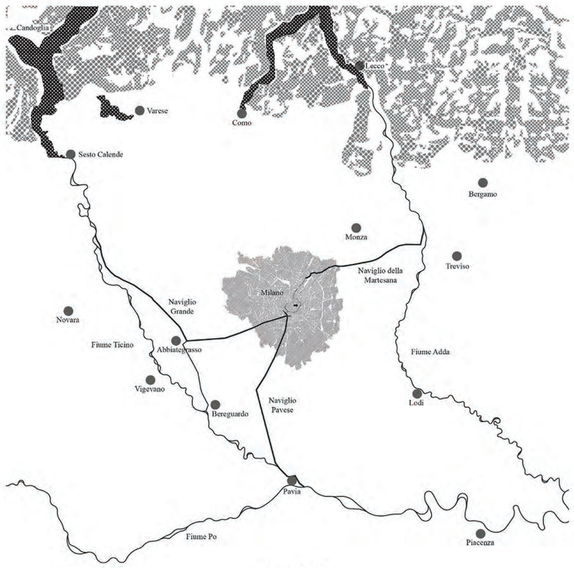


Ecologie territoriali

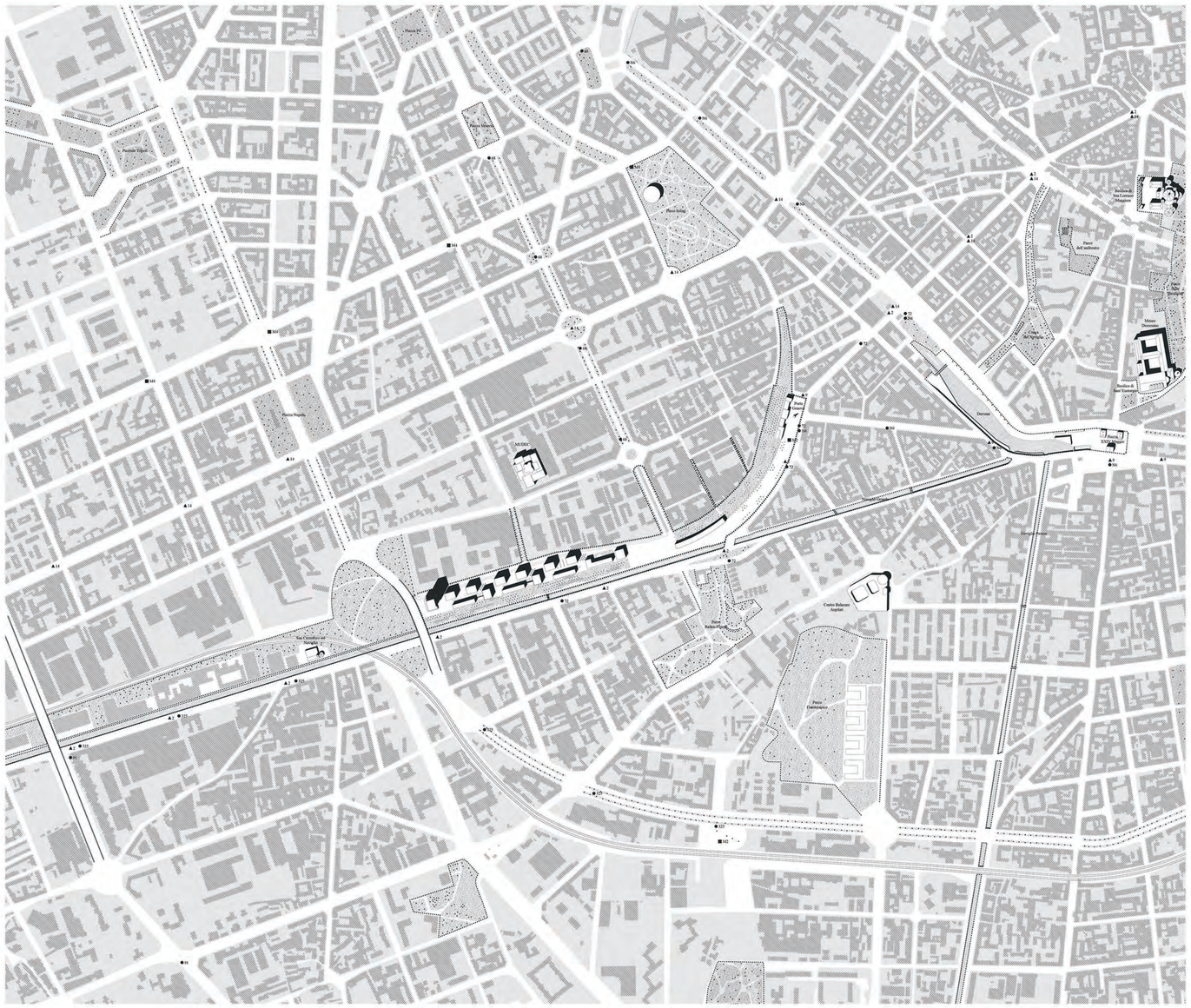
1. Parco Sempione 38ha - 2. Orti Botanici di Brera - 3. giardini Peregо 0,42ha - 4. giardini pubblici Indro Montanelli, giardini di Villa Belgiojoso Bonaparte 18ha 5. villa Necchi Campiglio 0,16ha - 6. giardino Della Guastalla 1,2ha - 7. parco delle Basiliche 2,45ha - 8. parco Archeologico 0,5ha - 9. parco Solari 4,3ha 10. parco Pallavicino 8,70ha - 11. giardino Valentino Bompiani - 12. parco CityLife 17ha - 13. Cimitero Monumentale 25ha - 14. giardini di Porta Nuova 9ha 15. parco Formentano 7,2ha - 16. parco Alessandrini 6,6ha - 17. parco Ravizza 3,8ha - 18. parchi del quartiere Ravizza 16ha - 19. parco Baravalle 3,3ha - 20. parco Argelati 3,5ha - 21. parco Fisioterapico 4,2ha - 22. parco del Portello 6,5ha - 23. parco Monte Stella 77ha - 24. parco di Trenno e Ippodromo 59ha - 25. BoscoinCittà 110ha - 26. parco delle Cave 135ha - 27. cimitero Maggiore 67ha - 28. parco di Villa Scheibler 14,8ha - 29. parco Franco Verga 20ha - 30. parco di Villa Litta Modignani 76,4ha - 31. parco Nord Milano 640ha - 32. Collina dei Ciliegi 30ha - 33. parco di Villa Finzi 51,3ha - 34. parco Martesana 15,6ha - 35. parco Trotter 10ha - 36. parco Lambro 77,3ha - 37. Parco Forlanini 75ha - 38. parco Milano Santa Giulia 4,5ha - 39. parco Cassinis 10ha - 40. parco della Valle della Vettabbia 37ha - 41. parco Cerba 20ha - 42. parco Agricolo del Ticinello 88ha - 43. parco Agricolo Sud Milano 46300ha - 44. parco Cascina Caimera 7ha - 45. parco Teramo Baronia 9,7ha - 46. parco Fontanili e Calchi Taeggi 12,5ha - 47. parco Bisceglie e parco del Cardellino 6ha

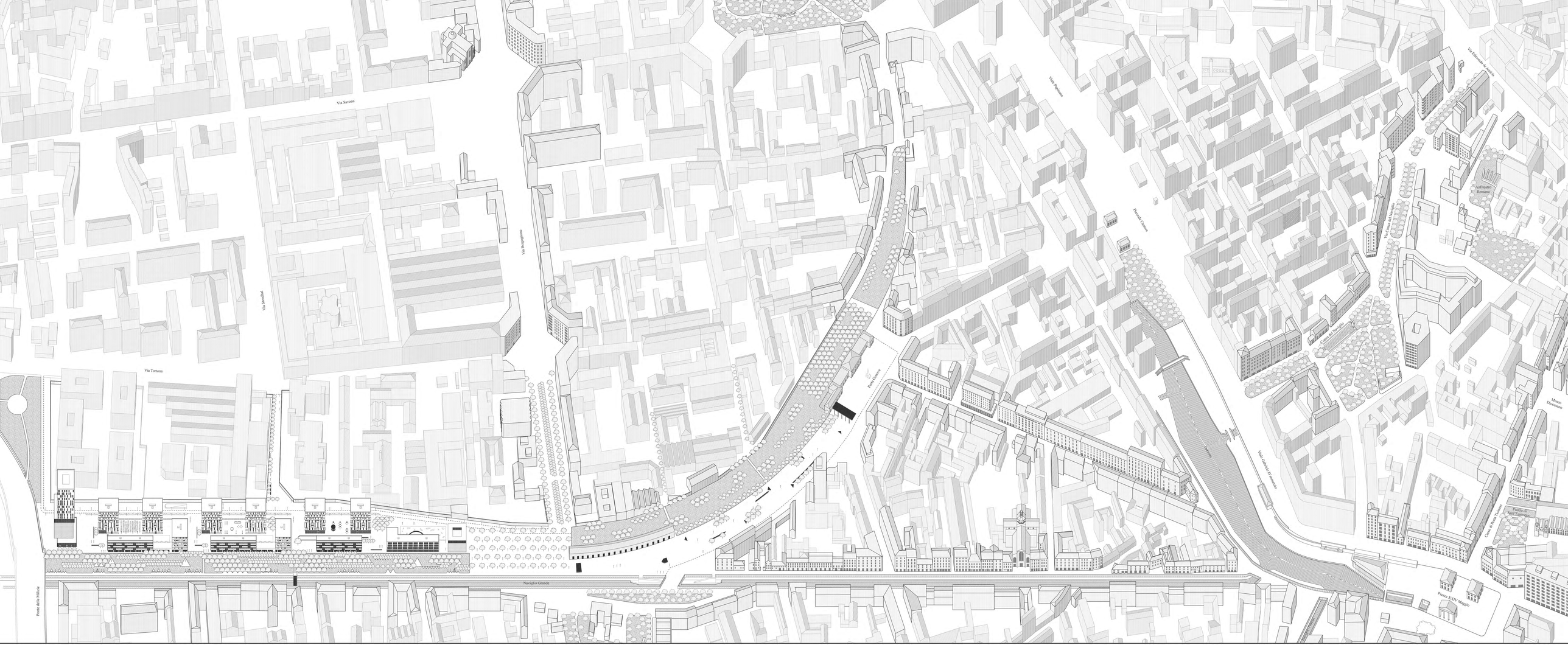
Il sistema dei parchi

Il sistema delle alberate

Bus 68 - Bonola/Via Bergognone - **Bus 74** - Famagosta/P.le Cantore - **Bus 91** - Isonzo/Lotto - **Bus 325** - Romolo/Corsico - **Bus N6** - Cadorna/Staz. Centrale
Tram 19 - P.za XXIV Maggio/Rosetta - **Tram 2** - Bausan/P.le Negrelli - **Tram 14** - Lorenteggio/Cimitero Maggiore **Tram 9** - P.za Genova/Staz. Centrale
M2 - Cologno Nord, Gessate/Assago Forum, Abbiategrasso **M4** - San Cristoforo/Aeroporto di Linate

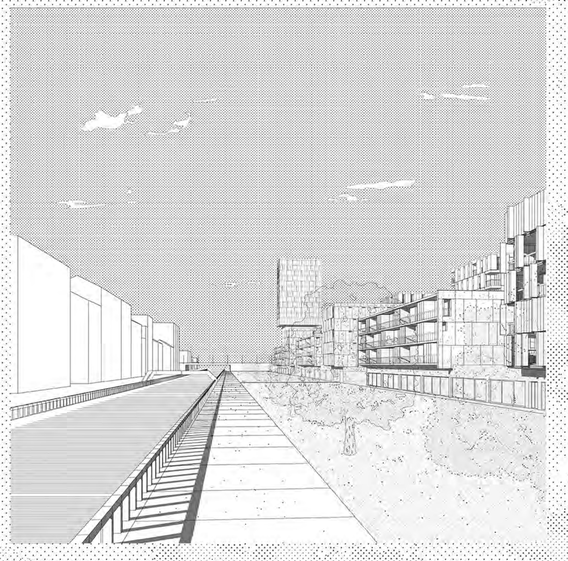
Il sistema dei trasporti pubblici

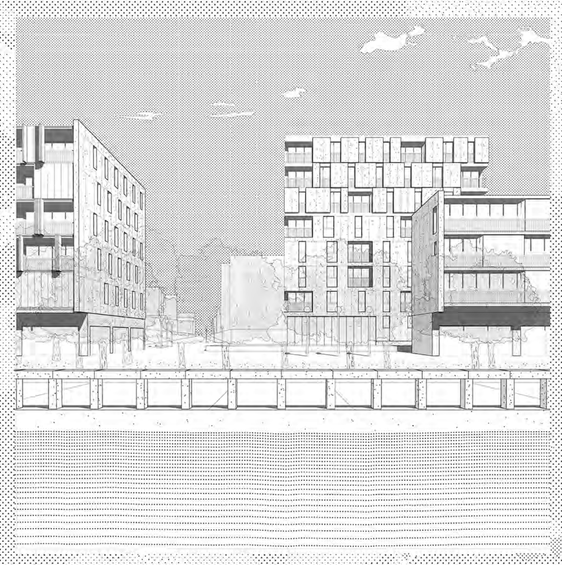

Piazza Sempione
Parco Sempione
Arco della Pace
Piazza Castello
Castello Sforzesco
Piazza Napoli
Piazza Duomo
Piazza Cordusio
Piazza Scala
Piazza Meda
Piazza Missori
Piazza Fontana
Piazza Diaz
Piazza Cavour
Piazza Belgioioso
Piazza Liberty
Piazza Oberdan
Piazza Repubblica
Piazza Lima
Piazza Argentina
Piazza Tricolore
Piazza Sempione
Piazza Duca d'Aosta
Piazza Gae Aulenti
Piazza Sigmund Freud
Piazza Trento
Piazza Trieste
Piazza Tre Torri
Piazza Giulio Cesare
Piazza Amendola
Piazza Buenos Aires
Piazza Lodi
Piazza Ferrara
Piazza Vetra
Piazza Vittoria
Piazza Medaglie d'Oro
Piazza Ascoli
Piazza Susa
Piazza Bologna
Piazza Abbiategrasso
Piazza Tirana
Piazza Ventiquattro Maggio
Piazza Vigevano

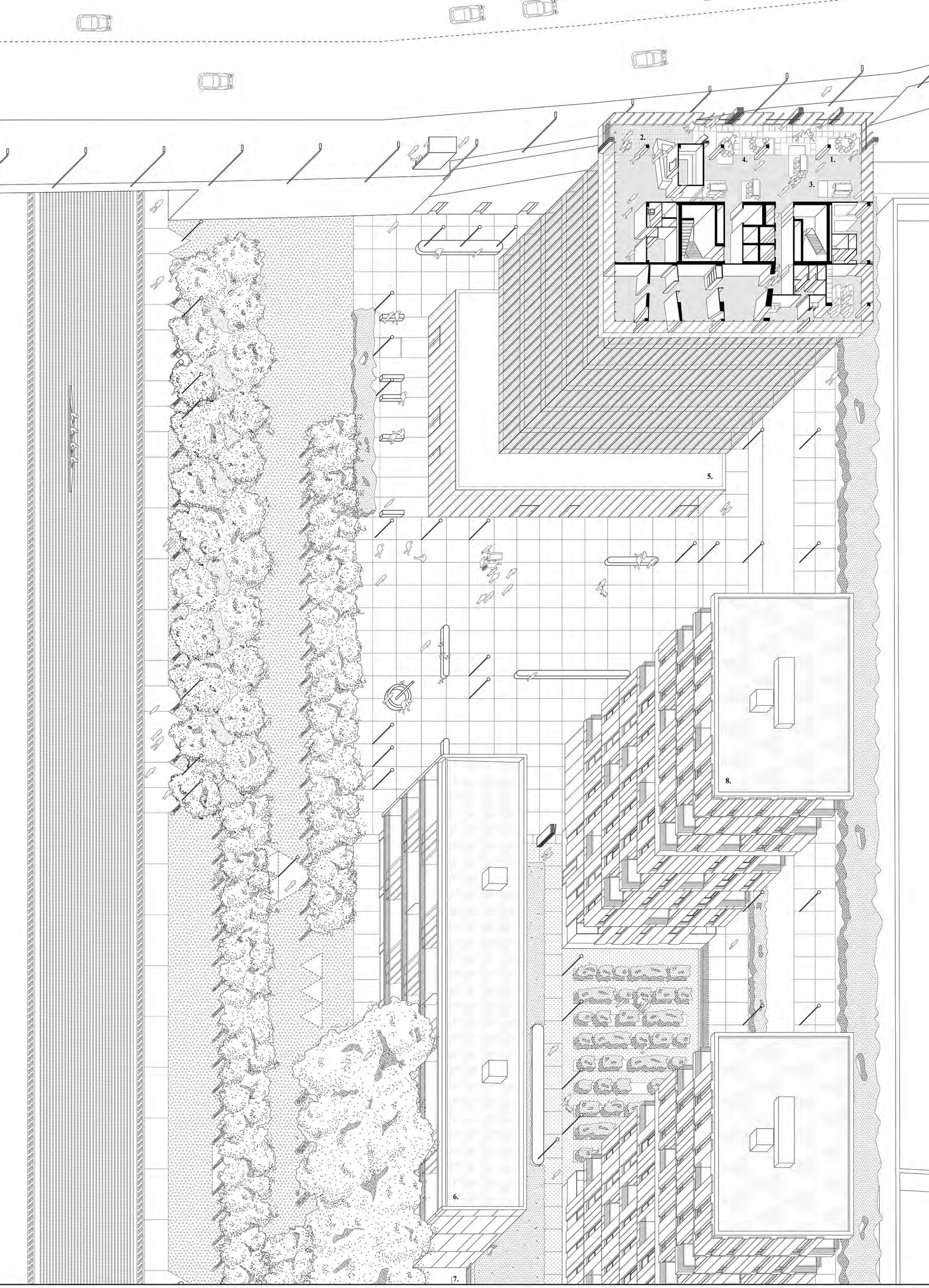


LA CITTÀ SULL'ACQUA

- Riqualificazione dell'ex area ferroviaria di Milano Porta Genova - D'Alessandro Neri 817137, Leoni Jacopo 817161, Mossa Emilio 816357, Nava Giacomo 816741 - Relatore: Barazzetta Giulio Massimo - Politecnico di Milano, Laurea Magistrale in Architettura delle Costruzioni - Anno Accademico 2014/15 -



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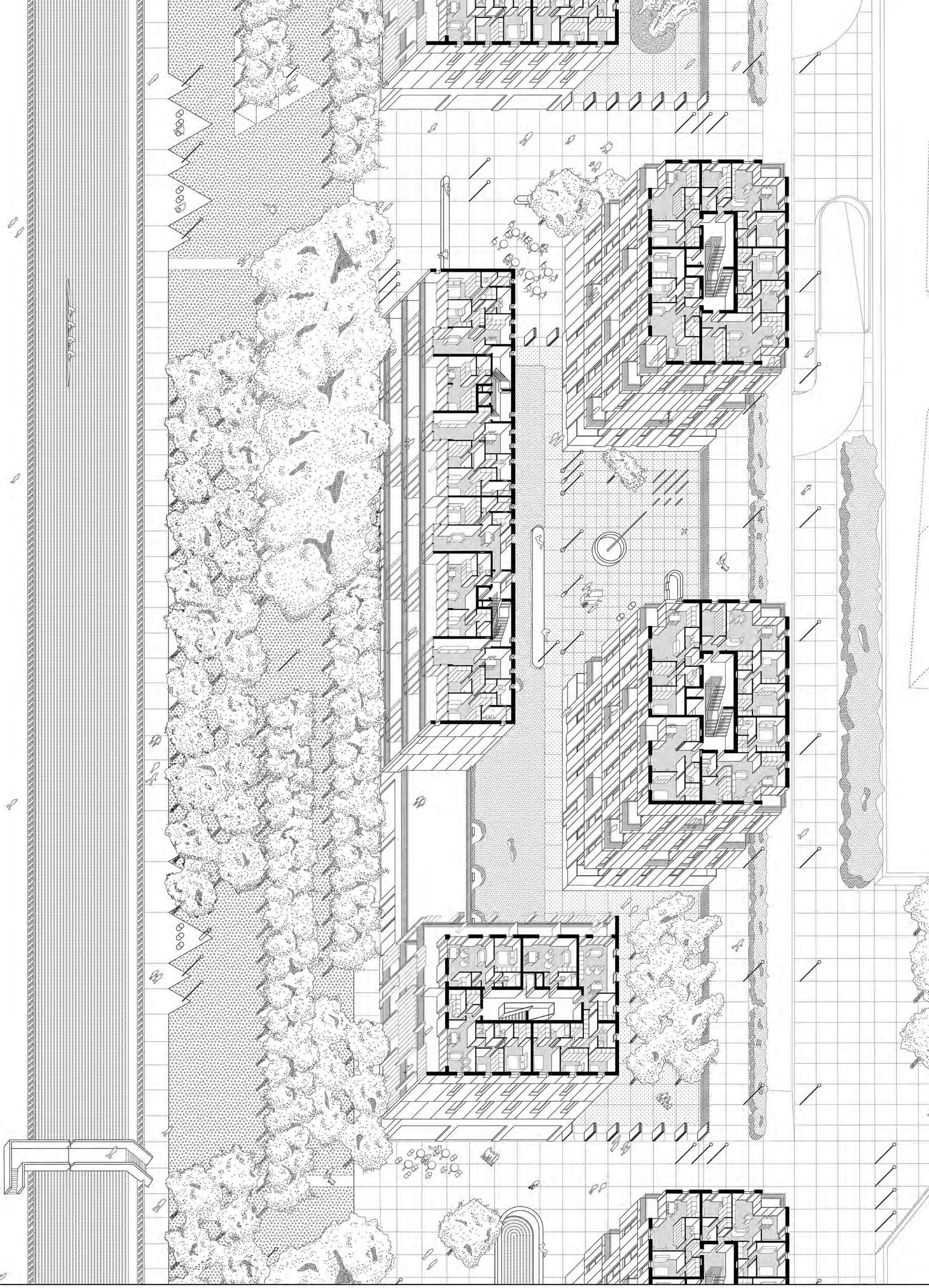

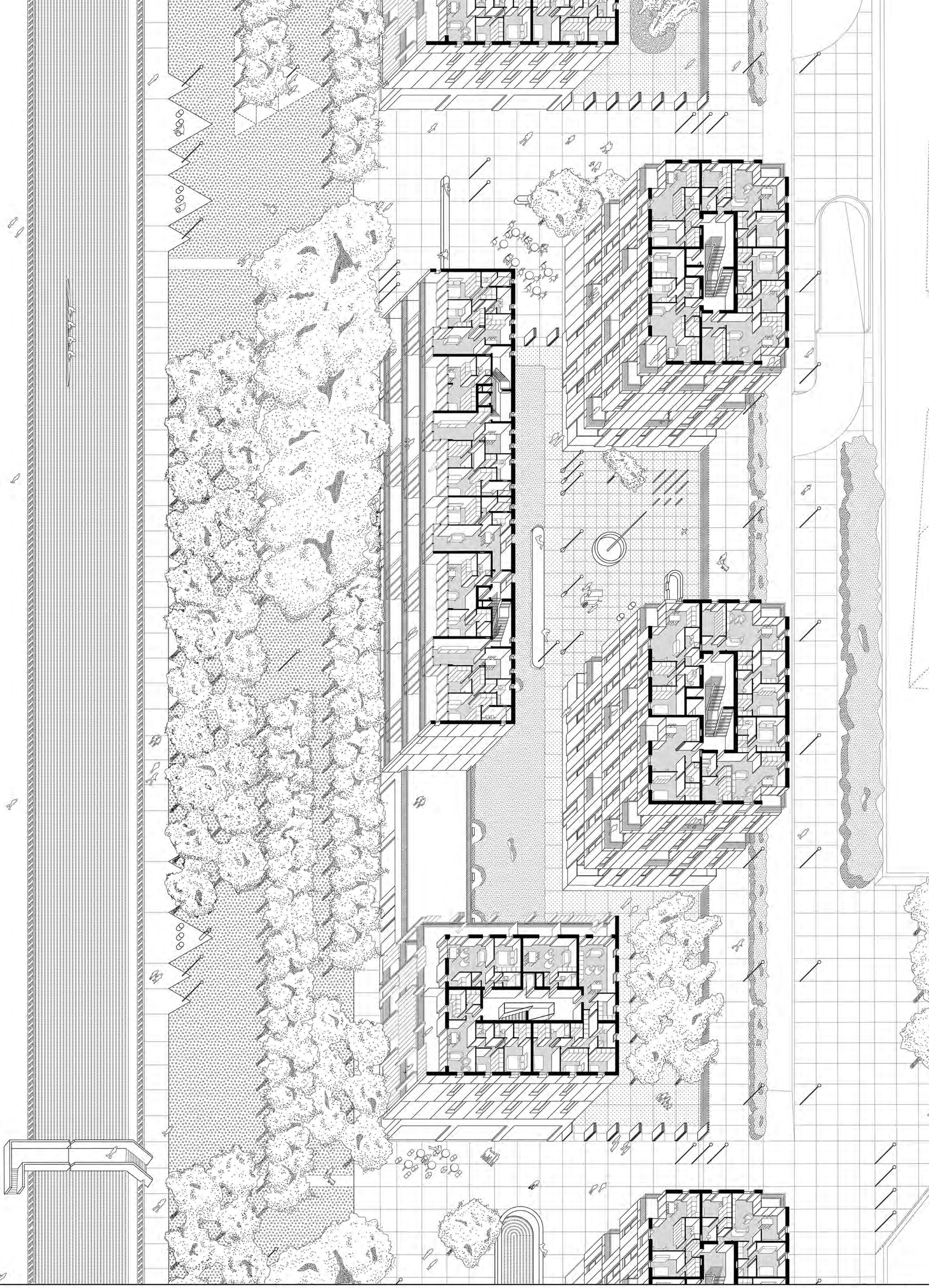

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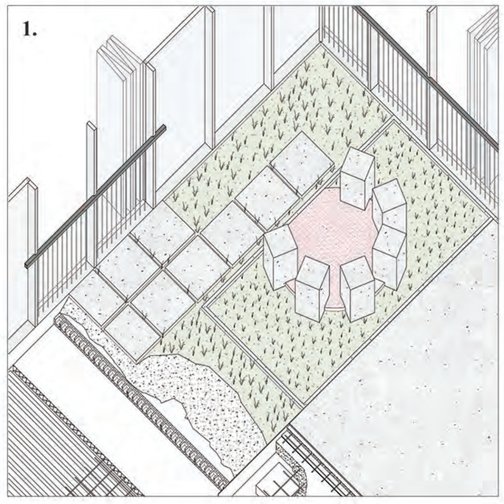

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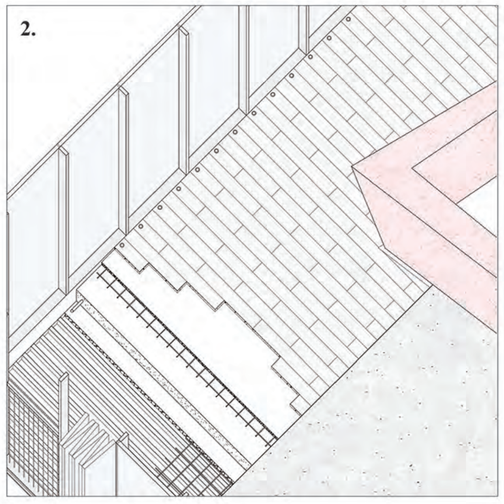

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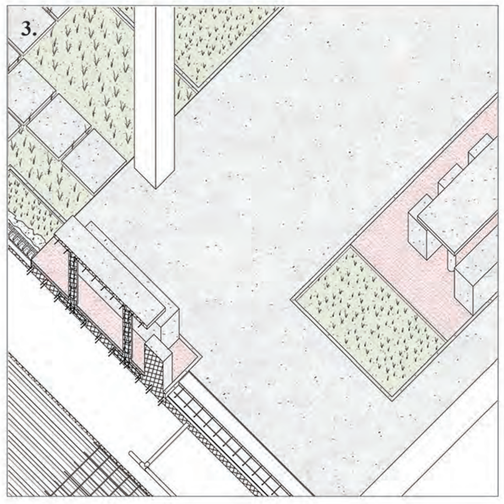

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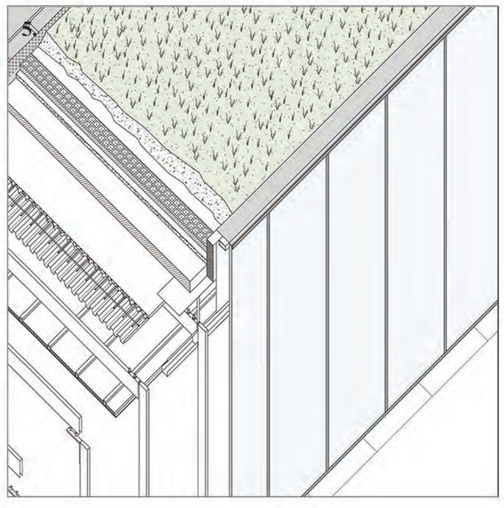

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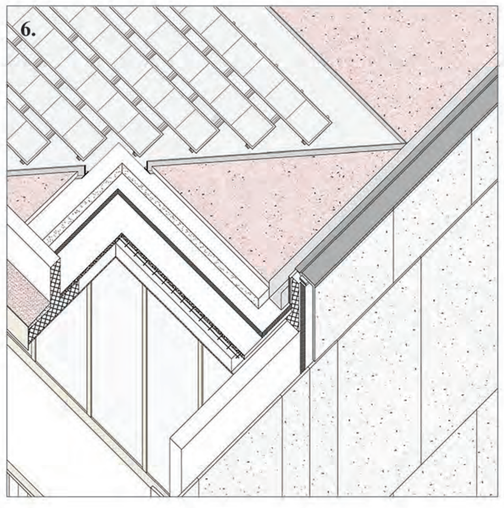

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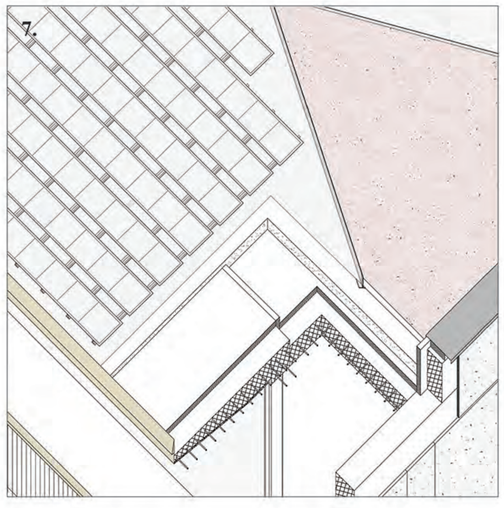

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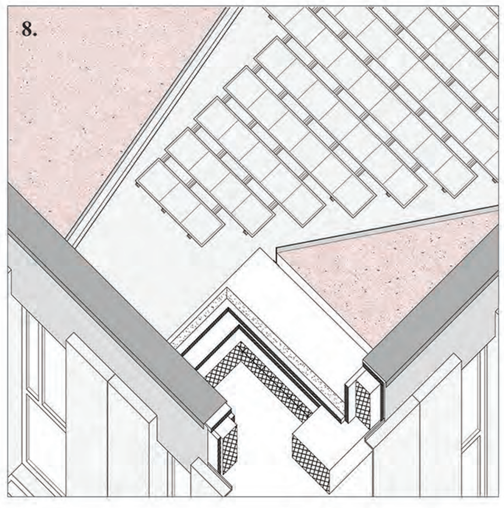

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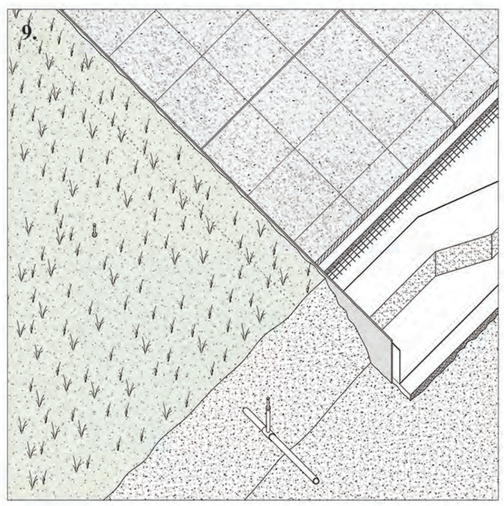

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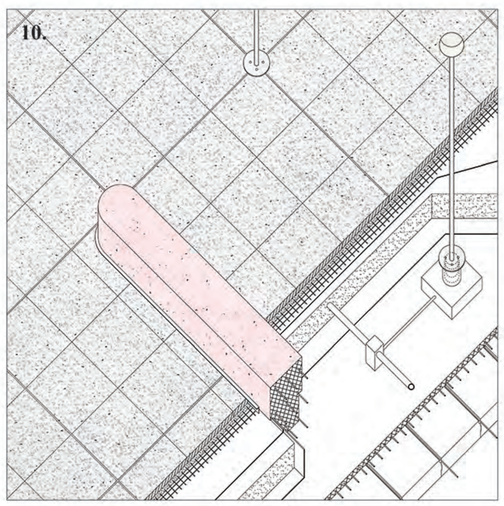

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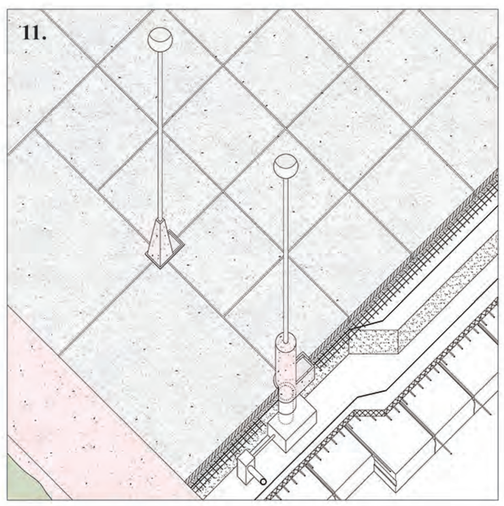

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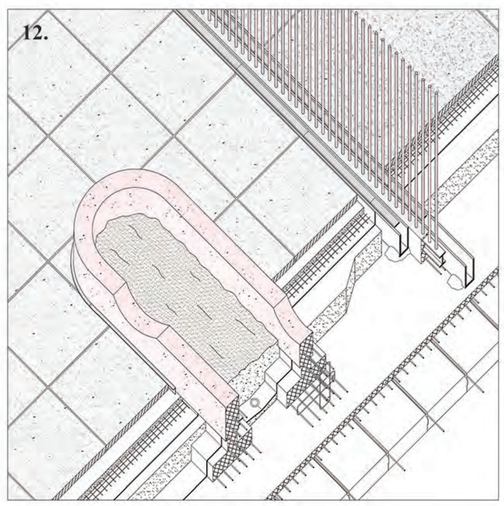

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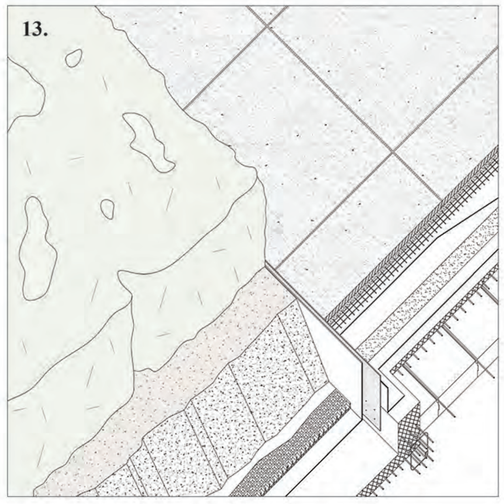

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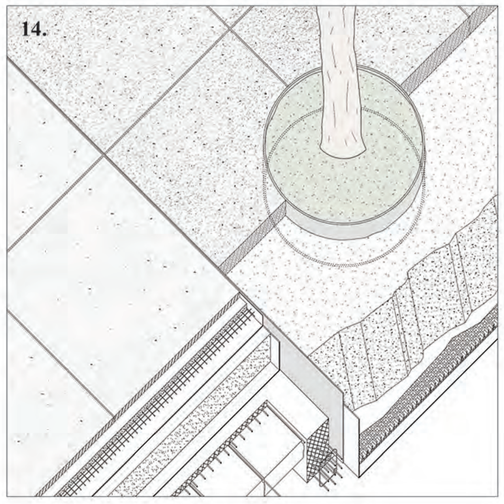

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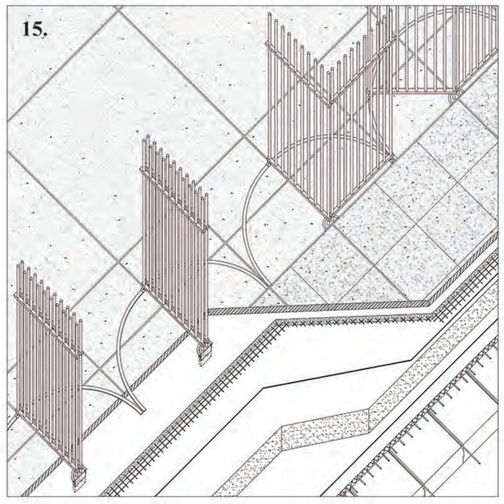

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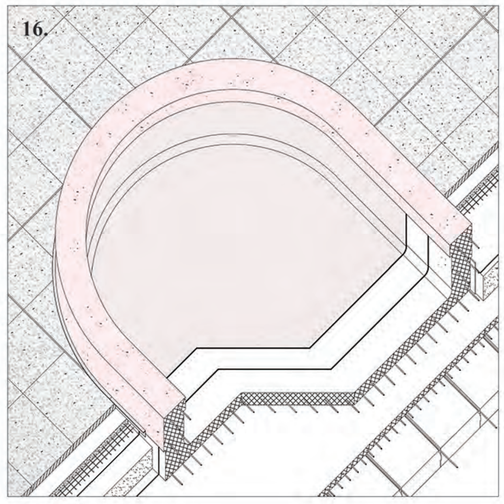
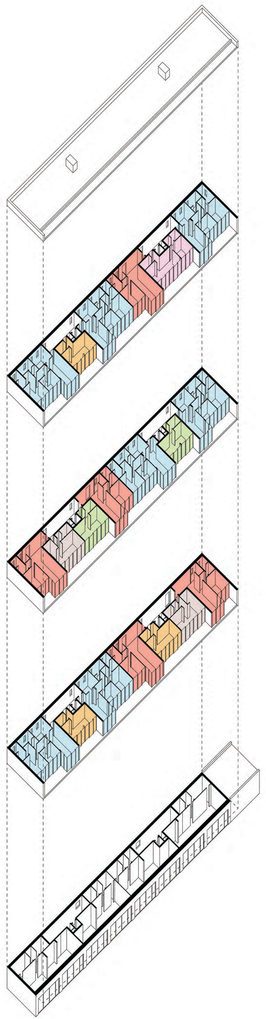


I

II

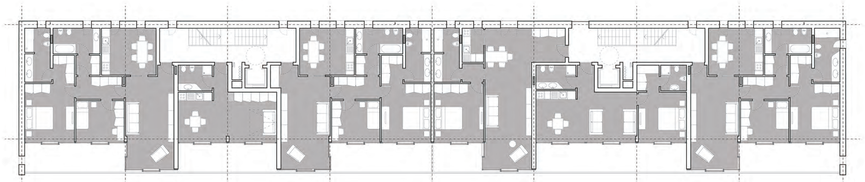
III

IV



distribuzione tipologie

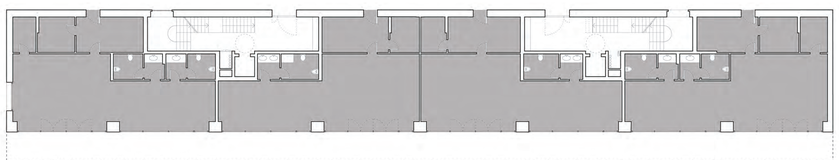
tipologie



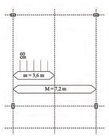
terzo piano

secondo piano

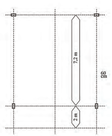
primo piano



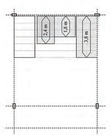
piano terra



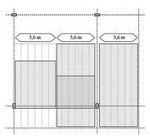
moduli e sottomoduli



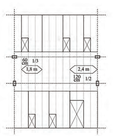
passo strutturale



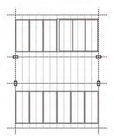
spazi serventi



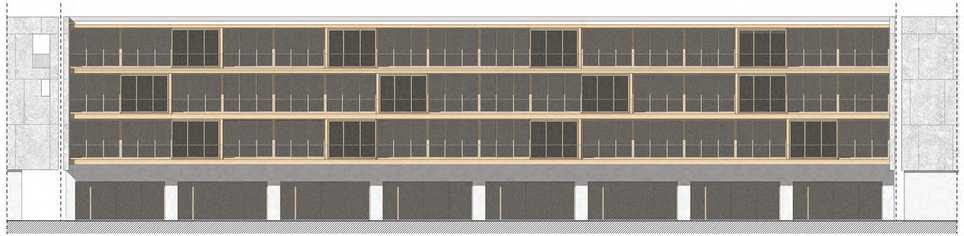
spazi serviti



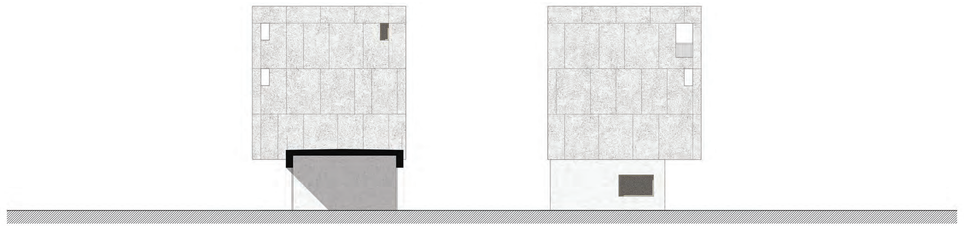
rapporto interno-Nord



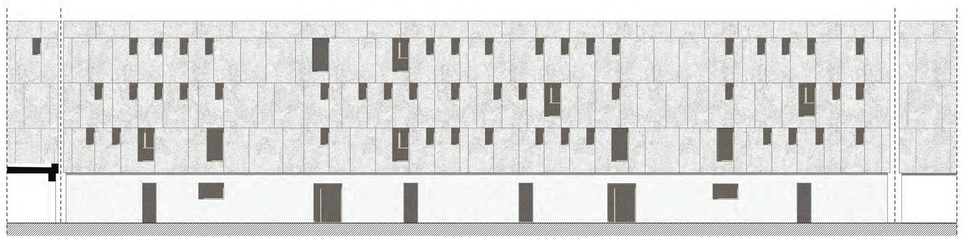
rapporto interno-Sud



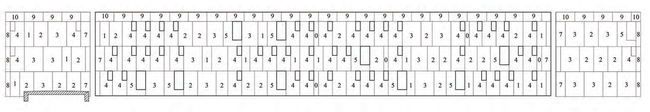
prospetto Sud



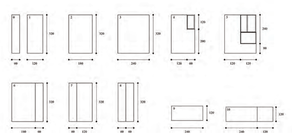
prospetto Est *prospetto Ovest*



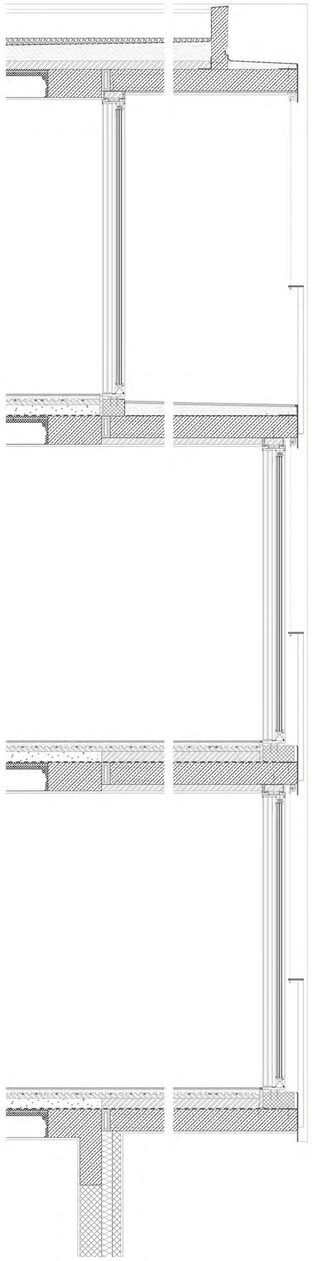
prospetto Nord



Abaco Prospetti



Sezione



DETTAGLIO
SUD
1
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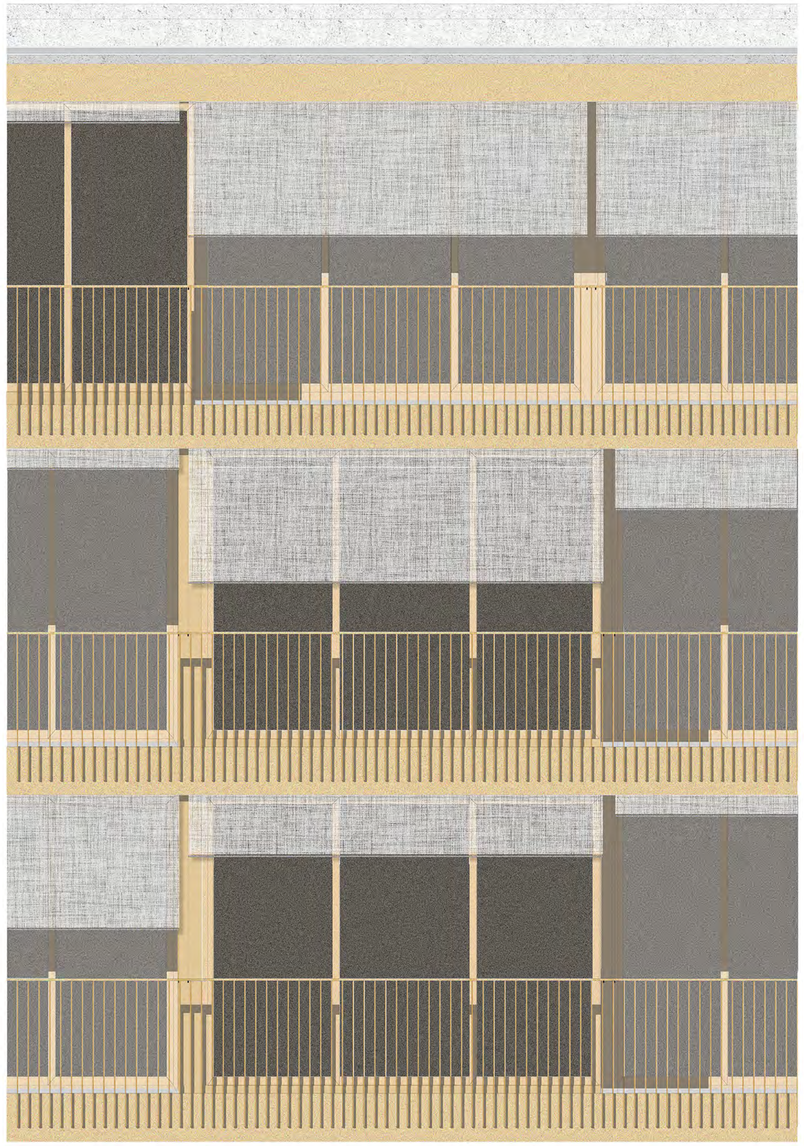
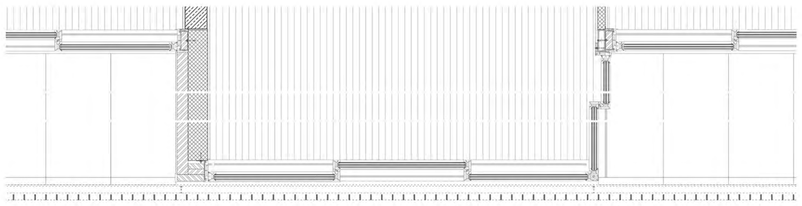
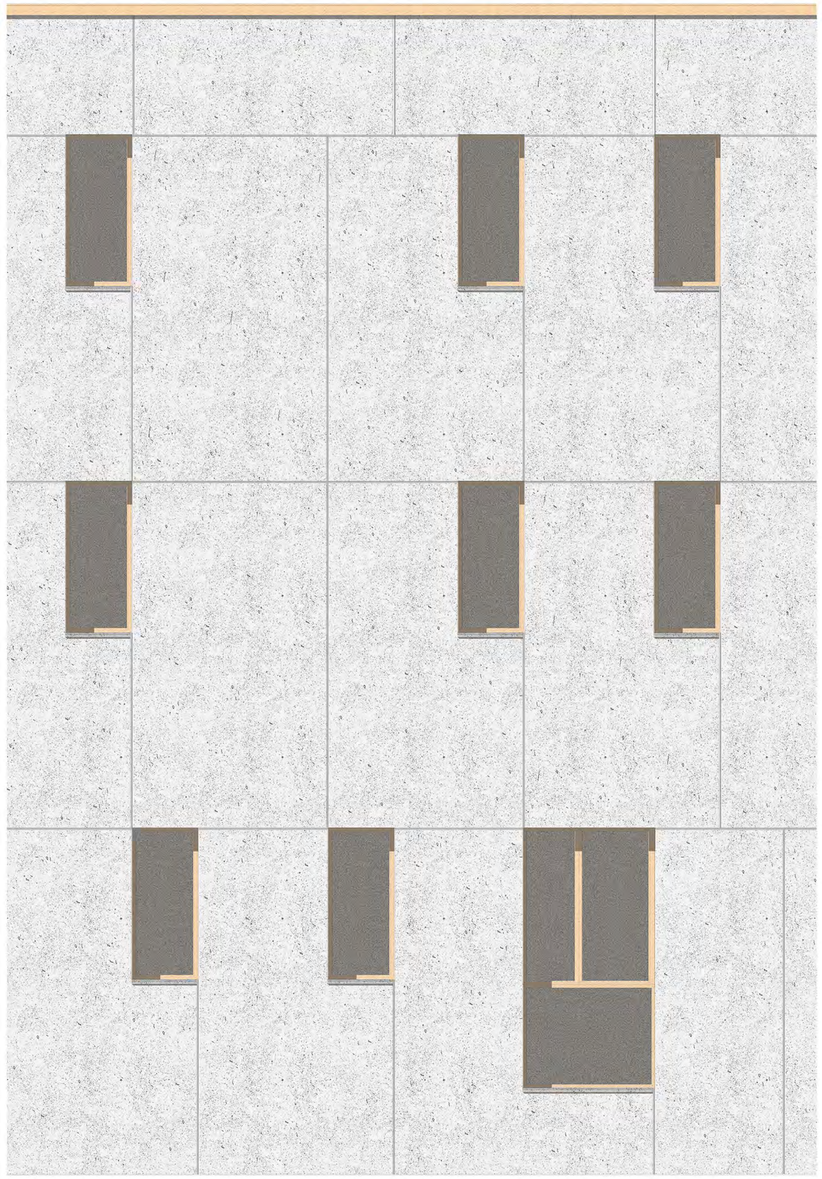
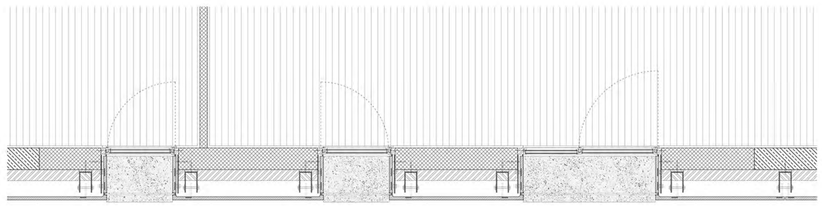




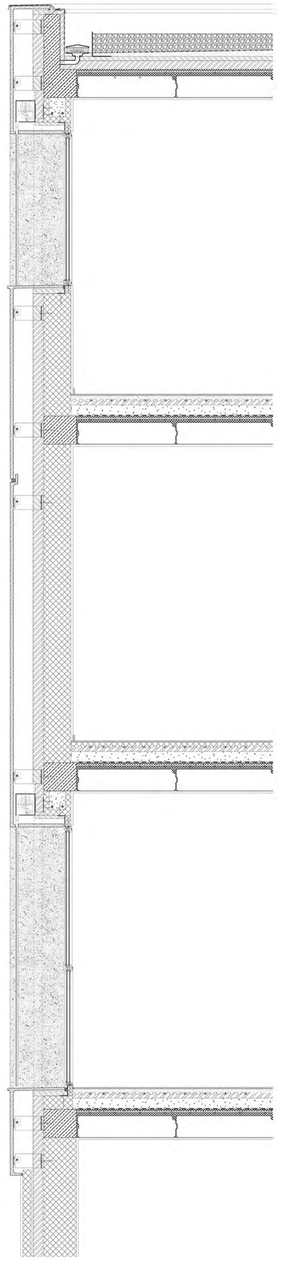
Pianta

Sezione





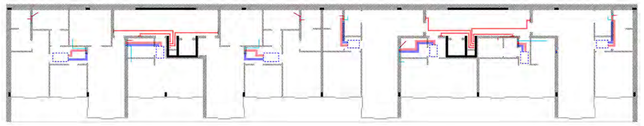
Pianta



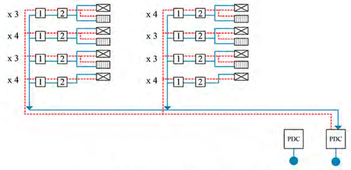
DETTAGLIO
NORD
1
20

1.Soletta in CLS sp.200 mm **2.**Guaina impermeabilizzante sp.5 mm **3.**Massetto alleggerito sp. 120 mm **4.**Sottofondo di posa sp.15 mm **5.**Pavimentazione esterna in gres sp.20 mm **6.**Montante in lamiera di alluminio sp.4 mm **7.**Isolante termico in polistirene sp.120 mm **8.**Intonaco sp.20 mm **9.**Blocchi in fibro-cemento sp.220 mm **10.**Pavimentazione interna in parquet sp.18 mm **11.**Sottofondo di posa sp.50 mm **12.**Riscaldamento a pannelli radianti sp.70 mm **13.** Massetto impiantistico sp.120 mm **14.**Feltro fonoassorbente sp.5mm **15.**Isolante termico in polistirene sp.50 mm **16.**Guide scorrevoli "Secco Sistemi" con finitura in ottone **17.**Infissi scorrevoli "Secco Sistemi" con finitura in ottone **18.**Tende scorrevoli per esterni **19.**Attacco ad L ispezionabile sp.3 mm **20.**Balaustra prefabbricata in acciaio saldato con finitura in ottone, montanti sp.8 mm, corrimano sp.12 mm

1.Pannello sagomato in GFRP sp.30 mm **2.**Aggancio metallico affogato nel pannello **3.**Profilo metallico asolato sp. 7 mm **4.**Guida per avvolgibili in lamiera fissata con silicone butilico sp.2 mm **5.**Lamiera asolata per fissaggio pannelli laterali sp.7 mm **6.**Barra metallica con piastra saldata sp.5 mm **7.**Cielino ispezionabile in GFRP sp.30 mm **8.**Cassetta per avvolgibile **9.**Profilo metallico a C sp.5 mm **10.**Falso telaio sp.8 mm **11.**Finestra 60x120 cm tipo "Secco Sistemi" **12.**Falso telaio sp.8 mm **13.**Lamiera metallica con finitura in ottone sp.3 mm **14.**guaina impermeabilizzante sp.5 mm **15.**Pannello sagomato in GFRP sp.30 mm **16.**Cordolo in CLS sp.180 mm **17.**Lamiera microforata con TNT sp.3 mm **18.**Ghiaia colorata **19.**Massetto con pendenza 1,5 % **20.**Isolante termico in Polistirene sp.50 mm **21.**Isolante termico in Polistirene sp.100 mm **22.**Getto di completamento in CLS sp.80 mm **23.**Solaio in blocchi Ytong sp.200 mm **24.**Pavimentazione interna in parquet sp.18 mm **25.**Sottofondo di posa sp.50 mm **26.**Riscaldamento a pannelli radianti sp.70 mm **27.** Massetto impiantistico sp.120 mm **28.**Feltro fonoassorbente sp.5mm **29.**Getto di completamento in CLS sp.80 mm



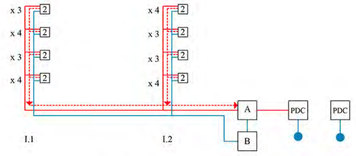
Distribuzione impiantistica



Riscaldamento/Raffrescamento

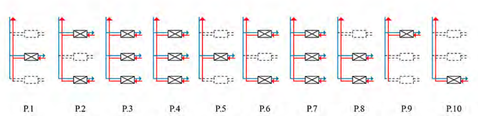
1. collettore di piano 2.contabilizzatore appartamento

⊠ - UTA ▥ - collettore pannelli radianti



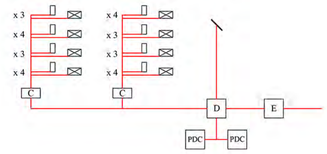
Distribuzione acqua calda sanitaria

A.serbatoio di accumulo B.centrale idrica 2.contabilizzatore appartamento



Ventilazione meccanica - Unità Trattamento Aria

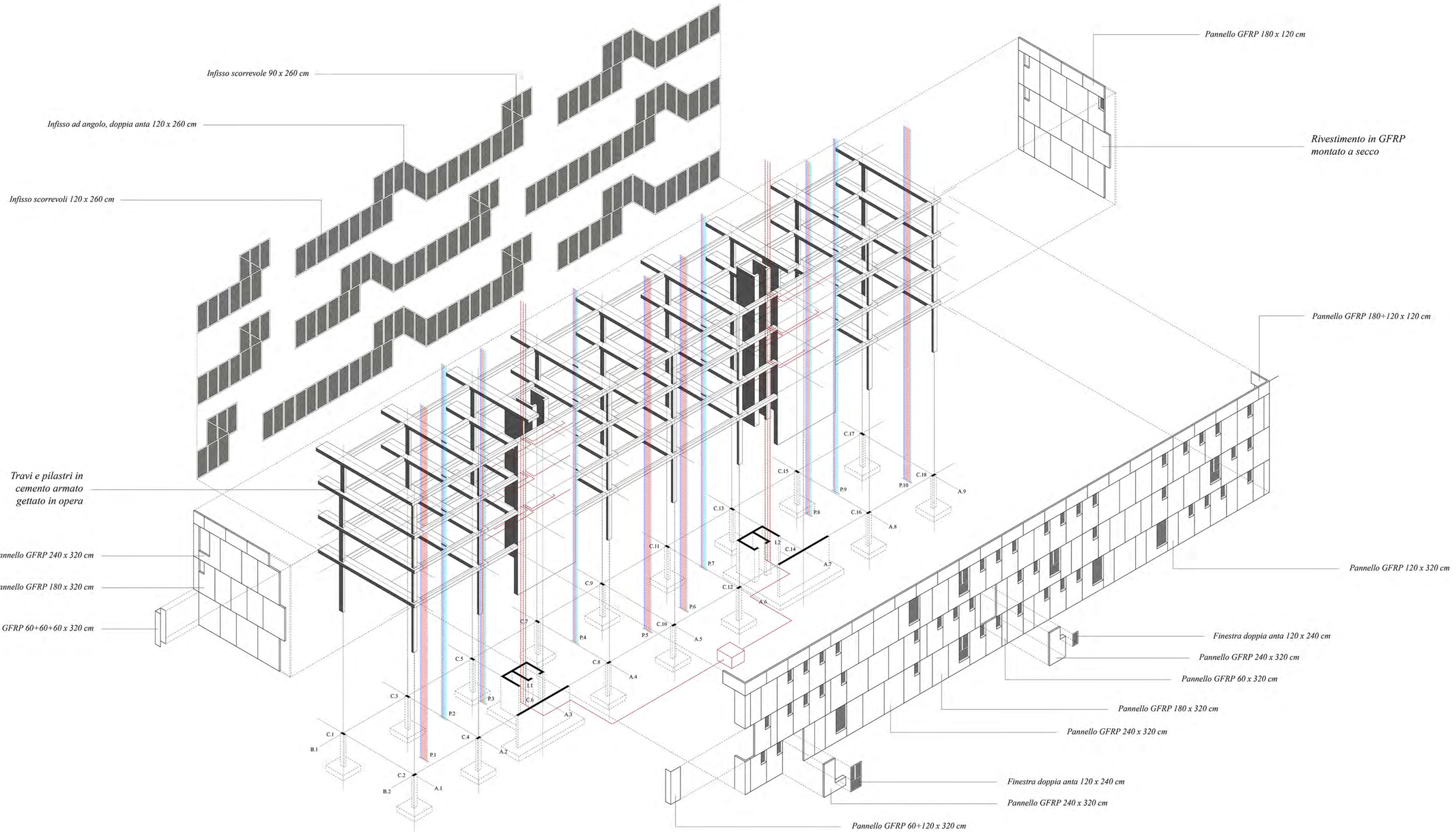
⊠ - UTA

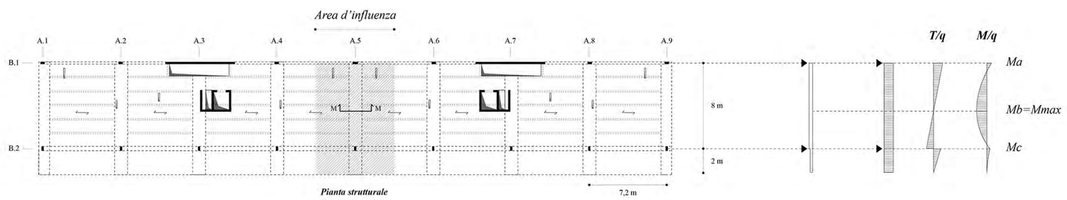


Distribuzione rete elettrica

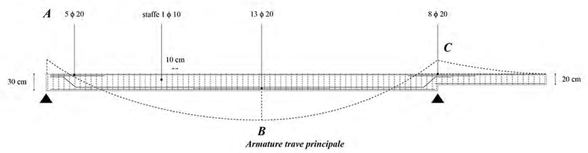
C.locale contatori **D.**locale quadri elettrici **E.**locale consegna BT

⊠ - UTA ▯ - Appartamenti

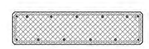




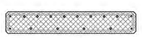
Pianta strutturale



Armature trave principale

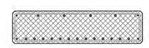


Trave Punto A.
H=30 cm h= H-copriferro-ϕ/2= 27 cm b=120 cm
2 ϕ 12 (reggistaffe) + 5 ϕ 20 = 17,96 cm2



Trave Punto C.
H=30 cm h= H-copriferro-ϕ/2= 27 cm b=120 cm
2 ϕ 12 (reggistaffe) + 8 ϕ 20 = 27,39 cm2

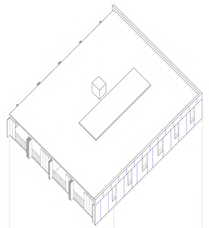
Pilastro piano terra.
b = 25 cm h = 40 cm A. cemento = 1000 cm2
4 ϕ 20 = 10 cm2

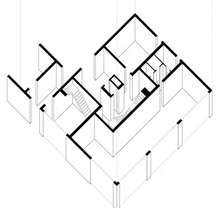


Trave Punto B.
H=30 cm h= H-copriferro-ϕ/2= 27 cm b=120 cm
2 ϕ 12 (reggistaffe) + 8 ϕ 20 = 27,39 cm2

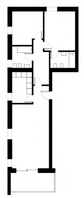
Pilastro terzo piano.
b = 25 cm h = 30 cm A. cemento = 750 cm2
4 ϕ 18 = 7,5 cm2

Pilastro piano interrato.
b = 25 cm h = 50 cm A. cemento = 1250 cm2
4 ϕ 20 = 10 cm2

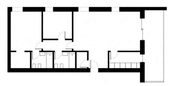




Tipo 1:
Trilocale
84 mq



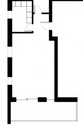
Tipo 1:
Trilocale
85 mq



Tipo 1:
Bilocale
60 mq

Tipo 1:
Bilocale
55 mq

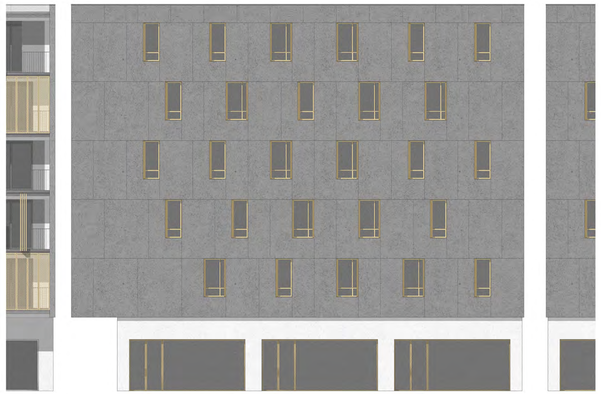
Tipo 1:
Quadrilocale
105 mq

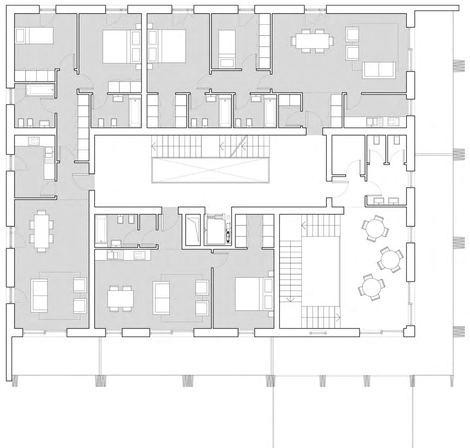


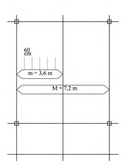
Tipo 1:
Trilocale
82 mq

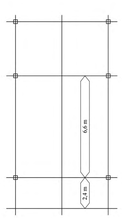
Tipo 1:
Bilocale
55 mq

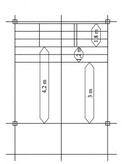
Tipo 1:
Monolocale
37 mq

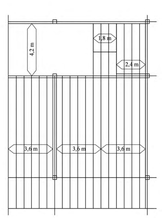


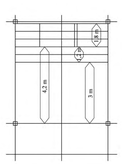


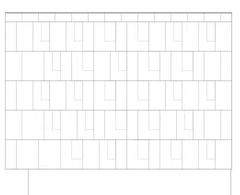


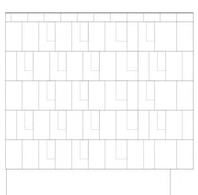


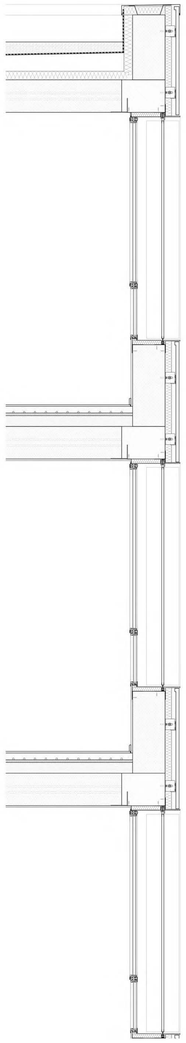


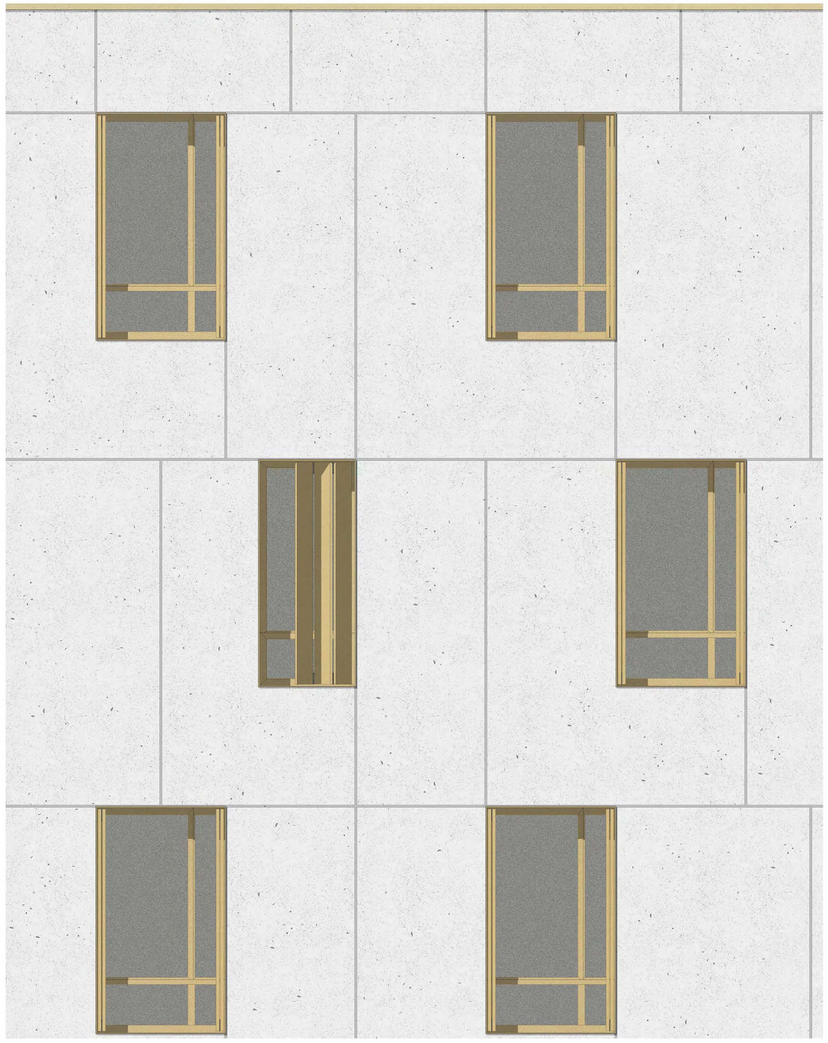


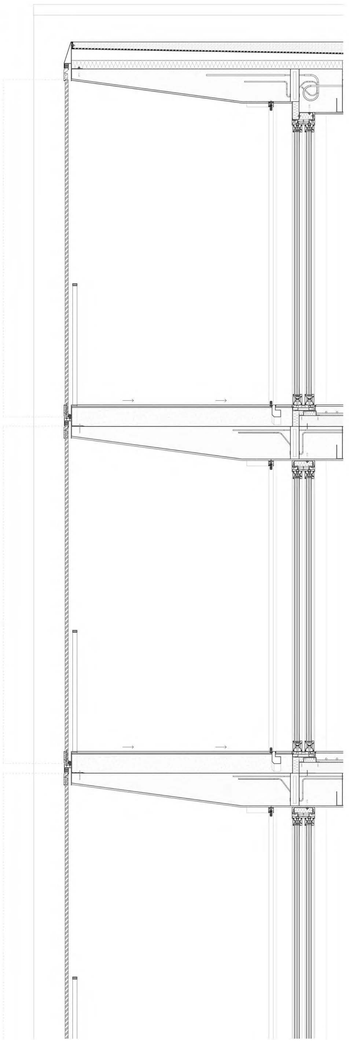


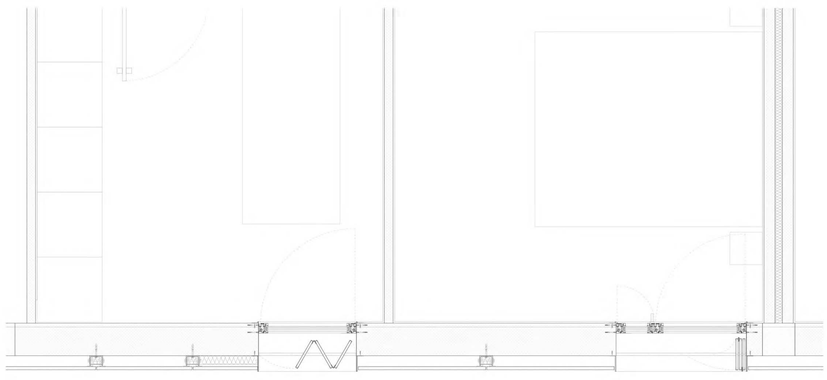


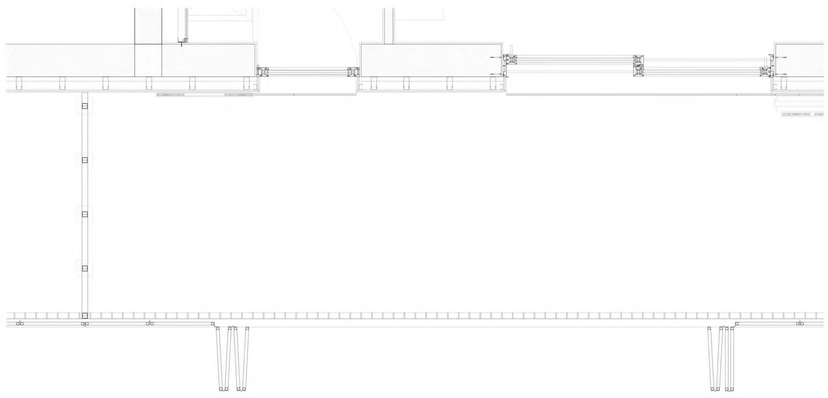


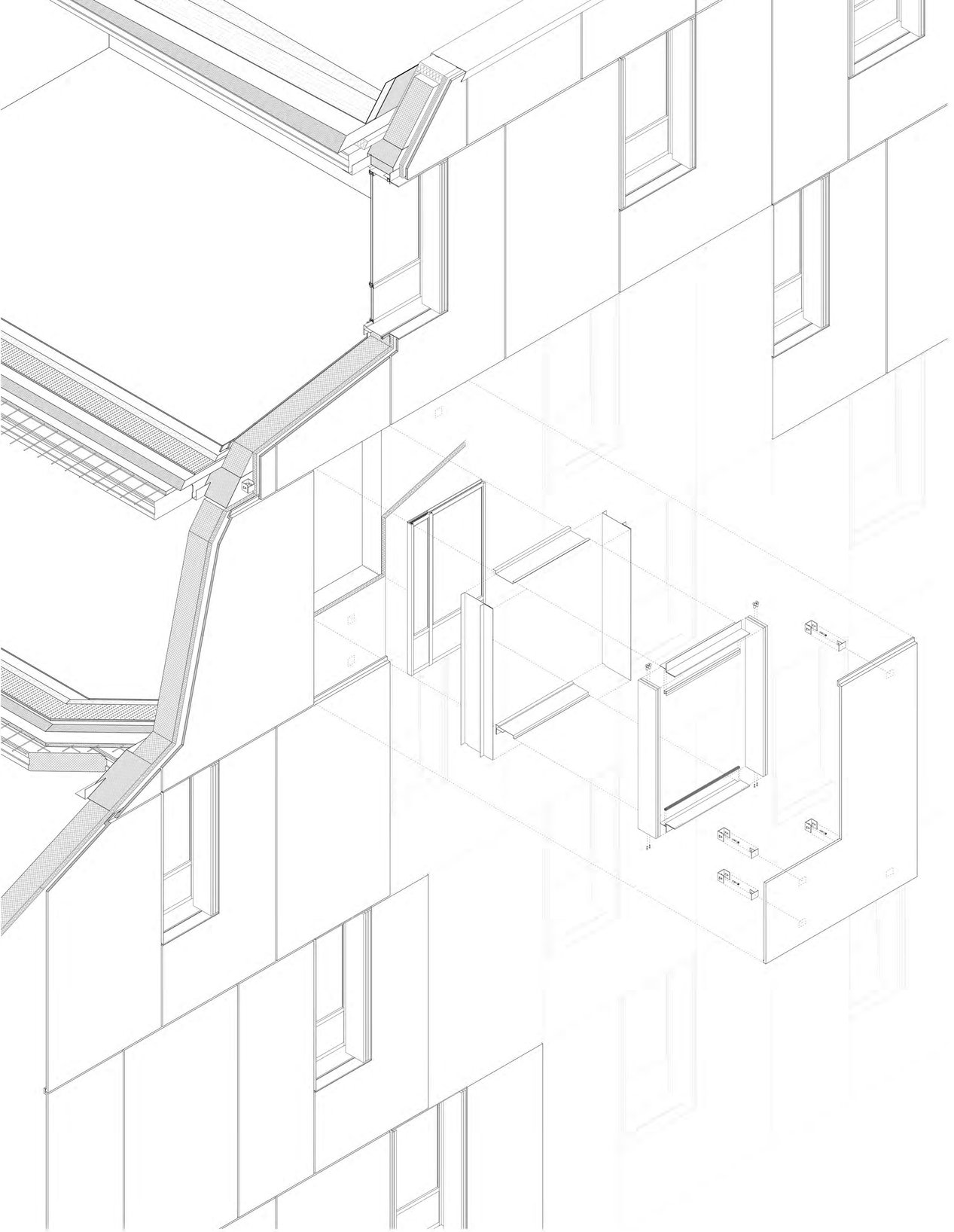


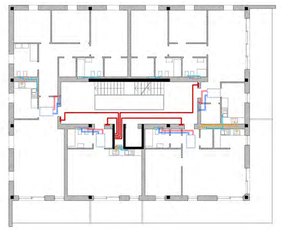




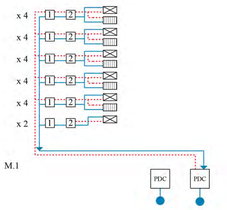








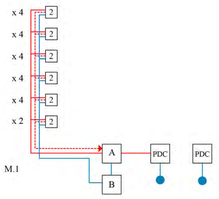
Distribuzione impiantistica tipo



Riscaldamento/Raffrescamento

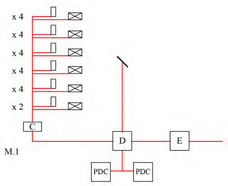
1. collettore di piano 2.contabilizzatore appartamento

- UTA - collettore pannelli radianti



Distribuzione acqua calda sanitaria

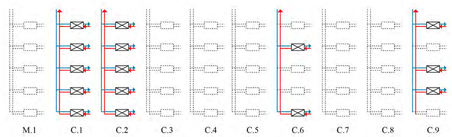
A. serbatoio di accumulo B. centrale idrica 2. contabilizzatore appartamento



Distribuzione rete elettrica

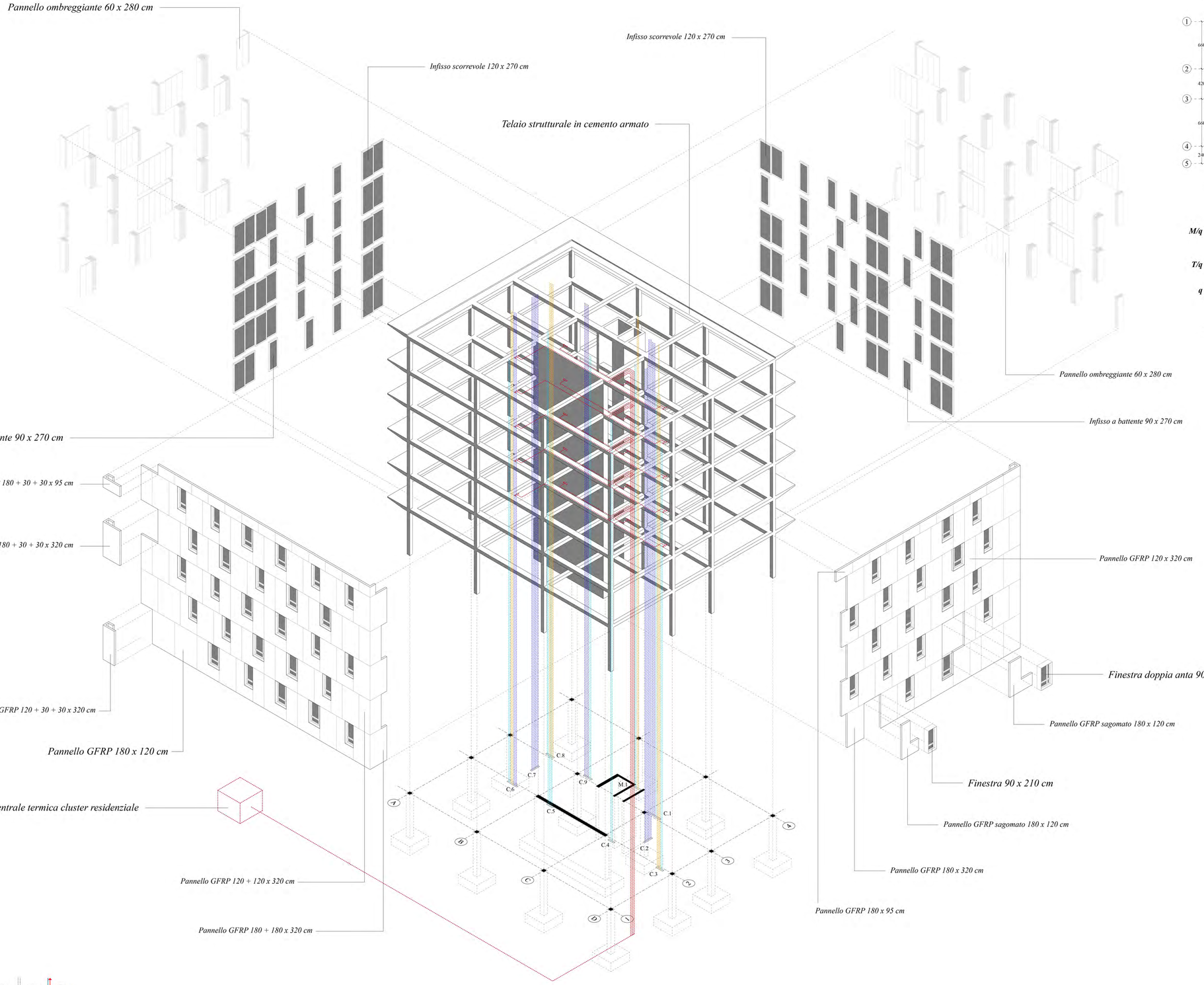
C.locale contatori **D.**locale quadri elettrici **E.**locale consegna BT

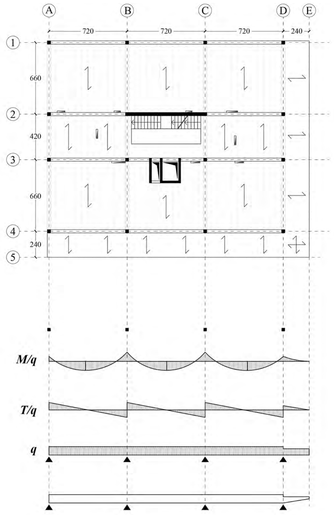
- UTA - Appartamenti



Ventilazione meccanica - Unità Trattamento Aria

- UTA





Pianta strutturale e azioni interne trave principale

Trave XX

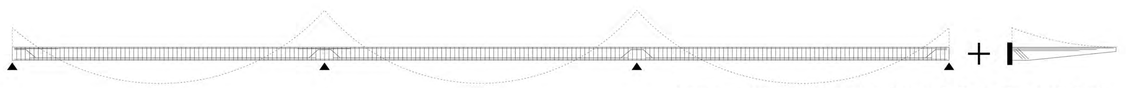
Trave XX

Trave XX

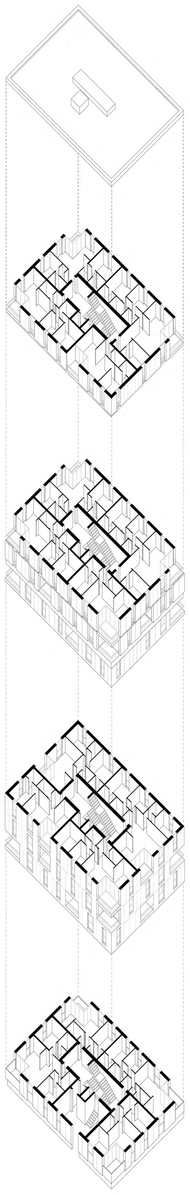
Trave XX

Trave XX

Trave XX



Armature trave principale in cemento armato, in continuità con soletta a sbalzo loggia



