

PROJEKT

IMPJANTI I NGROHJE/FTOHJES

OBJEKTI:

KOPESHT-CERDHE E INTEGRUAR
Rr. "Muharrem Caushi", n.j str KA/208

Vendndodhja: TIRANE

LISTA E FLETEVE TE PROJEKTIT

- M 01 - IMPJANTI HVAC - INSTALIMET E NGROHJE/FTOHJES - FAN COIL & RADIATORE - KATI PERDHE
- M 02 - IMPJANTI HVAC - INSTALIMET E NGROHJE/FTOHJES - FAN COIL & RADIATORE - KATI I PARE
- M 03 - IMPJANTI HVAC - INSTALIMET E NGROHJE/FTOHJES - FAN COIL & RADIATORE - KATI I DYTE
- M 04 - IMPJANTI HVAC - LINJAT E UJIT PER NGROHJE/FTOHJE - MAGJISTRALET - KATI PERDHE
- M 05 - IMPJANTI HVAC - PARAQITJE 3D E LINJAVE TE UJIT PER NGROHJE/FTOHJE - MAGJISTRALET
- M 06 - IMPJANTI HVAC - SKEMA FUNKSIONALE E CENTRALIT TERMIK

PRONËSIA
PR



BASHKIA TIRANË

INVESTITOR
PRONËSIA



BASHKIA TIRANË

STUDIO PROJEKTIMI
ARCHITECTURE STUDIO

ASA AS ARCHITECTS
BRINGING SPACE TO LIFE

MECHANICAL ENGINEER
ING. MEKANIK
Artan DERSHA

SHËNIME / NOTES

01	02	03	04	05	06

Rrh. Nr. Rev. No.	Rishkrim Revision	Punoi: Drawn by:	Kontrollor: Checked by:	Mirato: Approved by:	Data: Date:

PLAN REFERENCË /
KEY PLAN



Projekti / Project 24AL-KC

KOPËSHIT-CERDHE E INTEGRUAR
Rr. "Muharrem Caushi", n.j str KA/208

Faza / Phase
PROJEKT ZBATIMI / IMPLEMENTATION PROJECT

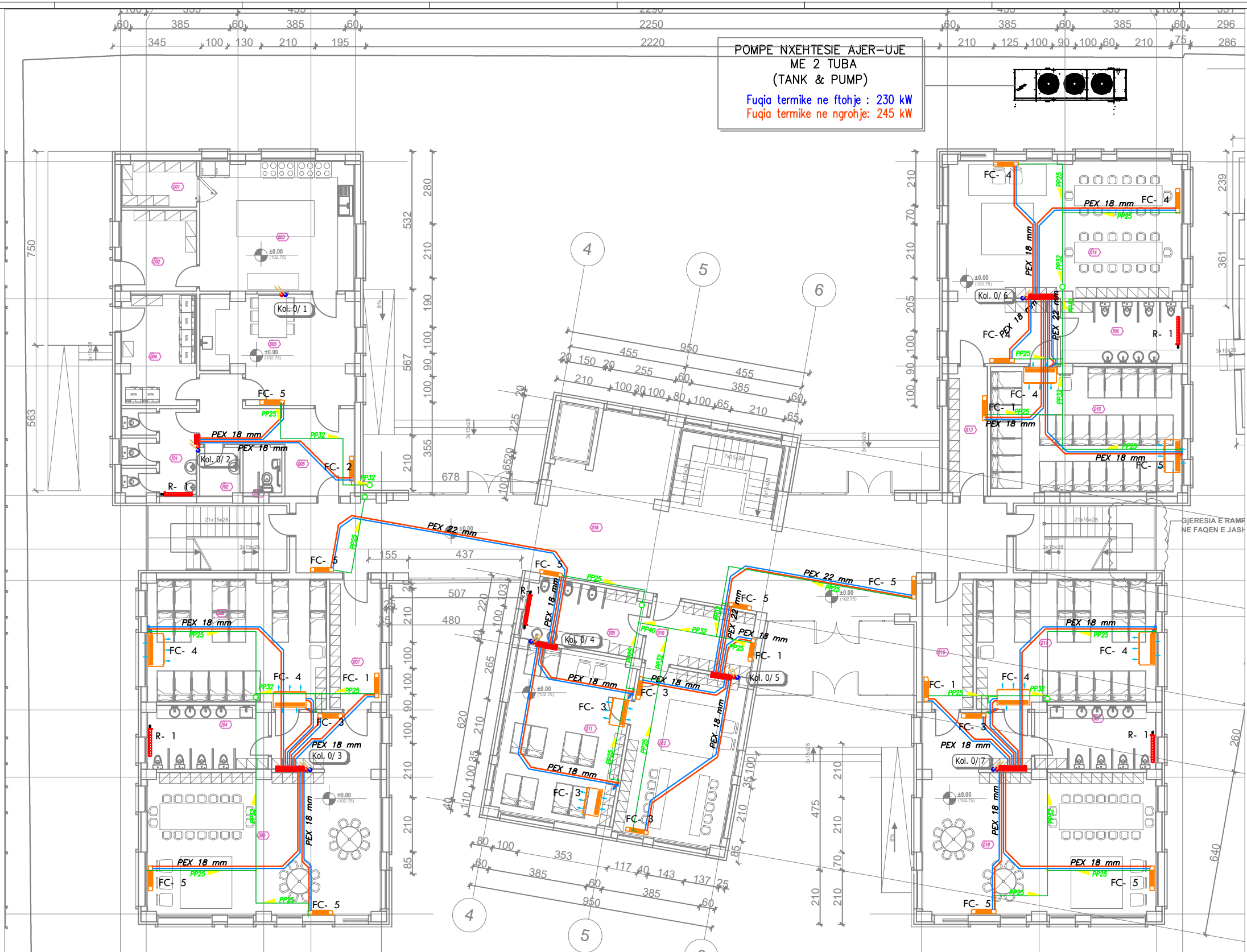
Disiplina Teknike kryesore / Primary Technical Discipline
HEATING-COOLING / NGROHJE-FTOHJE ME

