

Comune di Palau
Provincia di Olbia-Tempio
Settore Lavori Pubblici e Manutenzioni
piazza popoli d'europa, 1 - 07020 palau

LIVELLO

Studio di Fattibilità

TITOLO del PROGETTO

**SERVIZIO DI MANUTENZIONE ORDINARIA E STRAORDINARIA,
ASSUNZIONE RUOLO DI "TERZO RESPONSABILE", DEGLI
IMPIANTI TERMICI E DI CONDIZIONAMENTO PRESSO VARI
IMMOBILI COMUNALI**

ALLEGATO

DESCRIZIONE

3

Calcolo superfici e volumi - Planimetrie

REVISIONE:

IL PROGETTISTA

IL SINDACO

Ufficio Tecnico Lavori Pubblici

Francesco Giuseppe MANNA



data elaborato

gennaio 2022



COMUNE DI
PALAU

ALLEGATO 3

**CALCOLO SUPERFICI E VOLUMI IMMOBILI COMUNALI E PLANIMETRIE
SERVIZIO DI MANUTENZIONE ORDINARIA E STRAORDINARIA, ASSUNZIONE
RUOLO DI "TERZO RESPONSABILE", DEGLI IMPIANTI TERMICI E DI
CONDIZIONAMENTO PRESSO VARI IMMOBILI COMUNALI DEL COMUNE DI PALAU**

Palazzo Fresi

<i>Piano</i>	<i>Vano</i>	<i>Superficie (mq)</i>	<i>Altezza (m)</i>	<i>Volume (mc)</i>	<i>fan-coils</i>
T	1	118,10	3,10	366,11	1
	2	2,71	3,10	8,40	0
	3	1,60	3,10	4,96	0
	4	1,17	3,10	3,63	0
	5	2,48	3,10	7,69	0
	6	1,17	3,10	3,63	0
	7	3,07	3,10	9,52	0
	8	18,49	3,10	57,32	0
	9	21,75	3,10	67,43	1
	10	9,87	3,10	30,60	0
	11	21,82	3,10	67,64	1
	12	25,03	3,10	77,59	1
	13	9,53	3,10	29,54	0
	14	25,16	3,10	78,00	1
	15	29,23	3,10	90,61	1
1	16	21,75	3,10	67,43	1
	17	9,89	3,10	30,66	0
	18	21,81	3,10	67,61	1
	19	25,03	3,10	77,59	1
	20	9,52	3,10	29,51	0
	21	25,16	3,10	78,00	1
TOTALI		404,34		1.253,45	10

Piano Terra
H cm 310

Vicolo Diaz

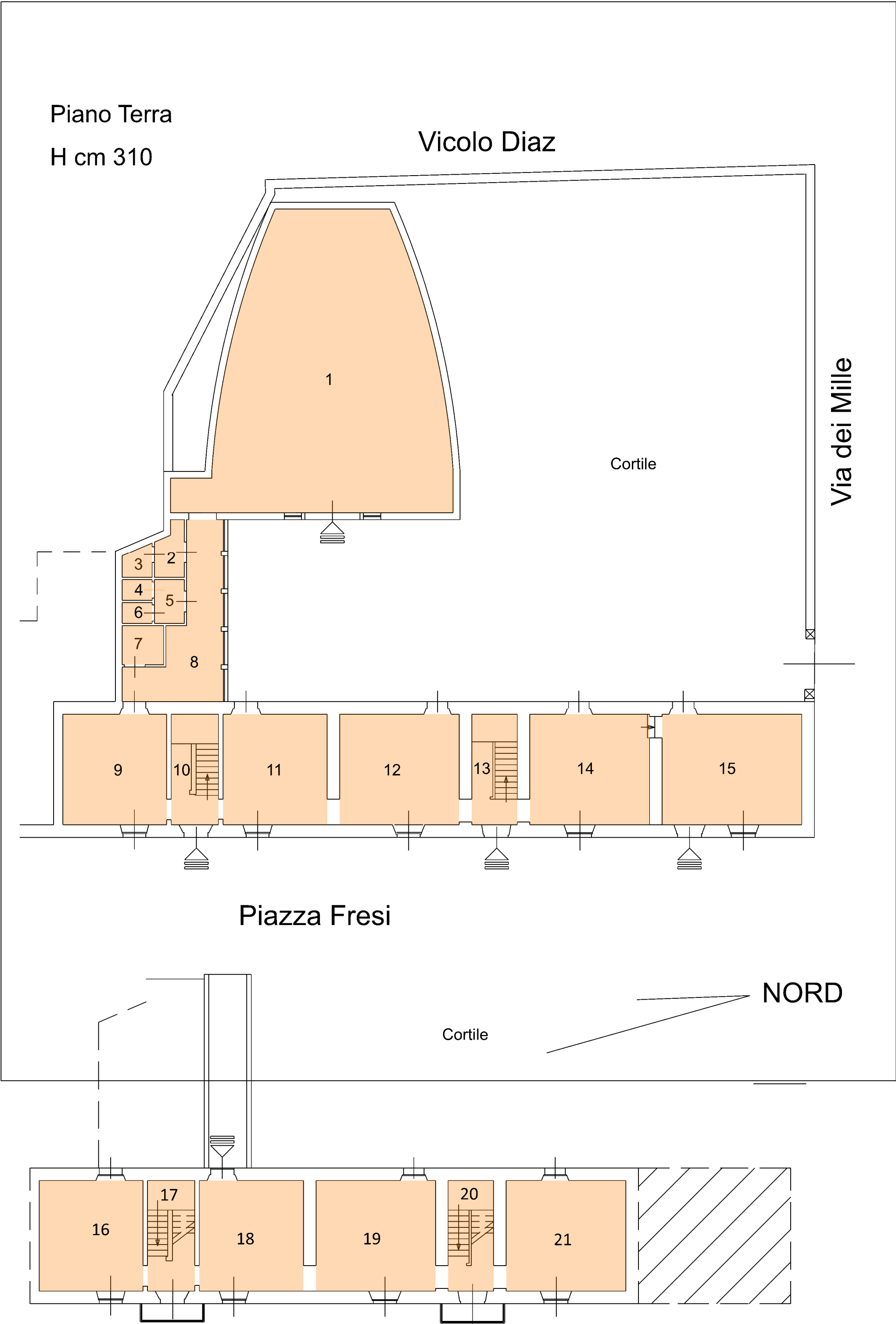
Via dei Mille

Cortile

Piazza Fresi

NORD

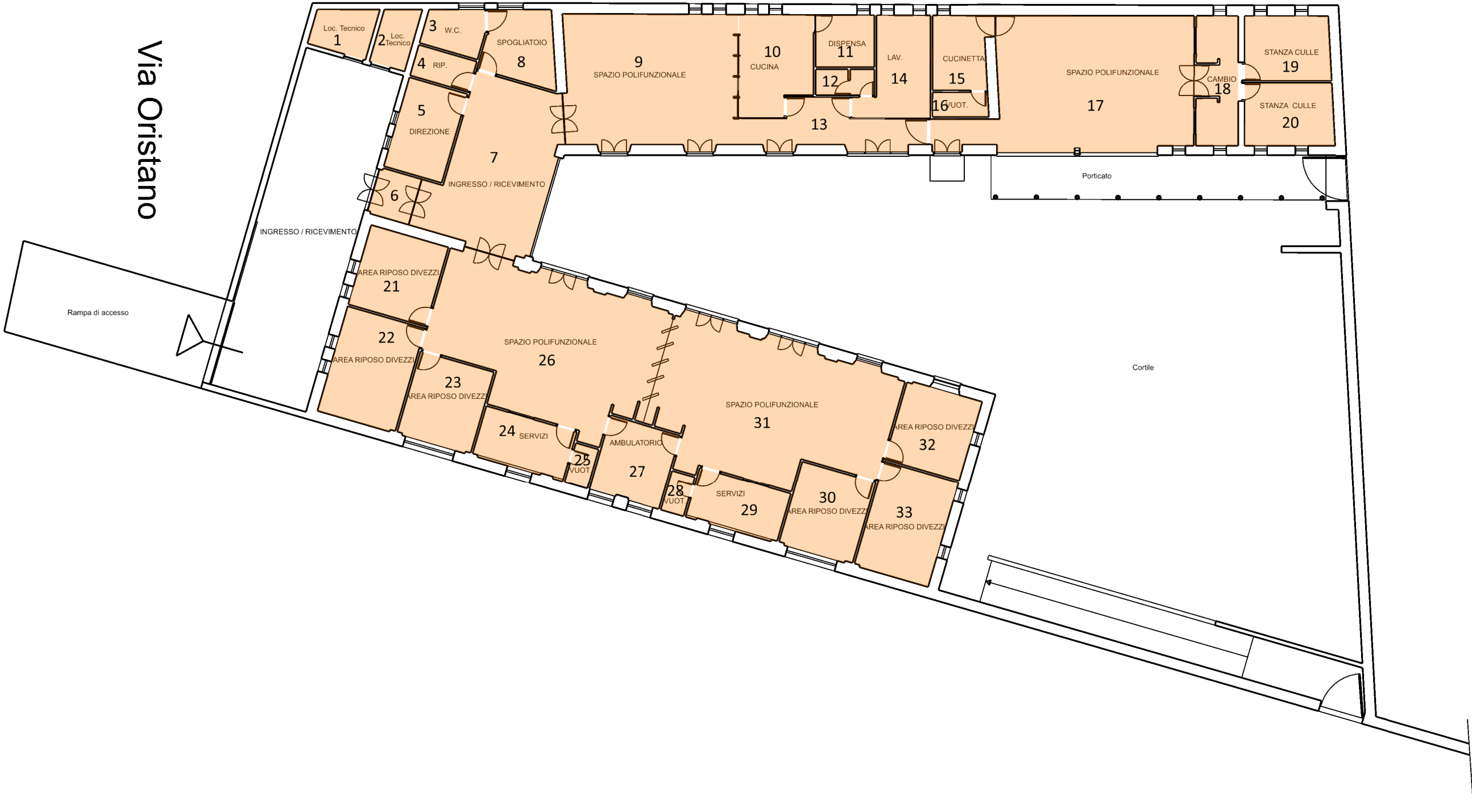
Cortile



Asilo Nido

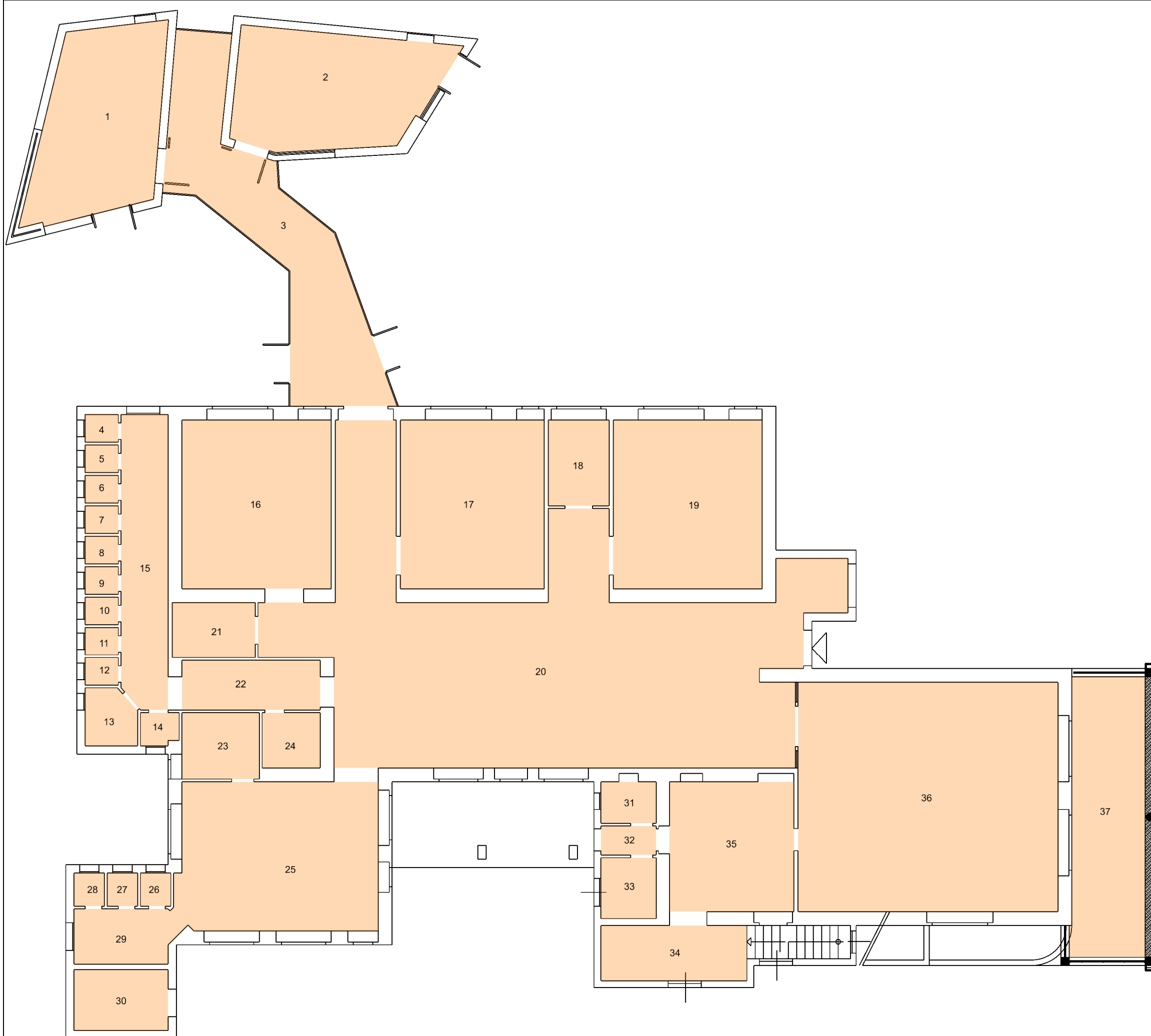
Piano	Vano	Superficie (mq)	Altezza (m)	Volume (mc)	fan-coils
T	1	5,74	3,20	18,37	0
	2	4,68	3,20	14,98	0
	3	5,47	3,20	17,50	0
	4	4,13	3,20	13,22	0
	5	12,04	3,20	38,53	1
	6	4,31	3,20	13,79	0
	7	39,20	3,20	125,44	2
	8	10,65	3,20	34,08	0
	9	50,03	6,36	318,19	2
	10	15,26	6,36	97,05	1
	11	6,61	6,36	42,04	0
	12	3,28	6,36	20,86	0
	13	14,94	6,36	95,02	1
	14	13,04	6,36	82,93	1
	15	9,03	6,36	57,43	0
	16	2,97	6,36	18,89	0
	17	61,80	6,36	393,05	3
	18	11,71	6,36	74,48	1
	19	11,95	6,36	76,00	1
	20	12,07	6,36	76,77	1
	21	14,30	6,36	90,95	1
	22	18,86	6,36	119,95	1
	23	14,15	6,36	89,99	1
	24	10,43	6,36	66,33	0
	25	2,09	6,36	13,29	0
	26	64,85	6,36	412,45	3
	27	12,06	6,36	76,70	1
	28	2,09	6,36	13,29	0
	29	10,48	6,36	66,65	0
	30	14,14	6,36	89,93	1
	31	66,54	6,36	423,19	4
	32	13,81	6,36	87,83	1
	33	18,17	6,36	115,56	1
	TOTALI	560,88		3.294,74	28

Piano Terra
h min m 3.20
h max m 6.36



Scuola Materna

Piano	Vano	Superficie (mq)	Altezza (m)	Volume (mc)	fan-coils
T	1	28,60	3,55	101,53	11
	2	29,43	3,55	104,48	split
	3	37,82	2,40	90,77	4
	4	1,20	2,70	3,24	Termosifoni
	5	1,20	2,70	3,24	8
	6	1,20	2,70	3,24	
	7	1,20	2,70	3,24	
	8	1,20	2,70	3,24	
	9	1,20	2,70	3,24	
	10	1,20	2,70	3,24	
	11	1,20	2,70	3,24	
	12	1,20	2,70	3,24	
	13	3,68	2,70	9,94	
	14	1,60	2,70	4,32	
	15	17,91	2,70	48,36	
	16	32,94	2,70	88,94	
	17	31,72	2,70	85,64	
	18	6,82	2,70	18,41	
	19	32,94	2,70	88,94	
	20	132,52	2,70	357,80	
	21	6,00	2,70	16,20	
	22	9,00	2,70	24,30	
	23	6,72	2,70	18,14	
	24	4,20	2,70	11,34	
	25	38,81	2,70	104,79	
	26	1,32	2,70	3,56	
	27	1,32	2,70	3,56	
	28	1,32	2,70	3,56	
	29	7,20	2,70	19,44	
	30	7,48	2,70	20,20	
	31	3,00	2,70	8,10	
	32	2,10	2,70	5,67	
	33	4,40	2,70	11,88	
	34	10,60	2,70	28,62	
	35	21,15	2,70	57,11	
	36	78,02	2,70	210,65	
	37	27,00	2,70	72,90	
	TOTALI	596,42		1.648,31	23



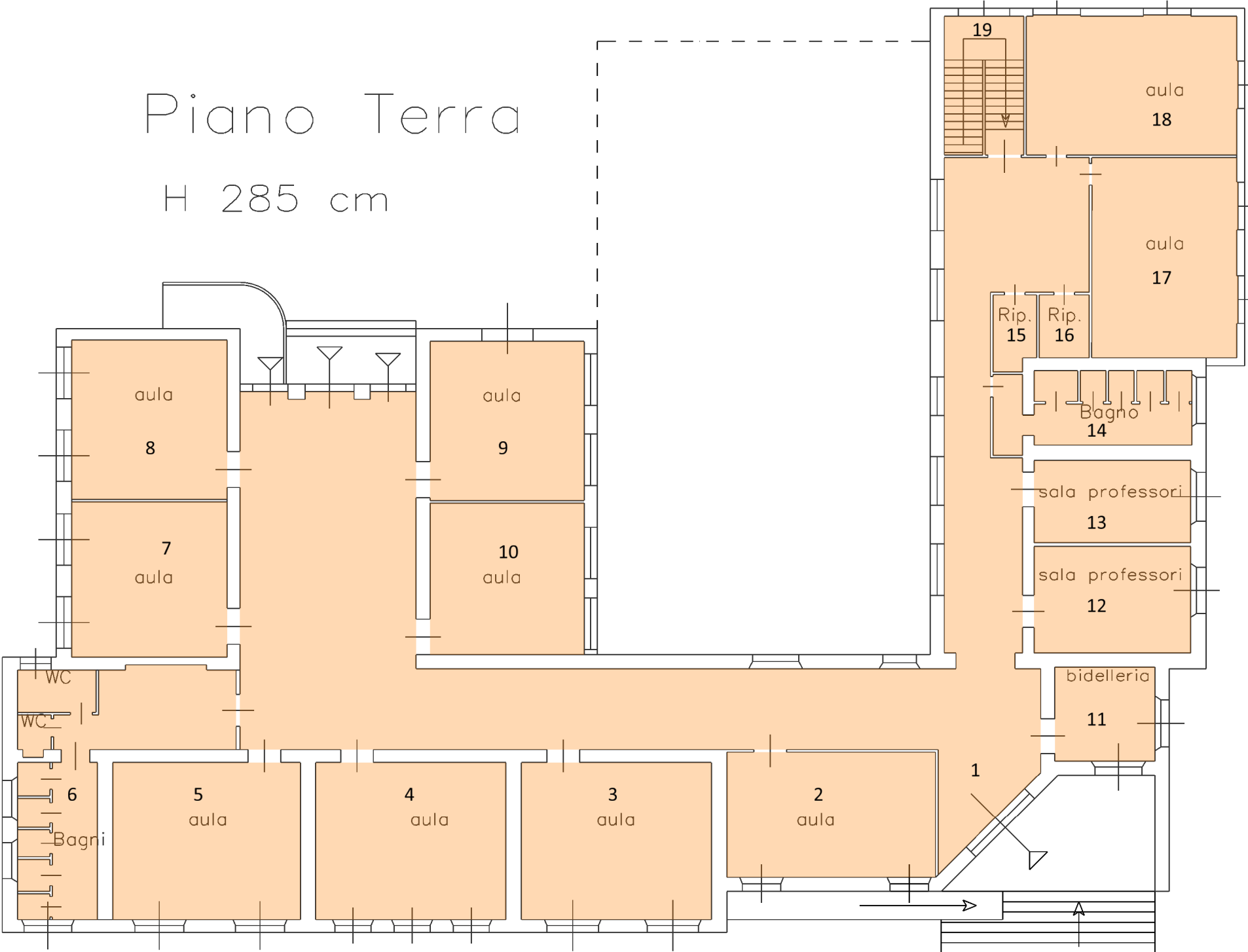
Piano Terra

Scuola Elementare

Piano	Vano	Superficie (mq)	Altezza (m)	Volume (mc)	Termosifoni
T	1	249,26	2,85	710,39	8
	2	39,93	2,85	113,80	1
	3	45,51	2,85	129,70	2
	4	45,51	2,85	129,70	2
	5	44,89	2,85	127,94	1
	6	46,66	2,85	132,98	2
	7	36,60	2,85	104,31	1
	8	37,51	2,85	106,90	1
	9	37,20	2,85	106,02	1
	10	35,40	2,85	100,89	1
	11	14,27	2,85	40,67	1
	12	25,31	2,85	72,13	1
	13	19,52	2,85	55,63	1
	14	21,12	2,85	60,19	1
	15	4,80	2,85	13,68	0
	16	4,78	2,85	13,62	0
	17	44,25	2,85	126,11	2
	18	44,56	2,85	127,00	2
	19	16,74	2,85	47,71	0
1S	20	13,81	2,85	39,36	0
	21	54,82	2,85	156,24	0
	22	107,77	2,85	307,14	3
	23	17,87	2,85	50,93	0
	24	48,58	2,85	138,45	2
	25	3,85	2,85	10,97	0
	26	9,61	2,85	27,39	0
	27	5,02	2,85	14,31	0
	28	36,66	2,85	104,48	0
	29	19,01	2,85	54,18	0
	30	2,92	2,85	8,32	0
	31	48,91	2,85	139,39	0
	32	285,81	2,85	814,56	4
TOTALI		1.468,46		4.185,11	28

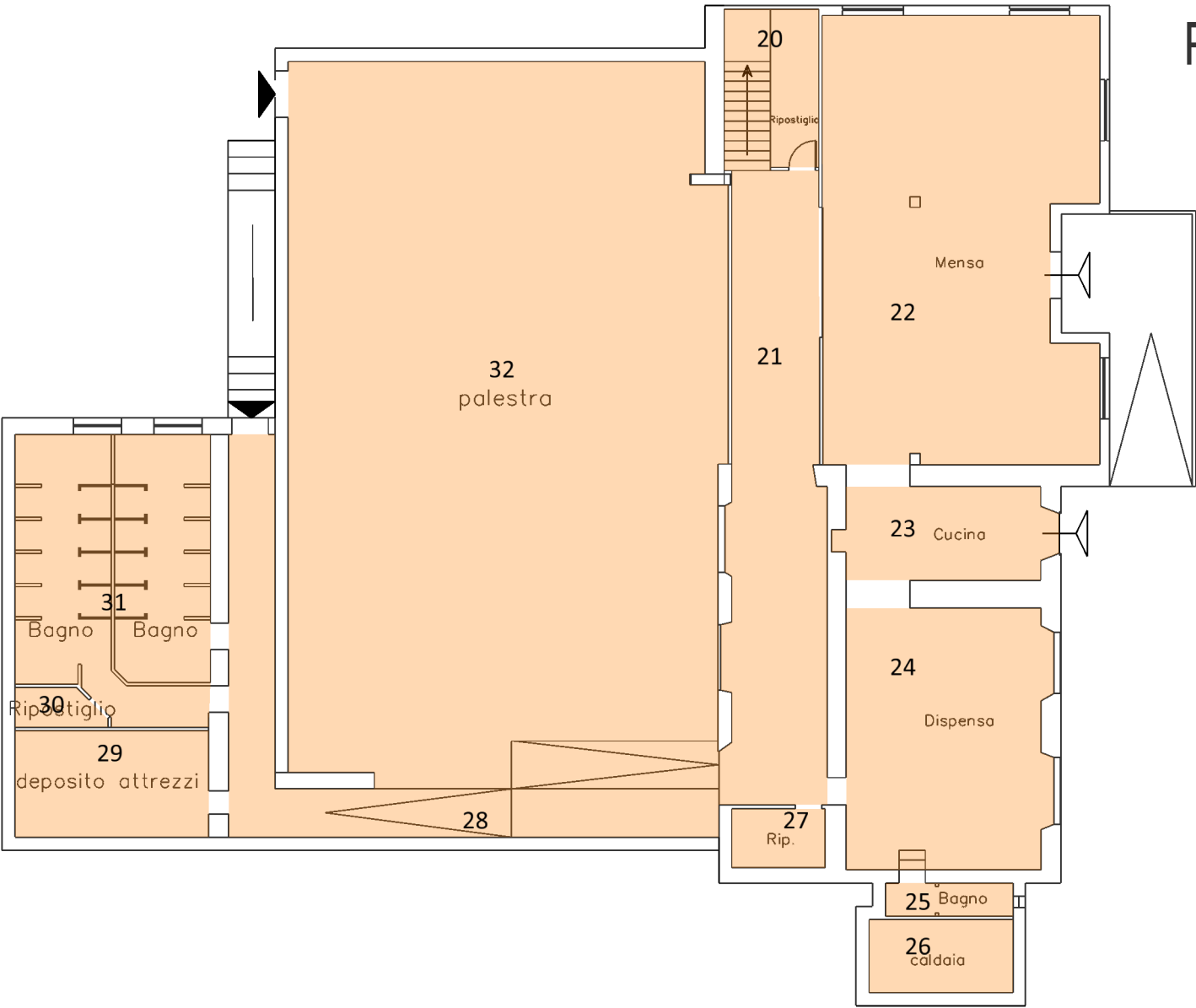
Piano Terra

H 285 cm



Piano Seminterrato

H 285 cm



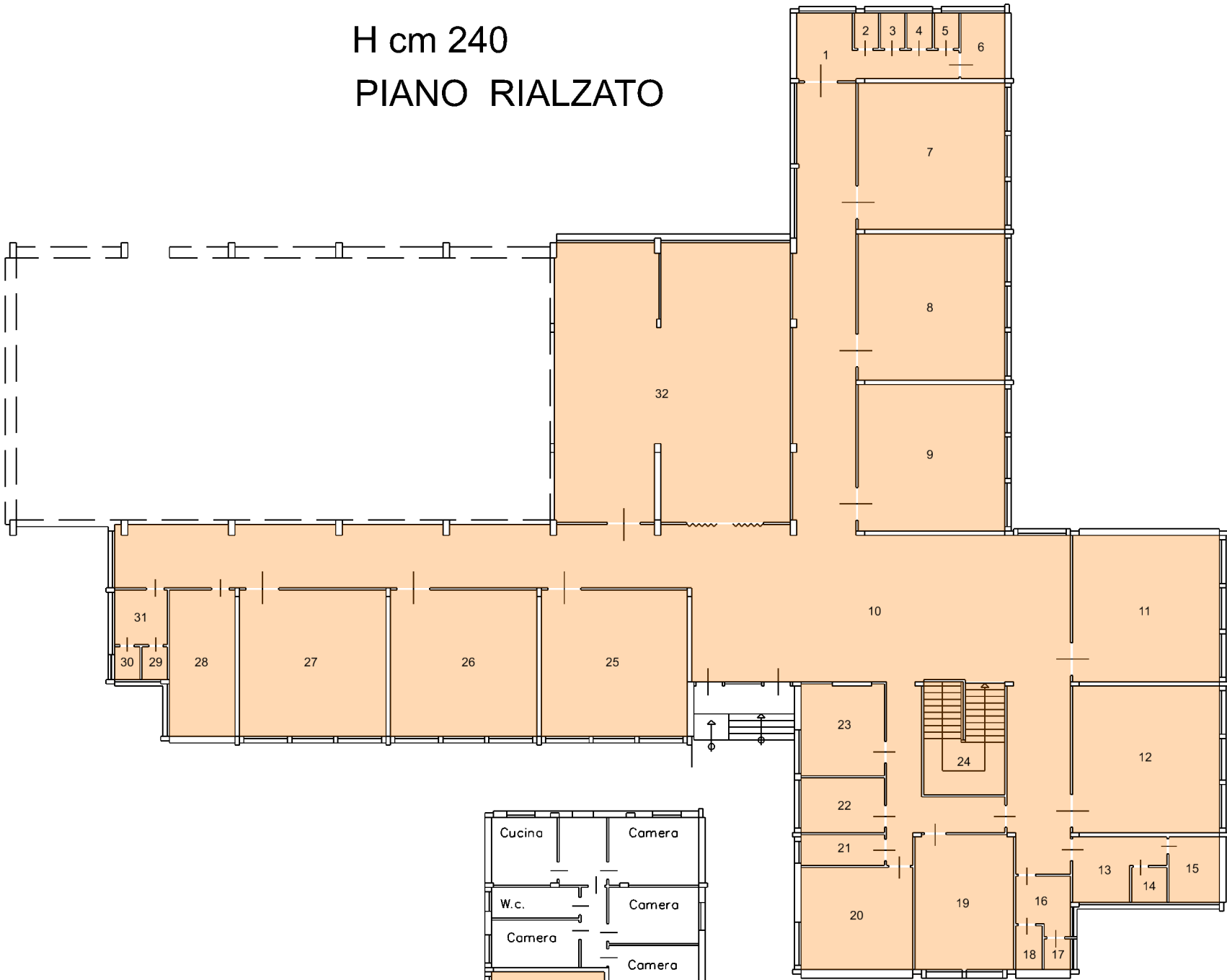
Nord

Scuola Media

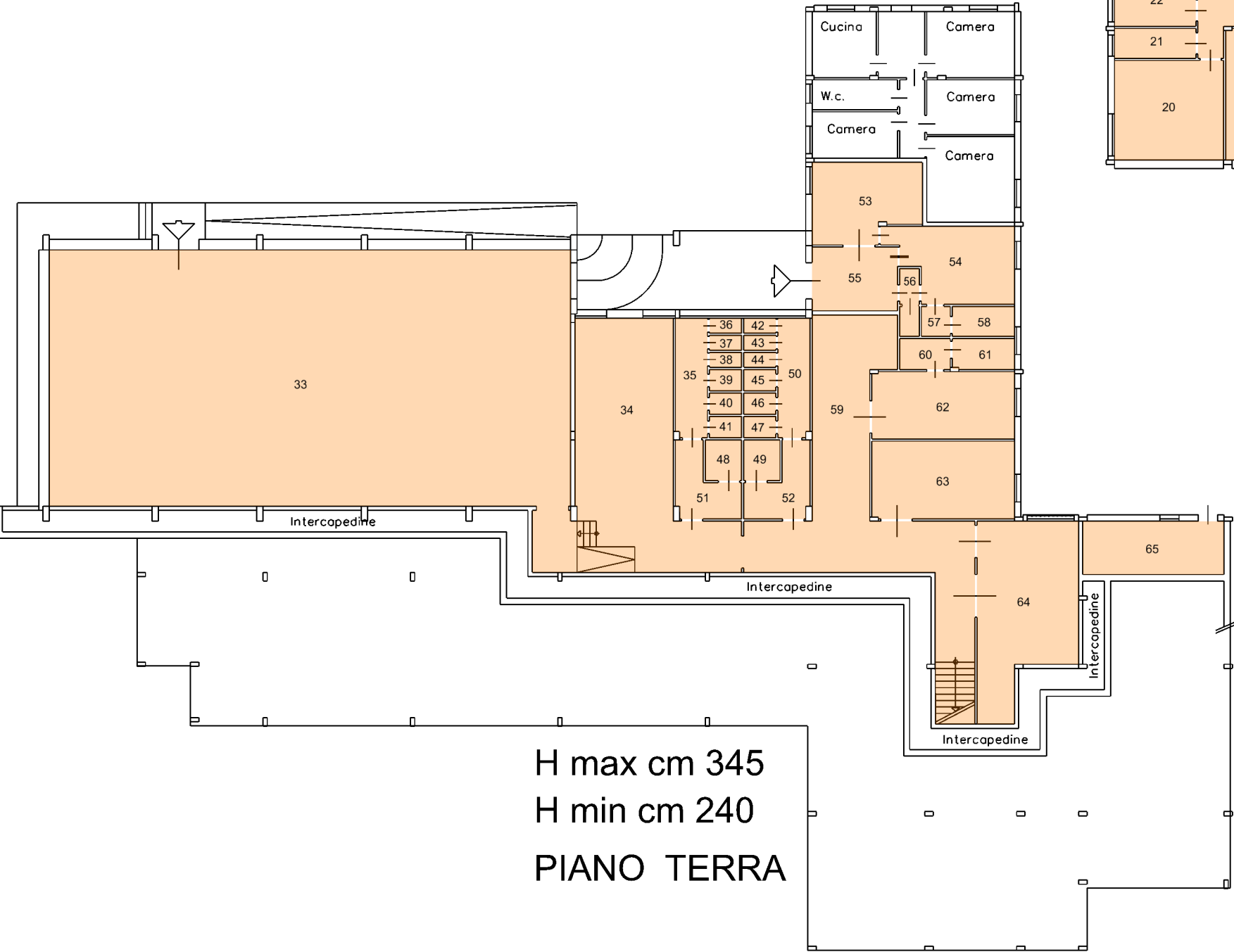
Piano	Vano	Superficie (mq)	Altezza (m)	Volume (mc)	termosifoni
P. rial.	1	14,13	2,95	41,68	2
	2	1,77	2,95	5,22	0
	3	1,77	2,95	5,22	0
	4	1,77	2,95	5,22	0
	5	1,77	2,95	5,22	0
	6	6,00	2,95	17,70	0
	7	44,89	2,95	132,43	0
	8	44,89	2,95	132,43	0
	9	44,89	2,95	132,43	1
	10	295,47	2,95	871,64	11
	11	44,89	2,95	132,43	2
	12	44,89	2,95	132,43	2
	13	10,01	2,95	29,53	1
	14	2,56	2,95	7,55	0
	15	6,90	2,95	20,36	0
	16	6,22	2,95	18,35	1
	17	1,68	2,95	4,96	0
	18	2,40	2,95	7,08	0
	19	27,84	2,95	82,13	2
	20	23,97	2,95	70,71	1
	21	5,32	2,95	15,69	1
	22	9,50	2,95	28,03	1
	23	15,78	2,95	46,55	1
	24	18,74	2,95	55,28	0
	25	44,89	2,95	132,43	2
	26	44,89	2,95	132,43	2
	27	44,89	2,95	132,43	2
	28	20,10	2,95	59,30	1
	29	1,73	2,95	5,10	0
	30	1,73	2,95	5,10	0
	31	6,00	2,95	17,70	1
	32	136,55	2,95	402,82	0
	33	299,04	6,10	1.824,14	2
	34	101,40	2,83	286,96	5
	35	8,34	2,83	23,60	1
	36	1,05	2,83	2,97	0
	37	1,05	2,83	2,97	0
	38	1,05	2,83	2,97	0
	39	1,05	2,83	2,97	0
	40	1,05	2,83	2,97	0

T	41	1,05	2,83	2,97	0
	42	1,05	2,83	2,97	0
	43	1,05	2,83	2,97	0
	44	1,05	2,83	2,97	0
	45	1,05	2,83	2,97	0
	46	1,05	2,83	2,97	0
	47	1,05	2,83	2,97	0
	48	3,23	2,83	9,14	0
	49	3,25	2,83	9,20	0
	50	8,34	2,83	23,60	1
	51	7,75	2,83	21,93	0
	52	7,75	2,83	21,93	0
	53	18,04	2,83	51,05	0
	54	18,62	2,83	52,69	0
	55	11,93	2,83	33,76	0
	56	3,02	2,83	8,55	0
	57	1,89	2,83	5,35	0
	58	4,06	2,83	11,49	0
	59	29,37	2,83	83,12	0
	60	3,48	2,83	9,85	0
	61	4,20	2,83	11,89	1
	62	21,08	2,83	59,66	1
	63	24,43	2,83	69,14	1
	64	36,72	2,83	103,92	1
	65	16,50	2,83	46,70	0
		1.623,87		5.690,87	47

H cm 240
PIANO RIALZATO



H max cm 345
H min cm 240
PIANO TERRA



Centro per Anziani

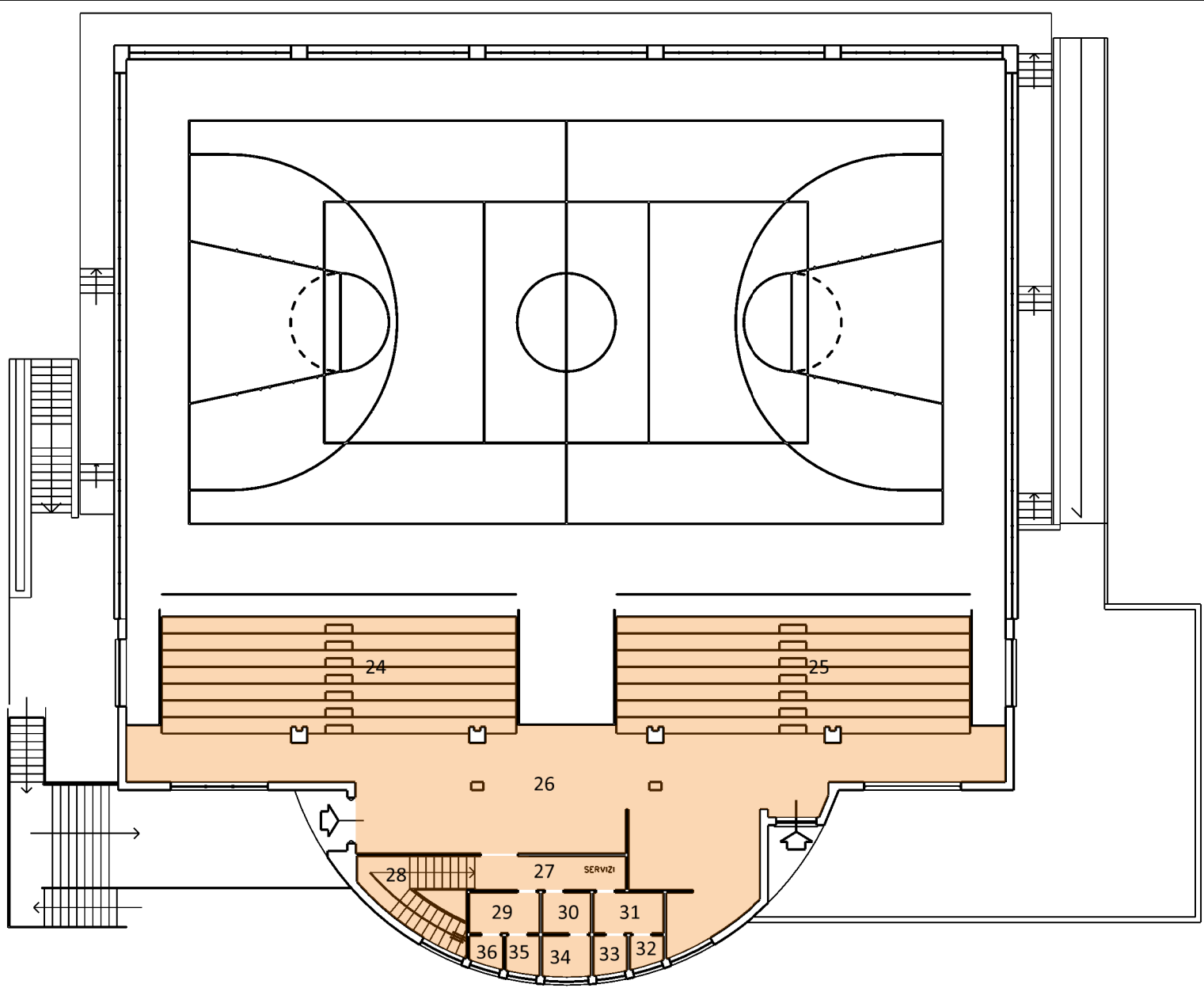
Piano	Vano	Superficie (mq)	Altezza (m)	Volume (mc)	fan-coils
T	1	17,77	2,95	52,42	42
	2	32,48	2,95	95,82	Termosifoni
	3	18,33	2,95	54,07	21
	4	18,33	2,95	54,07	
	5	40,47	2,95	119,39	
	6	39,33	2,95	116,02	
	7	26,53	2,95	78,26	
	8	23,43	2,95	69,12	
	9	26,62	2,95	78,53	
	10	3,85	2,95	11,36	
	11	80,94	2,95	238,77	
1	12	78,27	2,70	211,33	
	13	23,71	2,70	64,02	
	14	3,96	2,70	10,69	
	15	3,96	2,70	10,69	
	16	22,75	2,70	61,43	
	17	29,01	2,70	78,33	
	18	3,96	2,70	10,69	
	19	3,96	2,70	10,69	
	20	23,95	2,70	64,67	
	21	3,06	2,70	8,26	
	22	2,58	2,70	6,97	
	23	30,12	2,70	81,32	
	24	55,20	2,70	149,04	
	25	27,19	2,70	73,41	
	26	7,61	2,70	20,55	
	27	3,91	2,70	10,56	
	28	1,64	2,70	4,43	
	29	2,15	2,70	5,81	
	30	10,56	2,70	28,51	
	31	3,80	2,70	10,26	
	32	2,60	2,70	7,02	
	33	1,20	2,70	3,24	
	34	1,20	2,70	3,24	
	35	1,32	2,70	3,56	
	36	10,46	2,70	28,24	
	37	19,00	2,70	51,30	
	38	40,55	2,70	109,49	
	39	3,80	2,70	10,26	
	40	4,80	2,70	12,96	

2	41	9,75	2,70	26,33	
	42	19,24	2,70	51,95	
	43	14,11	2,70	38,10	
	44	3,80	2,70	10,26	
	45	14,61	2,70	39,45	
	46	3,80	2,70	10,26	
	47	14,51	2,70	39,18	
	48	3,36	2,70	9,07	
	49	3,36	2,70	9,07	
	50	14,51	2,70	39,18	
	51	98,63	2,70	266,30	
	52	6,82	2,70	18,41	
	53	15,07	2,70	40,69	
	54	3,36	2,70	9,07	
	55	3,36	2,70	9,07	
	56	15,07	2,70	40,69	
	57	15,16	2,70	40,93	
	58	3,80	2,70	10,26	
	59	3,80	2,70	10,26	
	60	15,16	2,70	40,93	
	61	14,51	2,70	39,18	
	62	3,36	2,70	9,07	
	63	3,36	2,70	9,07	
	64	14,51	2,70	39,18	
	65	3,04	2,70	8,21	
	66	2,09	2,70	5,64	
	67	4,85	2,70	13,10	
	68	20,71	2,70	55,92	
	69	61,72	2,70	166,64	
	70	23,71	2,70	64,02	
	71	3,96	2,70	10,69	
	72	3,96	2,70	10,69	
	73	22,75	2,70	61,43	
	74	23,73	2,70	64,07	
	75	3,96	2,70	10,69	
	76	3,96	2,70	10,69	
	77	23,95	2,70	64,67	
	78	20,40	2,70	55,08	
	TOTALI	1.294,17		3.576,28	63

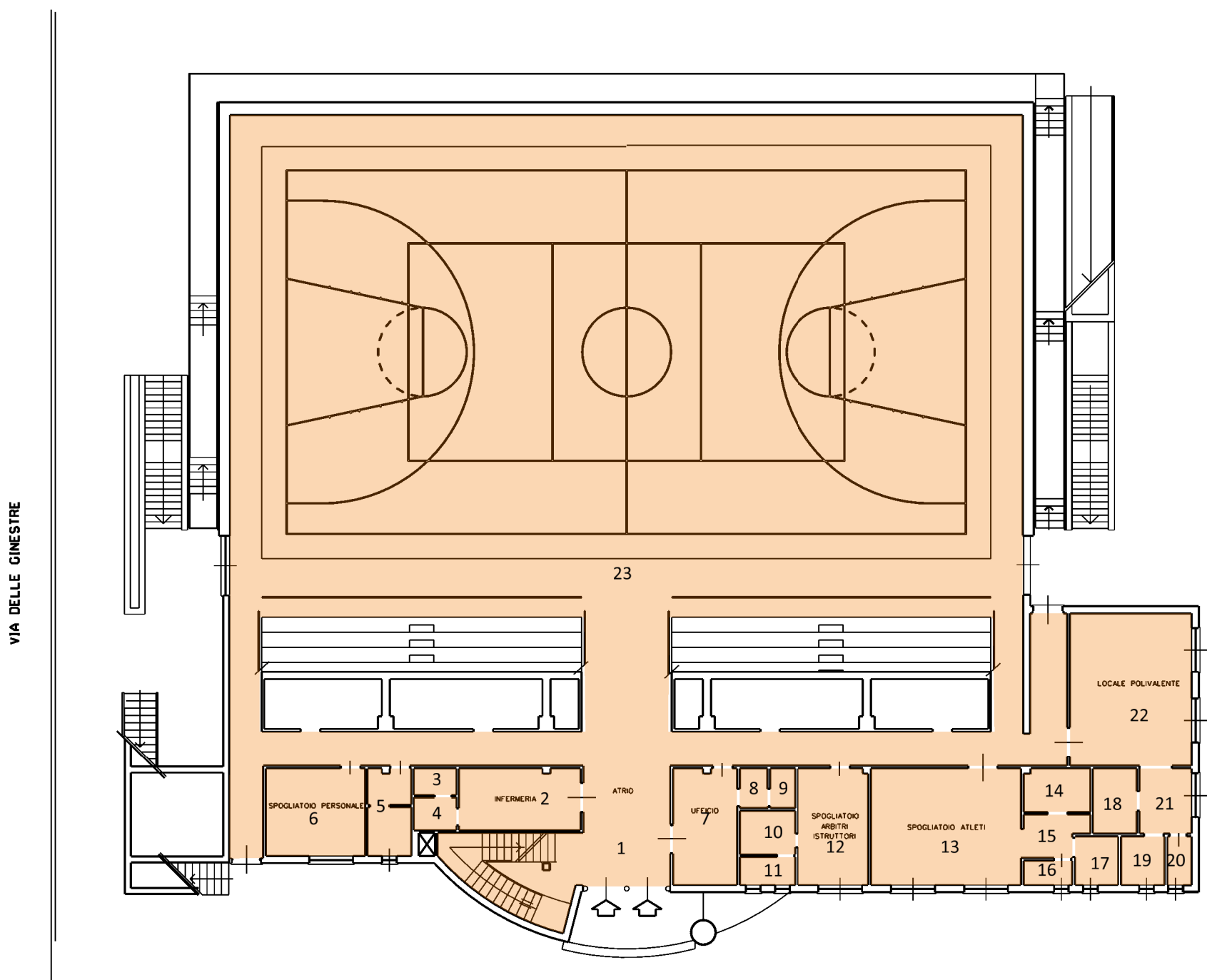


Palazzetto dello Sport

Piano	Vano	Superficie (mq)	Altezza (m)	Volume (mc)	Acqua calda
T	1	96,59	3,30	318,75	
	2	12,68	3,30	41,84	
	3	1,92	3,30	6,34	
	4	2,36	3,30	7,79	
	5	6,31	3,30	20,82	
	6	14,69	3,30	48,48	
	7	12,58	3,30	41,51	
	8	1,86	3,30	6,14	
	9	1,69	3,30	5,58	
	10	4,11	3,30	13,56	
	11	2,63	3,30	8,68	
	12	13,87	3,30	45,77	
	13	29,62	3,30	97,75	
	14	4,89	3,30	16,14	
	15	4,31	3,30	14,22	
	16	2,00	3,30	6,60	
	17	3,54	3,30	11,68	
	18	4,83	3,30	15,94	
	19	3,60	3,30	11,88	
	20	1,97	3,30	6,50	
	21	5,73	3,30	18,91	
	22	31,43	3,30	103,72	
	23	701,55	9,94	6.973,41	
I	24	56,84	8,17	464,38	
	25	56,84	8,17	464,38	
	26	114,64	4,40	504,42	
	27	7,04	4,40	30,98	
	28	11,09	4,40	48,80	
	29	3,90	4,40	17,16	
	30	2,70	4,40	11,88	
	31	3,90	4,40	17,16	
	32	1,37	4,40	6,03	
	33	1,75	4,40	7,70	
	34	2,73	4,40	12,01	
	35	1,74	4,40	7,66	
	36	1,36	4,40	5,98	
TOTALI		1.230,66		9.440,53	



PIANTA PIANO PRIMO H min 4.40 Max 8.17



PIANTA PIANO TERRA H min 3.30 max 9.94

Municipio

Piano	Vano	Superficie (mq)	Altezza (m)	Volume (mc)	n. fan-coils
P.T.	1	13,18	4,00	52,72	1
	2	10,33	4,00	41,32	1
	3	10,12	4,00	40,48	1
	4	5,09	4,00	20,36	1
	5	9,54	4,00	38,16	1
	6	8,33	4,00	33,32	1
	7	17,72	4,00	70,88	1
	8	5,07	4,00	20,28	0
	9	6,60	4,00	26,40	1
	10	4,30	4,00	17,20	0
	11	3,27	4,00	13,08	0
	12	3,00	4,00	12,00	1
	13	14,02	4,00	56,08	1
	14	52,44	4,00	209,76	1
	15	20,52	4,00	82,08	1
	16	5,00	4,00	20,00	0
	17	3,52	4,00	14,08	0
	18	2,87	4,00	11,48	0
	19	2,05	4,00	8,20	0
	20	43,83	4,00	175,32	2
	21	26,40	4,00	105,60	2
	22	2,50	4,00	10,00	1
	23	2,85	4,00	11,40	0
	24	16,97	4,00	67,88	1
	25	7,52	4,00	30,08	0
	26	4,46	4,00	17,84	0
	27	26,00	4,00	104,00	1
	28	21,76	4,00	87,04	1
	29	2,23	4,00	8,92	0
	30	4,37	4,00	17,48	1
	31	2,28	4,00	9,12	0
	32	20,13	4,00	80,52	1
	33	10,39	4,00	41,56	1
	34	32,92	4,00	131,68	1
	35	21,79	4,00	87,16	1
	36	18,94	4,00	75,76	1
	37	20,48	4,00	81,92	1
	38	7,10	4,00	28,40	1
	39	2,81	4,00	11,24	0
	40	3,60	4,00	14,40	1

	41	1,32	4,00	5,28	0
	42	1,38	4,00	5,52	0
	43	2,13	4,00	8,52	1
	44	1,20	4,00	4,80	0
	45	1,41	4,00	5,64	0
	46	2,16	4,00	8,64	1
	47	269,91	4,00	1.079,64	5
	48	42,66	4,00	170,64	2
P.1°	49	17,10	3,15	53,87	1
	50	7,22	3,15	22,74	1
	51	8,69	3,15	27,37	1
	52	1,83	3,15	5,76	0
	53	1,83	3,15	5,76	0
	54	1,76	3,15	5,54	1
	55	1,76	3,15	5,54	1
	56	9,26	3,15	29,17	1
	57	9,26	3,15	29,17	1
	58	14,29	3,15	45,01	1
	59	18,91	3,15	59,57	1
	60	48,88	3,15	153,97	2
	61	25,02	3,15	78,81	1
	62	12,32	3,15	38,81	1
	63	4,15	3,15	13,07	0
	64	29,72	3,15	93,62	1
	65	9,13	3,15	28,76	1
	66	13,29	3,15	41,86	1
	67	18,04	3,15	56,83	1
	68	26,00	3,15	81,90	1
	69	1,38	3,15	4,35	0
	70	1,79	3,15	5,64	0
	71	1,12	3,15	3,53	1
	72	1,29	3,15	4,06	1
	73	29,22	3,15	92,04	1
	74	18,75	3,15	59,06	1
	75	28,76	3,15	90,59	1
	76	21,97	3,15	69,21	1
	77	21,63	3,15	68,13	1
	78	25,53	3,15	80,42	1
	79	18,64	3,15	58,72	1
sottotot.	80	134,08	3,00	402,24	1
	TOTALI	1.401,09		5.089,02	66

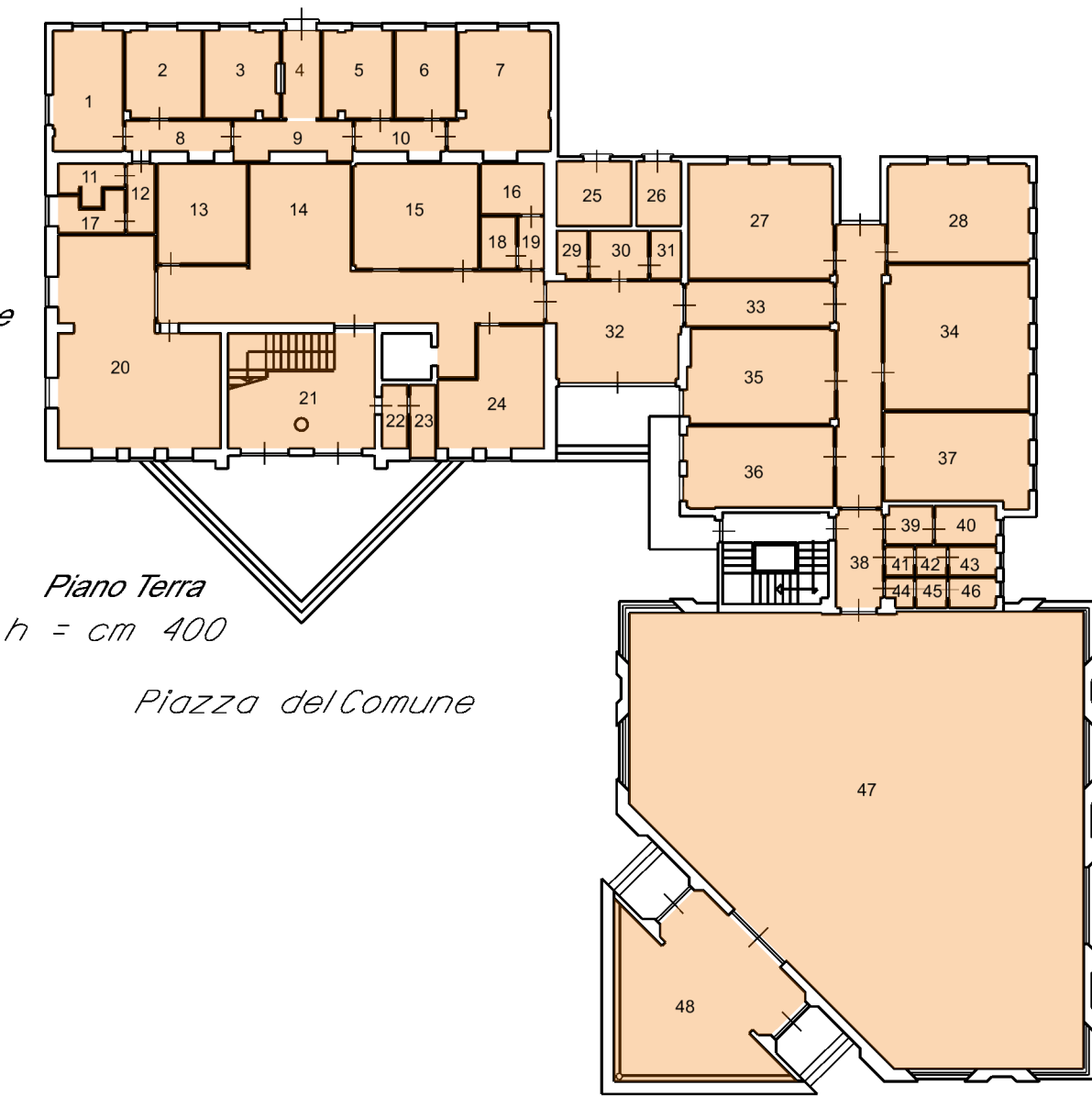
di cui 9 termosifoni

Via Omero

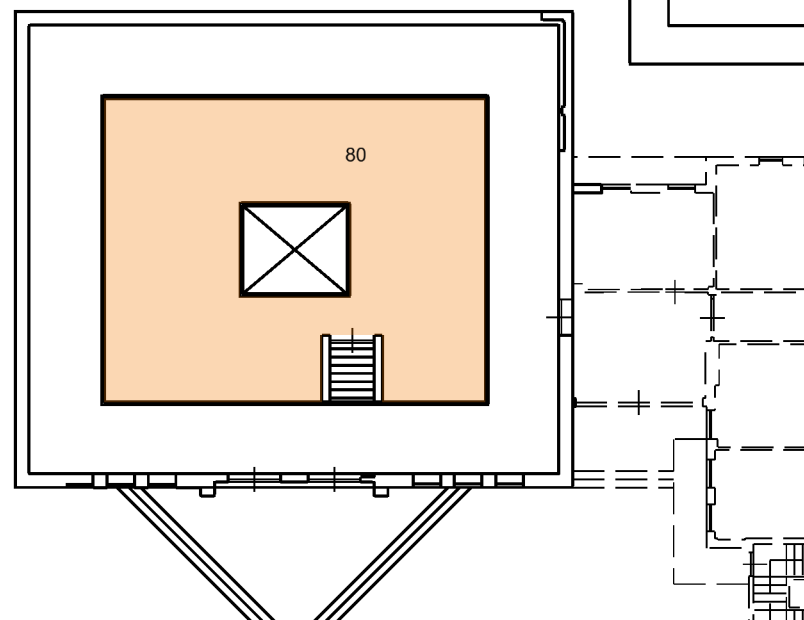
Via Ulisse

Piano Terra
h = cm 400

Piazza del Comune



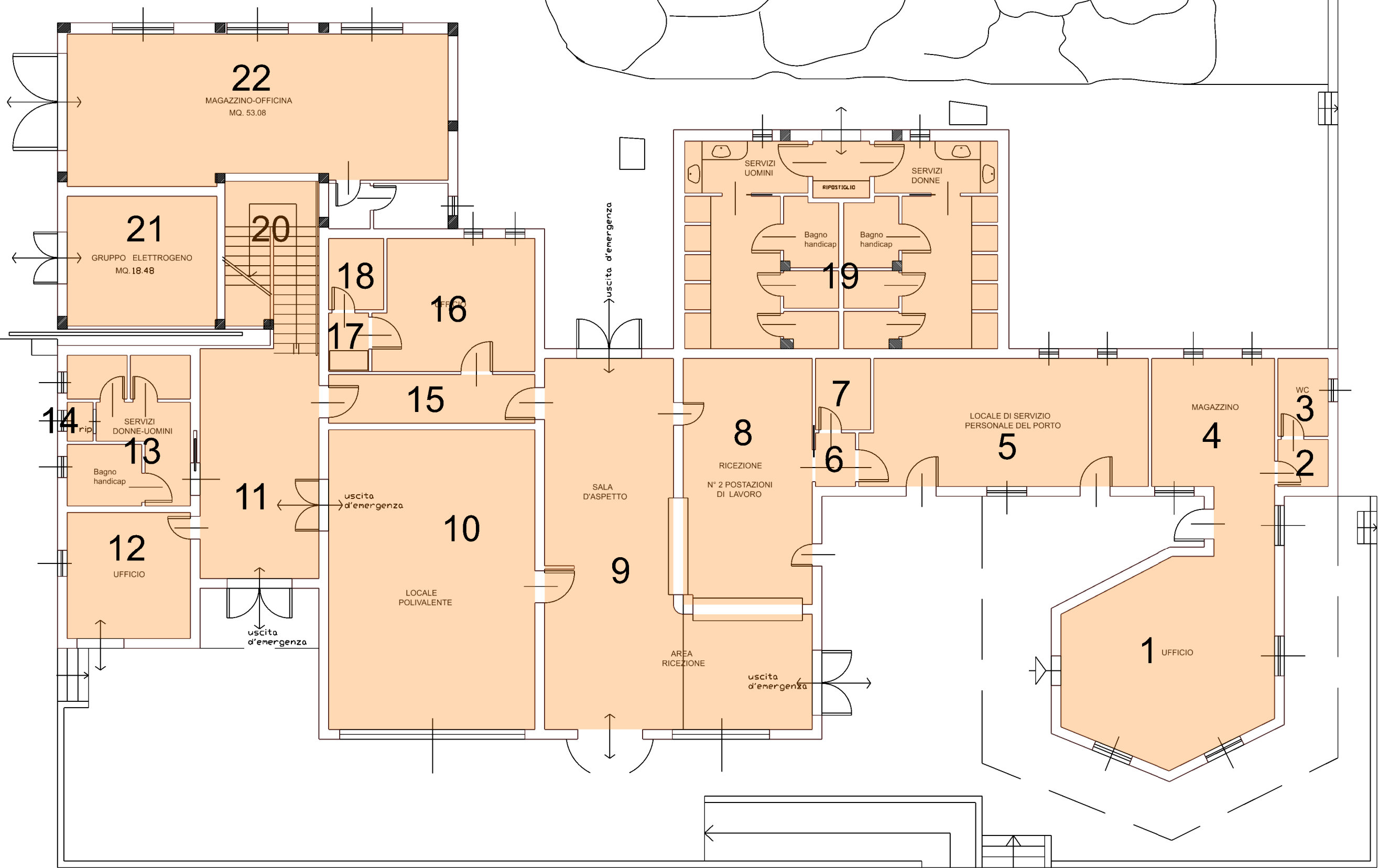
Piano Primo
h min = cm 275
h max = cm 355



Locali al Servizio del Porto Turistico

Piano	Vano	Superficie (mq)	Altezza (m)	Volume (mc)	fan-coils
T	1	39,69	2,95	117,09	21
	2	2,25	2,95	6,64	f.-c. - a soffitto
	3	3,72	2,95	10,97	2
	4	15,02	2,95	44,31	
	5	34,22	2,95	100,95	
	6	2,04	2,95	6,02	
	7	3,74	2,95	11,03	
	8	30,25	2,95	89,24	
	9	60,67	2,95	178,98	
	10	59,02	2,95	174,11	
	11	25,86	2,95	76,29	
	12	14,82	2,95	43,72	
	13	15,89	2,95	46,88	
	14	0,95	2,95	2,80	
	15	9,57	2,95	28,23	
	16	19,62	2,95	57,88	
	17	2,22	2,95	6,55	
	18	3,74	2,95	11,03	
	19	57,90	2,95	170,81	
	20	14,05	2,95	41,45	
	21	18,47	2,95	54,49	
	22	53,07	2,95	156,56	
1	23	12,93	3,00	38,79	
	24	77,61	3,00	232,83	
	25	1,80	3,00	5,40	
	26	3,22	3,00	9,66	
TOTALI		582,34		1.722,68	23

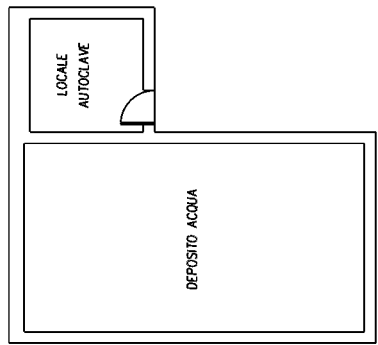
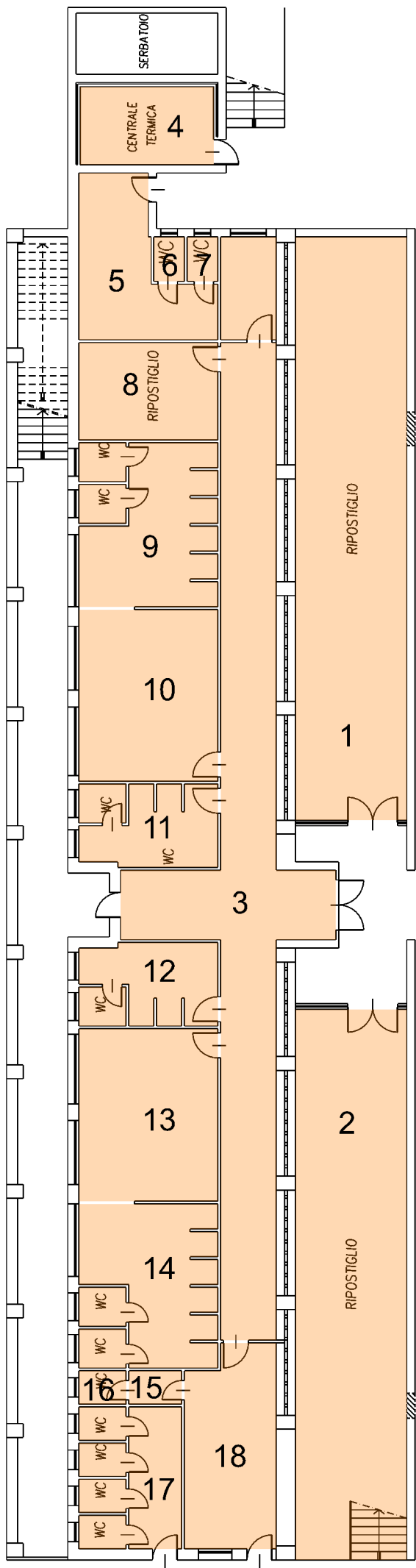
Variante
 Pianta Piano Terra -
 scala 1:100



Pianta Piano Terra h 2.95

Campo Sportivo Comunale

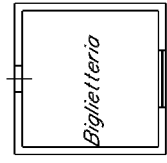
Piano	Vano	Superficie (mq)	Altezza (m)	Volume (mc)	Termosifoni
T	1	84,00	1,80	151,20	6
	2	79,20	1,80	142,56	
	3	86,16	3,35	288,64	
	4	13,44	3,35	45,02	
	5	20,17	3,35	67,57	
	6	1,76	3,35	5,90	
	7	1,76	3,35	5,90	
	8	17,50	3,35	58,63	
	9	28,50	3,35	95,48	
	10	31,00	3,35	103,85	
	11	14,27	3,35	47,80	
	12	14,27	3,35	47,80	
	13	31,00	3,35	103,85	
	14	28,50	3,35	95,48	
	15	2,28	3,35	7,64	
	16	2,04	3,35	6,83	
	17	18,13	3,35	60,74	
	18	23,12	3,35	77,45	
	TOTALI	497,10		1.412,33	6