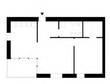
Tipo 1:
Quadrilocale
105 mq

Tipo 2:
Quadrilocale
105 mq

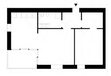
Tipo 3:
Trilocale
77 mq

Tipo 4:
Trilocale
82 mq

Tipo 5:
Trilocale
82 mq

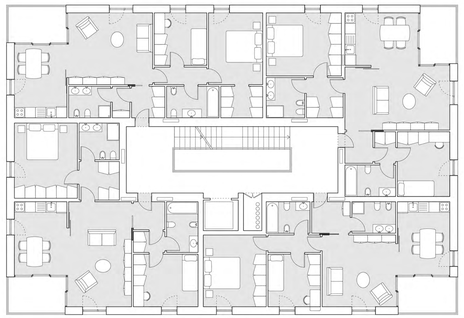


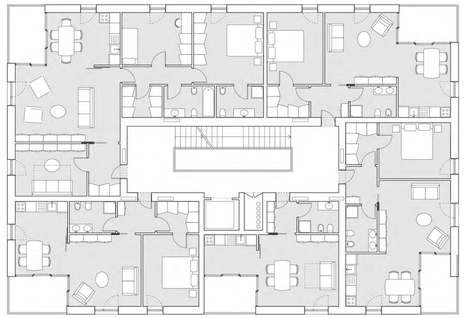
Tipo 6:
Bilocale
56 mq

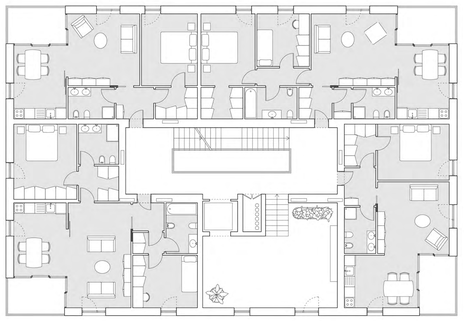


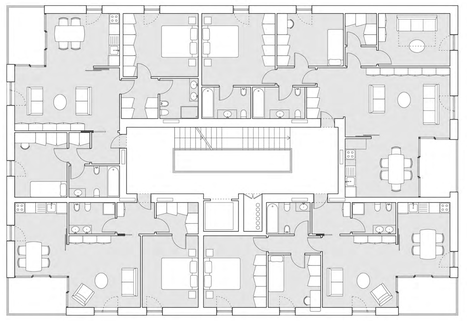
Tipo 7:
Bilocale
56 mq

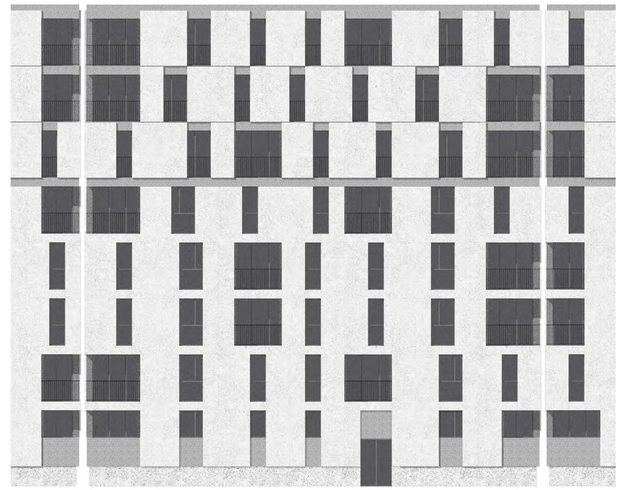
Tipo 8:
Monolocale
33 mq

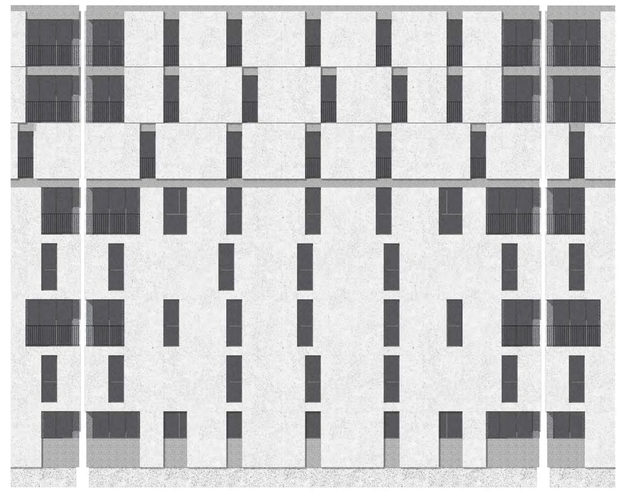


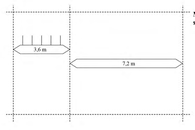




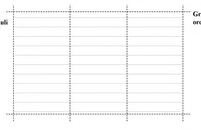




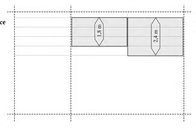




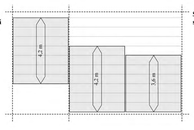
Moduli e sottomoduli



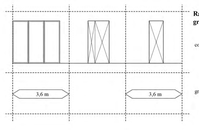
Griglia ordinatrice



Spazi serventi



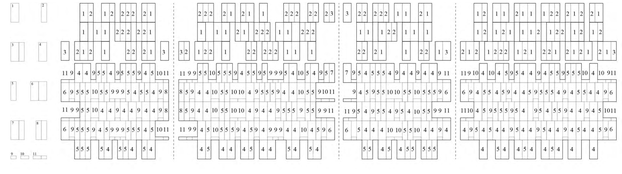
Spazi serviti



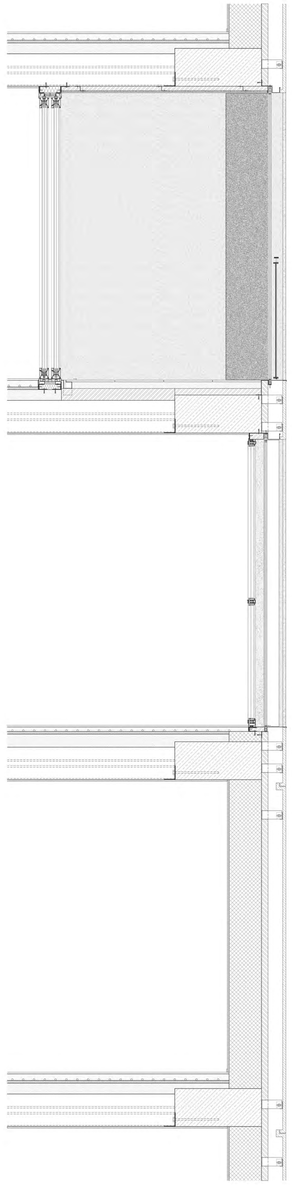
Rapporto griglia - facciata

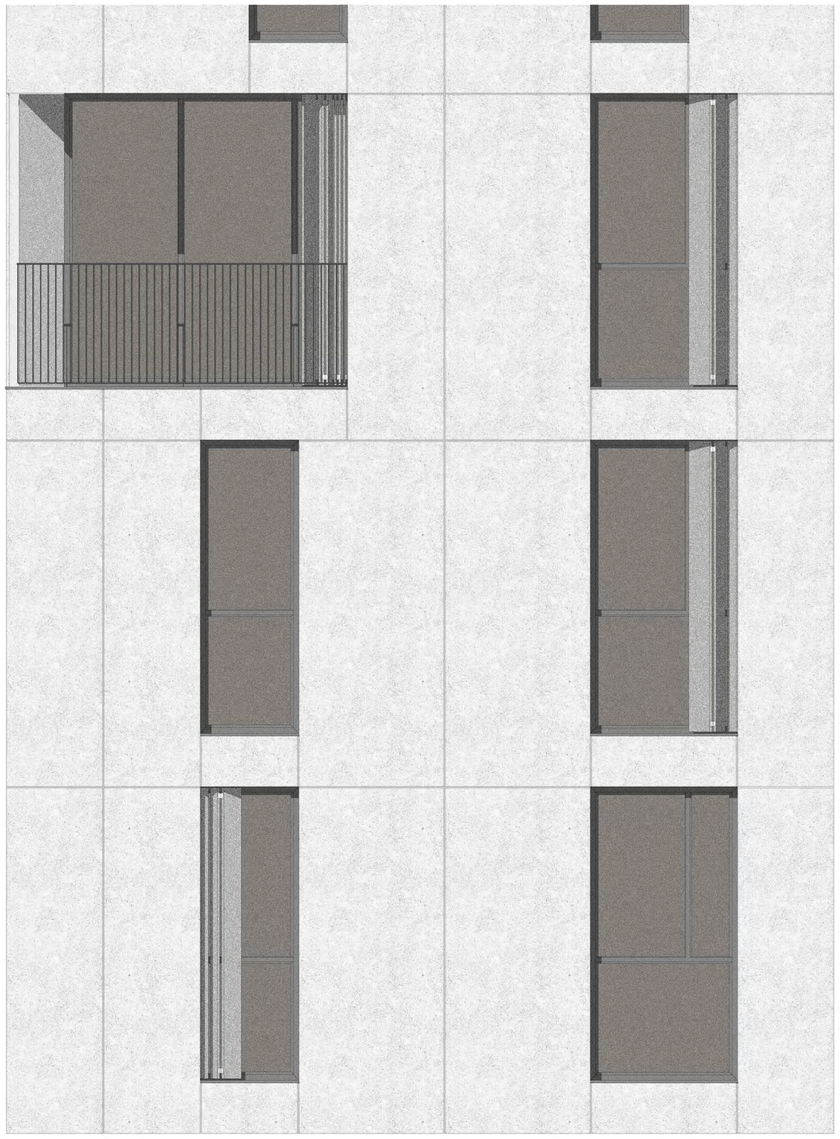
componenti

griglia componenti

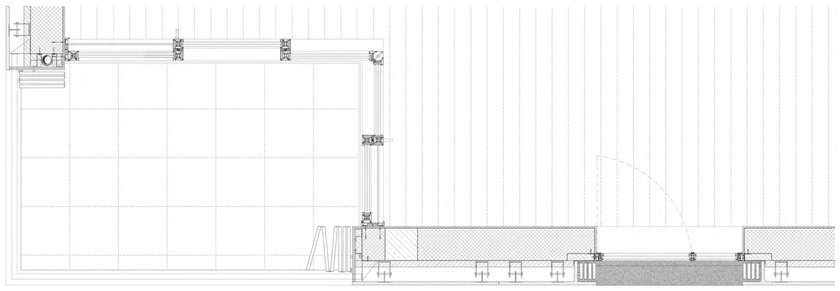


Sezione



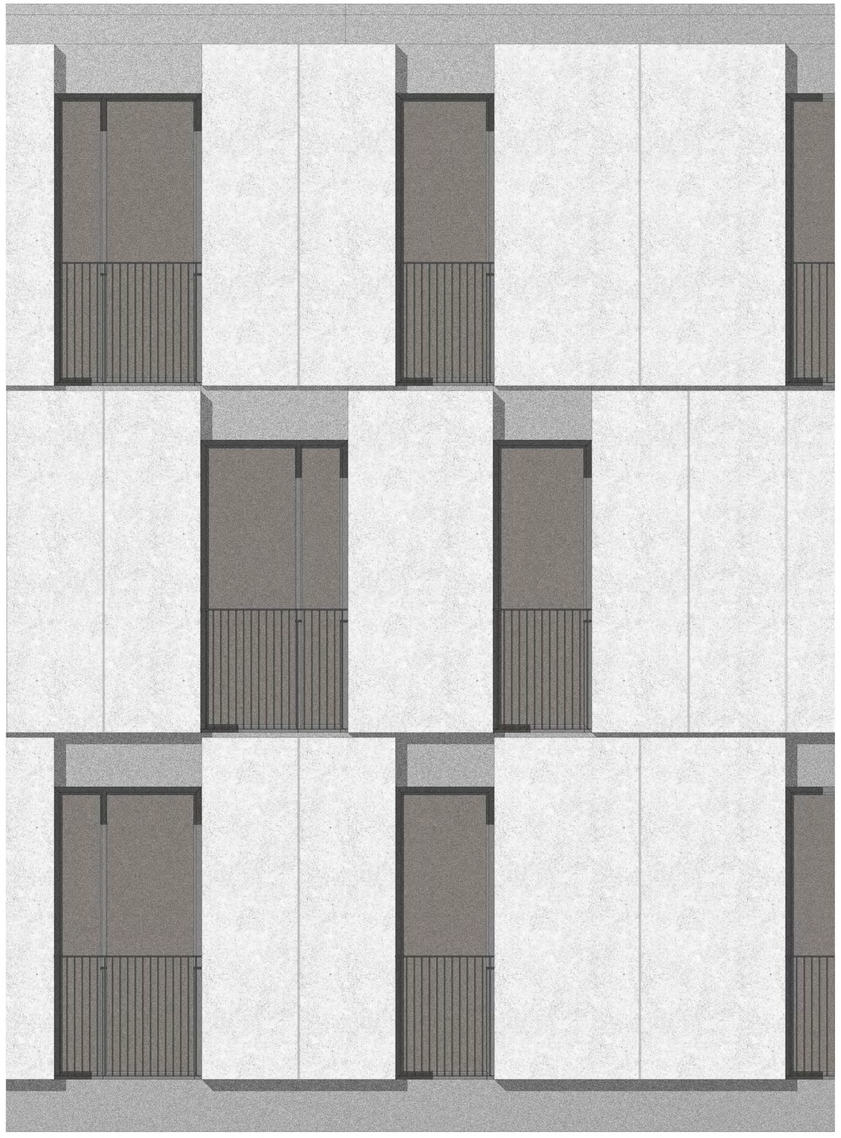


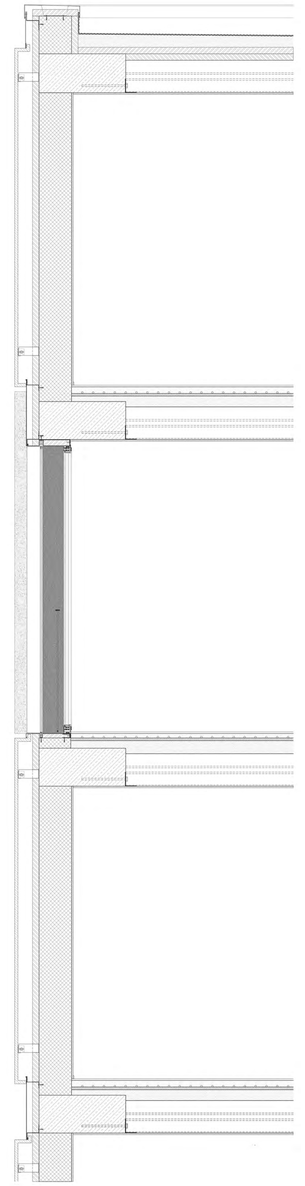
DETTAGLIO
FASCIA BASSA
1
20



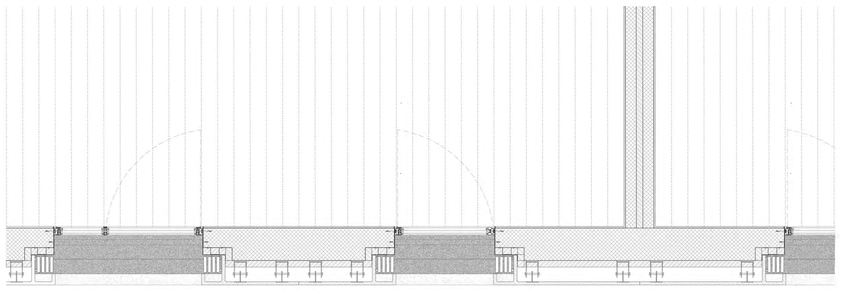
Pianta

Sezione

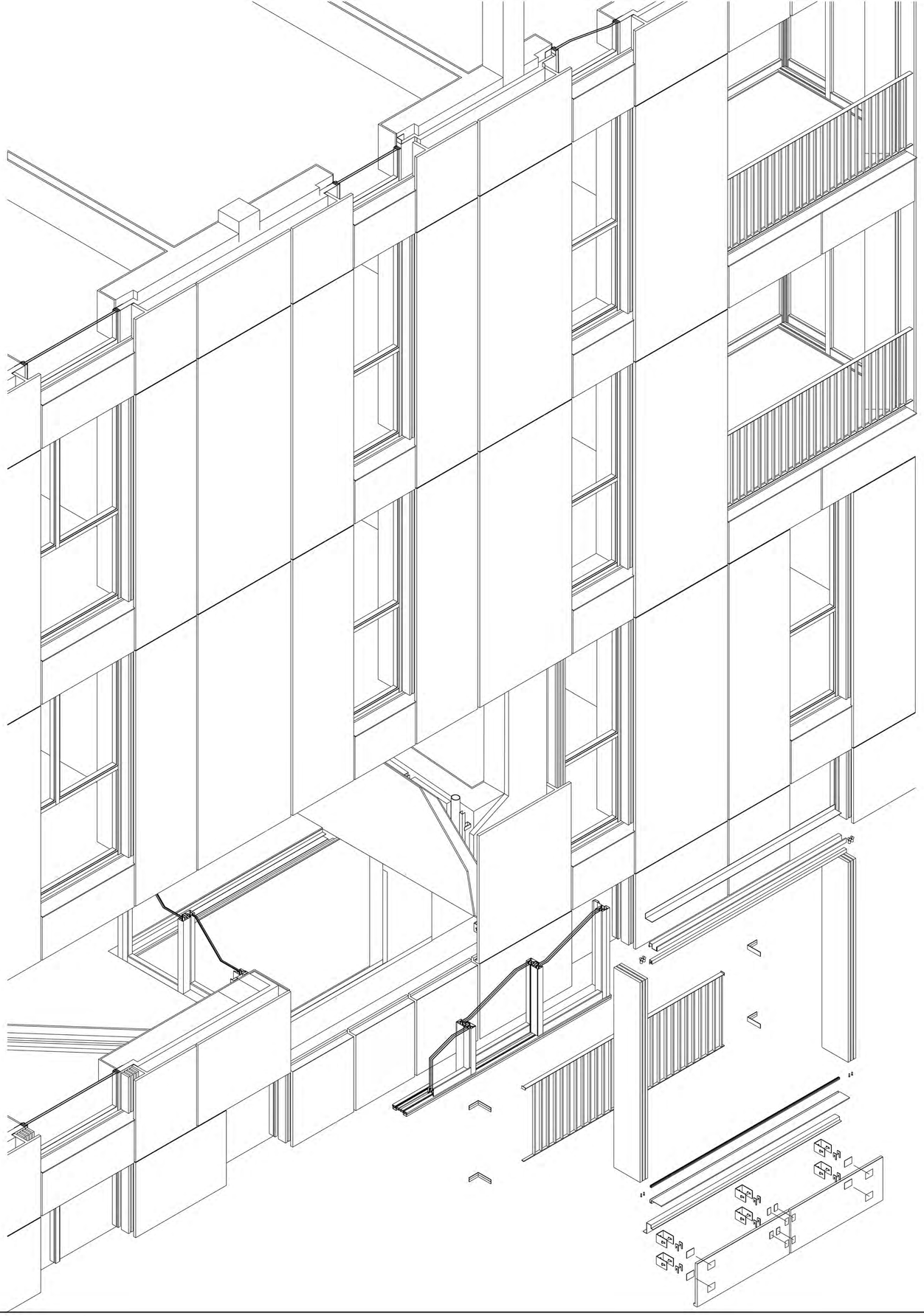


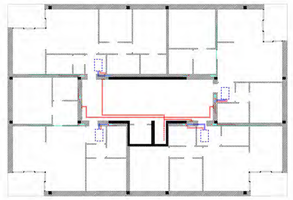


DETTAGLIO
FASCIA ALTA
1
20

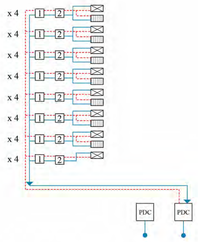


Pianta





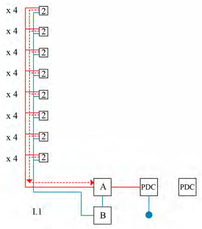
Distribuzione impiantistica



Riscaldamento/Raffrescamento

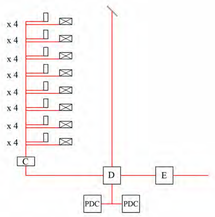
1. collettore appartamento 2.contabilizzatore appartamento

- UTA - collettore pannelli radianti



Distribuzione acqua calda sanitaria

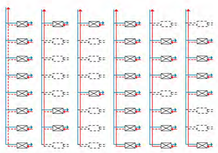
A.serbatoio di accumulo B.centrale idrica 2.contabilizzatore appartamento



Distribuzione rete elettrica

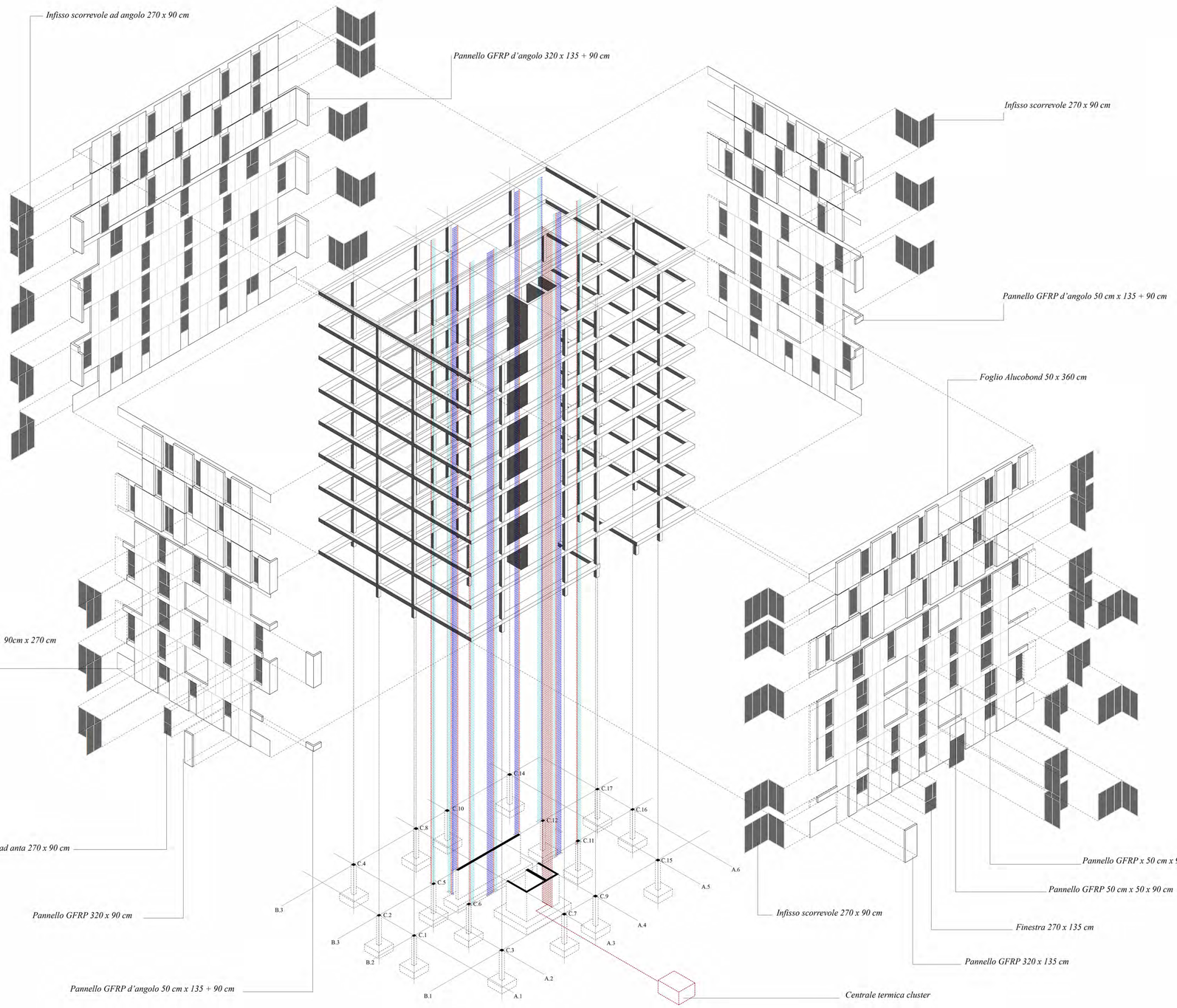
C.locale contatori **D.**locale quadri elettrici **E.**locale consegna BT

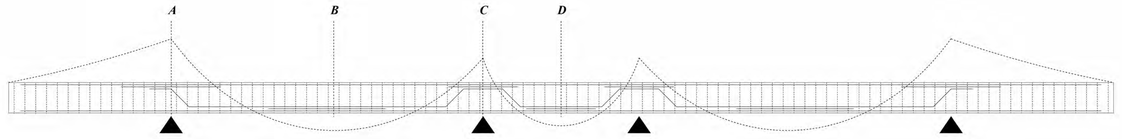
- UTA - Appartamenti



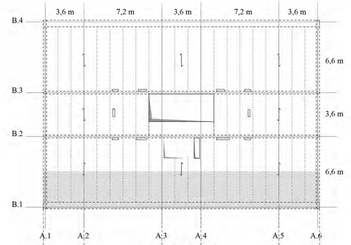
Ventilazione meccanica - Unità Trattamento Aria

- UTA

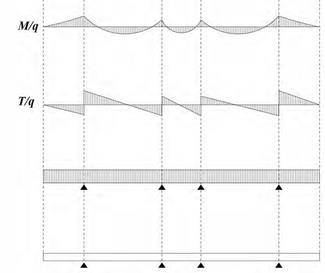


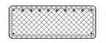


Armature trave principale

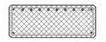


Pianta strutturale

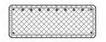




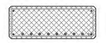
Trave Punto A.
H=30 cm h= H-copriferro-ϕ/2= 27 cm b=120 cm
2 ϕ 12 (reggistaffe) + 8 ϕ 20 = 27,39 cm2



Trave Punto B.
H=30 cm h= H-copriferro-ϕ/2= 27 cm b=120 cm
2 ϕ 12 (reggistaffe) + 8 ϕ 20 = 27,39 cm2



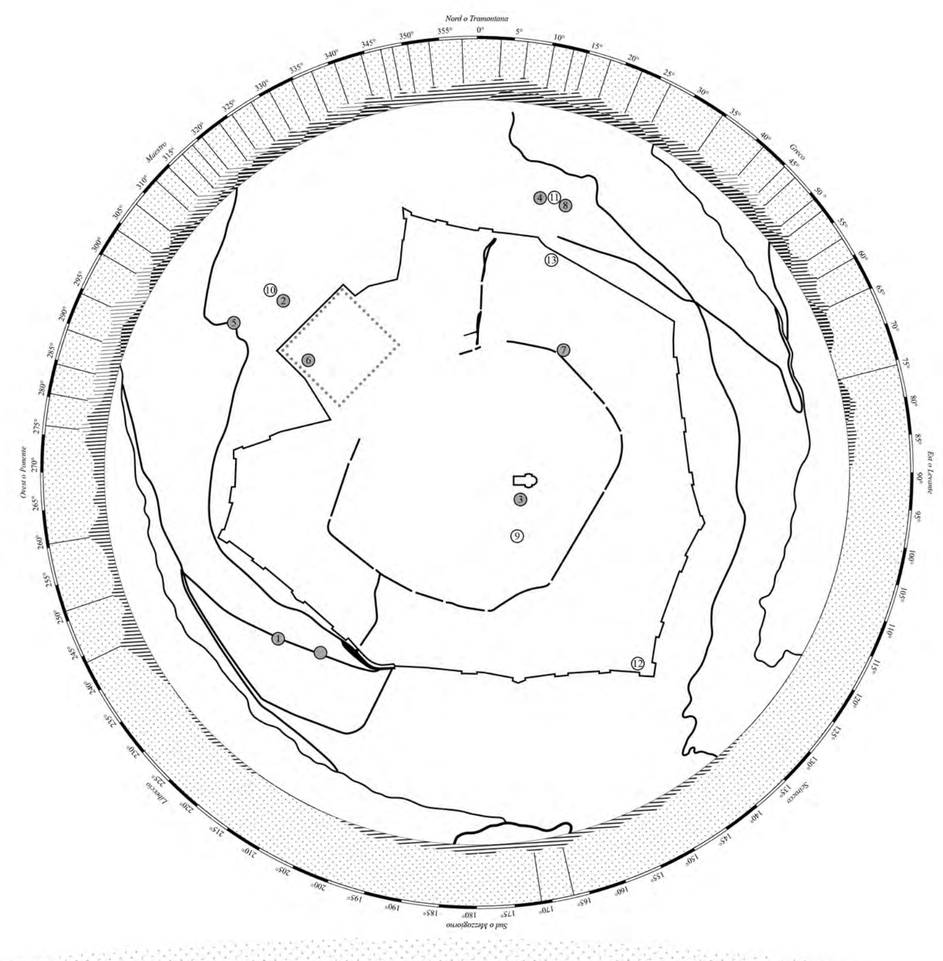
Trave Punto C.
H=30 cm h= H-copriferro-ϕ/2= 27 cm b=120 cm
2 ϕ 12 (reggistaffe) + 8 ϕ 20 = 27,39 cm2

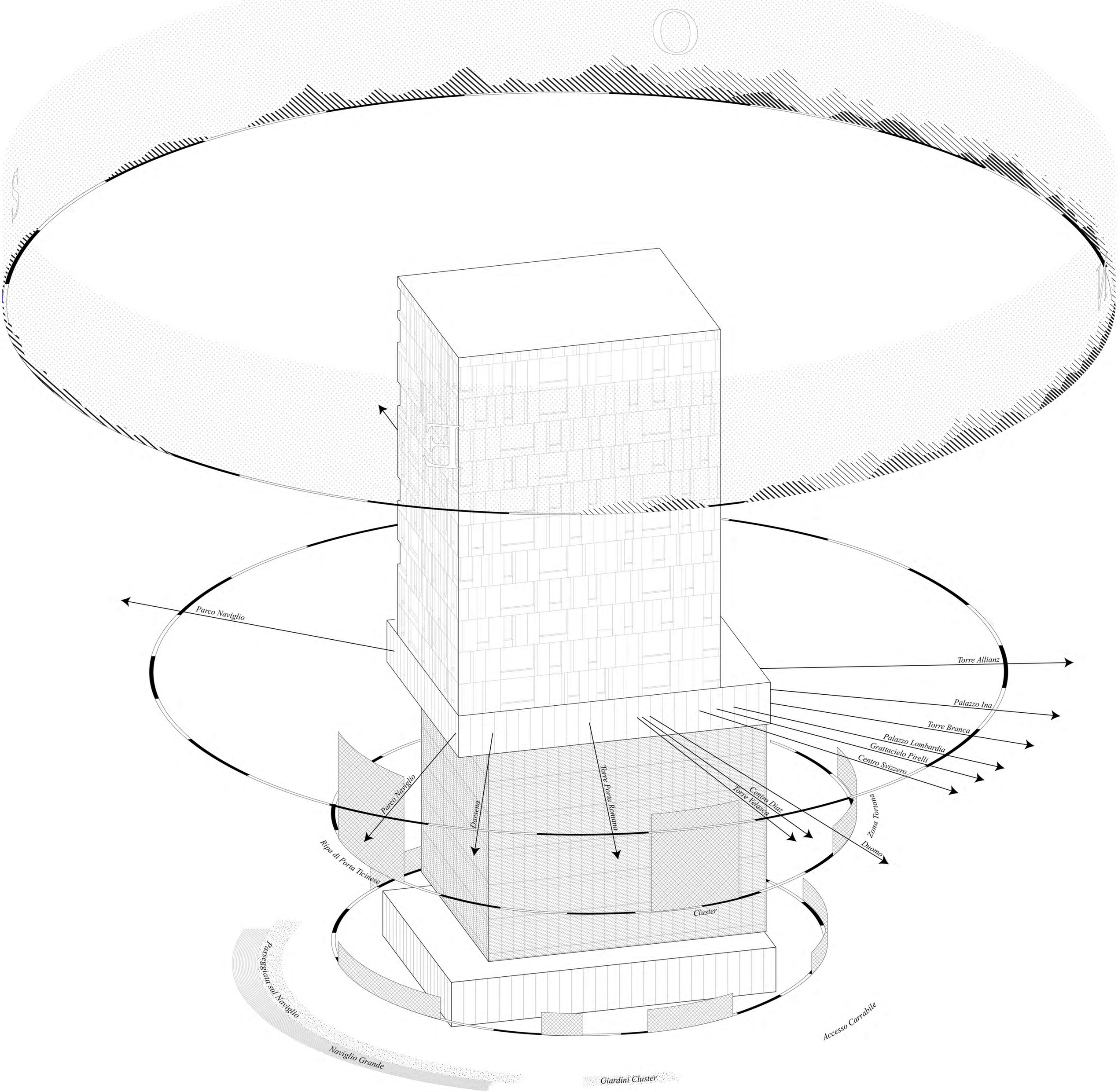


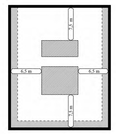
Trave Punto D.
H=30 cm h= H-copriferro-ϕ/2= 27 cm b=120 cm
2 ϕ 12 (reggistaffe) + 8 ϕ 20 = 27,39 cm2

Pilastro piano interrato.
b = 25 cm h = 50 cm A. cemento = 1250 cm2
4 ϕ 20 = 10 cm2

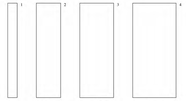
Pilastro piano interrato.
b = 25 cm h = 50 cm A. cemento = 1250 cm2
4 ϕ 20 = 10 cm2


Nord o Tramontana
Ovest o Ponente
Est o Levante
Sud o Mezzogiorno
Marzo
Giugno
Settembre
Dicembre
1
2
3
4
5
6
7
8
9
10
11
12
13


Parco Naviglio
Darsena
Torre Porta Romana
Centro Diaz
Torre Velasca
Zona Tortona
Duomo
Parco Naviglio
Ripa di Porta Ticinese
Cluster
Passeggiata sul Naviglio
Naviglio Grande
Giardini Cluster
Accesso Carrabile
Torre Allianz
Palazzo Ina
Torre Branca
Palazzo Lombardia
Grattacielo Pirelli
Centro Svizzero

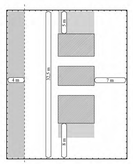


Volume RESIDENZE:
Superficie Utile Totale: 5280 mq
Superficie Utile a Piano: 480 mq
Superficie Core: 97 mq

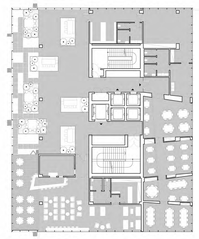


1. 35 cm x 350 cm
2. 50 cm x 350 cm
3. 125 cm x 350 cm
4. 160 cm x 350 cm

Volume Residenze

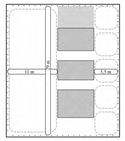


Volume PUBBLICO:
Superficie Utile Totale: 700 mq
Superficie Core: 160 mq
Superficie Bar: 180 mq
Superficie Ristorante: 275 mq
Superficie Spazio Pubblico: 245 mq

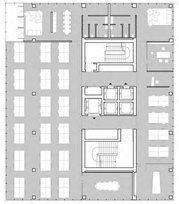


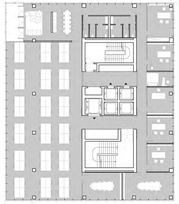
5. 125 cm x 460 cm

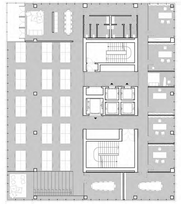
Volume Pubblico alla Quota della Città

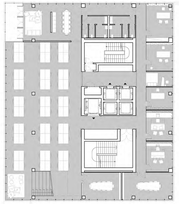


Volume UFFICI:
Superficie Utile Totale: 5120 mq
Superficie Utile a Piano: 520 mq
Superficie Core: 160 mq
Ufficio 1: 180 mq
Ufficio 2: 340 mq



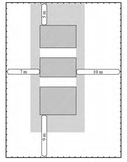




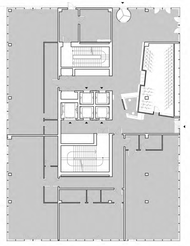


6. 125 cm x 380 cm

Volume Uffici

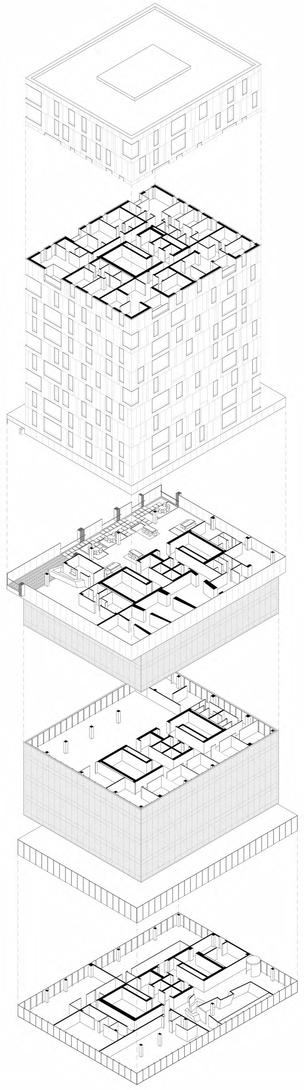


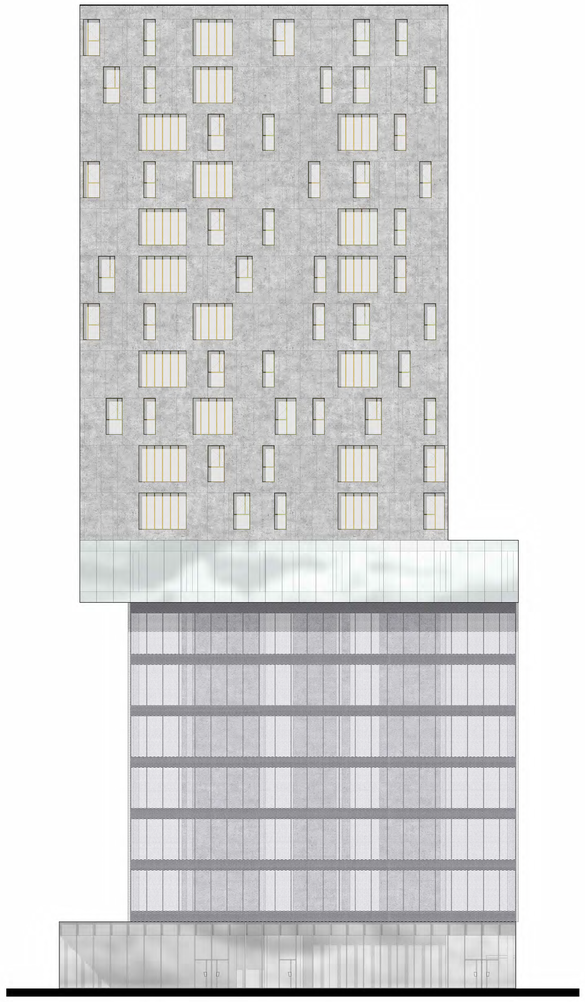
Volume COMMERCIALE:
Superficie Utile Totale: 860 mq
Superficie Utile a Piano: 700 mq
Superficie Core: 160 mq
Lobby d'Entrata: 205 mq
Commerciale 1: 120 mq
Commerciale 2: 70 mq
Commerciale 3: 110 mq
Commerciale 4: 133 mq

