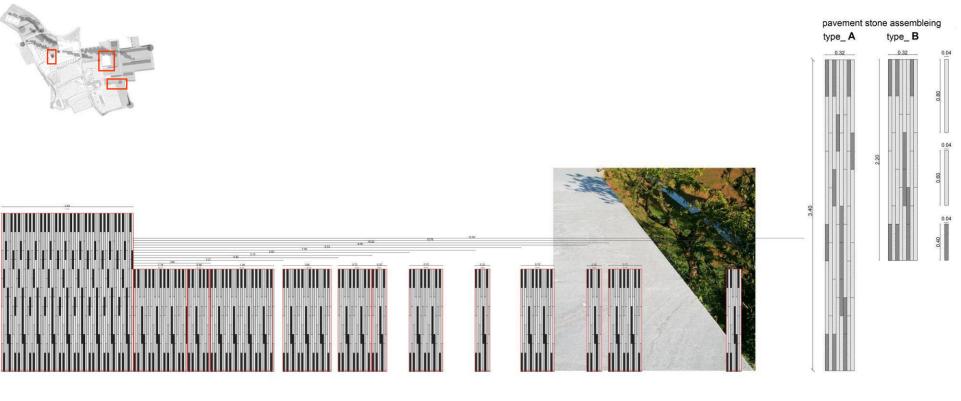


concio testata A1 ingresso / uscita acqua

foro svotamento vasche comandato da elettrovalvola





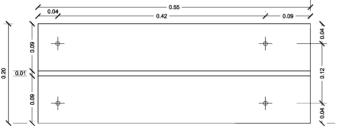




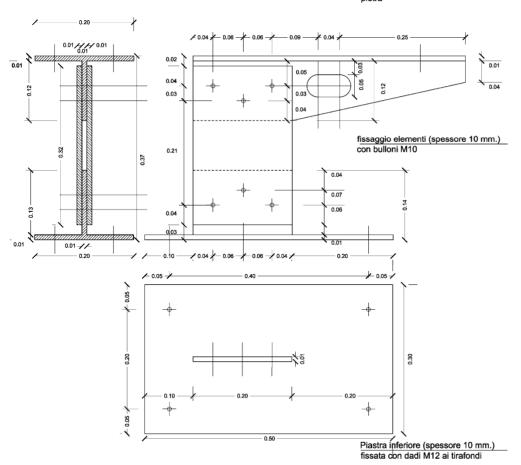
### staffe panca tipo A

#### (n. 5 staffe)

- n. 5 piastre (mm. 300x500x10) ognuna fissata attraverso 4 tasselli tipo 'fisher' alla piattaforma in cls preesistente,
- n. 10 piatti (mm. 200x320x10) con fori ovalizzati, imbullonati a coppia per singola staffa,
- n. 30 bulloni (6 per staffa)
- n. 5 mensole con anima sagomata (spessore 10 mm.) con fori ovalizzati ed ala con fori per fissaggio piane di pietra.



Piastra superiore (spessore 10 mm.) fissata con bulloni M12 alle piane di pietra





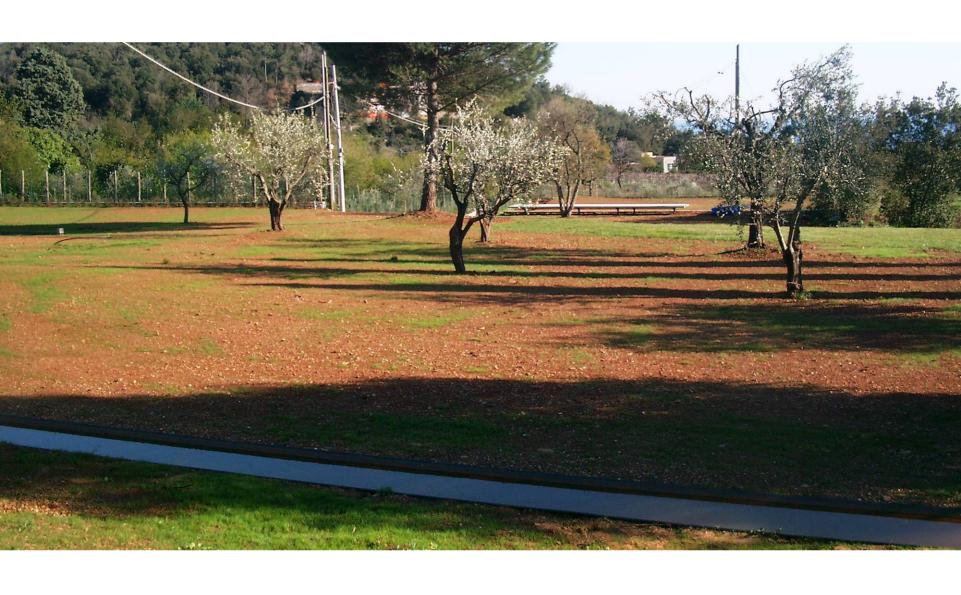


















## \_VEGETAZIONE E FIORITURE STAGIONALI:

