

SHKOLLA 9 VJECARE "EMIN DURAKU "

PROJEKTI HVAC

HVAC SYSTEM DESIGN

"EMIN DURAKU" 9 YEAR SCHOOL

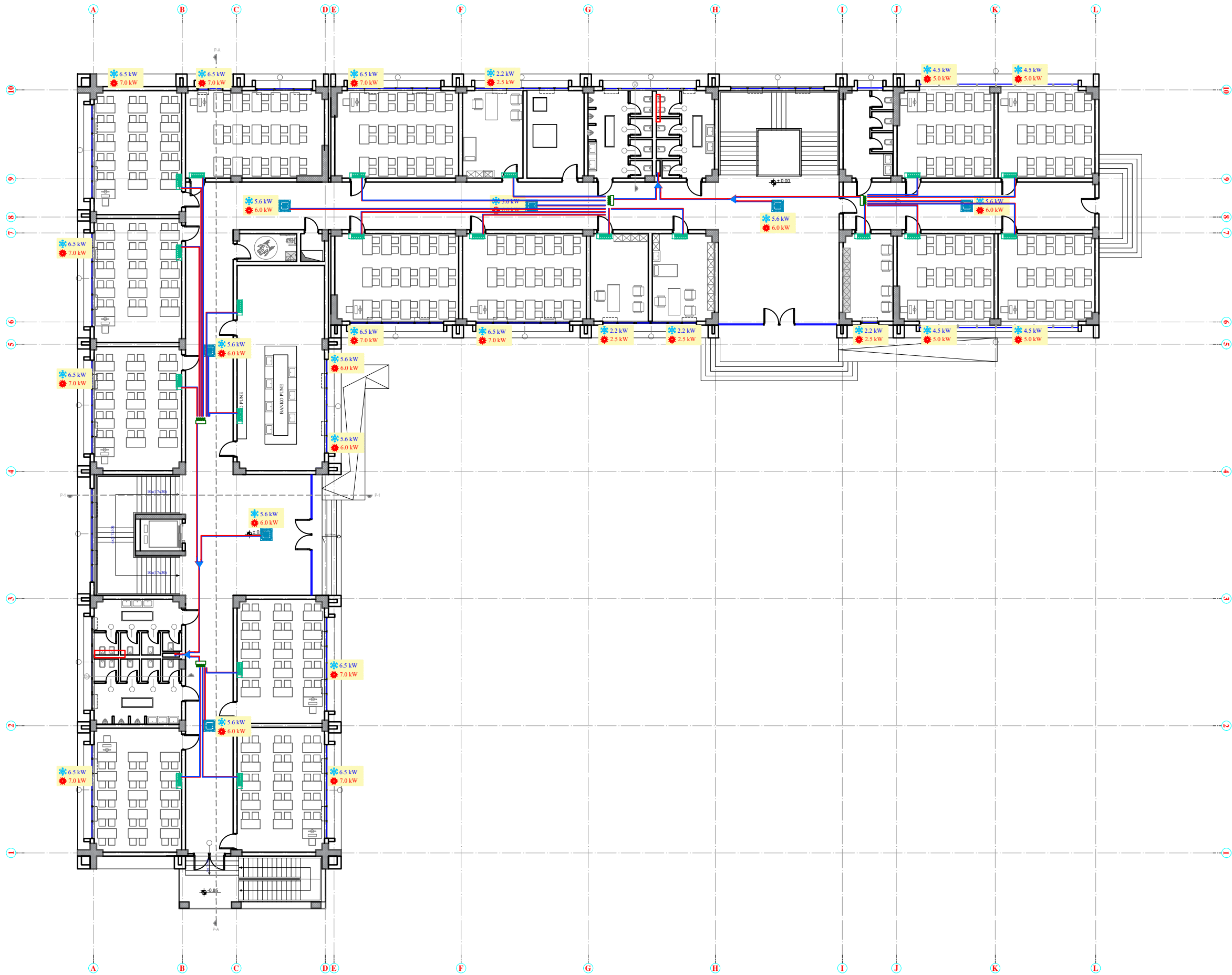
 HT CONSTRUCTION SHKOLLA 9 VJECARE SUPERVISION-KOLATIME LLC, MK 3289	"H.T. Construction (High Tech Construction)" shpk e-mail: class.construction@yahoo.com Lic. N.6886/3 Programme Title/Titulli i Programit: EU4Schools/ BE Per Shkollat Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tirana Municipality / Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë			Architect/ Arkitekt:	Lic. A.0079/3	Lic. A.1413/1	Drawing No./ Nr. i Vizatimit: HVAC00
				Structural Eng./ Konstruktor:		Lic. K.1049/3	(Sheet name/ Emertimi i fletes)
				Electrical Eng./Ing. Elektrik:			Scale / Shkalla 1:250
				H-Technical Eng./Ing. H-Teknik: FPD Expert/Eksp. MNZ: HVAC Eng./Ing. NVAK:	Lic. E.1188/1	Lic. H/T.0506/4 Lic. PZ M.106/1 Lic. M.1066/3	Phase/Faza: Detailed Design/ Projekt Zbatim: Date / Data November / Nëntor 2021 Code/ Kodi: P155

LISTA E FLETEVE
SHEET LIST

- HVAC00 - KAPAKU - *COVER*
- HVAC01 - LISTA E FLETEVE - *SHEET LIST*
- HVAC02 - SISTEMI HVAC NE KATIN PERDHE - HVAC SYSTEM GROUND FLOOR
- HVAC03 -DIMENSIONIMI I TUBACIONEVE PER SISTEMIN HVAC NE KATIN PERDHE A-C *PIPING DIAGRAM FOR HVAC SYSTEM GROUND FLOOR - SKEMA ELEKTRIKE PER SISTEMIN HVAC NE KATIN PERDHE WIRING DIAGRAM FOR HVAC SYSTEM GROUND FLOOR A-C*
- HVAC04 -DIMENSIONIMI I TUBACIONEVE PER SISTEMIN HVAC NE KATIN PERDHE D-L *PIPING DIAGRAM FOR HVAC SYSTEM GROUND FLOOR - SKEMA ELEKTRIKE PER SISTEMIN HVAC NE KATIN PERDHE WIRING DIAGRAM FOR HVAC SYSTEM GROUND FLOOR D-L*
- HVAC05 - SISTEMI HVAC NE KATIN E PARE - HVAC SYSTEM FIRST FLOOR
- HVAC06 -DIMENSIONIMI I TUBACIONEVE PER SISTEMIN HVAC NE KATIN E PARE A-C *PIPING DIAGRAM FOR HVAC SYSTEM FIRST FLOOR - SKEMA ELEKTRIKE PER SISTEMIN HVAC NE KATIN E PARE WIRING DIAGRAM FOR HVAC SYSTEM FIRST FLOOR A-C*
- HVAC07 -DIMENSIONIMI I TUBACIONEVE PER SISTEMIN HVAC NE KATIN E PARE D-L *PIPING DIAGRAM FOR HVAC SYSTEM FIRST FLOOR - SKEMA ELEKTRIKE PER SISTEMIN HVAC NE KATIN E PARE WIRING DIAGRAM FOR HVAC SYSTEM FIRST FLOOR D-L*
- HVAC08 - SISTEMI HVAC NE KATIN E DYTE - HVAC SYSTEM SECOND FLOOR
- HVAC09 -DIMENSIONIMI I TUBACIONEVE PER SISTEMIN HVAC NE KATIN E DYTE A-C *PIPING DIAGRAM FOR HVAC SYSTEM SECOND FLOOR - SKEMA ELEKTRIKE PER SISTEMIN HVAC NE KATIN E DYTE WIRING DIAGRAM FOR HVAC SYSTEM SECOND FLOOR A-C*
- HVAC10 -DIMENSIONIMI I TUBACIONEVE PER SISTEMIN HVAC NE KATIN E DYTE D-L *PIPING DIAGRAM FOR HVAC SYSTEM SECOND FLOOR - SKEMA ELEKTRIKE PER SISTEMIN HVAC NE KATIN E DYTE WIRING DIAGRAM FOR HVAC SYSTEM SECOND FLOOR D-L*
- HVAC11 - SISTEMI HVAC NE KATIN E TRETE - HVAC SYSTEM THIRD FLOOR
- HVAC12 -DIMENSIONIMI I TUBACIONEVE PER SISTEMIN HVAC NE KATIN E TRETE A-C *PIPING DIAGRAM FOR HVAC SYSTEM THIRD FLOOR - SKEMA ELEKTRIKE PER SISTEMIN HVAC NE KATIN E TRETE WIRING DIAGRAM FOR HVAC SYSTEM THIRD FLOOR A-C*
- HVAC13 -DIMENSIONIMI I TUBACIONEVE PER SISTEMIN HVAC NE KATIN E TRETE D-L *PIPING DIAGRAM FOR HVAC SYSTEM THIRD FLOOR - SKEMA ELEKTRIKE PER SISTEMIN HVAC NE KATIN E TRETE WIRING DIAGRAM FOR HVAC SYSTEM THIRD FLOOR D-L*
- HVAC14 - SISTEMI HVAC PALESTRA - *HVAC SYSTEM GYM*
- HVAC15 - DETAJE TE INSTALIMIT TE SISTEMIT HVAC - HVAC SYSTEM INSTALLATION DETAILS
- HVAC16 - DETAJE TE INSTALIMIT TE SISTEMIT HVAC - HVAC SYSTEM INSTALLATION DETAILS
- HVAC17 - DETAJE TE INSTALIMIT TE SISTEMIT HVAC - HVAC SYSTEM INSTALLATION DETAILS
- HVAC18 - POZICIONIMI I NJESIVE TE JASHTEME NE TARRACE - OUTDOOR UNITS ROOF PLAN

 HT CONSTRUCTION NJIS L81818018A PROJEKTI M. LIC. N. 6886/1 SUPERVENZION-KOLA TIME LIC. MK. 7282		"H.T. Construction (High Tech Construction)" shpk												
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		Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tiranë Municipality / Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë				Structural Eng./ Konstruktor:		Ernal Grabova	Lic. A.1413/1					
								Hydajet Tota	Lic. K.1049/3					
								Amela Stërnaj						
								Amisa Saraçini						
								Xhovana Kokla						
								Vaso Papamihali	Lic. E.1188/1					
								Electrical Eng./Ing. Elektrik:		Phase/Faza:		Scale / Shkalla 1:250		
								H-Technical Eng./Ing. H-Teknik:		Detailed Design/ Projekt Zbatim:			Date / Data November / Nëntor 2021	
								FPD Expert/Eksp. MNZ:						Code/ Kodi: P155
								HVAC Eng./Ing. NVAK:						
 EU4SCHOOLS EUROPEAN UNION UNITED NATIONS DEVELOPMENT PROGRAMME (UNDP)		Donor/Financuesi: European Union EU/ Bashkimi Europian BE Implementing Agency/Agjensia Zbatuese: United Nations Development Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)												

SISTEMI HVAC KATI PERDHE SH 1:250
HVAC SYSTEM GROUND FLOOR PLAN SC 1:250

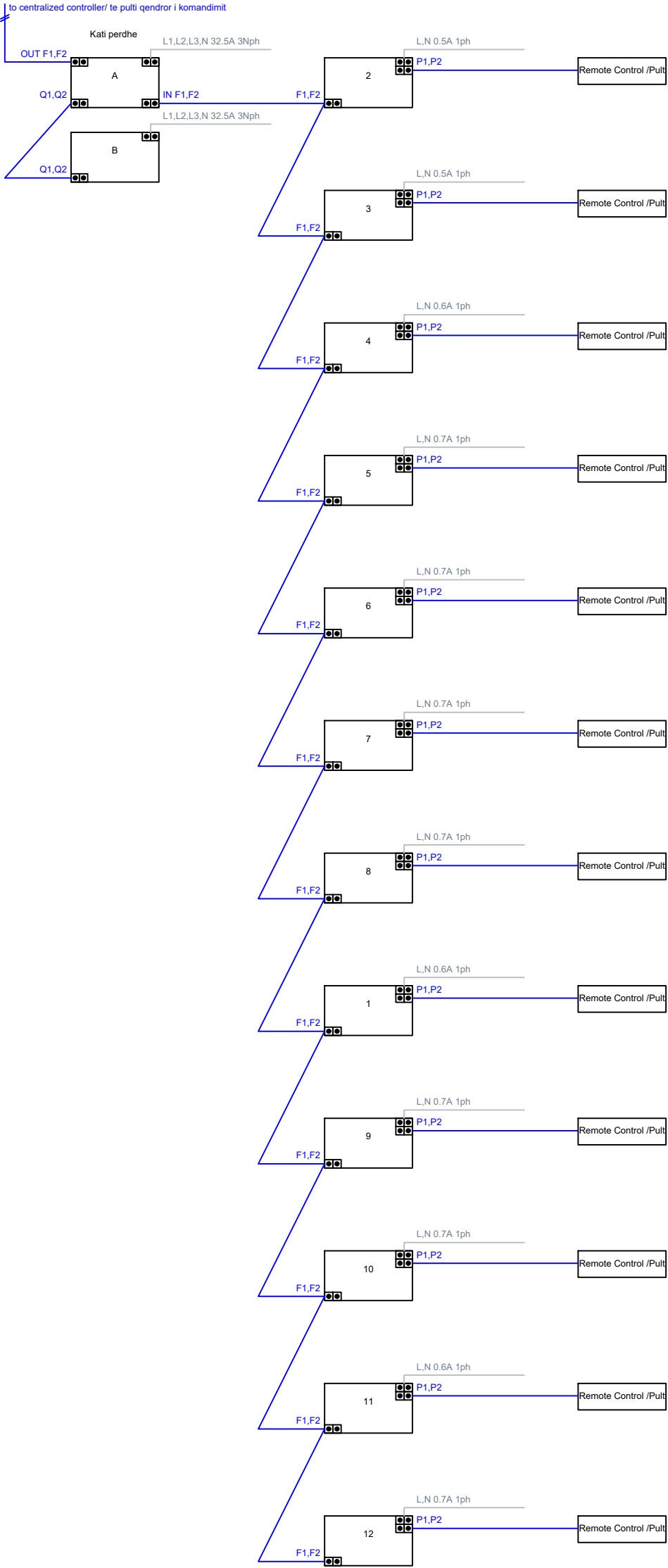
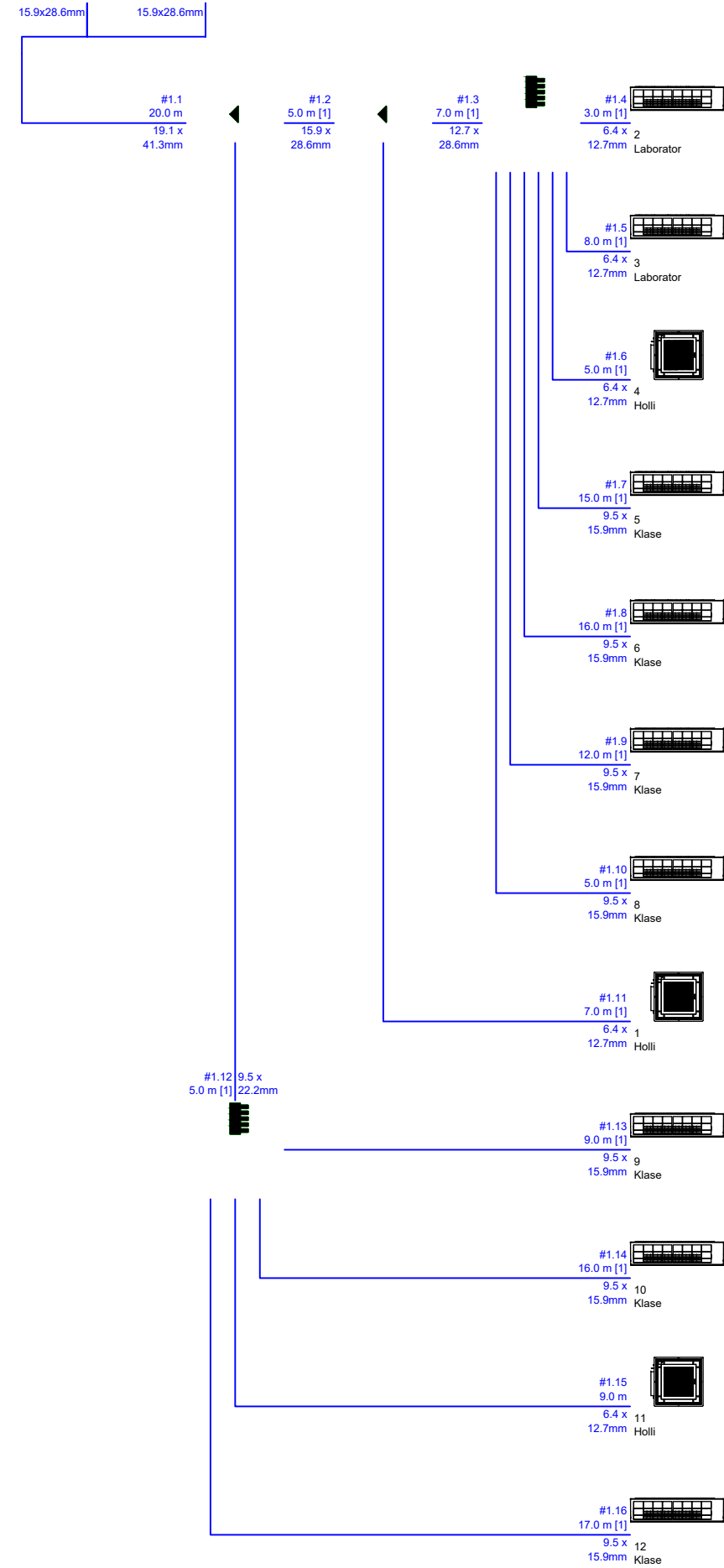