Nr. dhe Titulli / Fields / Page No. and Title M - 00

IMPJANTI HVAC
LISTA E FLETEVE TE PROJEKTIT

Rishkrim Nr. / Revision No. 00

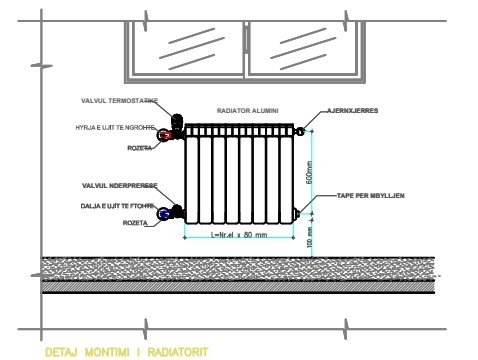
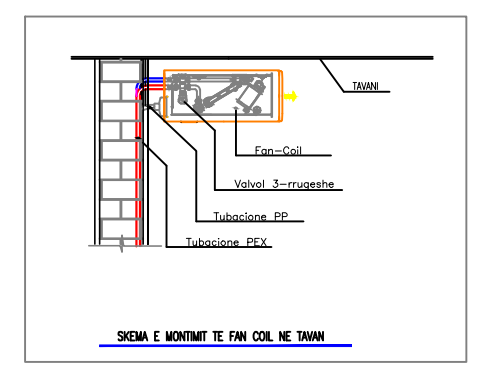
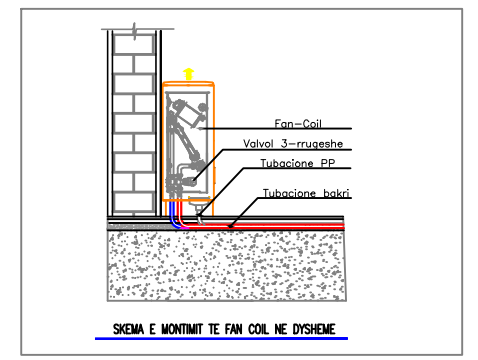
Spec. Shk. / Sc.



POMPE NXEHTESIE AJER-UJE
ME 2 TUBA
(TANK & PUMP)
Fuqia termike ne ftohje : 230 kW
Fuqia termike ne ngrohje: 245 kW

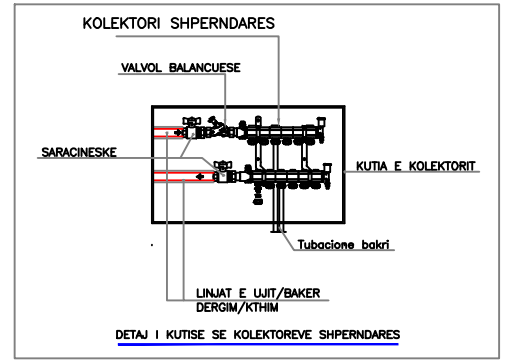
LEGJENDA

- Radiator Alumini
- Fan coil ne dysHEME
- Fan coil tavanor
- Nr. ambjenti
- Tubacione celiku te termoizoluara uji dergim/kthim
- Kolektor shperndares, i kompletuar me te gjithë aksesoret e nevojshem.
- Tubacione plastike-per shkarkim kondensati (nen dysHEME)
- Tubacione plastike-per shkarkim kondensati (ne tavan)
- Arredobanjo Elektrike
- Kolona vertikale (ulje/ngritje nga nje nivel ne nje nivel tjetër lartësie)
- Numri i kolektorit shperndares



SHENIM:

- Gjatesite, numrat e elementeve te radiatorave jane llogaritur per radiator alumini, element me gjeresi 80 mm.
- Numri i elementeve te radiatorave dhe gjatesite jane llogaritur per rreze kapacitet termik:
 - 61 W/element per Interaks I = 500 mm;
 - 70.4 W/element per Interaks I = 600 mm;
 - 78.6 W/element per Interaks I = 700 mm;
- Ngarkesa termike per element i referohet ujit ne hyrje te radiatorit $T_f=45^\circ C$, uji ne dalje $T_o=40^\circ C$, dhe temperatura te brendshme $T_a=20-21^\circ C$.



Tipi Fan Coil	Prurja e ajrit [m3/h]	Fuqi termike Ftohese Q [kW]	Fuqi termike Ngrohese Q [kW]
FC-1	290	1.73	1.95
FC-2	450	2.40	2.66
FC-3	450	2.80	2.97
FC-4	600	3.40	3.29
FC-5	600	4.45	4.28

Tipi Radiatori	Modeli	Lartesi H [mm]	Interaks I [mm]	Gjatesi L [mm]	Nr.Elementesh [el]	Fuqi termike Q [W]
R-1	600	681	600	1280	16	1126.4

PRONËSIA PR

BASHKIA TIRANË

INVESTITOR PRONËSIA

BASHKIA TIRANË

STUDIO PROJEKTIMI ARCHITECTURE STUDIO

ASA ARCHITECTS
BRINGING SPACE TO LIFE

MECHANICAL ENGINEER
ING. MEKANIK
Artan DERSHA

SHËNIME / NOTES

Rev. No.	Rishikim	Perdor.	Kontrollor.	Mirator.	Data.
01					01

PLAN REFERENCË / KEY PLAN

Projekti / Project: 24AL-KC

KOPËSHIT-CERDHE E INTEGRUAR
Rr. "Muharrem Caushi", n.j str KA/208

Faza / Phase: PROJEKT ZBATIMI / IMPLEMENTATION PROJECT

Disiplina Teknike kryesore / Primary Technical Discipline: HEATING-COOLING / NGROHJE-FTOHJE

Nr. dhe Titulli / Fields / Page No. and Title: ME M-01

LINJAT E UJIT PER NGROHJE-FTOHJE FAN COIL - KATI PERDHE

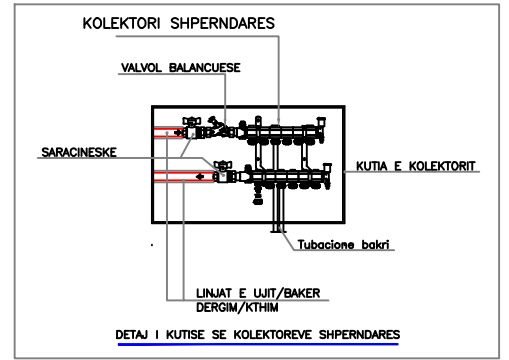
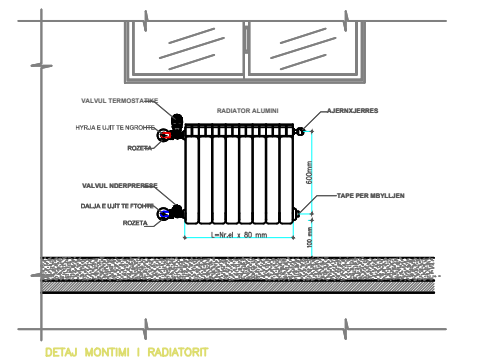
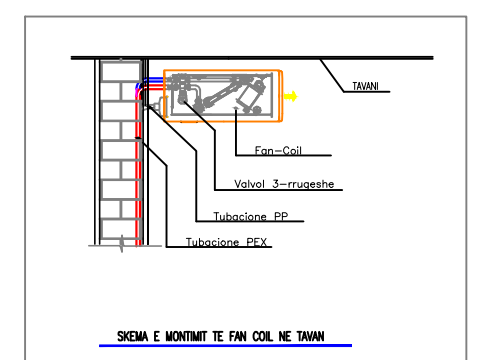
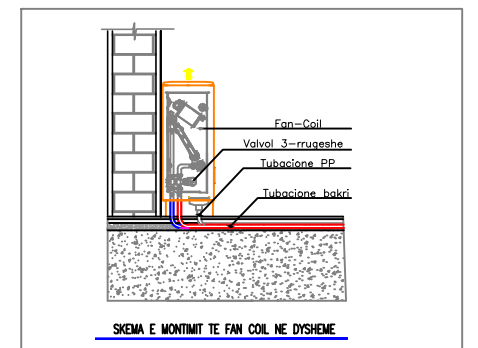
Rishikim Nr. / Revision No.: 00

Spec.: Shk. / Sc.: 1:200



LEGJENDA

- Radiator Alumini
- Fan coil ne dysheme
- Fan coil tavanor
- Nr. ambjenti
- Tubacione celiku te termoizoluara uji dergim/kthim
- Kolektor spherndares, i kompletuar me te gjitha aksesoret e nevojshem.
- Tubacione plastike-per shkarkim kondensati (nen dysheme)
- Tubacione plastike-per shkarkim kondensati (ne tavan)
- Arredobanjo Elektrike
- Kolona vertikale (ulje/ngritje nga nje nivel ne nje nivel tjetër lartësie)
- Numri i kolektorit spherndares



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FC-1	290	1.73	1.95
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SHENIM:

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- Numri i elementeve te radiatorëve dhe gjatesite jane llogaritur per nje kapacitet termik:
 - 61 W/element per Interaks I = 500 mm;
 - 70.4 W/element per Interaks I = 600 mm;
 - 78.6 W/element per Interaks I = 700 mm;
- Ngarkesa termike per element i referohet ujit ne hyrje te radiatorit T_{in}=45 °C, uji ne dalje T_{out}=40°C, dhe temperatura te brendshme T_{amb}=20-21°C.

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SHËNIME / NOTES

Rev. No.	Rishikim	Perdor.	Kontrollor	Mirator	Data
00					00

PLAN REFERENCË / KEY PLAN

Projekti / Project: 24AL-KC

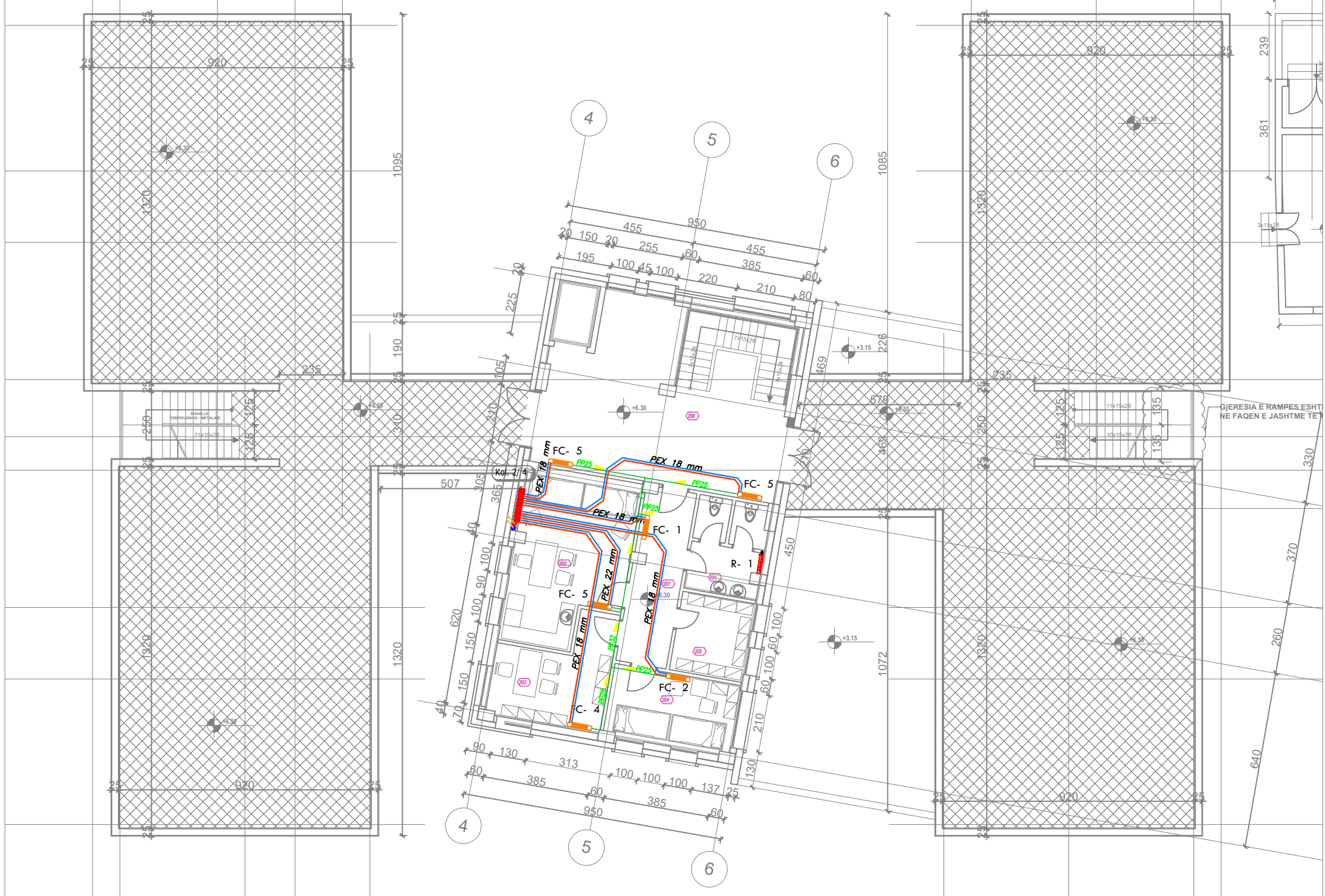
KOPËSHIT-CERDHE E INTEGRUAR
Rr. "Muharrem Caushi", n.j str KA/208

Faza / Phase: **PROJEKT ZBATIMI / IMPLEMENTATION PROJECT**

Disiplina Teknike kryesore / Primary Technical Discipline: **ME**
HEATING-COOLING / NGROHJE-FTOHJE

Nr. dhe Titulli i Fildit / Page No. and Title: **M-02**
LINJAT E UJIT PER NGROHJE-FTOHJE
FAN COIL - KATI I PARE

Rishikim Nr. / Revision No.: 00
Spec.: Shk. / Sc.: 1:200



LEGJENDA

- Radiator Alumini
- Fan coil ne dysHEME
- Fan coil tavanor
- Nr. ambjenti
- Tubacione celiku te termoizoluara uji dergim/kthim
- Kolektor spherndares, i kompletuar me te gjithë aksesoret e nevojshem.
- Tubacione plastike-per shkarkim kondensati (nen dysHEME)
- Tubacione plastike-per shkarkim kondensati (ne tavan)
- Arredobanjo Elektrike
- Kolona vertikale (ulje/ngritje nga nje nivel ne nje nivel tjetër lartësie)

Kol. - 2 Numri i kolektorit spherndares

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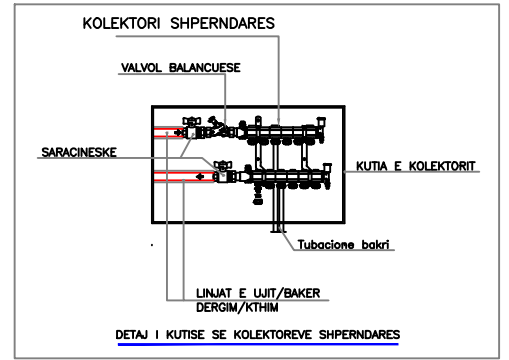
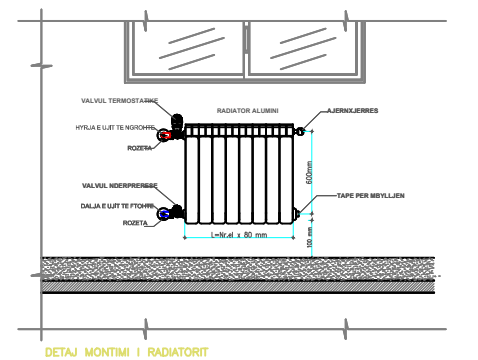
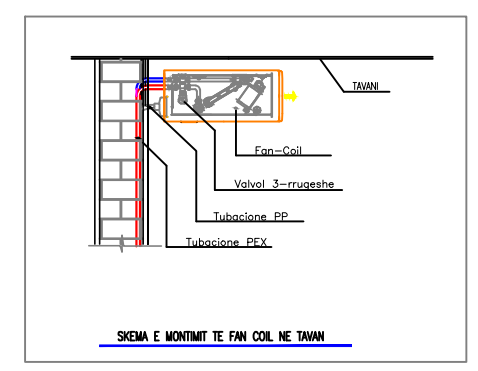
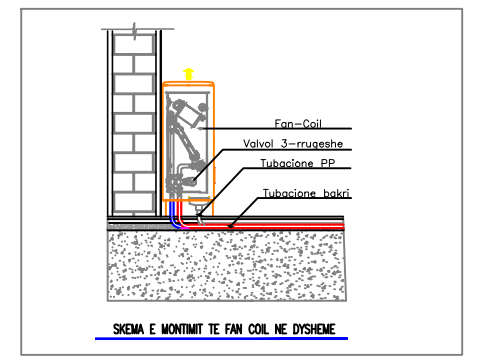
BASHKIA TIRANË

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ARCHITECTURE STUDIO

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SHËNIME / NOTES



Tipi Fan Coil	Prurja e ajrit [m3/h]	Fuqi termike Ftohese Q [kW]	Fuqi termike Ngrohese Q [kW]
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Tipi Radiatori	Modeli	Lartesi H [mm]	Interaks I [mm]	Gjatesi L [mm]	Nr.Elementesh [el]	Fuqi termike Q [W]
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Rev. No.	Rishikim	Perdor	Kontrollor	Mirator	Data
01					

PLAN REFERENCË / KEY PLAN

Projekti / Project: 24AL-KC

KOPËSHIT-CERDHE E INTEGRUAR
Rr. "Muharrem Caushi", n.j str KA/208

Faza / Phase: **PROJEKT ZBATIMI / IMPLEMENTATION PROJECT**

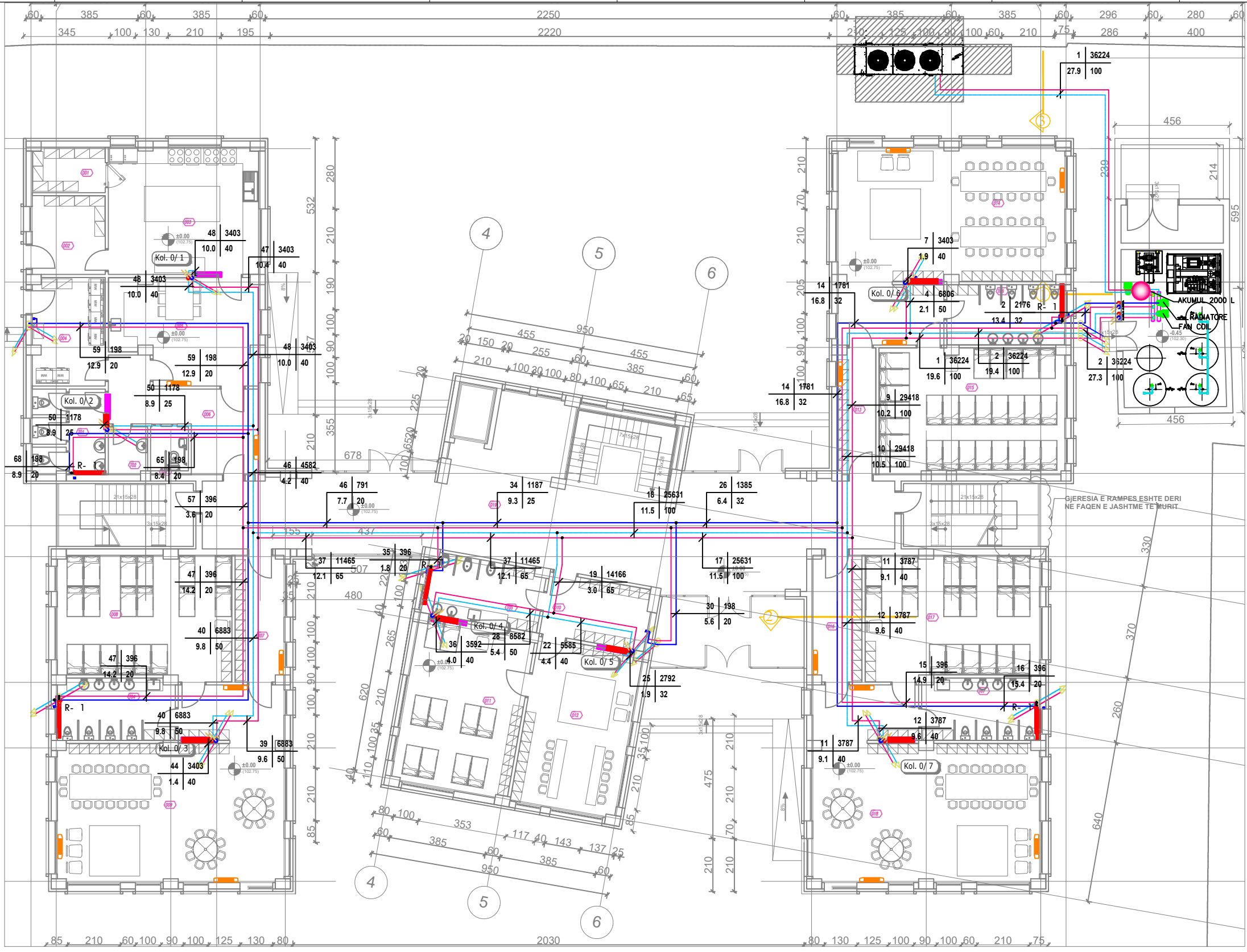
Disiplina Teknike kryesore / Primary Technical Discipline: **MECHANICAL ENGINEERING**

HEATING-COOLING / NGROHJE-FTOHJE

Nr. dhe Titulli / Fields / Page No. and Title: M-03
LINJAT E UJIT PER NGROHJE-FTOHJE FAN COIL - KATI I DYTE

Rishikim Nr. / Revision No.: 00

Spec.: Shk. / Sc.: 1:200



- ### LEGJENDA
- Radiator Alumini
 - Fan coil ne dysHEME
 - Fan coil tavANOR
 - Nr. ambjenti
 - Tubacione celiku te termoizoluara uji dergim/kthim
 - Kolektor shperndares, i kompletuar me te gjithe aksesoret e nevojshem.
 - Tubacione plastike-per shkarkim kondensati (nen dysHEME)
 - Tubacione plastike-per shkarkim kondensati (ne tavan)
 - Arredobanjo Elektrike
 - Kolona vertikale (ulje/ngritje nga nje nivel ne nje nivel tjetër lartësie
 - Numri i kolektorit shperndares

PRONËSIA
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INVESTITOR
PRONËSIA

