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من نحن ؟

نحن شركة هندسية متكاملة الخدمات متخصصة في تصميم
المباني التجارية والسكنية

يعمل فريقنا من المهندسين المعماريين والمهندسين معاً
لإنشاء تصاميم مبتكرة وعملية تلبى احتياجات عملائنا
لقد أنجزنا العديد من المشاريع ، بما في ذلك المستشفيات
و الفنادق و المباني السكنية . تلتزم شركتنا بتقديم خدمة
استثنائية وتصنيع عالي الجودة لعملائنا

رؤيتنا

رؤيتنا هي أن نكون شركة هندسية رائدة تقدم حلولاً مبتكرة و مستدامة
للتحديات المعقدة

نحن نسعى جاهدين للإعتراف بخبرتنا الفنية و خدمة العملاء
الاستثنائية و الالتزام بالإشراف البيئي

هدفنا هو خلق مستقبل أفضل لعملائنا و موظفينا و مجتمعاتنا من
خلال تقديم مشاريع عالية الجودة تتجاوز التوقعات . و سوف نحقق
ذلك من خلال تعزيز ثقافة التعاون و التعلم المستمر و الابتكار

تتمثل رؤيتنا في أن نكون شريكاً موثقاً لعملائنا
، و مكاناً رائعاً للعمل لموظفينا ،
و عضواً مسؤولاً في المجتمعات التي نخدمها



القسم التخطيطي

تحميل مدن
تصميم تخطيط
نقل و مرور
اعادة تخطيط و تطوير
تخطيط اقليمي
تنسيق مواقع

القسم الميكانيكا

مخططات تغذية
مخططات صرف صحي
مخططات صرف مطر
مخططات تكييف
مخططات غاز
مخططات ري الحدائق

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توزيع افياش
انظمة التيار الخفيف
احمال التكييف
جداول الاحمال
الكهربائية

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نوتة حسابية
تصميم منشآت معدنية
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الصب

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تصميم حدائق
تصميم فنادق
تصميم مدارس
تصميم مباني تجارية

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اشراف و تنفيذ
استلام البنود

قسم المكتب الفني

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مخططات Asbuilt
حصر كميات
جدول زمني
مستخلصات

إظهار معماري

تصميم داخلي
تصميم واجهات

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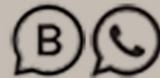
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DRAINAGE



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OWNER	عبدالعزيز عبدالله علي الزامل	
DRAWING NAME		
SHEET NO.		
DISTRICT.	LAND NO.	BLOCK NO.
العقيق	393	أب/1863

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY - AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD



NOTE
 ANY WATER CLOSET =110 MM DIAMETER
 WITH SLOPE 1%

NOTE
 split pipe drain $\frac{3}{4}$ in with slope 2%

slope 2% for wp pipes equal
 or less than 75 mm DIA

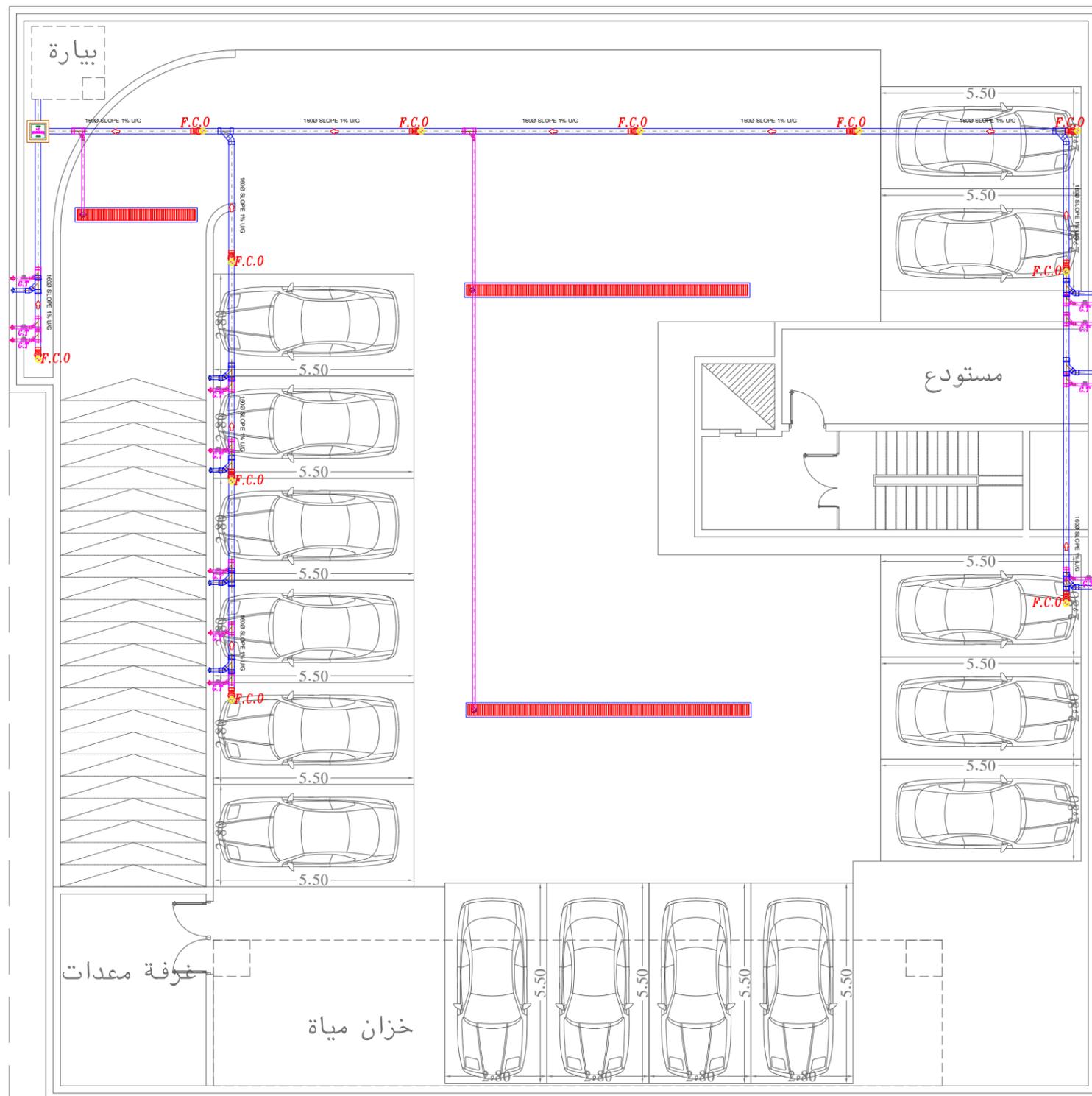


SYMBOLS LEGEND :

DRAINAGE AND WATER SUPPLY LEGEND

SYMBOL	ABBRE.	DESCRIPTION
— SP —		SOIL WATER
— WP —		WASTE PIPE
— VP —		SPLIT SUPPLY PIPE
— od —		SPLIT PIPE STACK
— CS —		COLD STACK
— HS —		HOT STACK
		HEATER
	FD	FLOOR DRAIN
	F.C.O	FLOOR CLEANOUT
	CO	CLEANOUT
	RG	RAIN GUTTER
	GT	GULLY TRAP
	IC	INSPECTION CHAMBER
	F/A	FROM ABOVE
	IV	ISOLATION VALVE
	T/A	TO ABOVE
	T/B	TO BELOW
	I/W	IN WALL
	H/L	HIGH LEVEL
	U/G	UNDER GROUND
		domestic water pipe
		rain stack
		soil stack
		vent stack
		waste stack

مخطط الصرف الصحي
 كل مواسير الكرسي ٤ بوصة
 مواسير التوصيل بين غرف التفتيش ٦ بوصة
 مواسير الصرف من الجلي تراب الى غرف التفتيش ٣ بوصة
 مواسير الصرف الى الصفاية ٢ بوصة
 مواسير تصريف التكييف ١/٢ بوصة
 ميول مواسير الصرف ١٪



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PROJECT	شقق مخدومة (فندق)		
OWNER	عبدالعزیز عبدالله علی الزامل		
DRAWING NAME	الصرف الصحي للدور البدروم		
SHEET NO.	ME-01		
DISTRICT.	LAND NO.	BLOCK NO.	
العتيق	393	أب/1863	

SHEET INFORMATION	
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY – AHMED MOAMEN
Structure	FETOUH MOHAMMED – MANAR MOHAMMED
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD



حد الملكية

خزان مياه

غرفة معدات

مستودع

بيارة

NOTE
ANY WATER CLOSET =110 MM DIAMETER
WITH SLOPE 1%

NOTE
split pipe drain $\frac{3}{4}$ in with slope 2%

slope 2% for wp pipes equal
 or less than 75 mm DIA



SYMBOLS LEGEND :