 HT CONSTRUCTION NUIS LEJIBRODRA PROJEKTIM LIG. N.6886/1 SUPERVIZION-SKOLLAJIME LIG. MK. 1289	"H.T. Construction (High Tech Construction)" shpk e-mail: class.construction@yahoo.com Lic. N.6886/3 Programme Title/Titulli i Programit: EU4Schools/ BE Per Shkollat Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tirana Municipality / Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë Donor/Financuesi: European Union EU/ Bashkimi Europian BE Implementing Agency/Agjensia Zbatuese: United Nations Development Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)			Architect/ Arkitekt: Ilir Cici Emal Grabova Hydajet Tata Amela Stëniqi Arnisa Saraçini Xhovana Kokla		Lic. A.0079/3 Lic. A.1413/1 Lic. K.1049/3	Drawing Title/ Emeritimi i Vizatimit: (Sheet name/ Emeritimi i fletes) HVAC02		Scale / Shkalla 1:250	Date / Data November / Nëntor 2021	Code/ Kodi P155
	Structural Eng./ Konstruktor: Vaso Papamihali Mamica Shehi Mamica Shehi Alma Koka Velaj			Electrical Eng./Ing. Elektrik: H-Technical Eng./Ing. H-Teknik: FPD Expert/Eksp. MNZ: HVAC Eng./Ing. NVAK:		Lic. E.1188/1 Lic. H/T.0506/4 Lic. PZ M.106/1 Lic. M.1066/3	Phase/Faza: Detailed Design/ Projekt Zbatim:				

DIMENSIONIMI I TUBACIONEVE -HVAC KATI PERDHE

PIPING DIAGRAM -HVAC SYSTEM GROUND FLOOR

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset A-C
	Kati Perdhe
	Air cooled heat pump Kapaciteti ne ftohje 72 kw
	Kapaciteti ne ngrohje 76 kw
Te dhenat per eficencen e energjise COP 4 EER 3.5	



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Programme Title/Titulli i Programit: EU4Schools/ BE Per Shkollat

Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tiranë

Municipality / Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë

Donor/Financuesi: European Union EU/ Bashkimi Europian BE

Implementing Agency/Agjensia Zbatuese: United Nations Development Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)

Architect/
Arkitekt:

Structural Eng./
Konstruktor:

Electrical Eng./Ing. Elektrik:

H-Technical Eng./Ing. H-Teknik:

FPD Expert/Eksp. MNZ:

HVAC Eng./Ing. NVAK:

Ilir Cici

Ernal Grabova

Hydajet Tota

Amela Stërnici

Amisa Saraçini

Xhovana Kokla

Vaso Papamihali

Mamica Shehi

Mamica Shehi

Alma Koka Velaj

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Emertimi i fletes)

Phase/Faza:
Detailed Design/
Projekt Zbatim:

Drawing No./
Nr. i Vizatimit:
HVAC03

Scale / Shkalla

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Date / Data

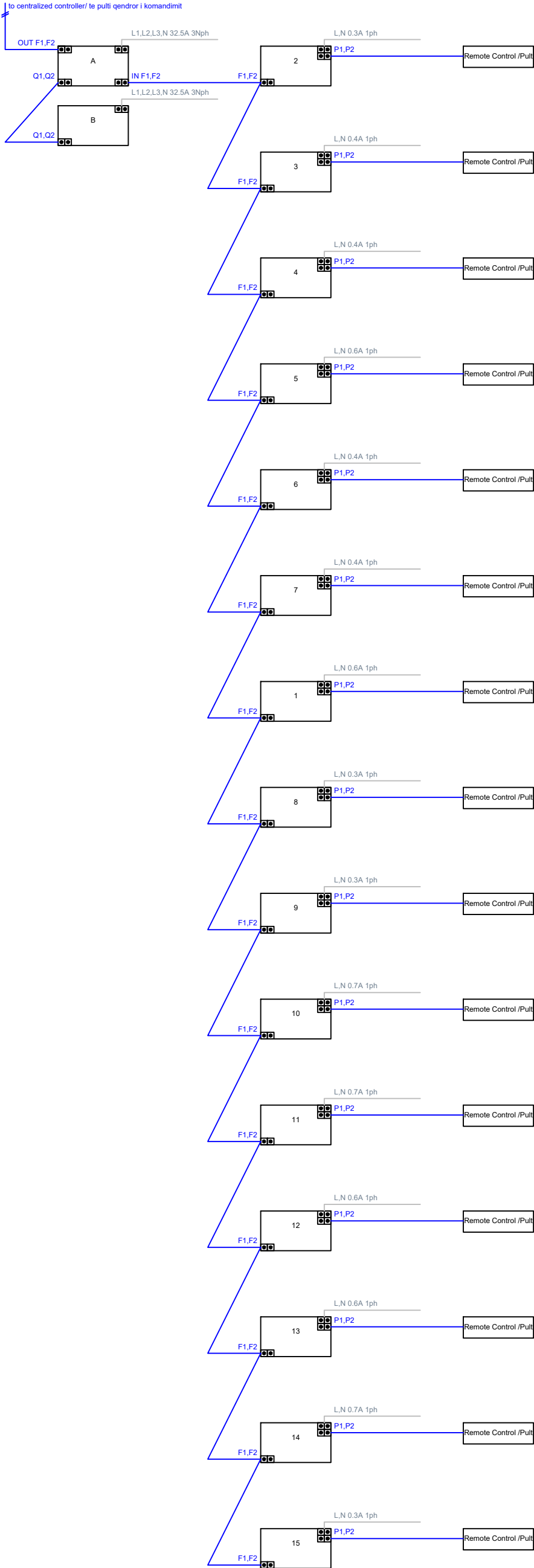
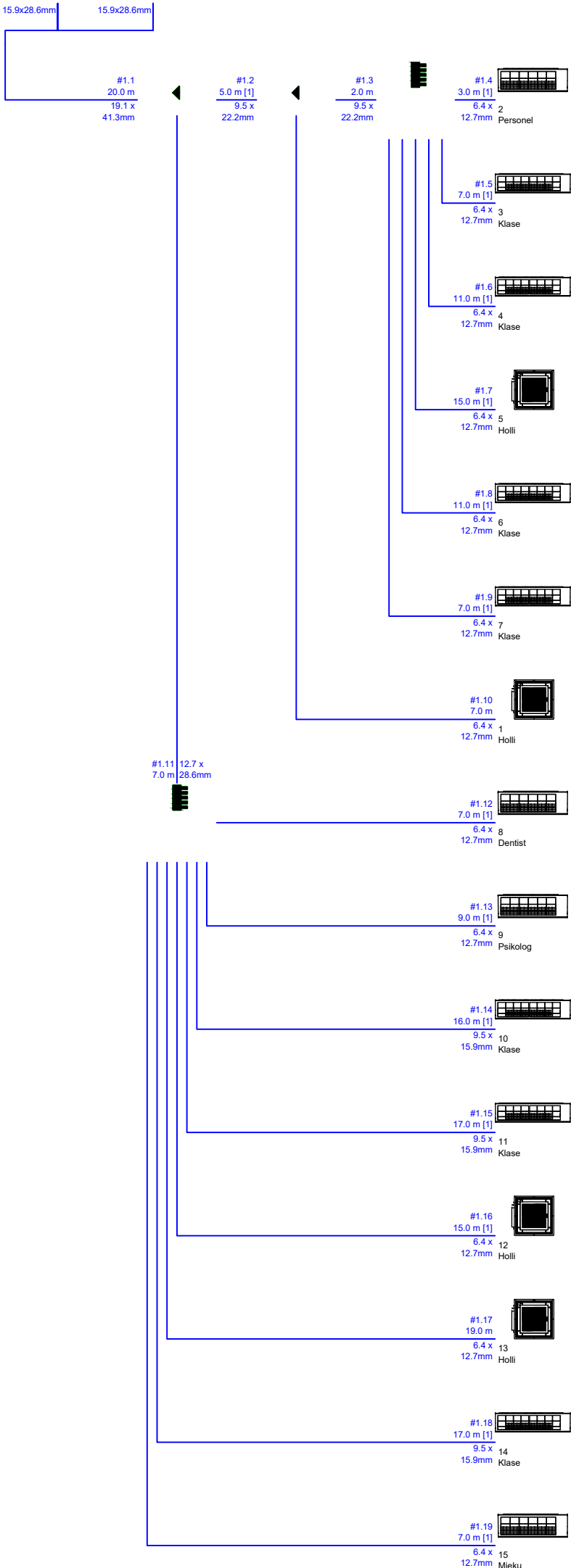
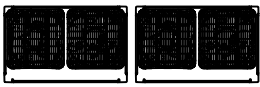
November / Nentor 2021

Code/
Kodi: P155

DIMENSIONIMI I TUBACIONEVE -HVAC KATI PERDHE

PIPING DIAGRAM -HVAC SYSTEM GROUND FLOOR

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset D-L
	Kati Perdhe
	Air cooled heat pump Kapaciteti ne ftohje 68.7 kw
	Kapaciteti ne ngrohje 71 kw
Te dhurat per eficencen e energjise COP 4 EER 3.5	



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Programme Title/Titulli i Programit: EU4Schools/ BE Per Shkollat

Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tiranë

Municipality /

Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë

Donor/Financuesi: European Union EU/ Bashkimi Europian BE

Implementing Agency/Agjensia Zbatuese: United Nations Development

Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)

Architect/
Arkitekt:

Structural Eng./
Konstruktor:

Electrical Eng./Ing. Elektrik:

H-Technical Eng/Ing. H-Teknik:

FPD Expert/Eksp. MNZ:

HVAC Eng./Ing. NVAK:

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Ernal Grabova

Hydajet Tota

Amela Stërnici

Amisa Saraçini

Xhovana Kokla

Vaso Papamihali

Mamica Shehi

Mamica Shehi

Alma Koka Velaj

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Lic. H/T.0506/4

Lic. PZ M.106/1

Lic. M.1066/3

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(Sheet name/
Emertimi i fletes)

Phase/Faza:
Detailed Design/
Projekt Zbatim:

Drawing No./
Nr. i Vizatimit:
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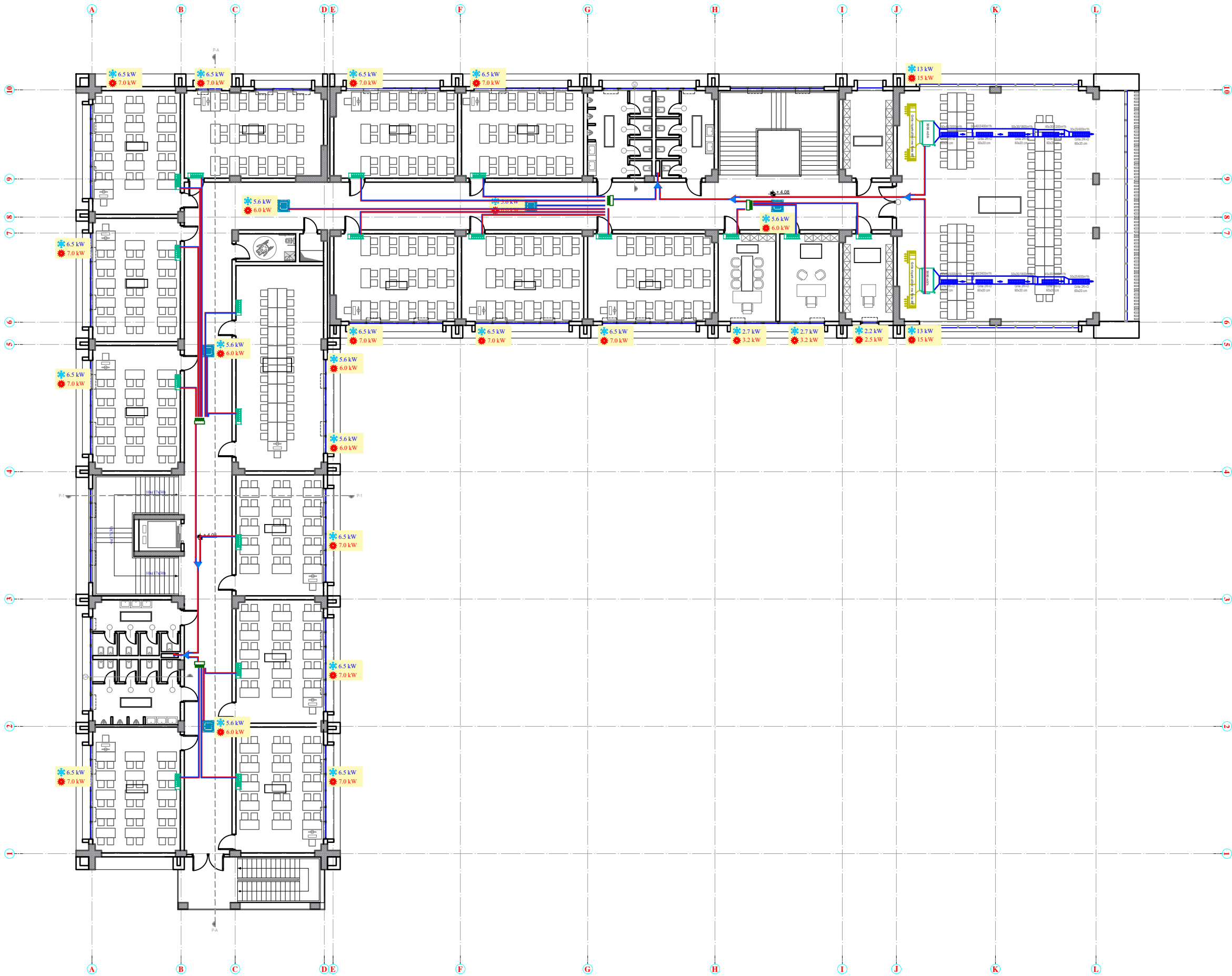
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Date / Data

November / Nëntor 2021

Code/
Kodi: P155

SISTEMI HVAC KATI I PARE SH 1:250
HVAC SYSTEM FIRST FLOOR PLAN SC 1:250





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Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë
Donor/Financuesi: European Union EU/ Bashkimi Europian BE
Implementing Agency/Agjensia Zbatuese: United Nations Development Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)

Architect/
Arkitekt:
Structural Eng./
Konstruktior:
Electrical Eng./Ing. Elektrik:
H-Technical Eng./Ing. H-Teknik:
FPD Expert/Eksp. MNZ:
HVAC Eng./Ing. NVAK:

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Alma Koka Velaj

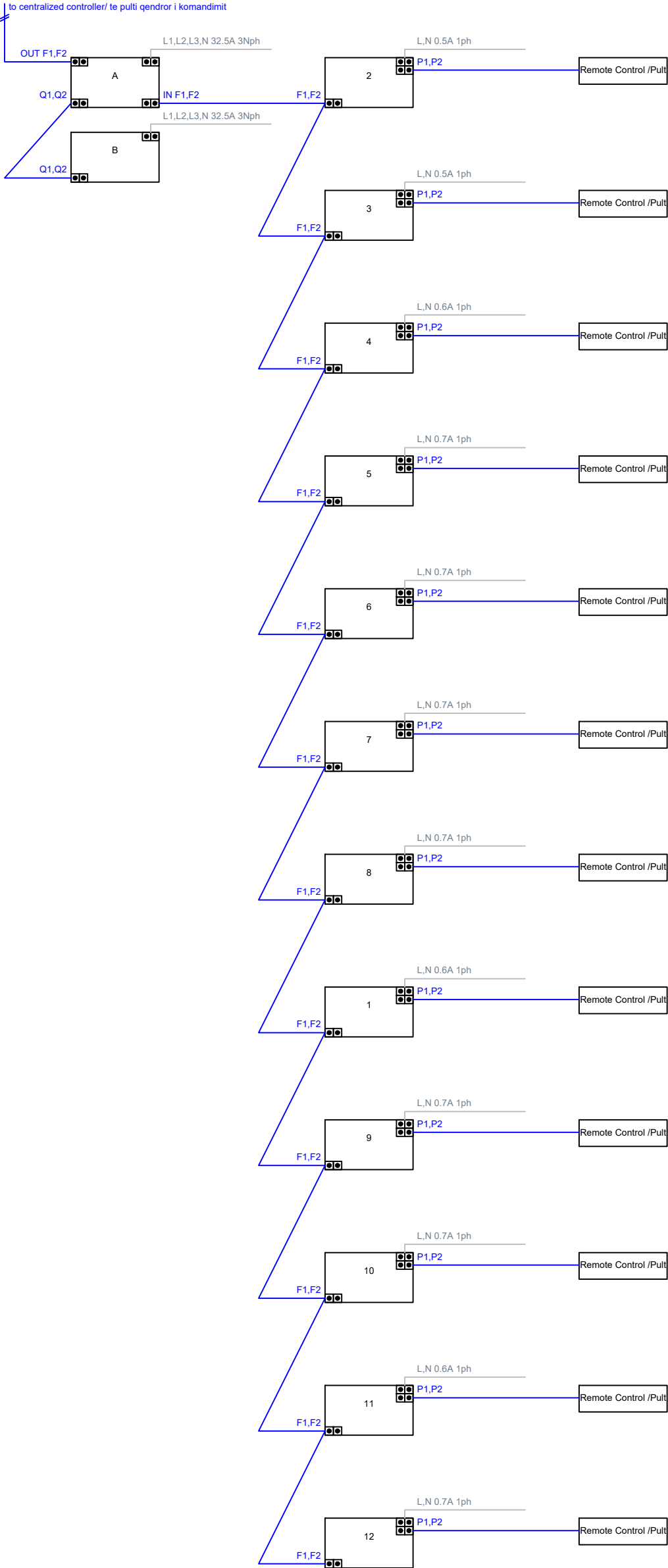
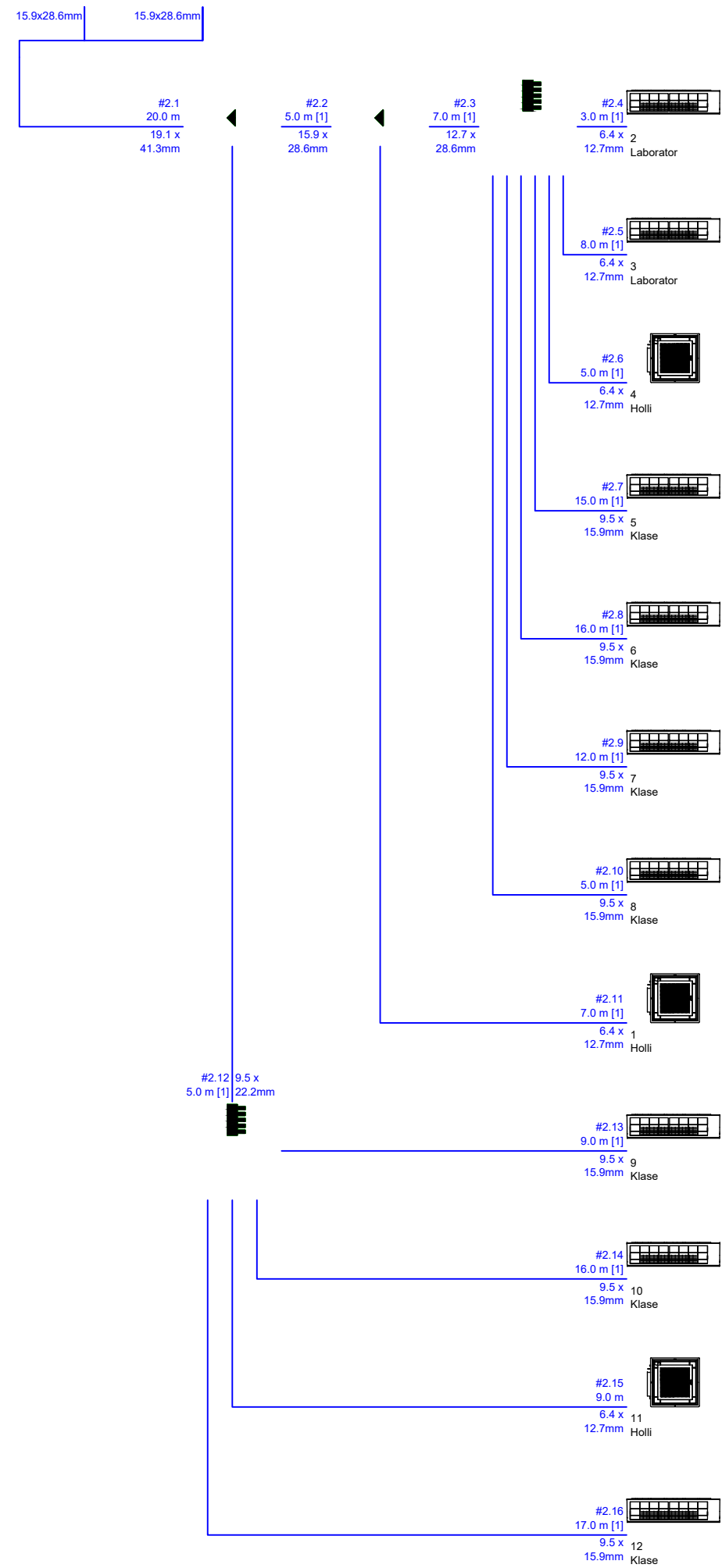
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Projekt Zbatim:

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Nr. i Vizatimit:
HVAC05
Scale / Shkalla
1:250
Date / Data
November / Nëntor 2021
Code/
Kodi:
P155

DIMENSIONIMI I TUBACIONEVE -HVAC KATI I PARE

PIPING DIAGRAM -HVAC SYSTEM FIRST FLOOR

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset A-C
	Kati i Pare
	Air cooled heat pump Kapaciteti ne ftohje 74 kw Kapaciteti ne ngrohje 79 kw
Te dhenat per eficencen e energjise COP 4 EER 3.5	



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Programme Title/Titulli i Programit: EU4Schools/ BE Per Shkollat

Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tiranë

Municipality / Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë

Donor/Financuesi: European Union EU/ Bashkimi Europian BE

Implementing Agency/Agjensia Zbatuese: United Nations Development Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)

Architect/
Arkitekt:

Structural Eng./
Konstruktor:

Electrical Eng./Ing. Elektrik:

H-Technical Eng/Ing. H-Teknik:

FPD Expert/Eksp. MNZ:

HVAC Eng./Ing. NVAK:

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Mamica Shehi

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Lic. E.1188/1

Lic. H/T.0506/4

Lic. PZ M.106/1

Lic. M.1066/3

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Detailed Design/
Projekt Zbatim:

Drawing No./
Nr. i Vizatimit:

HVAC06

Scale / Shkalla

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Date / Data

November / Nentor 2021

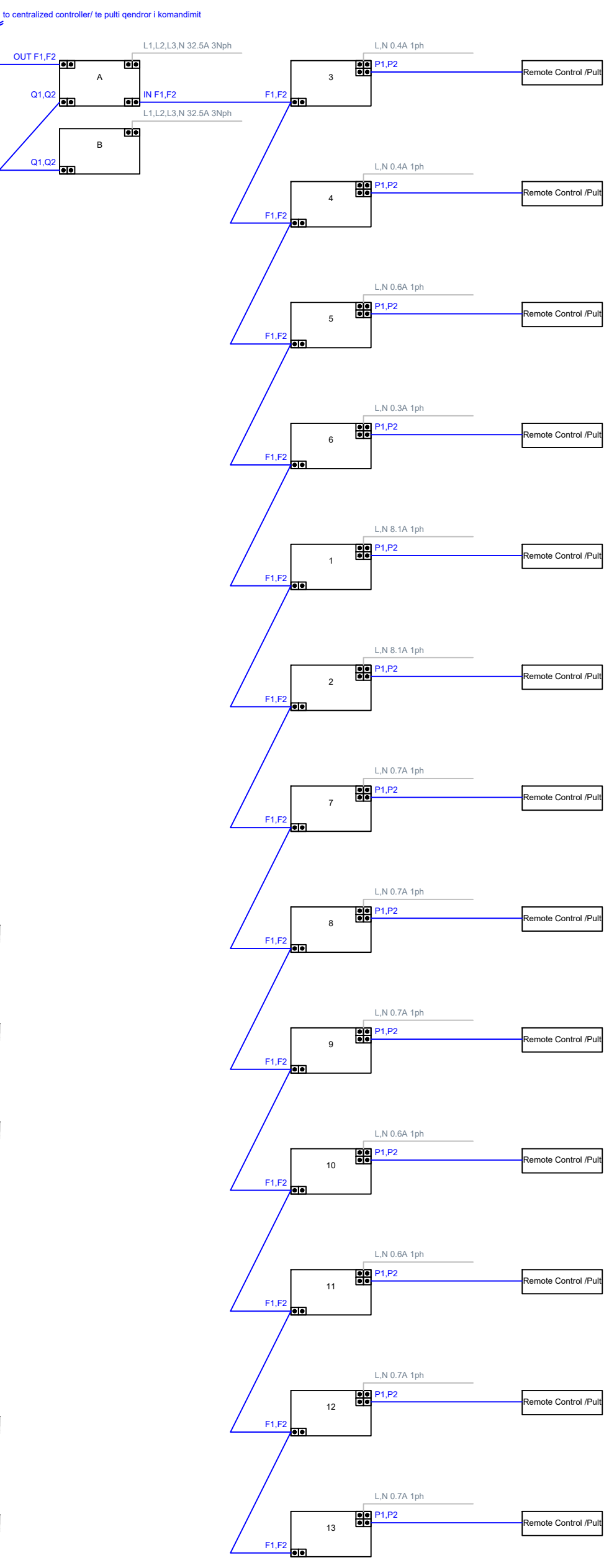
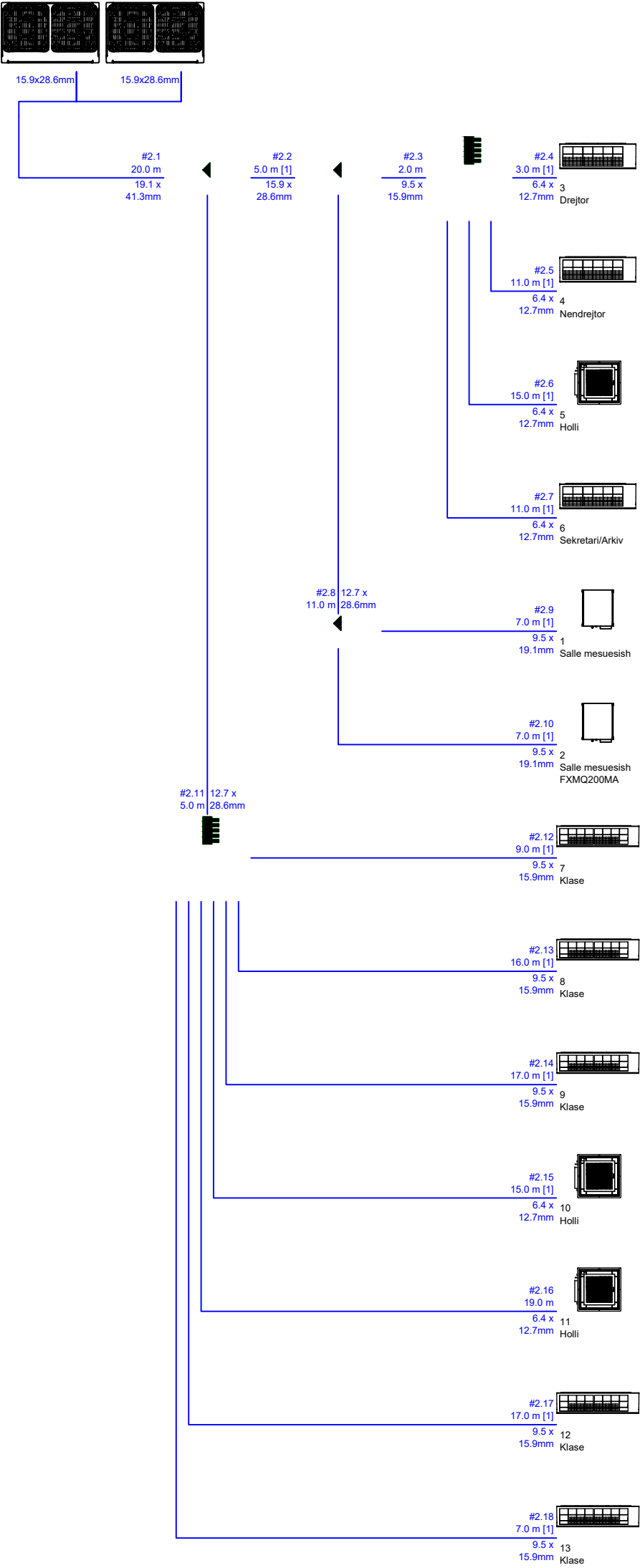
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P155

DIMENSIONIMI I TUBACIONEVE -HVAC KATI I PARE

PIPING DIAGRAM -HVAC SYSTEM FIRST FLOOR

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset D-L
	Kati i Pare
	Air cooled heat pump Kapaciteti ne ftohje 83 kw
	Kapaciteti ne ngrohje 90 kw
Te dhenat per eficencen e energjise COP 4 EER 3.5	



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Donor/Financuesi: European Union EU/ Bashkimi Europian BE

Implementing Agency/Agjensia Zbatuese: United Nations Development Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)

Architekt/ Arkitekt:

Structural Eng./ Konstruktor:

Electrical Eng./Ing. Elektrik:

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FPD Expert/Eksp. MNZ:

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Lic. M.1066/3

Drawing Title/ Emertimi i Vizatimit:

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Phase/Faza: Detailed Design/ Projekt Zbatim:

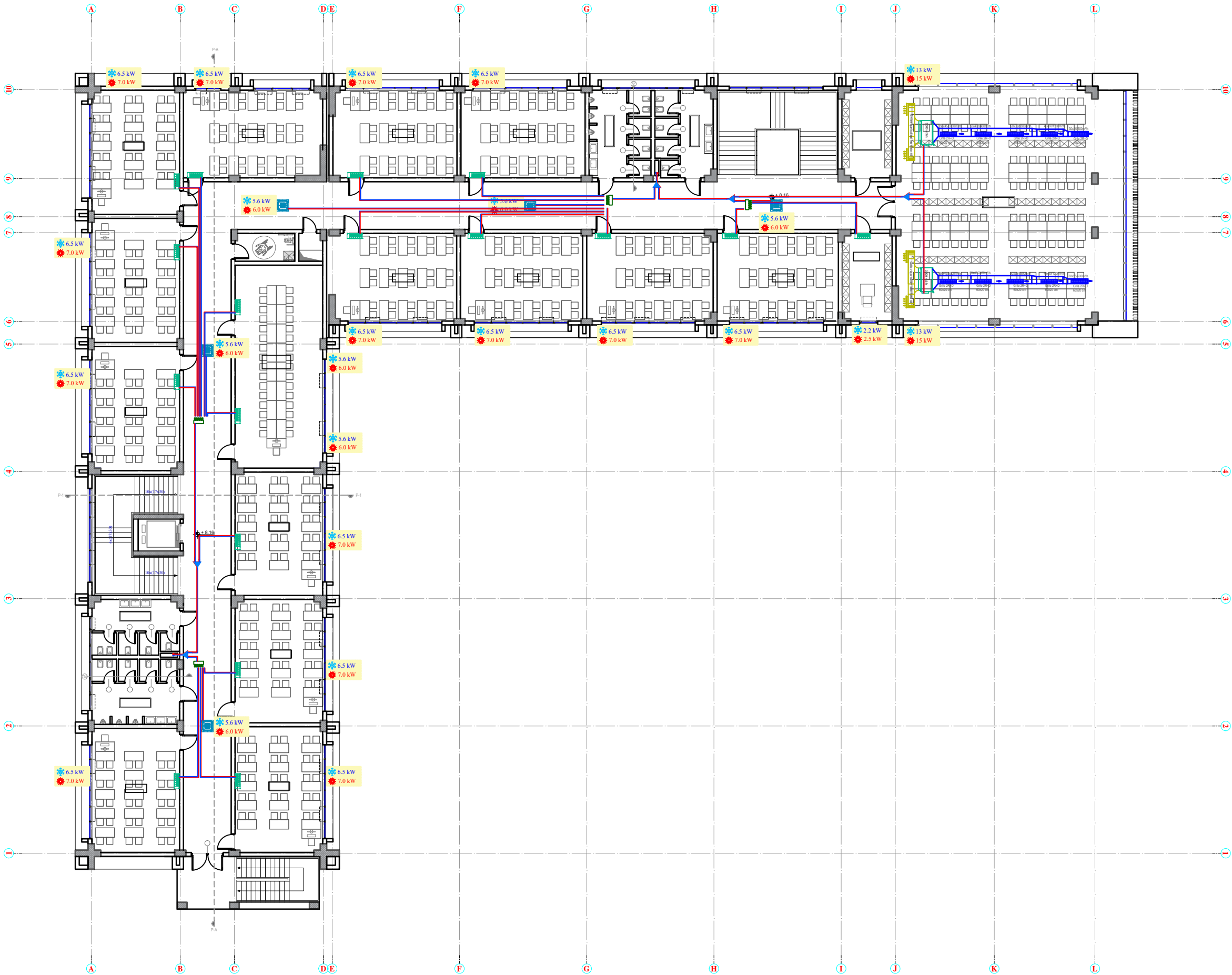
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Scale / Shkalla 1:250

Date / Data November / Nentor 2021

Code/ Kodi: P155

SISTEMI HVAC KATI I DYTE SH 1:250
HVAC SYSTEM SECOND FLOOR PLAN SC 1:250





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Programme Title/Titulli i Programit: EU4Schools/ BE Per Shkollat
Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tirana Municipality /
Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë
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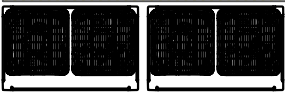
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Detailed Design/
Projekt Zbatim:

Drawing No./
Nr. i Vizatimit:
HVAC08
Scale / Shkalla
1:250
Date / Data
November / Nëntor 2021
Code/
Kodi:
P155

DIMENSIONIMI I TUBACIONEVE -HVAC KATI I DYTE

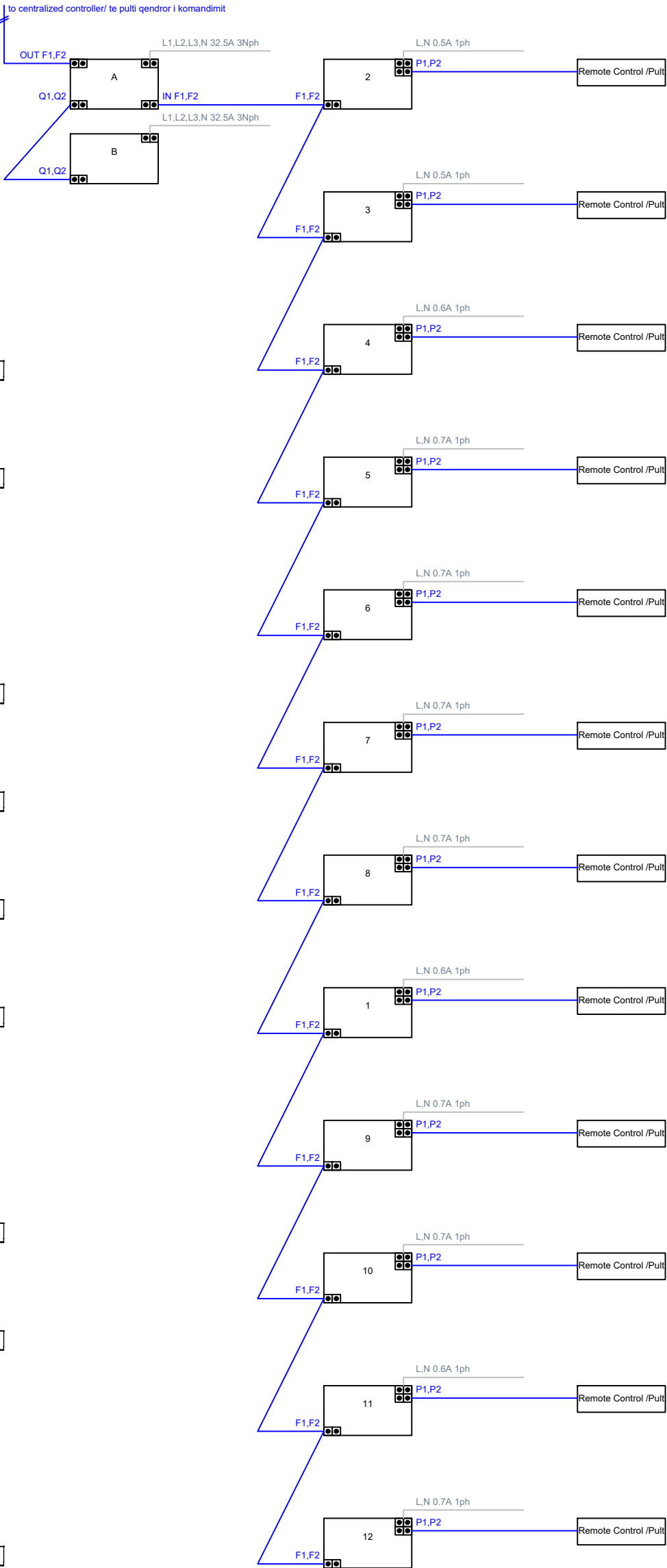
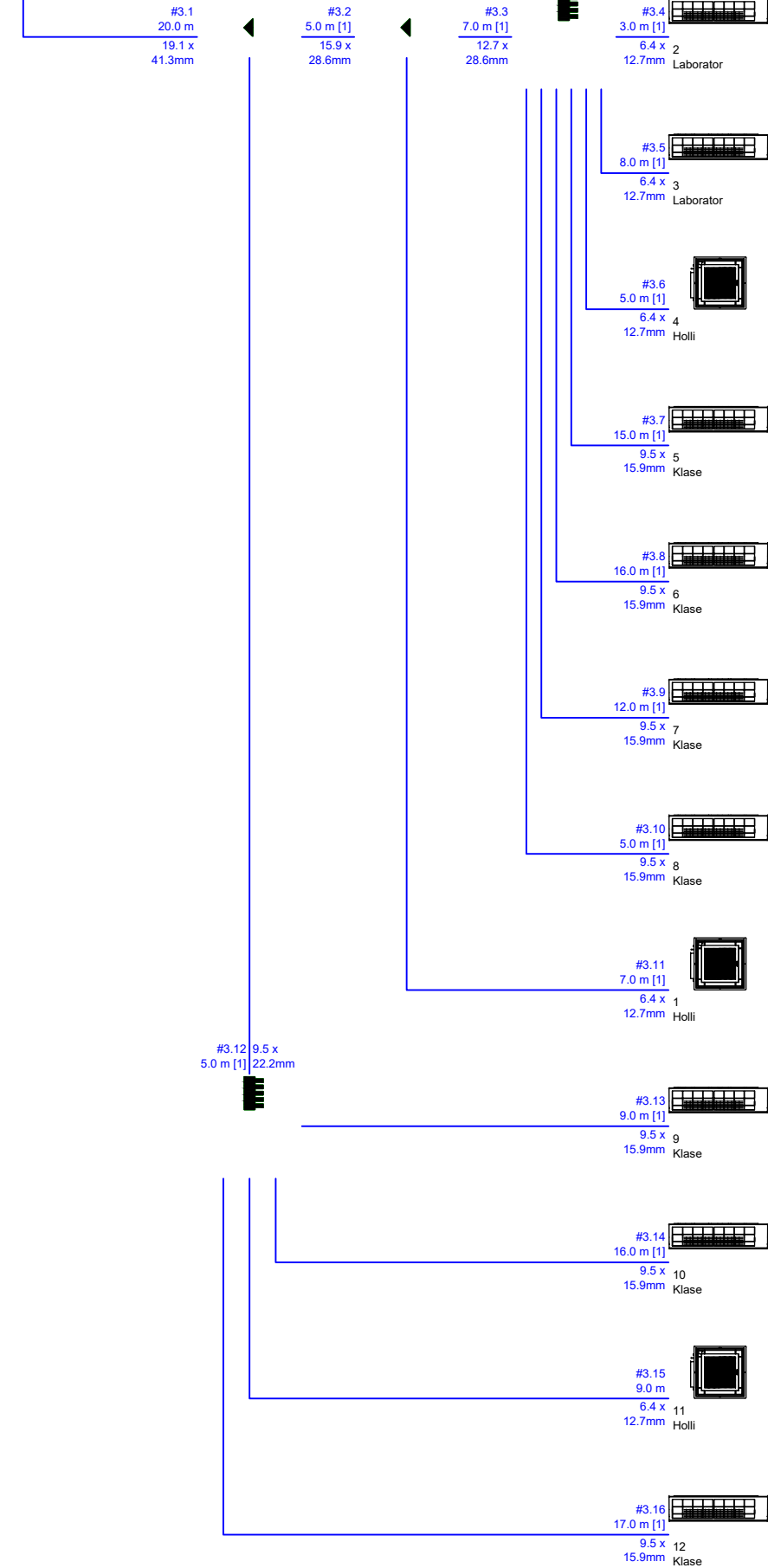
PIPING DIAGRAM -HVAC SYSTEM SECOND FLOOR

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset A-C
	Kati i Dyte
	Air cooled heat pump
	Kapaciteti ne ftohje 74 kw
	Kapaciteti ne ngrohje 79 kw
Te dhenat per eficencen e energjise COP 4 EER 3.5	



15.9x28.6mm

15.9x28.6mm



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Municipality /

Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë

Donor/Financuesi: European Union EU/ Bashkimi Europian BE

Implementing Agency/Agjensia Zbatuese: United Nations Development

Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)

Architect/
Arkitekt:

Structural Eng./
Konstruktor:

Electrical Eng./Ing. Elektrik:

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FPD Expert/Eksp. MNZ:

HVAC Eng./Ing. NVAK:

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Mamica Shehi

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Lic. K.1049/3

Lic. E.1188/1

Lic. H/T.0506/4

Lic. PZ M.106/1

Lic. M.1066/3

Drawing Title/
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(Sheet name/
Emertimi i fletes)

Phase/Faza:
Detailed Design/
Projekt Zbatim:

Drawing No./
Nr. i Vizatimit:
HVAC09

Scale / Shkalla
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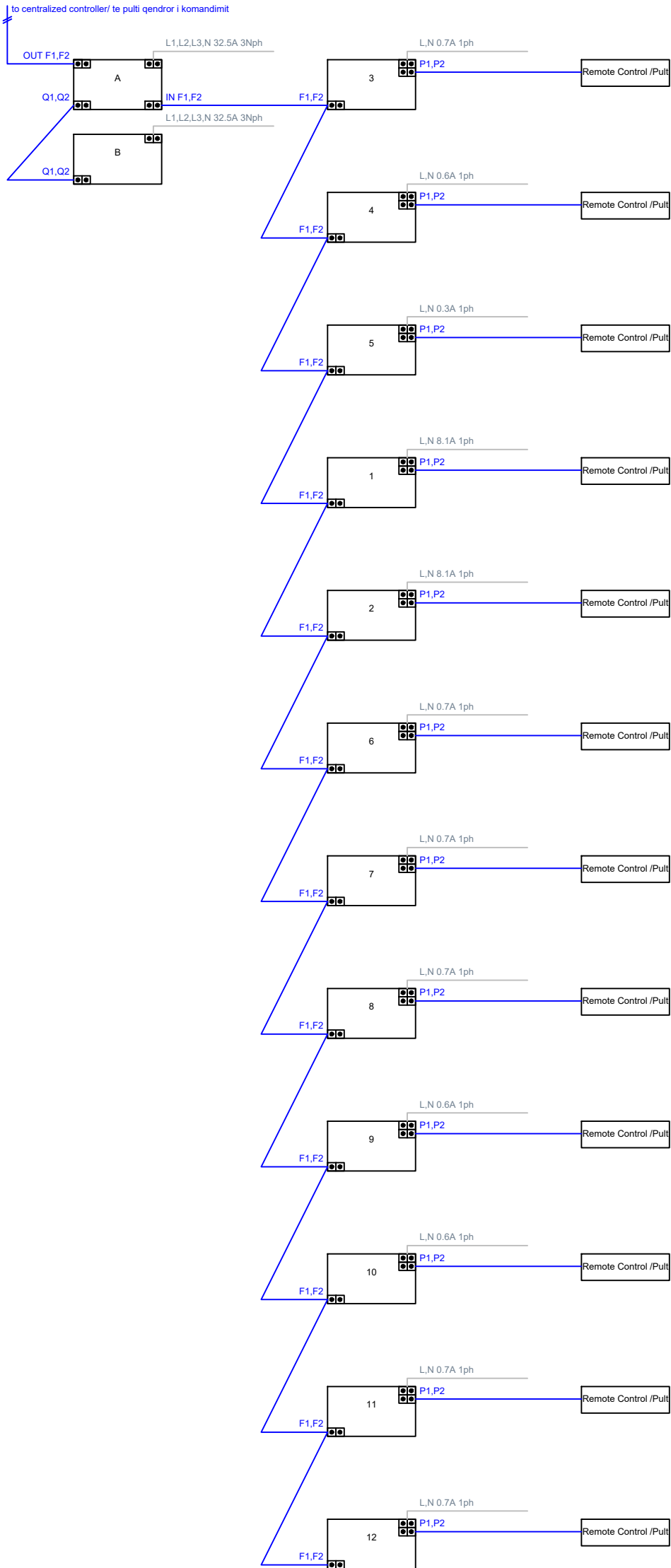
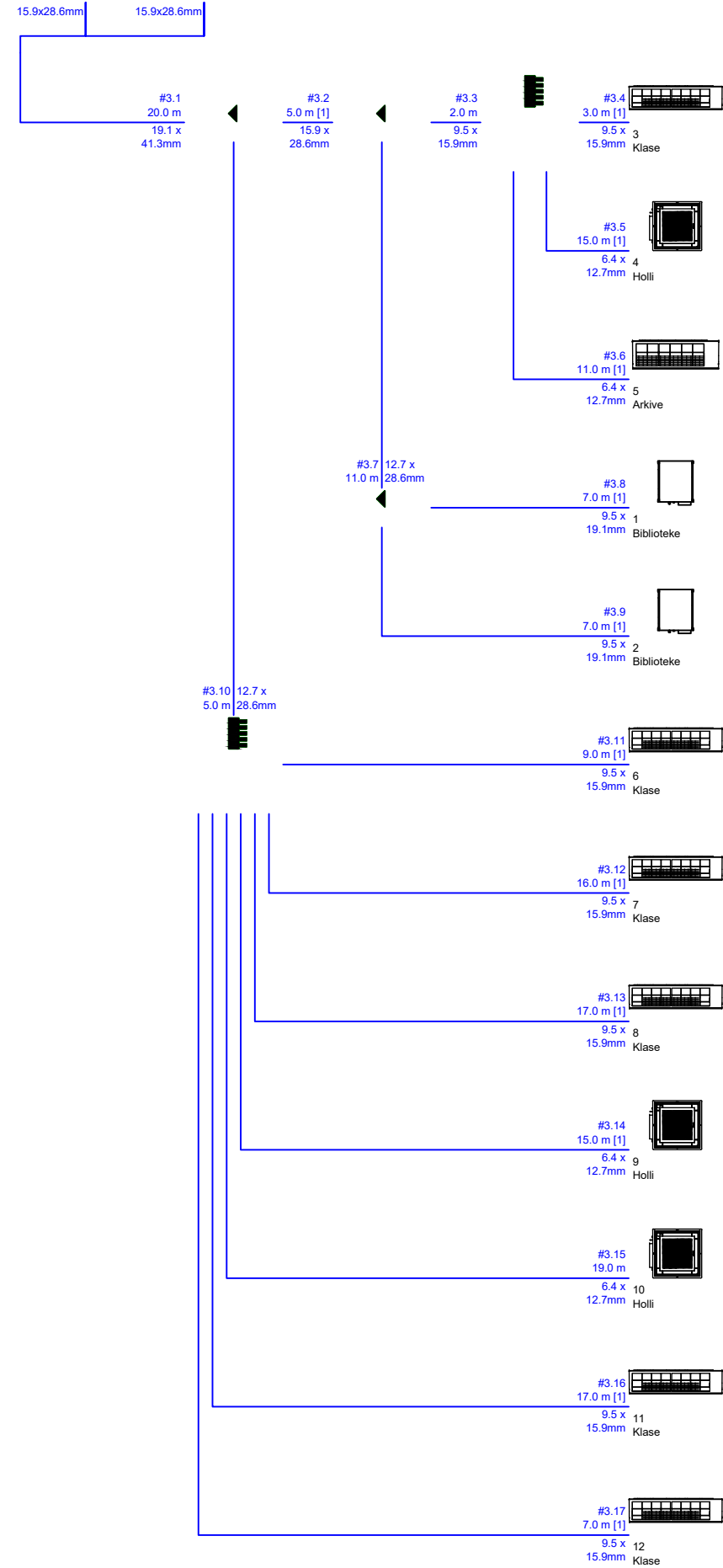
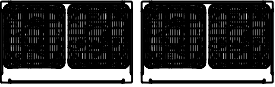
Date / Data
November / Nentor 2021

Code/
Kodi: P155

DIMENSIONIMI I TUBACIONEVE -HVAC KATI I DYTE

PIPING DIAGRAM -HVAC SYSTEM SECOND FLOOR

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset D-L
	Kati i Dyte
	Air cooled heat pump Kapaciteti ne ftohje 84 kw
	Kapaciteti ne ngrohje 92 kw
Te dhenat per eficencen e energjise COP 4 EER 3.5	



"H.T. Construction (High Tech Construction)" shpk

e-mail: class.construction@yahoo.com Lic. N.6886/3

Programme Title/Titulli i Programit: EU4Schools/ BE Per Shkollat

Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tiranë

Municipality / Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë

Donor/Financuesi: European Union EU/ Bashkimi Europian BE

Implementing Agency/Agjensia Zbatuese: United Nations Development Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)

Architect/
Arkitekt:

Structural Eng./
Konstruktor:

Electrical Eng./Ing. Elektrik:

H-Technical Eng/Ing. H-Teknik:

FPD Expert/Eksp. MNZ:

HVAC Eng./Ing. NVAK:

Ilir Cici

Ernal Grabova

Hydajet Tota

Amela Stërnici

Amisa Saraçini

Xhovana Kokla

Vaso Papamihali

Mamica Shehi

Mamica Shehi

Alma Koka Velaj

Lic. A.0079/3

Lic. A.1413/1

Lic. K.1049/3

Lic. E.1188/1

Lic. H/T.0506/4

Lic. PZ M.106/1

Lic. M.1066/3

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(Sheet name/
Emertimi i fletes)

Phase/Faza:
Detailed Design/
Projekt Zbatim:

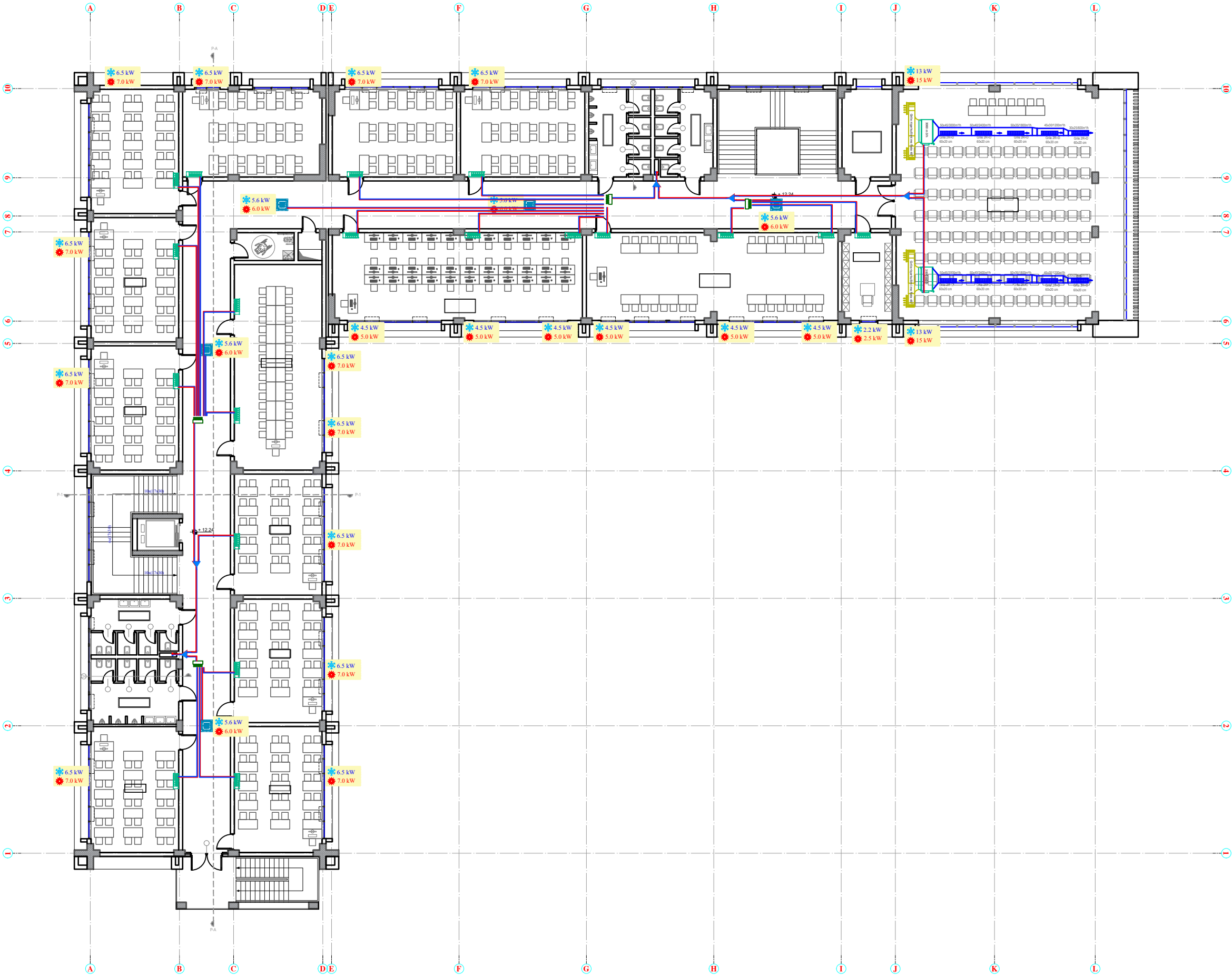
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HVAC10

Scale / Shkalla
1:250

Date / Data
November / Nëntor 2021

Code/
Kodi: P155

SISTEMI HVAC KATI I TRETE SH 1:250
HVAC SYSTEM THIRD FLOOR PLAN SC 1:250

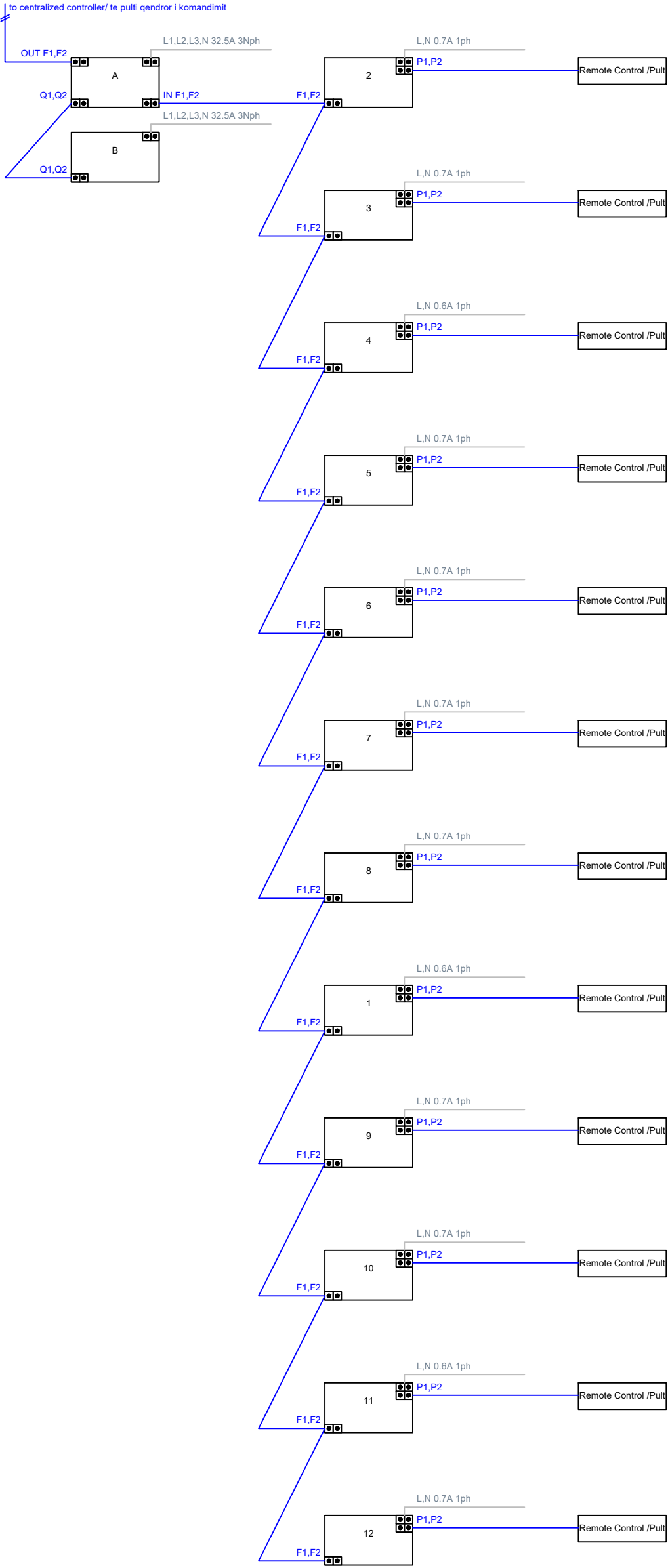
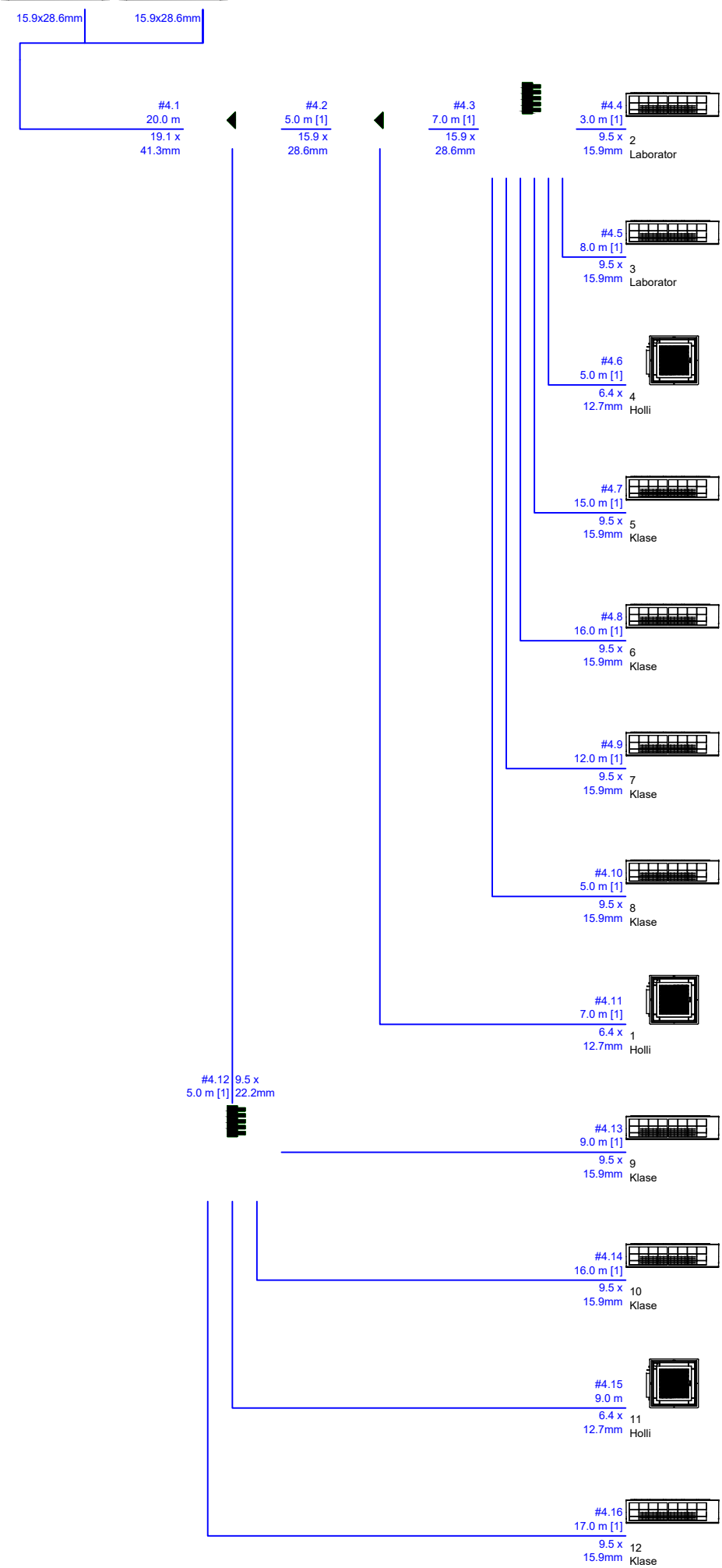
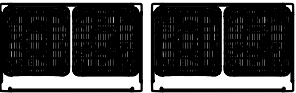


 HT CONSTRUCTION NUIS LEJIBROJIRA PROJEKTIM LIC. N.6886/1 SUPERVIZION-KOLAJDAIME LIC. MK. 1289  EU4SCHOOLS EUROPEAN UNION UNDP UNITED NATIONS DEVELOPMENT PROGRAMME	"H.T. Construction (High Tech Construction)" shpk e-mail: class.construction@yahoo.com Lic. N.6886/3				Architect/ Arkitekt:	Ilir Cici	Lic. A.0079/3	Drawing Title/ Emeritimi i Vizatimit: (Sheet name/ Emeritimi i fletes) Phase/Faza: Detailed Design/ Projekt Zbatim:	Drawing No./ Nr. i Vizatimit: HVAC11 Scale / Shkalla 1:250 Date / Data November / Nëntor 2021 Code/ Kodi: P155
	Programme Title/Titulli i Programit: EU4Schools/ BE Per Shkollat				Structural Eng./ Konstruktor:	Emal Grabova	Lic. A.1413/1		
	Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tirana Municipality / Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë					Hydajet Tota	Lic. K.1049/3		
						Amela Stëniqi			
						Arnisa Saraçini			
						Xhovana Kokla			
					Electrical Eng./Ing. Elektrik:	Vaso Papamihali	Lic. E.1188/1		
	Donor/Financuesi: European Union EU/ Bashkimi Europian BE				H-Technical Eng./Ing. H-Teknik:	Mamica Shehi	Lic. H/T.0506/4		
	Implementing Agency/Agjensia Zbatuese: United Nations Development Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)				FPD Expert/Eksp. MNZ:	Mamica Shehi	Lic. PZ M.106/1		
					HVAC Eng./Ing. NVAK:	Alma Koka Velaj	Lic. M.1066/3		

DIMENSIONIMI I TUBACIONEVE -HVAC KATI I TRETE

PIPING DIAGRAM -HVAC SYSTEM THIRD FLOOR

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset A-C
	Kati i Trete
	Air cooled heat pump
	Kapaciteti ne ftohje 76 kw
	Kapaciteti ne ngrohje 80 kw
Te dhenat per eficencen e energjise COP 4 EER 3.5	



"H.T. Construction (High Tech Construction)" shpk

e-mail: class.construction@yahoo.com

Lic. N.6886/3

Programme Title/Titulli i Programit: EU4Schools/ BE Per Shkollat

Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tiranë

Municipality /

Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë

Donor/Financuesi: European Union EU/ Bashkimi Europian BE

Implementing Agency/Agjensia Zbatuese: United Nations Development

Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)

Architect/
Arkitekt:

Structural Eng./
Konstruktor:

Electrical Eng./Ing. Elektrik:

H-Technical Eng/Ing. H-Teknik:

FPD Expert/Eksp. MNZ:

HVAC Eng./Ing. NVAK:

Ilir Cici

Ernal Grabova

Hydajet Tota

Amela Stërnici

Amisa Saraçini

Xhovana Kokla

Vaso Papamihali

Mamica Shehi

Mamica Shehi

Alma Koka Velaj

Lic. A.0079/3

Lic. A.1413/1

Lic. K.1049/3

Lic. E.1188/1

Lic. H/T.0506/4

Lic. PZ M.106/1

Lic. M.1066/3

Drawing Title/
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Phase/Faza:
Detailed Design/
Projekt Zbatim:

Drawing No./
Nr. i Vizatimit:
HVAC12

Scale / Shkalla

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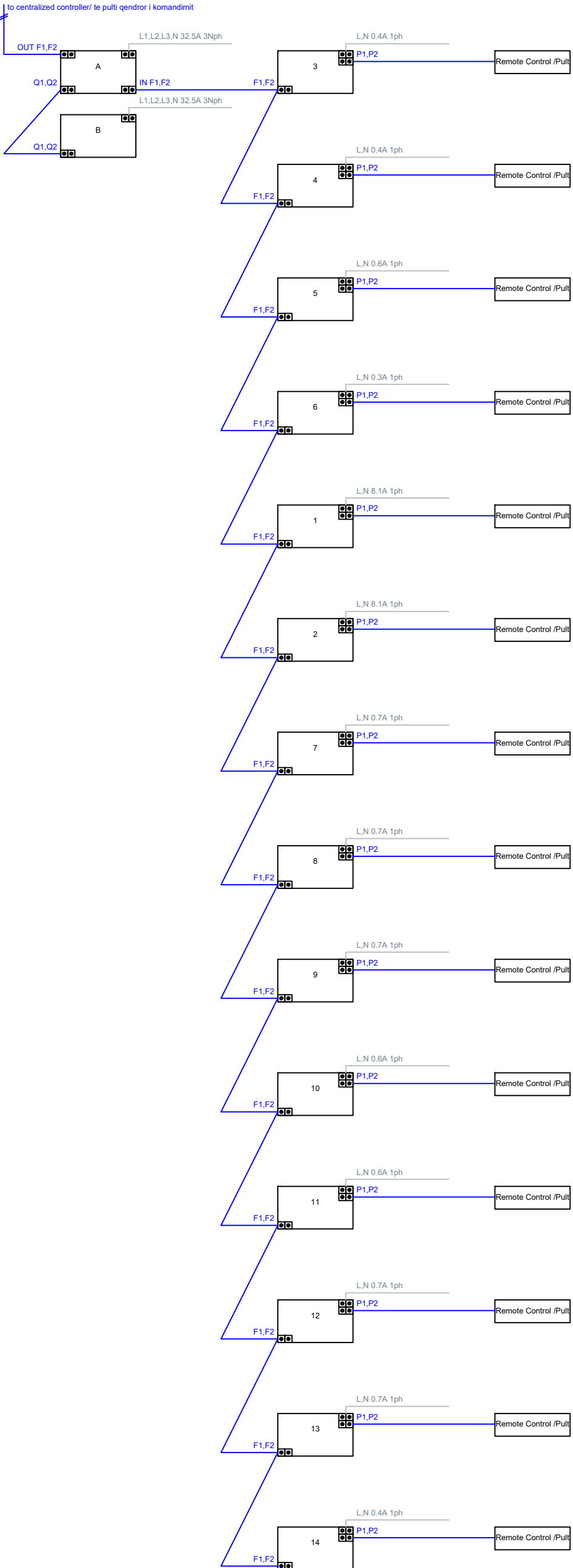
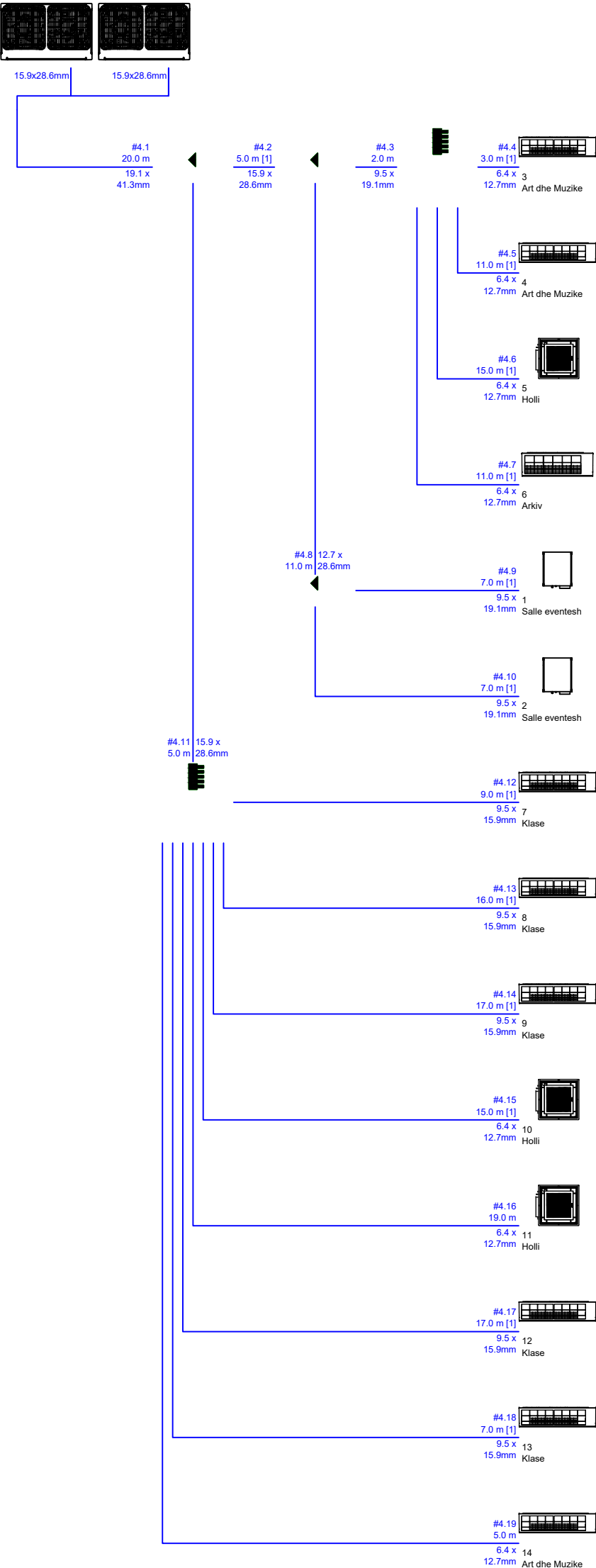
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November / Nentor 2021

Code/
Kodi: P155

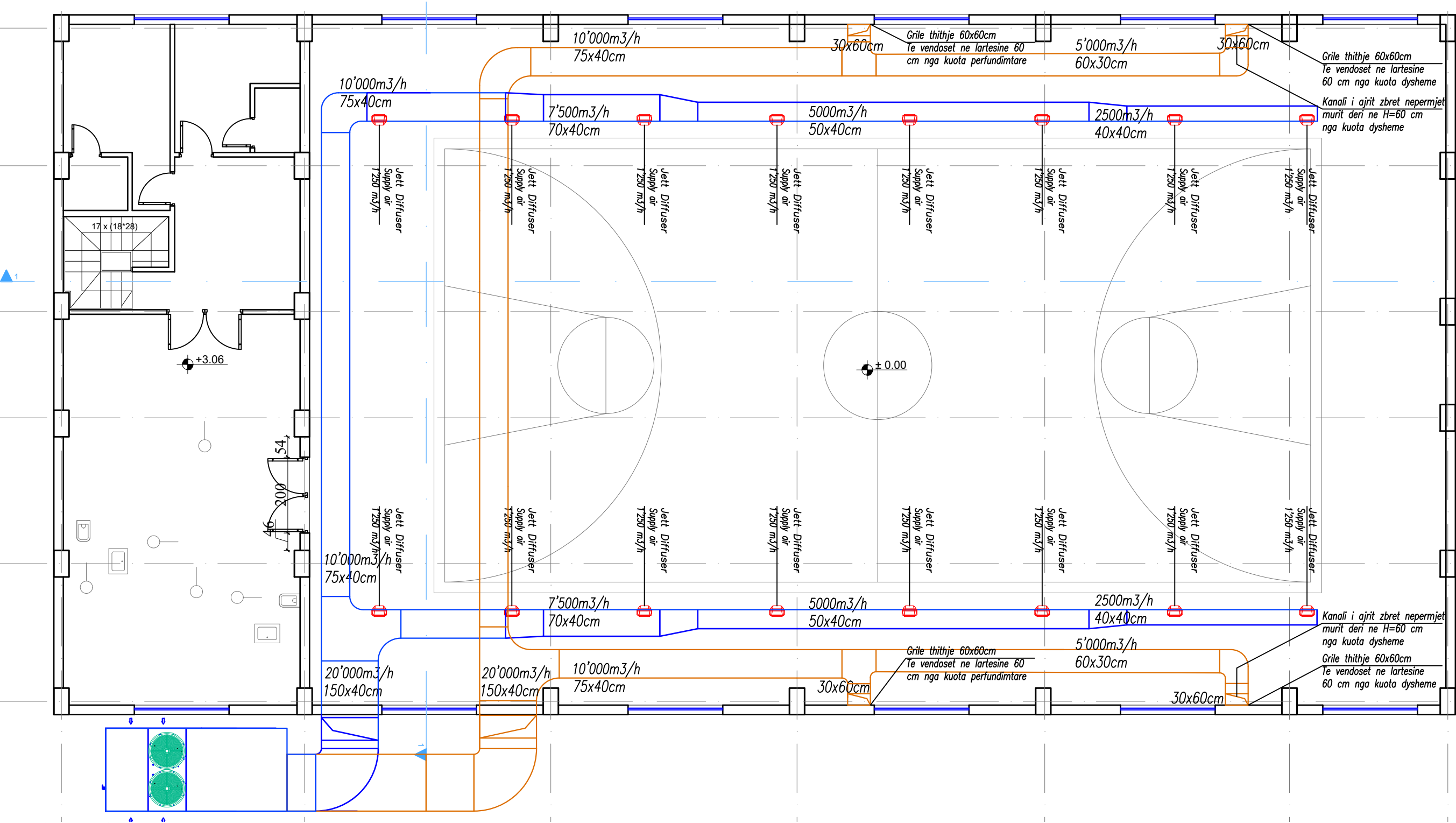
DIMENSIONIMI I TUBACIONEVE -HVAC KATI I TR
PIPING DIAGRAM -HVAC SYSTEM THIRD FLOOR

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset D-L Kati i Trete Air cooled heat pump Kapaciteti ne ftohje 85 kw Kapaciteti ne ngrohje 94 kw
Te dhenat per eficencen e energjise COP 4 EER 3.5	



 HT CONSTRUCTION NUS 181818018A PROJEKTIM LIQ N.6886/1 SUPERVIZION-KOLAUDIME LIQ MK. 3289	"H.T. Construction (High Tech Construction)" shpk		Architect/ Arkitekt:	Ilir Cici	Lic. A.0079/3	Drawing Title/ Emertimi i Vizatimit: (Sheet name/ Emertimi i fletes)	Drawing No./ Nr. i Vizatimit: HVAC13	
	e-mail: class.construction@yahoo.com Lic. N.6886/3			Ernal Grabova	Lic. A.1413/1			Scale / Shkalla 1:250
	Programme Title/Titulli i Programit: EU4Schools/ BE Per Shkollat		Structural Eng./ Konstruktor:	Hydajet Tota	Lic. K.1049/3			
	Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tirana Municipality / Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë			Amela Stërnqi				
				Arnisa Saraçini				
 EU4SCHOOLS	Donor/Financuesi: European Union EU/ Bashkimi European BE Implementing Agency/Agjensia Zbatuese: United Nations Development Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)			Xhovana Kokla		Phase/Faza: Detailed Design/ Projekt Zbatim:	Date / Data November / Nëntor 2021 Code/ Kodi: P155	
			Electrical Eng./Ing. Elektrik:	Vaso Papamihali	Lic. E.1188/1			
			H-Technical Eng/Ing. H-Teknik:	Mamica Shehi	Lic. H/T.0506/4			
			FPD Expert/Eksp. MNZ:	Mamica Shehi	Lic. PZ M.106/1			
			HVAC Eng./Ing. NVAK:	Alma Koka Velaj	Lic. M.1066/3			

SISTEMI HVAC ZONA E PALESTRES
HVAC SYSTEM GYM AREA

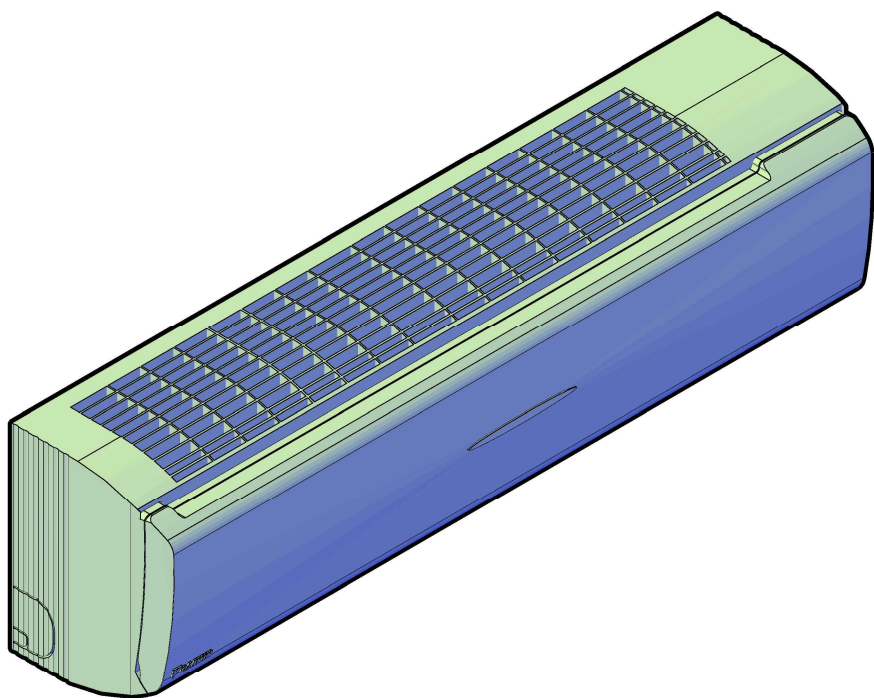


ROOFTOP UNIT

- Cooling capacity (kW): 123 KW
- Heating capacity (kW): 130 KW
- Full load energy efficiency in cooling, EER following EN14511:3 2013 (kW/kW): 3.18
- Full load energy efficiency in heating, COP following EN14511:3 2013 (kW/kW): 3.64
- Nominal air flow (m3/h): 20.000 m3/h
- Available static pressure(Pa): 300 Pa
- Outdoor air temperature winter (°C): 0 °C
- Electrical power supply : 400V/IIIph/50Hz(+/- 10%)
- Power input (kW): 50.2 KW
- Refrigerant type: R410 Dimensions, length x depth x height (mm): 4450 x 2200 x 1790
- Unit operating weight: 1907 kg

 HT CONSTRUCTION NUTRIUM L. 1818/018A SUPERVISOR-KOLLAJME L. 1818/018A	"H.T. Construction (High Tech Construction)" shpk										Architect/ Arktekti:	Ilir Cici	Lic. A.0079/3	Drawing No./ Nr. i Vizatimit:
	e-mail: class.construction@yahoo.com											Emal Grabova	Lic. A.1413/1	HVAC14
	Programme Title/Titulli i Programit: EU4Schools/ BE Per Shkollat										Structural Eng./ Konstruktor:	Hydajet Tofta	Lic. K.1049/3	
	Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tirane											Amela Stërnigqi		
Municipality / Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë												Amisa Saraçinqi		
 EU4SCHOOLS NUTRIUM L. 1818/018A SUPERVISOR-KOLLAJME L. 1818/018A	Donor/Financuesi: European Union EU/ Bashkimi Europian BE										Electrical Eng./Ing. Elektrik:	Vaso Papamihali	Lic. E.1188/1	Scale / Shkalla
	Implementing Agency/Agjensia Zbatuese: United Nations Development Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)										H-Technical Eng./Ing. H-Teknik:	Mamica Shehi	Lic. H/T.0506/4	1:250
	 EU4SCHOOLS										FPD Expert/Eksp. MNZ:	Mamica Shehi	Lic. P.Z.M.106/1	Date / Data
											HVAC Eng./Ing. NVAK:	Alma Koka Velaj	Lic. M.1066/3	November / Nëntor 2021
										Phase/Faza:				Code/ Kodi:
										Detailed Design/ Projekt Zbatim:				P155

DETAJE TE INSTALIMIT PER SISTEMIN HVAC
INSTALLATION DETAILS FOR HVAC SYSTEM



NJESI E BRENDESHME MURALE
HI WALL INDOOR UNIT

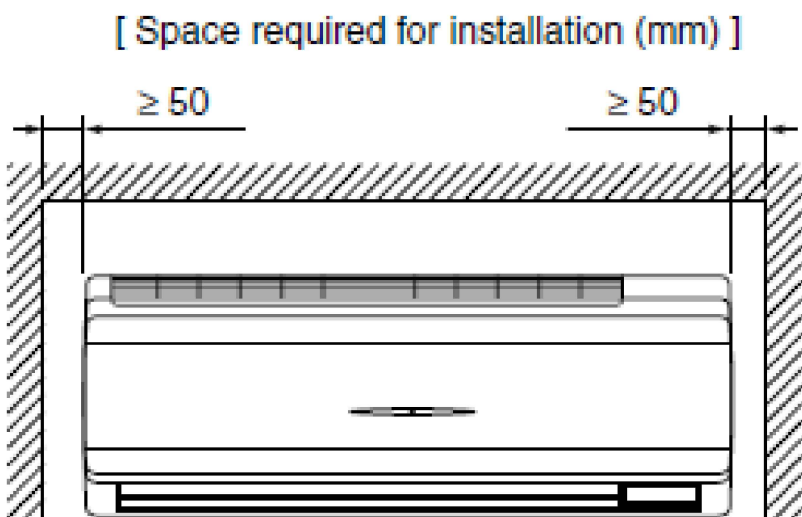


Fig. 1

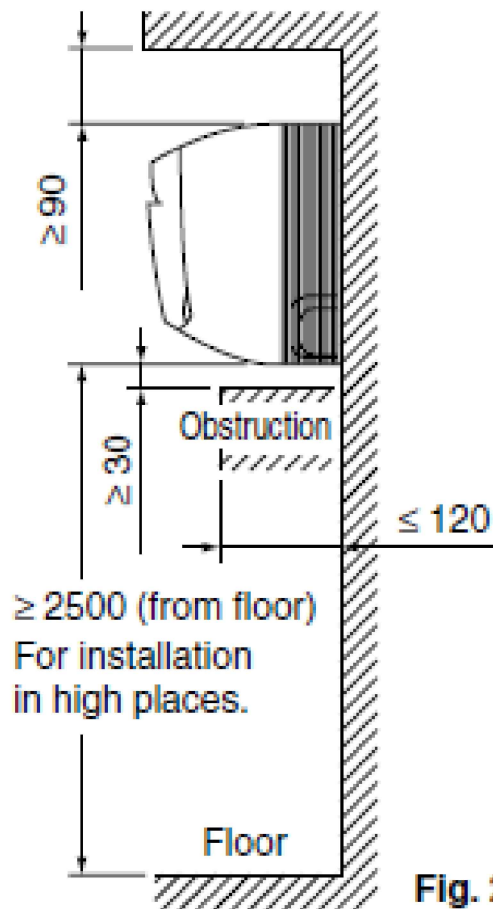


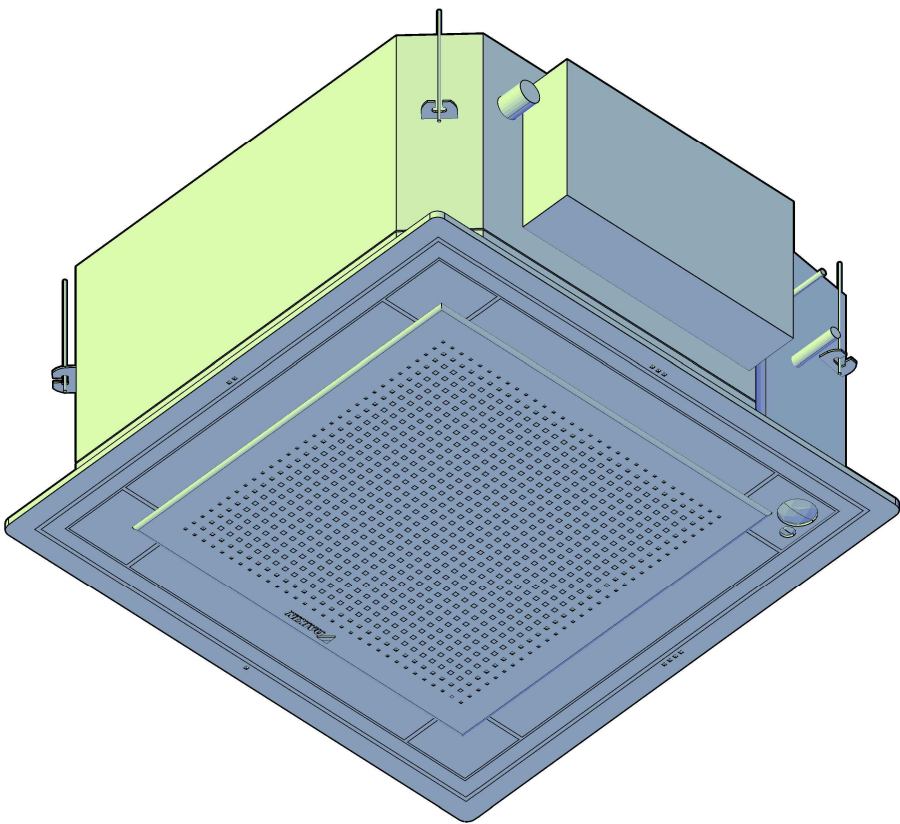
Fig. 2

Shenim:
Ne ambjentet ku ngrohja/ftohja e ajrit realizohet me me shume se nje pajisje te brendshme, kontrolli i temperatures dhe komandimi i shpejtesise se pajisjeve do te jete i tipit "master/slave ", pra ne cdo ambjent mund te kete vetem nje pajisje termostat dhe kontroll ambjenti
Tubacionet e bakrit duhet te ruhen me veshjen termoizoluese te pademtuara gjate instalimit si dhe te izoloohen bashkimet me rakorderite perkatese.
Ne rast te vendosjes se tubacioneve nen dysHEME eshte e nevojshme hedhja e nje shtrese mbrojtese (material ndertimi per te garantuar instalimin.
Tubacionet e shhkarkimit te kondensatit duhet te jene P32 me 1% pjerresi gjate instalimit ne menyre qe te ruhet rrjedhja e lire.

Note:
In areas where the heating / cooling of the zone is designed with more than one internal device, the temperature control and speed control of the devices will be of the "master / slave" type, so in each zone there can be only one thermostat device and environmental control
Copper pipes should be protected with thermal insulation coating undamaged during installation as well as insulate the joints with the respective fittings.
In case of laying pipes under the floor, it is necessary to lay a protective layer (construction material to guarantee the installation.
Condensate discharge pipes must be P32 with 1% slope during installation in order to maintain free flow.

 HT CONSTRUCTION NUS LEBRORA PROJEKTIM LIC.N.686/4 SUPERTIZOR-KOORDINIME LIC. MK. 3289	"H.T. Construction (High Tech Construction)" shpk				Architect/ Arkitekt:					Drawing No./ Nr. i Vizatimit:	HVAC15
	e-mail: class.construction@yahoo.com				Lic. N.6886/3	Ilir Cici	Lic. A.0079/3			Emertimi i Vizatimit:	
	Programme Title/Titulli i Programit: EU4schools/ BE Per Shkollat				Structural Eng./ Konstruktor:	Emal Grabova	Lic. A.1413/1			(Sheet name/ Emertimi i fletes)	
	Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tirana					Hydajet Tafa	Lic. K.1049/3				
	Municipality / Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia e Tiranës					Amela Stërniaqi					
 EU4SCHOOLS EUROPEAN UNION UNITED NATIONS DEVELOPMENT PROGRAMME	Donor/Financuesi: European Union EU/ Bashkimi Europian BE				Electrical Eng./Ing. Elektrik:	Xhovana Kokla	Lic. E.1188/1			Phase/Faza:	
	Implementing Agency/Agjensia Zbatuese: United Nations Development Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)				H-Technical Eng./Ing. H-Teknik:	Vaso Papamihali	Lic. H/T.0506/4			Detailed Design/ Projekt Zbatim:	
					FPD Expert/Eksp. MNZ:	Mamica Shehi	Lic. PZ M.106/1			Code/ Kodi:	P155
					HVAC Eng./Ing. NVAK:	Alma Koka Velaj	Lic. M.1066/3				

DETAJE TE INSTALIMIT PER SISTEMIN HVAC
INSTALLATION DETAILS FOR HVAC SYSTEM

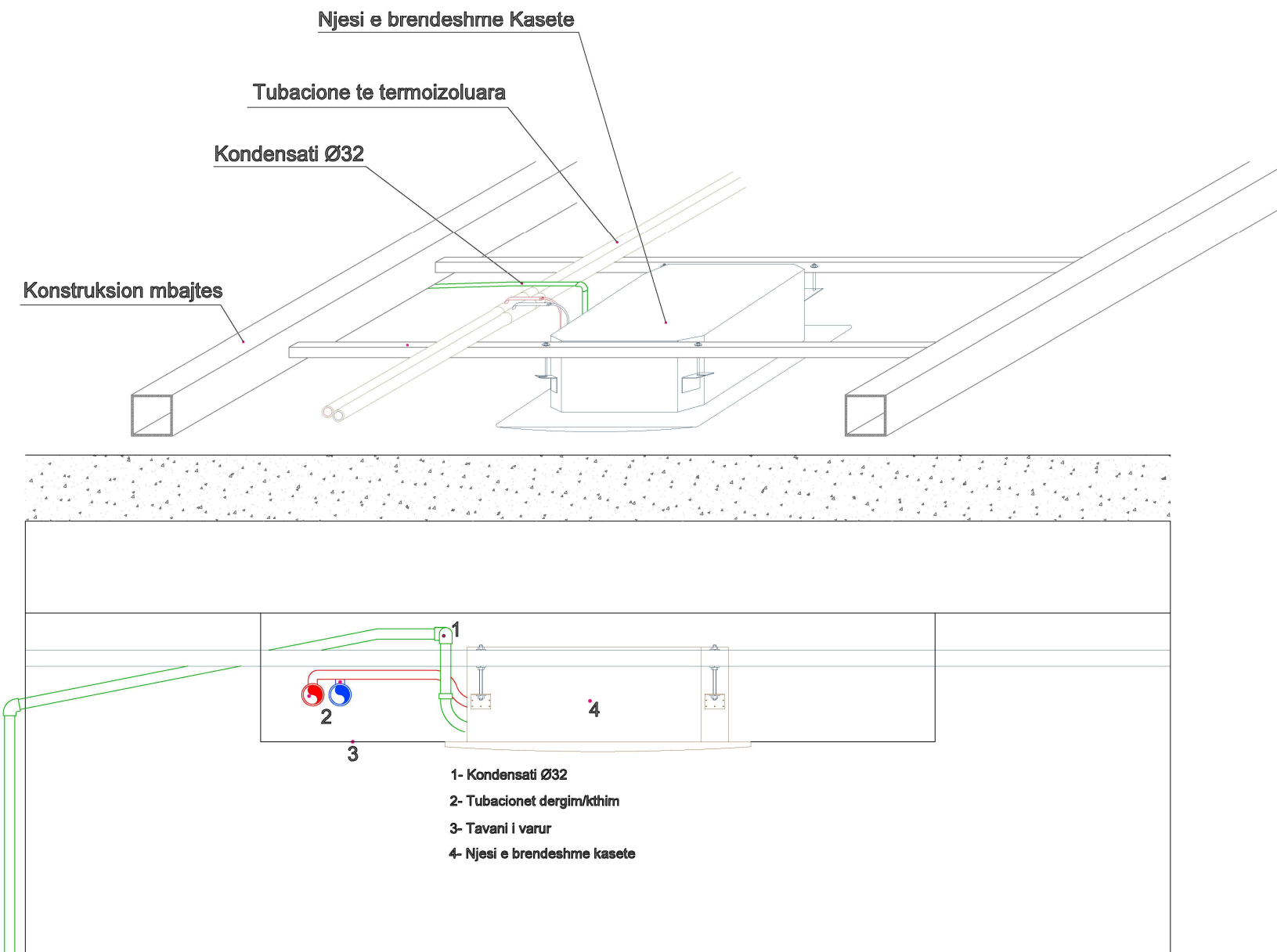


NJESI E BRENDESHME KASETE
CASSETTE INDOOR UNIT

Shenim:
Ne ambjentet ku ngrohja/ftohja e ajrit realizohet me me shume se nje pajisje te brendshme, kontrolli i temperatures dhe komandimi i shpejtesise se pajisjeve do te jete i tipit "master/slave ", pra ne cdo ambjent mund te kete vetem nje pajisje termostat dhe kontroll ambjenti
Tubacionet e bakrit duhet te ruhen me veshjen termoizoluese te pademtuara gjate instalimit si dhe te izoloohen bashkimet me rakorderite perkatese.
Ne rast te vendosjes se tubacioneve nen dysHEME eshte e nevojshme hedhja e nje shtrese mbrojttese (material ndertimi per te garantuar instalimin.
Tubacionet e shhkarkimit te kondensatit duhet te jene P32 me 1% pjerresi gjate instalimit ne menyre qe te ruhet rrjedhja e lire.