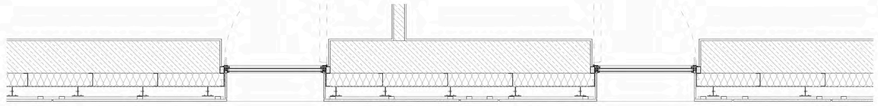


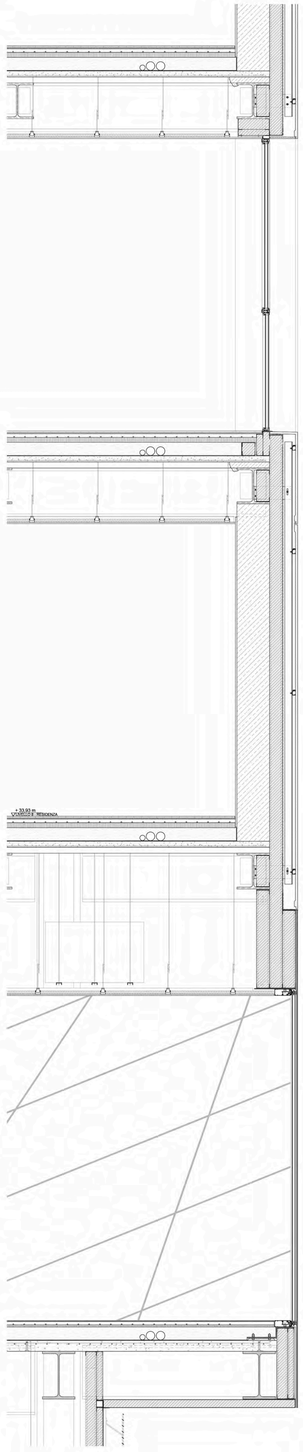
7. 125 cm x 490 cm

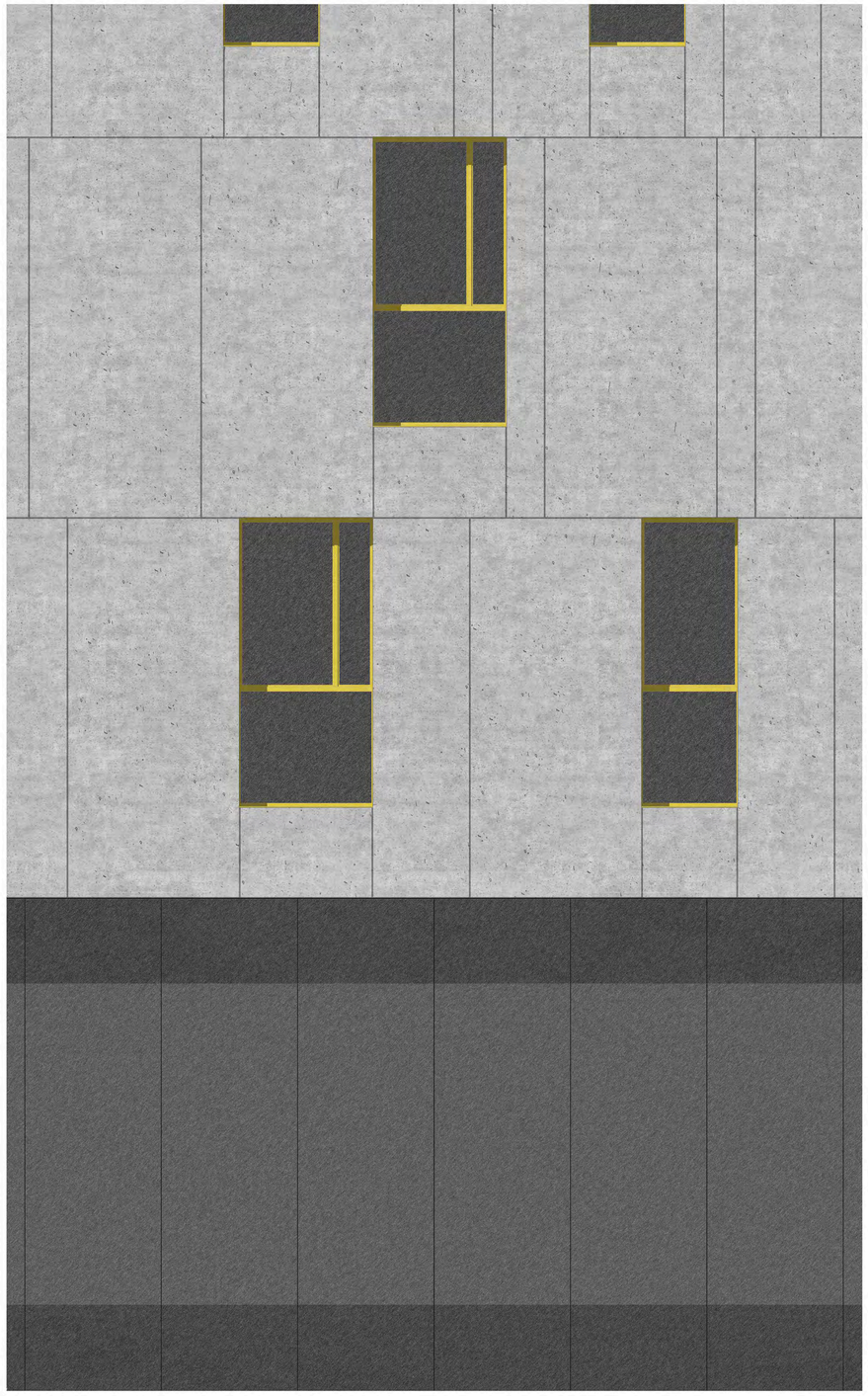
Volume Pubblico

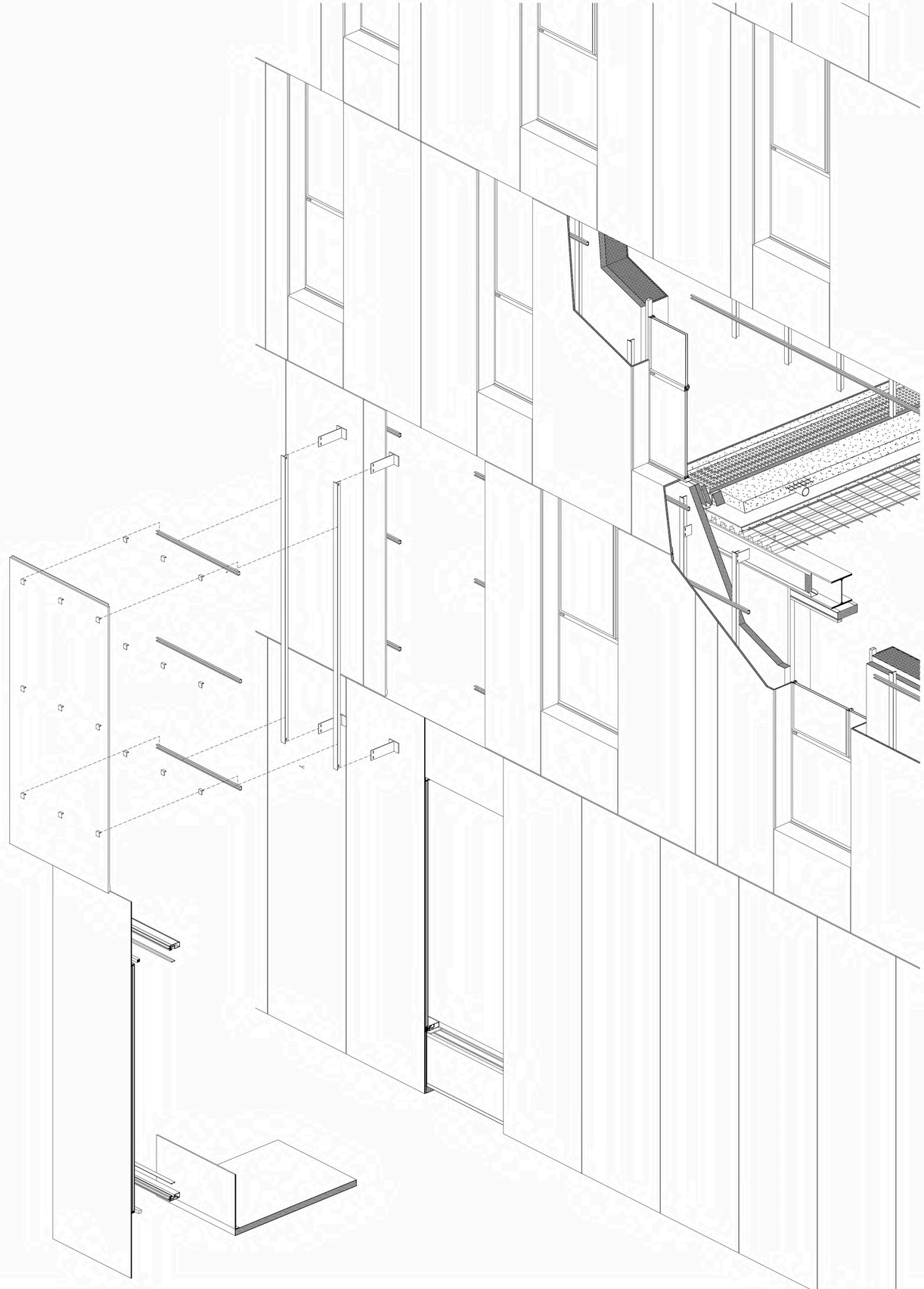


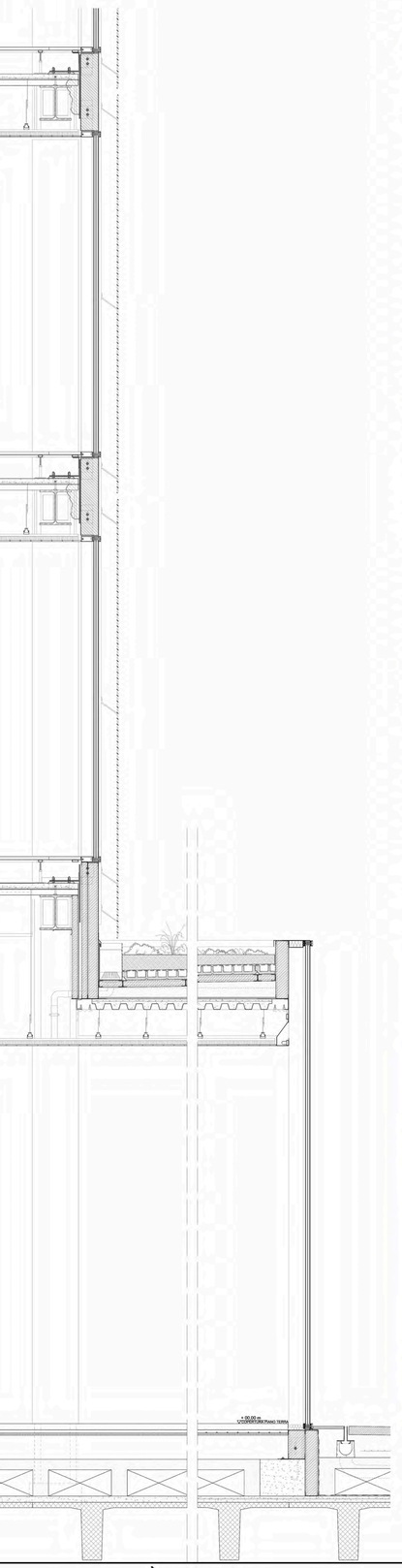


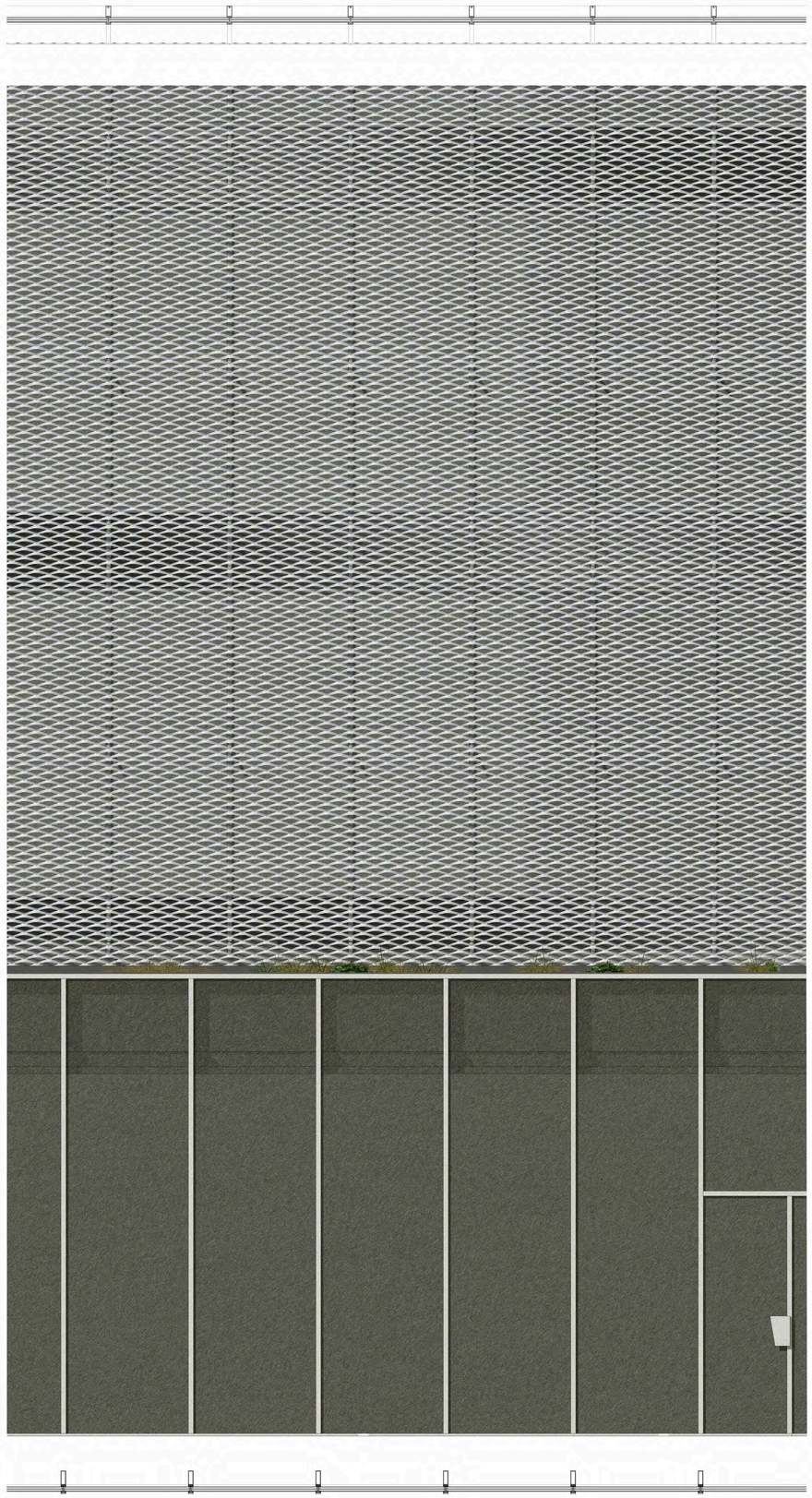


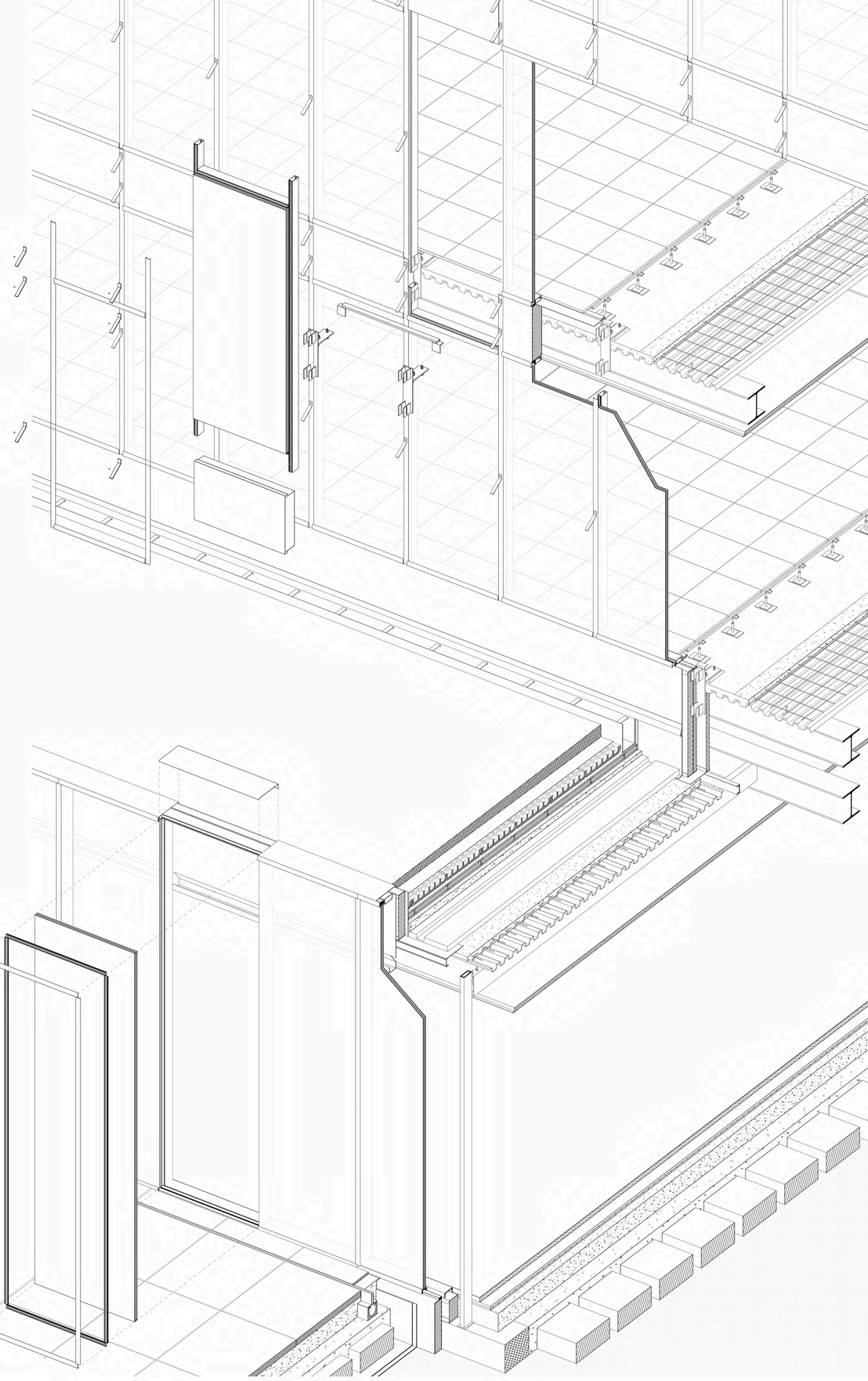


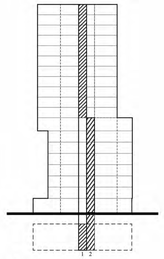




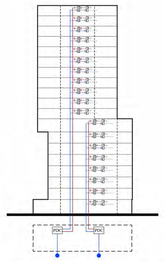




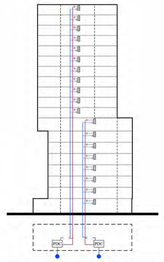




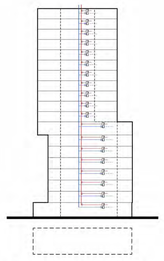
Ascensori



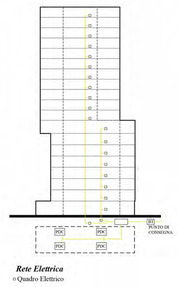
Distribuzione Acqua Calda-Fredda Climatizzazione
Il Collettore al Piano
Il Unità Trattamento Aria



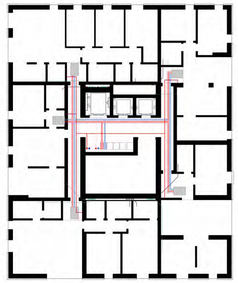
Distribuzione Acqua Calda-Fredda Sanitaria
Il Collettore al Piano



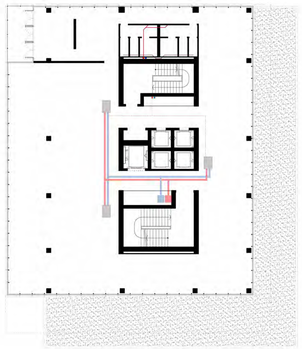
Ventialazione Meccanica - Unità Trattamento Aria
Il Collettore al Piano



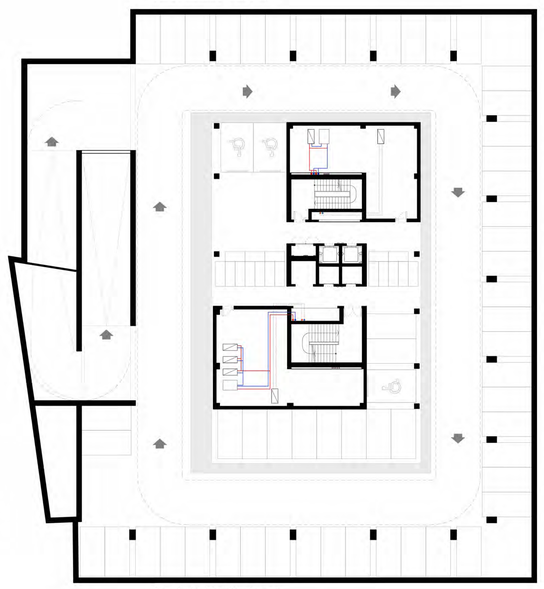
Rete Elettrica
o Quadro Elettrico



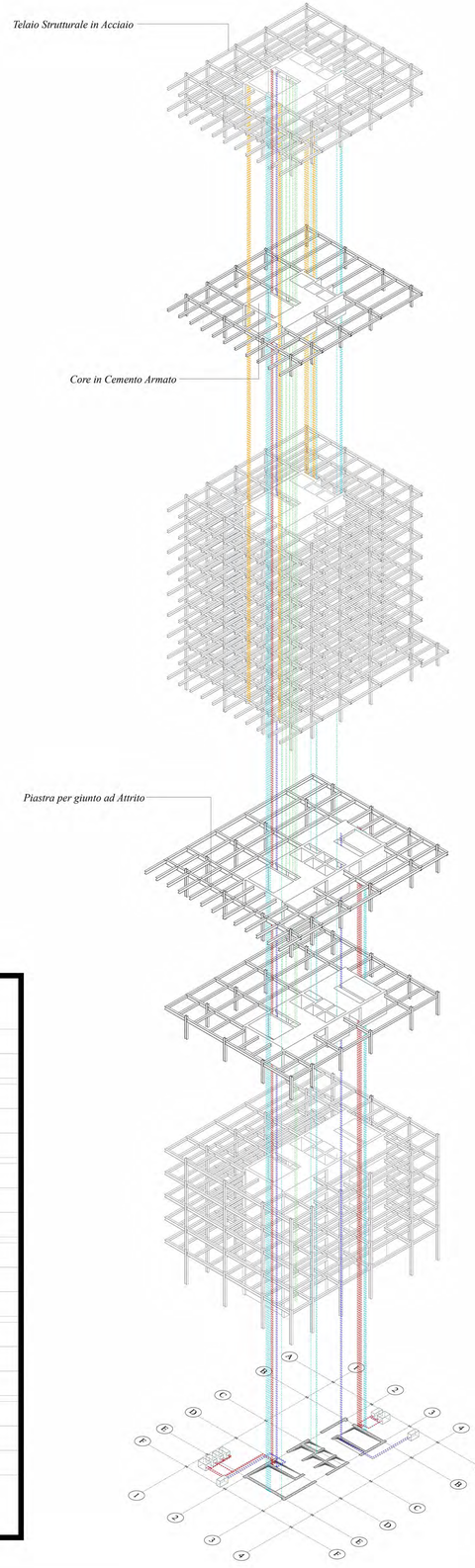
Pianta Impiantistica - Piano Tipo Residenze

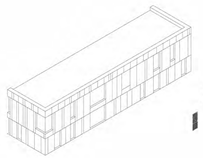


Pianta Impiantistica - Piano Uffici

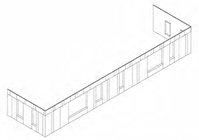


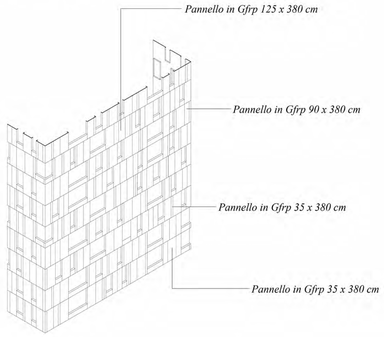
Pianta Impiantistica - Piano Interrato

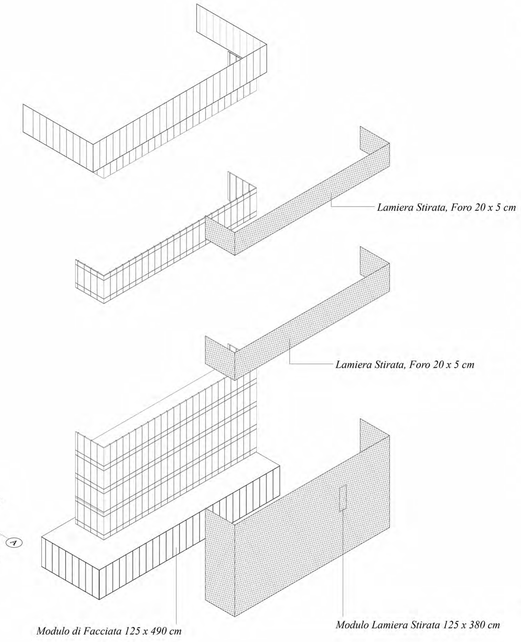


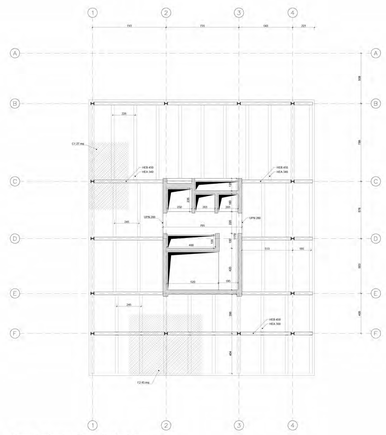


Finestra Doppia Anta 90 + 35 x 270 cm

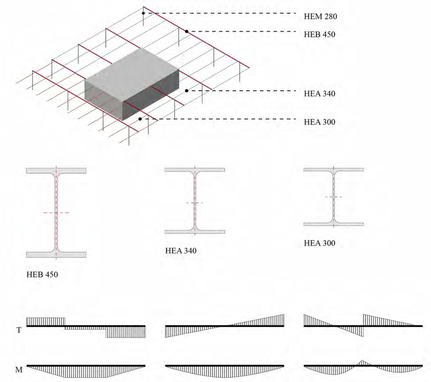


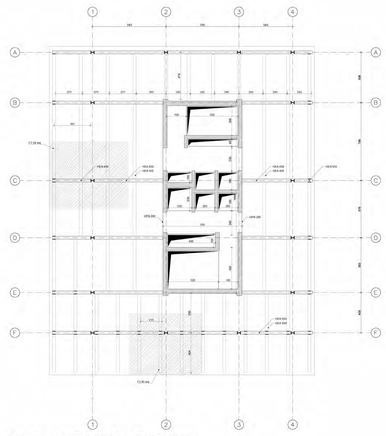




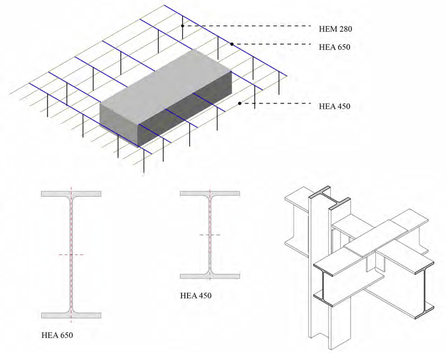


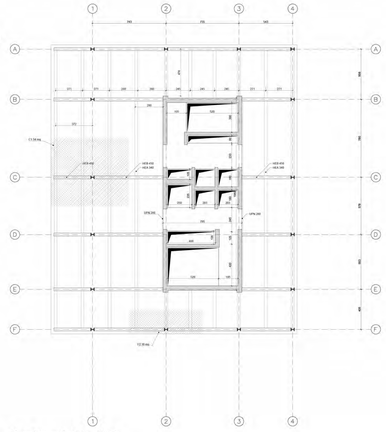
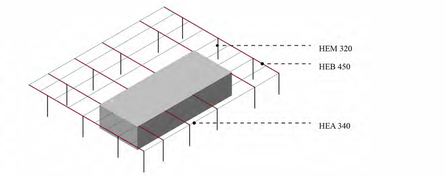
Pianta Strutturale - Piano Tipo Residenze





Pianta Strutturale - Piano Pubblico - Piano di Calpestio





Pianta Strutturale - Piano Uffici