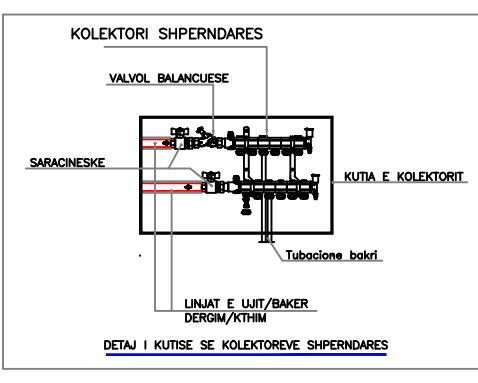
BASHKIA TIRANË

STUDIO PROJEKTIMI
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SHËNIME / NOTES



Nr. Tubacionit: TR M(kg/h) Prurja e ujit

Gjat. Tubac. L(m) DN Diametri nominal

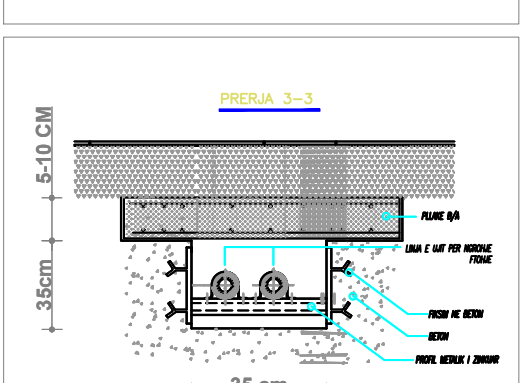
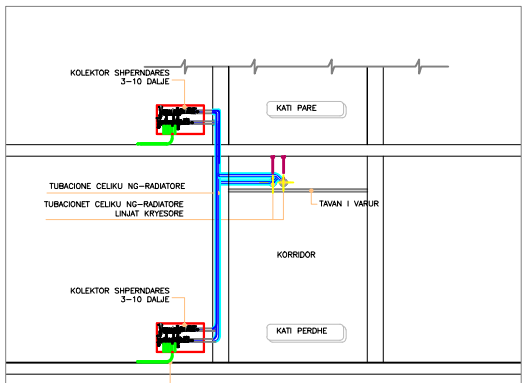
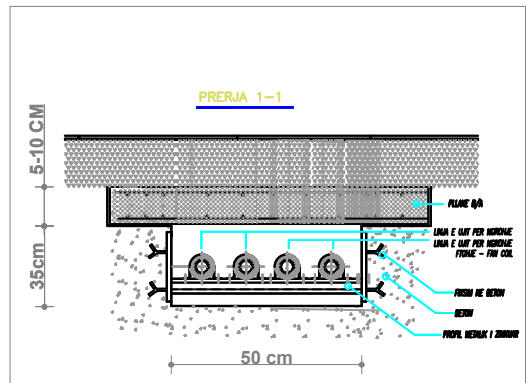
MËBESHETJËT E TUBACIONEVË

MATERIAL	SIZE	DISTANCA MËBESHETËSE
CELK	DN 15	1.20
	DN 20	1.40
	DN 25	1.80
	DN 32	2.20
	DN 40	2.40
BAKER	DN 15	1.20
	DN 20	1.30
	DN 25	1.50
PVC	DN 15	0.80
	DN 20	0.90
	DN 25	1.00
	DN 32	1.10
	DN 40	1.30

TRASHËSIA MINIMALE E TERMOIZOLIMIT TE TUBACLUJIT	POZICIONI	
	NE PUSE	JASHTJE
DAMETER [mm]	7	10
	10	15
BRENDIA [mm]	15	20
	20	25
NE PUSE [mm]	15	20
	20	25
JASHTJE [mm]	30	40
	40	50
DAMETER [mm]	50	60
	60	80
DAMETER [mm]	80	100
	>100	30

Tipi Fan Coil	Prurja e ajrit [m3/h]	Fuqi termike Ftohese Q [kW]	Fuqi termike Ngrohese Q [kW]
FC-1	290	1.73	1.95
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FC-3	450	2.80	2.97
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Tipi Radiatori	Modeli	Lartësi H [mm]	Interaks I [mm]	Gjatesi L [mm]	Nr. Elementesh [el]	Fuqi termike Q [W]
R-1	600	681	600	1280	16	1126.4