Note:
In areas where the heating / cooling of the zone is designed with more than one internal device, the temperature control and speed control of the devices will be of the "master / slave" type, so in each zone there can be only one thermostat device and environmental control
Copper pipes should be protected with thermal insulation coating undamaged during installation as well as insulate the joints with the respective fittings.
In case of laying pipes under the floor, it is necessary to lay a protective layer (construction material to guarantee the installation.
Condensate discharge pipes must be P32 with 1% slope during installation in order to maintain free flow.

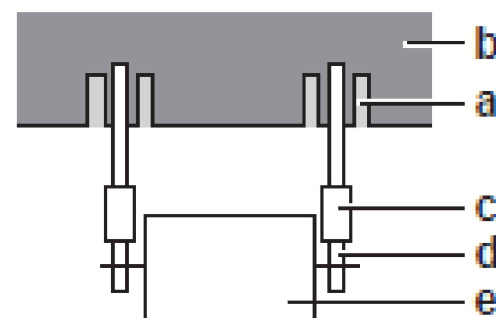
INSTALIMI I NJESISE SE BRENDSHME VRV
CASSETTE UNIT INSTALLATION FOR VRV SYSTEM



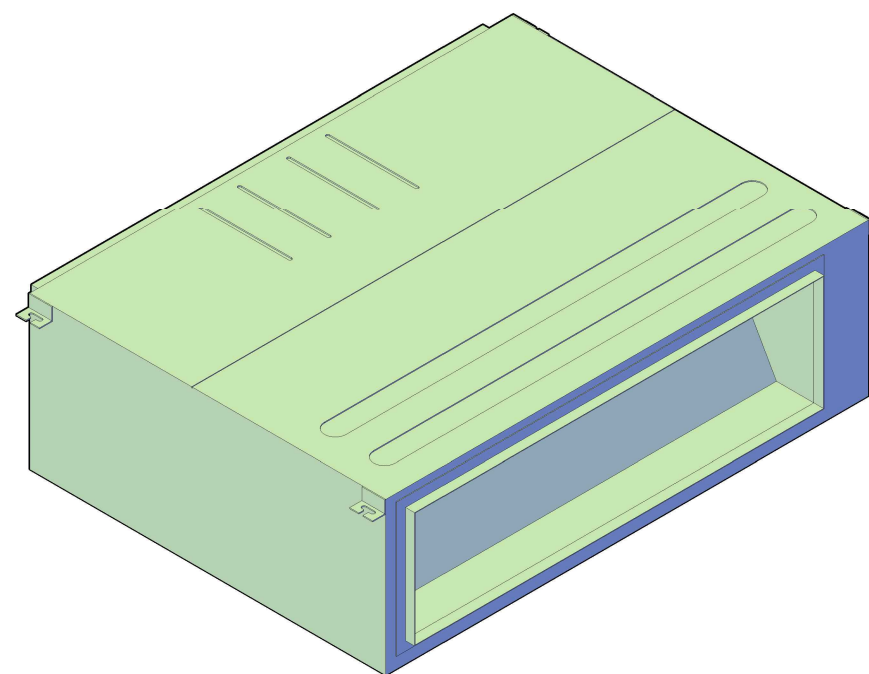
 HT CONSTRUCTION SH.P.K. SUPREVISION-KOLAITIME LLC, MK 3289	"H.T. Construction (High Tech Construction)" shpk e-mail: class.construction@yahoo.com Lic. N.6886/3 Programme Title/Titulli i Programit: EU4Schools/ BE Per Shkollat Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tirana Municipality / Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë			Architect/ Arkitekt: Structural Eng./ Konstruktor: Electrical Eng./Ing. Elektrik: H-Technical Eng./Ing. H-Teknik: FPD Expert/Eksp. MNZ: HVAC Eng./Ing. NVAK:		Drawing No./ Nr. i Vizatimit: HVAC16 Scale / Shkalla 1:250 Date / Data November / Nëntor 2021 Code/ Kodi: P155	
	Lic. A.0079/3 Lic. A.1413/1 Lic. K.1049/3 Lic. E.1188/1 Lic. H/T.0506/4 Lic. PZ M.106/1 Lic. M.1066/3			Ilir Cici Emal Grabova Hydajet Tota Amela Stërnij Amisa Saraçini Xhovana Kokla Vaso Papamihaili Mamica Shehi Mamica Shehi Alma Koka Velaj		Drawing Title/ Emërtimi i Vizatimit: (Sheet name/ Emërtimi i fletës) Phase/Faza: Detailed Design/ Projekt Zbatim:	
	Donor/Financuesi: European Union EU/ Bashkimi Europian BE Implementing Agency/Agjensia Zbatuese: United Nations Development Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)			 EU4SCHOOLS			

NJESI E BRENDESHME KANALORE
DUCTED INDOOR UNIT

- Installation example:



- a Anchor
- b Ceiling slab
- c Long nut or turn-buckle
- d Suspension bolt
- e Indoor unit



Shenim:

Ne ambjentet ku ngrohja/ftohja e ajrit realizohet me me shume se nje pajisje te brendshme, kontrolli i temperatures dhe komandimi i shpejtesise se pajisjeve do te jete i tipit "master/slave ", pra ne cdo ambjent mund te kete vetem nje pajisje termostat dhe kontroll ambjenti

Tubacionet e bakrit duhet te ruhen me veshjen termoizoluese te pademtuara gjate instalimit si dhe te izoloohen bashkimet me rakorderite perkatese.

Ne rast te vendosies se tubacioneve nen dysheme eshte e nevojshme hedhja e nje shtrese mbrojtese (material ndertimi per te garantuar instalimin.

Tubacionet e shhkarkimit te kondensatit duhet te jene P32 me 1% pjerresi gjate instalimit ne menyre qe te ruhet rrjedhja e lire.

Note:

In areas where the heating / cooling of the zone is designed with more than one internal device, the temperature control and speed control of the devices will be of the "master / slave" type, so in each zone there can be only one thermostat device and environmental control

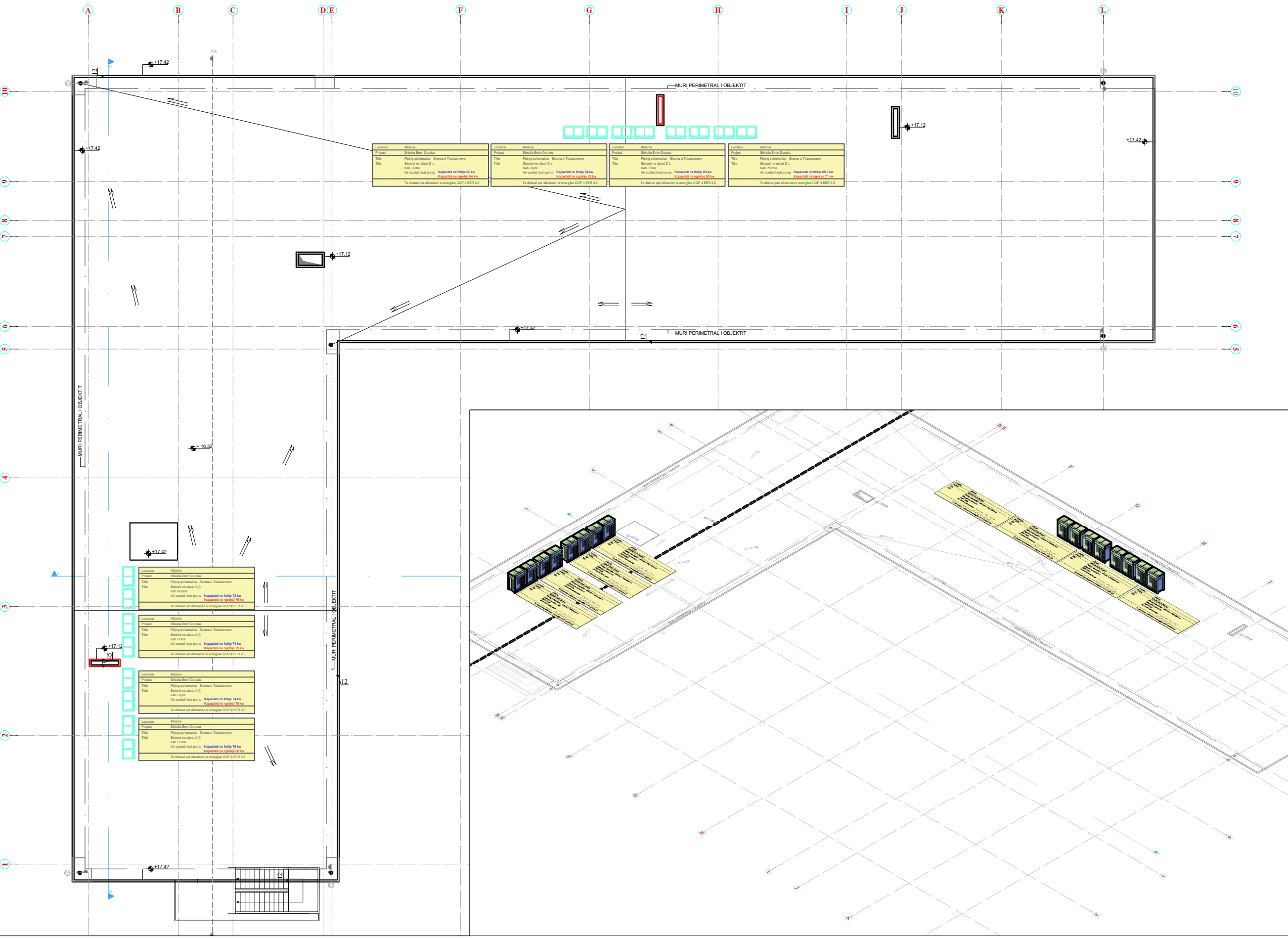
Copper pipes should be protected with thermal insulation coating undamaged during installation as well as insulate the joints with the respective fittings.

In case of laying pipes under the floor, it is necessary to lay a protective layer (construction material to guarantee the installation.

Condensate discharge pipes must be P32 with 1% slope during installation in order to maintain free flow.

 HT CONSTRUCTION NUSI BRIBORJA PROJEKTIMI I CILIA SHTREPERIMET E SHKOLLAVE LIC. MK. 2389	"H.T. Construction (High Tech Construction)" shpk				Architect/ Arkitekt:	Ilir Cici	Lic. A.0079/3	Drawing Title/ Emeritimi i Vizatimit: (Sheet name/ Emeritimi i fletes)	Drawing No./ Nr. i Vizatimit: HVAC17
	e-mail: class.construction@yahoo.com Lic. N.6886/3				Structural Eng./ Konstruktor:	Ernal Grabova Hydajet Tafa Amela Stërniqi	Lic. A.1413/1 Lic. K.1049/3		
	Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tirana					Amisa Saraçini			
	Municipality / Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë					Xhovana Kokla Vaso Papamihali	Lic. E.1188/1		
	Donor/Financuesi: European Union EU/ Bashkimi Europian BE				H-Technical Eng./Ing. Elektrik:	Mamica Shehi	Lic. H/T.0506/4		
	Implementing Agency/Agjensia Zbathuese: United Nations Development Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)				FPD Expert/Eksp. MNZ:	Lic. PZ M.106/1	Phase/Faza: Detailed Design/ Projekt Zbatim:	Code/ Kodi: P155	
	Programme (IUNDPI/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD))				HVAC Eng./Ing. NVAK:	Lic. M.1066/3			

POZICIONIMI I NJESIVE TE JASHTEME SISTEMI HVAC
OUTDOOR UNITS HVAC SYSTEM - ROOF PLAN





HT CONSTRUCTION

NTIS 18181018A

PROJEKTIM LIC N.6886/1

SUPERVEZION-SKOLAUDEME LIC MK 3289



EU4SCHOOLS

"H.T. Construction (High Tech Construction)" shpk

e-mail: class.construction@yahoo.com Lic. N.6886/3

Programme Title/Titulli i Programit: EU4Schools/ BE Per Shkollat

Project name/Projekti: Reconstruction of 9-Year School "EMIN DURAKU", Tirana Municipality /

Rindërtimi i Shkollës 9-Vjeçare "EMIN DURAKU", Bashkia Tiranë

Donor/Financuesi: European Union EU/ Bashkimi Europian BE

Implementing Agency/Agjensia Zbatuese: United Nations Development Programme (UNDP)/ Programi i Kombeve të Bashkuara për Zhvillim (PNUD)

Architect/
Arkitekt:

Structural Eng./
Konstruktior:

Electrical Eng./Ing. Elektrik:

H-Technical Eng./Ing. H-Teknik:

FPD Expert/Eksp. MNZ:

HVAC Eng./Ing. NVAK:

Ilir Cici

Ernal Grabova

Hydajet Tola

Amela Stërnici

Arnisa Saraçini

Xhovana Kokla

Vaso Papamihali

Mamica Shehi

Mamica Shehi

Alma Koka Velaj

Lic. A.0079/3

Lic. A.1413/1

Lic. K.1049/3

Lic. E.1188/1

Lic. H/T.0506/4

Lic. PZ M.106/1

Lic. M.1066/3

Drawing No./
Nr. i Vizatimit:

HVAC18

Scale / Shkalla

1:250

Date / Data

November / Nëntor 2021

Code/
Kodi:

P155

Drawing Title/
Emërtimi i Vizatimit:

(Sheet name/
Emërtimi i fletes)

Phase/Faza:
Detailed Design/
Projekt Zbatim:

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset A-C Kati Perdhe Air cooled heat pump Kapaciteti ne ftohje 72 kw Kapaciteti ne ngrohje 76 kw
Te dhenat per eficencen e energjise COP 4 EER 3.5	

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset D-L Kati i Trete Air cooled heat pump Kapaciteti ne ftohje 85 kw Kapaciteti ne ngrohje 94 kw
Te dhenat per eficencen e energjise COP 4 EER 3.5	

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset A-C Kati i Pare Air cooled heat pump Kapaciteti ne ftohje 74 kw Kapaciteti ne ngrohje 79 kw
Te dhenat per eficencen e energjise COP 4 EER 3.5	

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset D-L Kati i Dyte Air cooled heat pump Kapaciteti ne ftohje 84 kw Kapaciteti ne ngrohje 92 kw
Te dhenat per eficencen e energjise COP 4 EER 3.5	

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset A-C Kati i Dyte Air cooled heat pump Kapaciteti ne ftohje 74 kw Kapaciteti ne ngrohje 79 kw
Te dhenat per eficencen e energjise COP 4 EER 3.5	

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset D-L Kati i Pare Air cooled heat pump Kapaciteti ne ftohje 83 kw Kapaciteti ne ngrohje 90 kw
Te dhenat per eficencen e energjise COP 4 EER 3.5	

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset A-C Kati i Trete Air cooled heat pump Kapaciteti ne ftohje 76 kw Kapaciteti ne ngrohje 80 kw
Te dhenat per eficencen e energjise COP 4 EER 3.5	

Location	Albania
Project	Shkolla Emin Duraku
Title	Piping schematics - Skema e Tubacioneve
Title	Sistemi ne akset D-L Kati Perdhe Air cooled heat pump Kapaciteti ne ftohje 68.7 kw Kapaciteti ne ngrohje 71 kw
Te dhenat per eficencen e energjise COP 4 EER 3.5	