Mappale 3208

Mappale 3207

Piano Terra
 $h_{min} = cm\ 180$
 $h_{max} = cm\ 335$



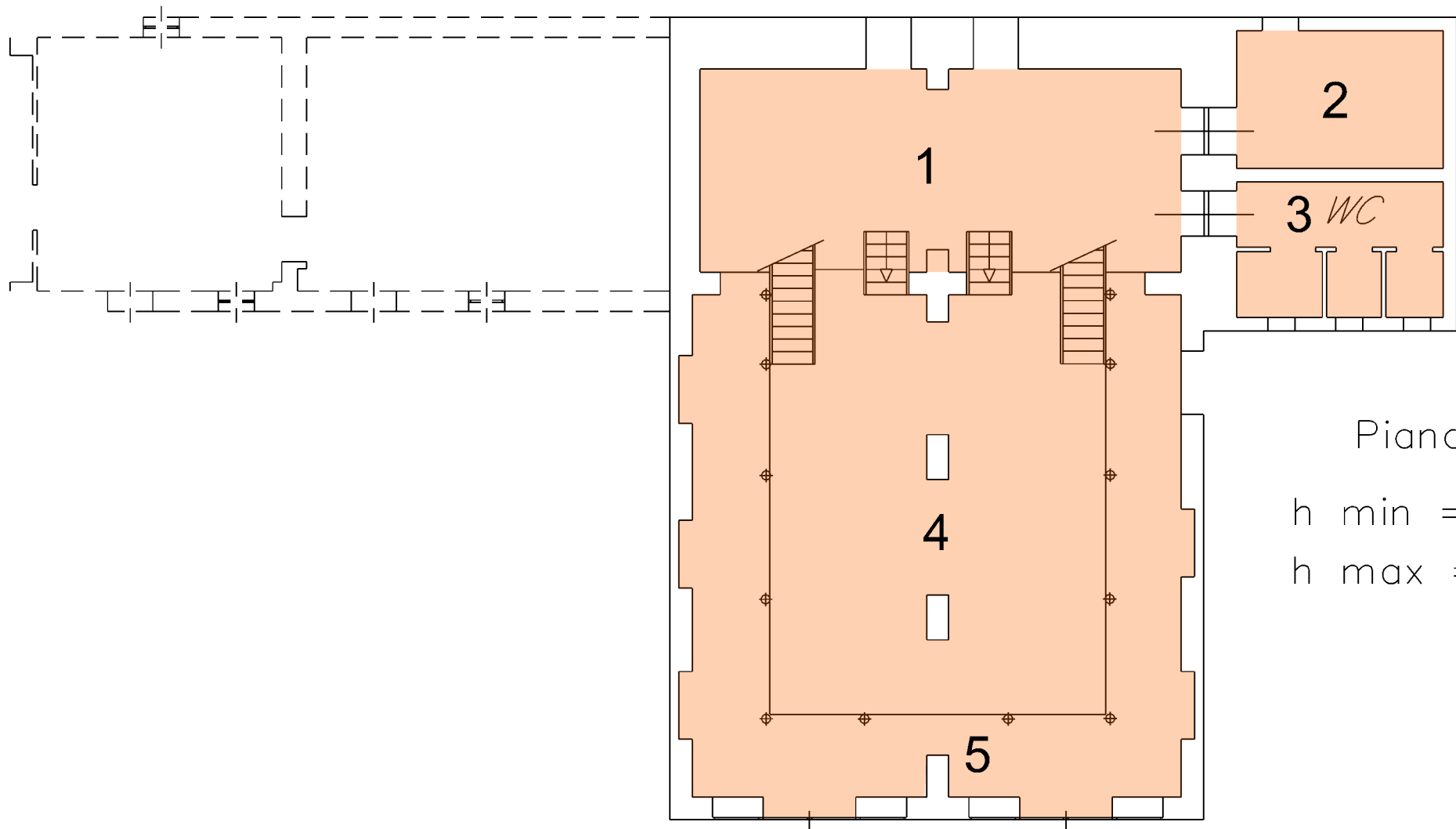
Mappale 3205



Centro di Documentazione

<i>Piano</i>	<i>Vano</i>	<i>Superficie (mq)</i>	<i>Altezza (m)</i>	<i>Volume (mc)</i>	<i>fan-coils</i>
<i>T</i>	1	47,83	4,00	191,32	3 a soffitto
	2	13,97	4,00	55,88	12
	3	13,25	4,00	53,00	0
	4	70,94	3,35	237,65	
	5	56,41	3,00	169,23	
<i>Soppalco</i>	6	54,22	3,80	206,04	
	7	58,46	2,80	163,69	
	TOTALI	315,08		1.076,80	15

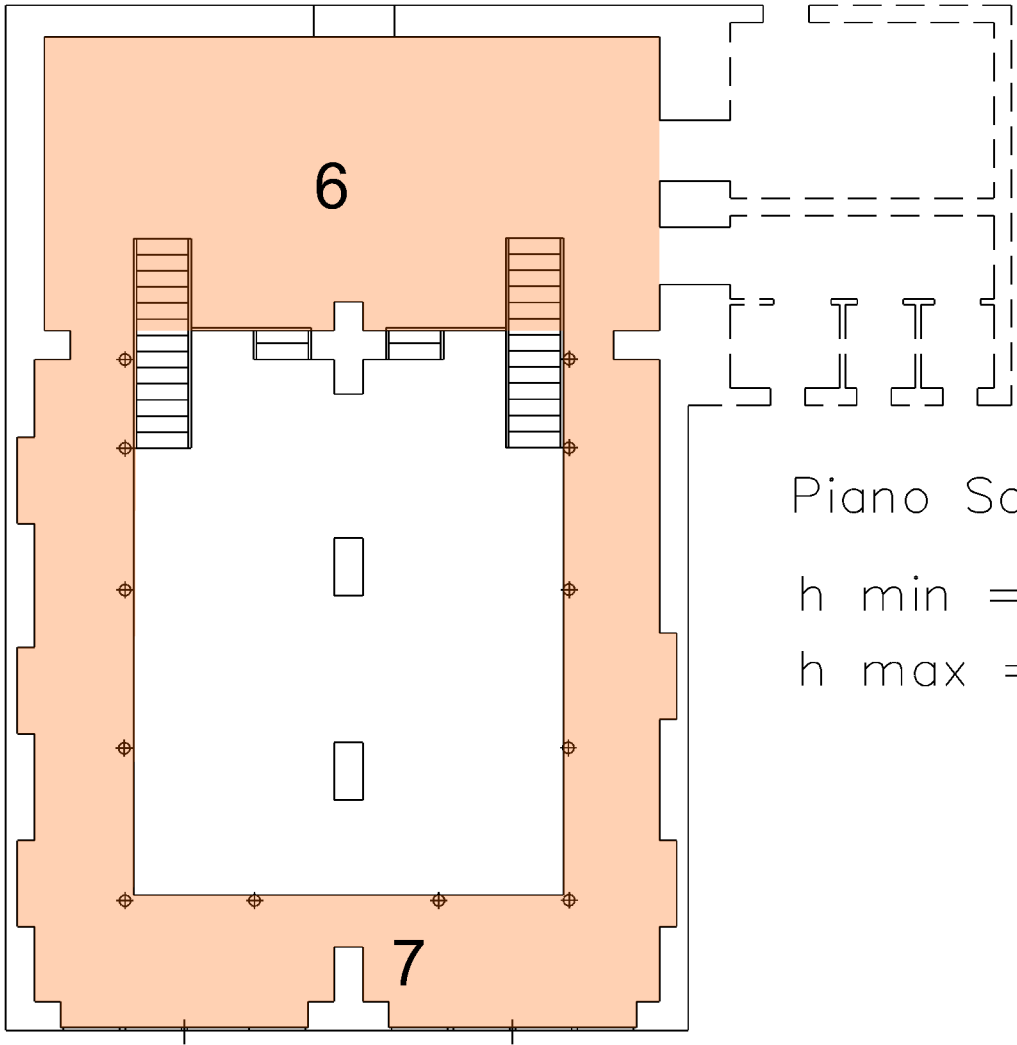
Via Nazionale



Piano Terra

h min = 4,00

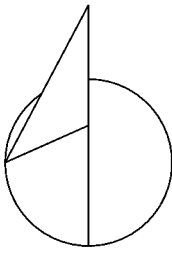
h max = 9,00



Piano Soppalcato

h min = 2,80

h max = 4,80



Cineteatro e laboratori

Piano	Vano	Superficie (mq)	Altezza (m)	Volume (mc)	Termoconvettori
T	1	137,77	4,75	654,41	22
	2	10,19	4,75	48,40	Canalizzato
	3	5,15	4,75	24,46	0
	4	2,02	4,75	9,60	0
	5	2,02	4,75	9,60	0
	6	6,15	4,75	29,21	0
	7	18,43	4,75	87,54	0
	8	6,29	4,75	29,88	0
	9	12,92	4,75	61,37	0
	10	3,20	4,75	15,20	0
	11	17,31	4,75	82,22	0
	12	6,83	4,75	32,44	0
	13	149,92	4,75	712,12	1
	14	16,93	4,75	80,42	0
	15	8,40	4,75	39,90	0
	16	368,16	4,75	1.748,76	1
	17	35,72	4,75	169,67	1
	18	16,58	4,75	78,76	0
	19	3,52	4,75	16,72	0
	20	4,33	4,75	20,57	0
	21	4,14	4,75	19,67	0
	22	1,45	4,75	6,89	0
	23	1,41	4,75	6,70	0
	24	1,29	4,75	6,13	0
	25	1,43	4,75	6,79	0
	TOTALI	841,56		3.997,41	25