Projekti / Project 24AL-KC

KOPËSHT-CERDHE E INTEGRUAR

Rr. "Muharrem Caushi", n.j str KA/208

Faza / Phase

PROJEKT ZBATIMI / IMPLEMENTATION PROJECT

Drejplina Teknike kryesore / Primary Technical Discipline

HEATING-COOLING / NGROHJE-FTOHJE

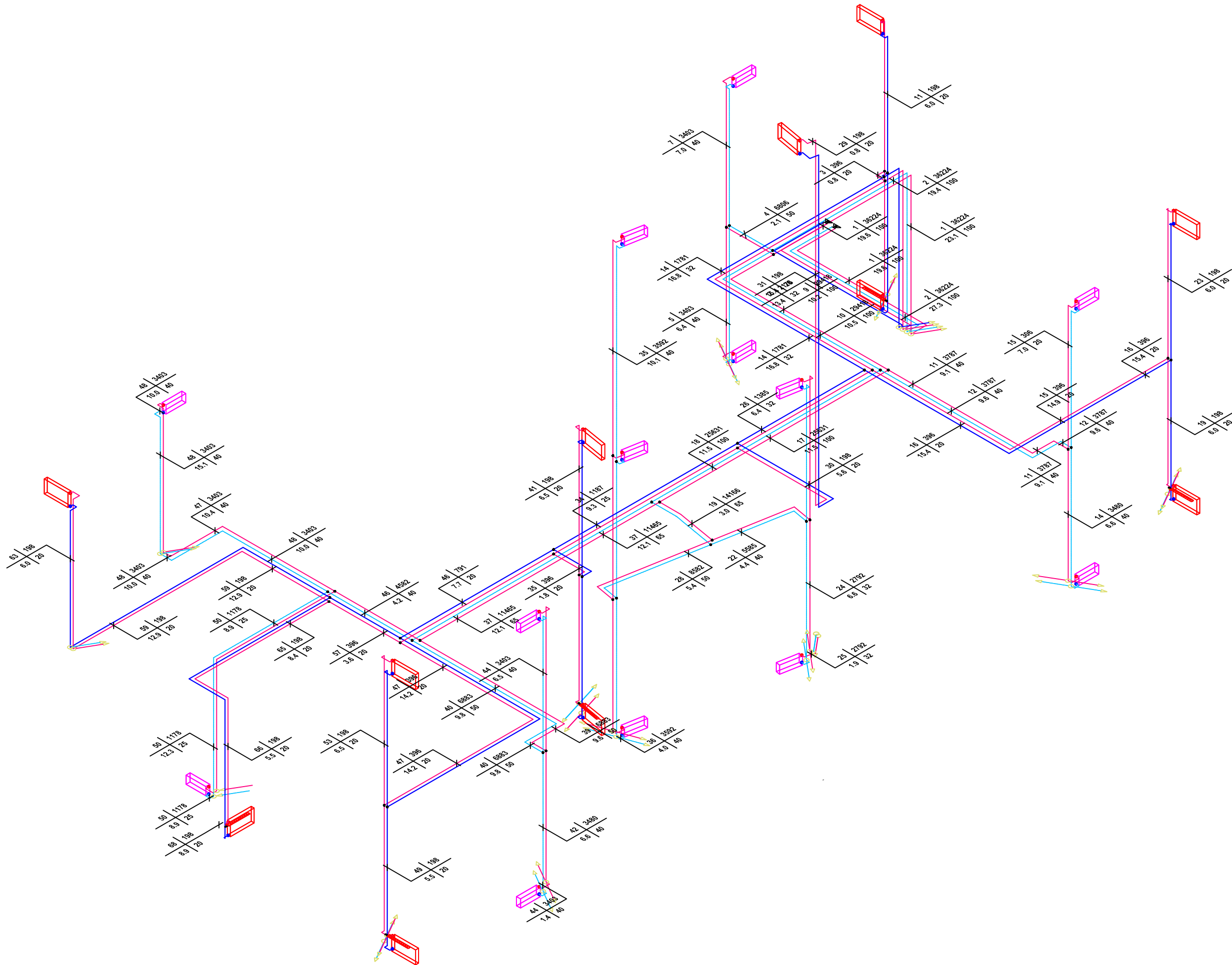
Nr. dhe Titulli / Fields / Page No. and Title

M-04

MAGJISTRALET E UJIT PER NGROHJE/ FTOHJE - KATI PERDHE

Rishikim Nr. / Revision No. 00

Spec. / Shk. / Sc. 1:200



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MECHANICAL ENGINEER
M
Artan DERSHA

SHËNIME / NOTES

Rev. No.	Rishkrim	Revizion	Drawn by:	Controlled by:	Approved by:	Date:
01						01 Mars 2021

PLAN REFERENCË /
KEY PLAN



Projekti / Project: 24AL-KC

KOPËSHIT-CERDHE E INTEGRUAR
Rr. "Muharrem Caushi", n.j str KA/208

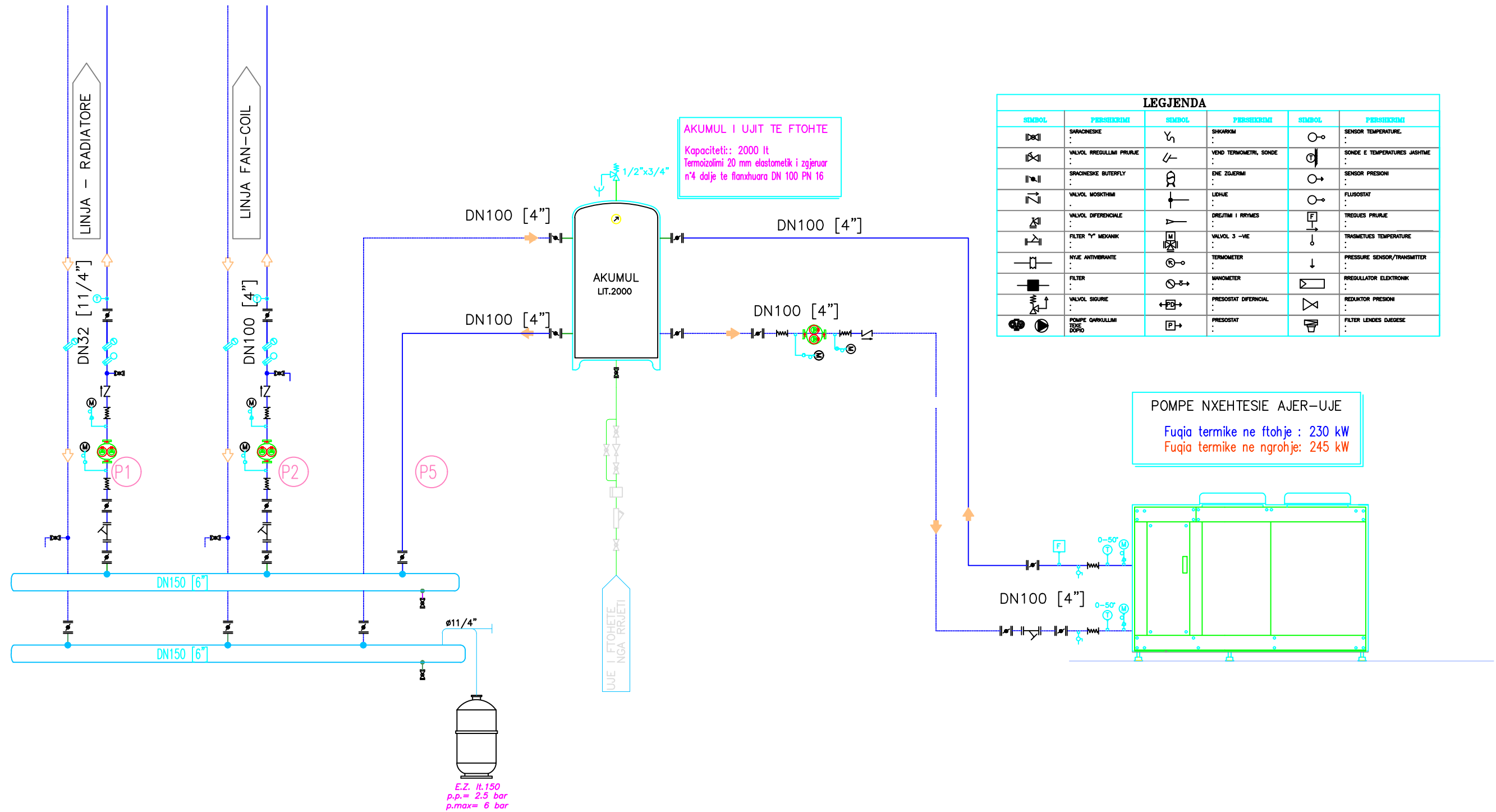
Faza / Phase: **PROJEKT ZBATIMI/IMPLEMENTATION PROJECT**

Disiplina Teknike kryesore / Primary Technical Discipline: **ME**
HEATING-COOLING / NGROHJE-FTOHJE

Nr. dhe Titulli / Fields / Page No. and Title: **M - 05**
IMPJANTI HVAC - SKEMA 3D E UJIT NGROHJE/FTOHJE - MAGJISTRALET

Rishkrim Nr. / Revision No.: 00

Spec.: Shk. / Sc.

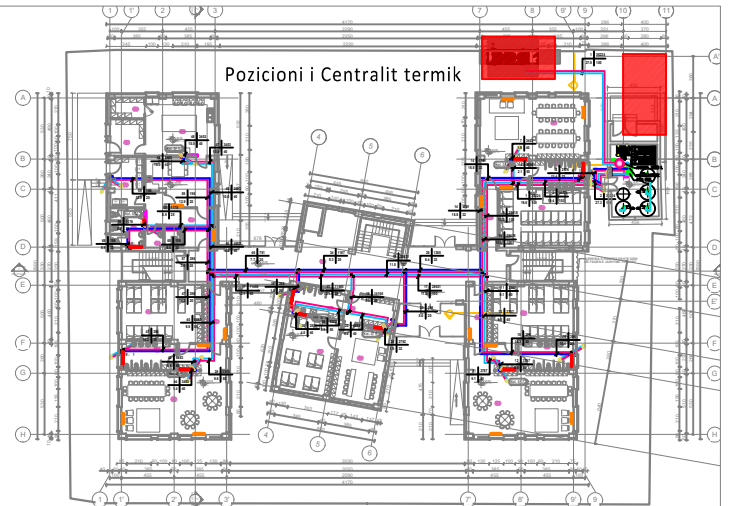


AKUMUL I UJIT TE FTOHTE
 Kapaciteti: 2000 lt
 Termoizolimi 20 mm elastometk i zgjeruar
 n'4 dalje te flanzhuara DN 100 PN 16

POMPE NXEHTESIE AJER-UJE
 Fuqia termike ne ftohje : 230 kW
 Fuqia termike ne ngrohje: 245 kW

LEGJENDA			
SYMBOL	PERSHKRIMI	SYMBOL	PERSHKRIMI
	SHTACSHESKE		SHTARKIM
	VALVOL RREGULLIM PRURJE		VENDI TERMOMETRI, SONDE
	SHTACSHESKE BUTERFLY		ENE ZGJERIMI
	VALVOL MOSKTHIM		LIDHJE
	VALVOL DIFERENCIALE		DREJTIMI I RRYMES
	FILTER MJEKANIK		VALVOL 3 -VE
	NYJETE ANTVIBRANTE		TERMOMETER
	FILTER		MANOMETER
	POMPE QARKULLIMI TEJE DOFIQ		PRESOSTAT DIFERENCIAL
			PRESOSTAT
			SENSOR TEMPERATURE
			SONDE E TEMPERATURES JASHME
			SENSOR PRESIONI
			FLUROSTAT
			TREGUES PRURJE
			TRANSMETUES TEMPERATURE
			PRESSURE SENSOR/TRANSMITTER
			RREGULLATOR ELEKTRONIK
			REDAKTOR PRESIONI
			FILTER LENËS DAJESE

E.Z. It.150
 p.p.= 2.5 bar
 p.max= 6 bar



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MECHANICAL ENGINEER
ING. MEKANIK
Artan DERSHA

SHËNIME / NOTES

01	SSISSEP	APLIMEP	AS	Mars 2021
Rshk. Nr.	OBKM	Drawn by:	Checked by:	Date:
Rev. No.	Revision	Drawn by:	Checked by:	Date:

PLAN REFERENCË /
KEY PLAN

Projekti / Project 24AL-KC

KOPËSHIT-CERDHE E INTEGRUAR
Rr. "Muharrem Caushi", n.j str KA/208

Faza / Phase
PROJEKT ZBATIMI / IMPLEMENTATION PROJECT

Disiplina Teknike kryesore / Primary Technical Discipline
HEATING-COOLING / NGROHJE-FTOHJE ME

Nr. dhe Titulli / Fields / Page No. and Title M - 06

IMPJANTI HVAC - SKEMA
FUNKSIONALE E CENTRALIT TERMIK

Rshkëmb Nr. / Revision No. 00

Spec: Shk. / Sc.