SYMBOL	ABBRE.	DESCRIPTION
— SP —		SOIL WATER
— WP —		WASTE PIPE
— VP —		SPLIT SUPPLY PIPE
— od —		SPLIT PIPE STACK
— CS —		COLD STACK
— HS —		HOT STACK
		HEATER
	FD	FLOOR DRAIN
	FCO	FLOOR CLEANOUT
	CO	CLEANOUT
	RG	RAIN GUTTER
	GT	GULLY TRAP
	IC	INSPECTION CHAMBER
	F/A	FROM ABOVE
	IV	ISOLATION VALVE
	T/A	TO ABOVE
	T/B	TO BELOW
	I/W	IN WALL
	H/L	HIGH LEVEL
	U/G	UNDER GROUND
		domestic water pipe
		rain stack
		soil stack
		vent stack
		waste stack

مخطط الصرف الصحي

كل مواسير الكريسي 4 بوصة
 مواسير التوصيل بين غرف التفتيش 6 بوصة
 مواسير الصرف من الجلي تراب الى غرف التفتيش 3 بوصة
 مواسير الصرف الى الصفاية 2 بوصة
 مواسير تصريف التكييف 1/2 بوصة
 ميول مواسير الصرف 1%



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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	الصرف الصحي للدور الارضى	
SHEET NO.	ME-02	
DISTRICT.	LAND NO.	BLOCK NO.
العتيق	393	1863/أب

SHEET INFORMATION	
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY – AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD



NOTE
 ANY WATER CLOSET =110 MM DIAMETER
 WITH SLOPE 1%

NOTE
 split pipe drain $\frac{3}{4}$ in with slope 2%

slope 2% for wp pipes equal
 or less than 75 mm DIA

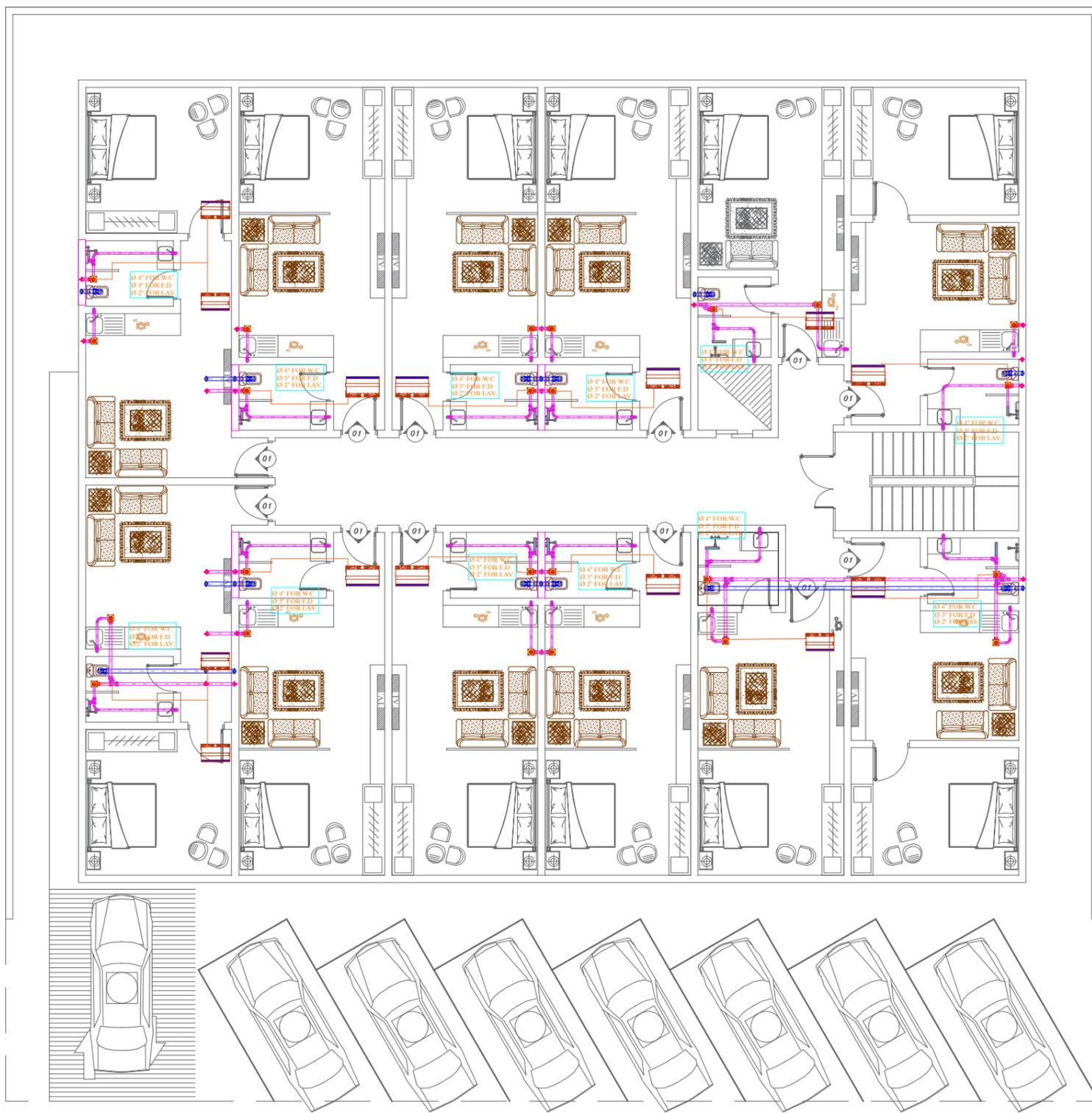


SYMBOLS LEGEND :

SYMBOL	ABBR.	DESCRIPTION
— SP —		SOIL WATER
— WP —		WASTE PIPE
— VP —		SPLIT SUPPLY PIPE
— od —		SPLIT PIPE STACK
— CS —		COLD STACK
— HS —		HOT STACK
		HEATER
	FD	FLOOR DRAIN
	FCO	FLOOR CLEANOUT
	CO	CLEANOUT
	RG	RAIN GUTTER
	GT	GULLY TRAP
	IC	INSPECTION CHAMBER
	F/A	FROM ABOVE
	IV	ISOLATION VALVE
	T/A	TO ABOVE
	T/B	TO BELOW
	I/W	IN WALL
	H/L	HIGH LEVEL
	U/G	UNDER GROUND
		domestic water pipe
		rain stack
		soil stack
		vent stack
		waste stack

مخطط الصرف الصحي

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 مواسير التوصيل بين غرف التفتيش ٦ بوصة
 مواسير الصرف من الجلي تراب الى غرف التفتيش ٣ بوصة
 مواسير الصرف الى الصفاية ٢ بوصة
 مواسير تصريف التكييف ١/٢ بوصة
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OWNER	عبدالعزیز عبدالله علی الزامل		
DRAWING NAME	الصرف الصحي للدور الاول		
SHEET NO.	ME-03		
DISTRICT.	LAND NO.	BLOCK NO.	
العقيق	393	1863/أب	

SHEET INFORMATION	
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY – AHMED MOAMEN
Structure	FETOUH MOHAMMED – MANAR MOHAMMED
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD



NOTE
 ANY WATER CLOSET =110 MM DIAMETER
 WITH SLOPE 1%

NOTE
 split pipe drain $\frac{3}{4}$ in with slope 2%

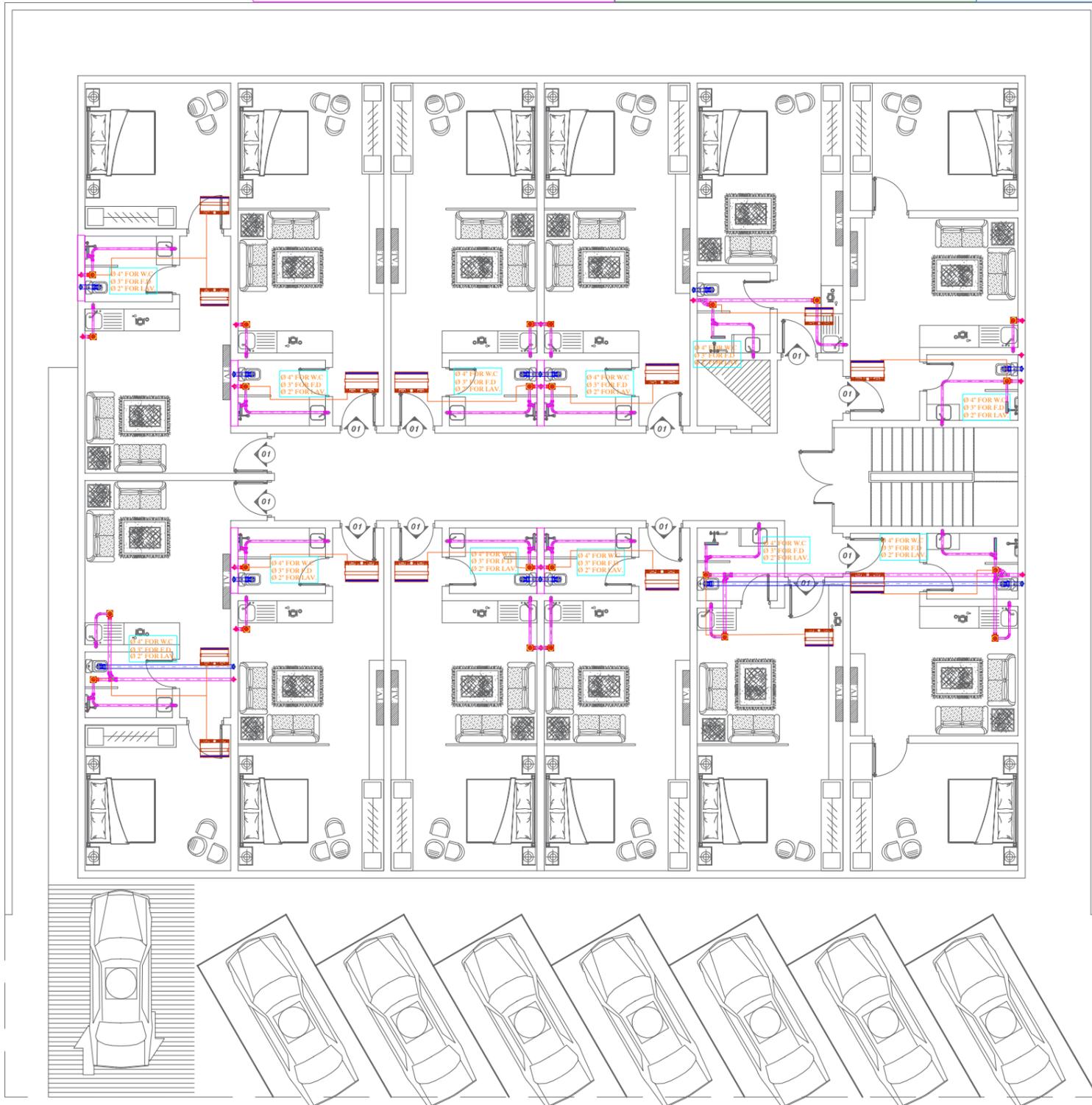
slope 2% for wp pipes equal
 or less than 75 mm DIA



SYMBOLS LEGEND :

SYMBOL	ABBRE.	DESCRIPTION
— SP —		SOIL WATER
— WP —		WASTE PIPE
— VP —		SPLIT SUPPLY PIPE
— sd —		SPLIT PIPE STACK
— CS —		COLD STACK
— HS —		HOT STACK
		HEATER
	FD	FLOOR DRAIN
	FOO	FLOOR CLEANOUT
	CO	CLEANOUT
	RG	RAIN GUTTER
	GT	GULLY TRAP
	IC	INSPECTION CHAMBER
	F/A	FROM ABOVE
	IV	ISOLATION VALVE
	T/A	TO ABOVE
	T/B	TO BELOW
	I/W	IN WALL
	H/L	HIGH LEVEL
	U/G	UNDER GROUND
		domestic water pipe
		rain stack
		soil stack
		vent stack
		waste stack

مخطط الصرف الصحي
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 مواسير الصرف من الجلي تراب إلى غرف التفتيش 3 بوصة
 مواسير الصرف إلى الصفاية 2 بوصة
 مواسير تصريف التكييف 1/2 بوصة
 مواسير الصرف 1/2 بوصة



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OWNER	عبدالعزیز عبدالله علی الزامل		
DRAWING NAME	الصرف الصحي للدور الثاني		
SHEET NO.	ME-04		
DISTRICT.	LAND NO.	BLOCK NO.	
العقيق	393	1863/أب	

SHEET INFORMATION	
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY - AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD



NOTE
ANY WATER CLOSET =110 MM DIAMETER
 WITH SLOPE 1%

NOTE
split pipe drain $\frac{3}{4}$ in with slope 2%

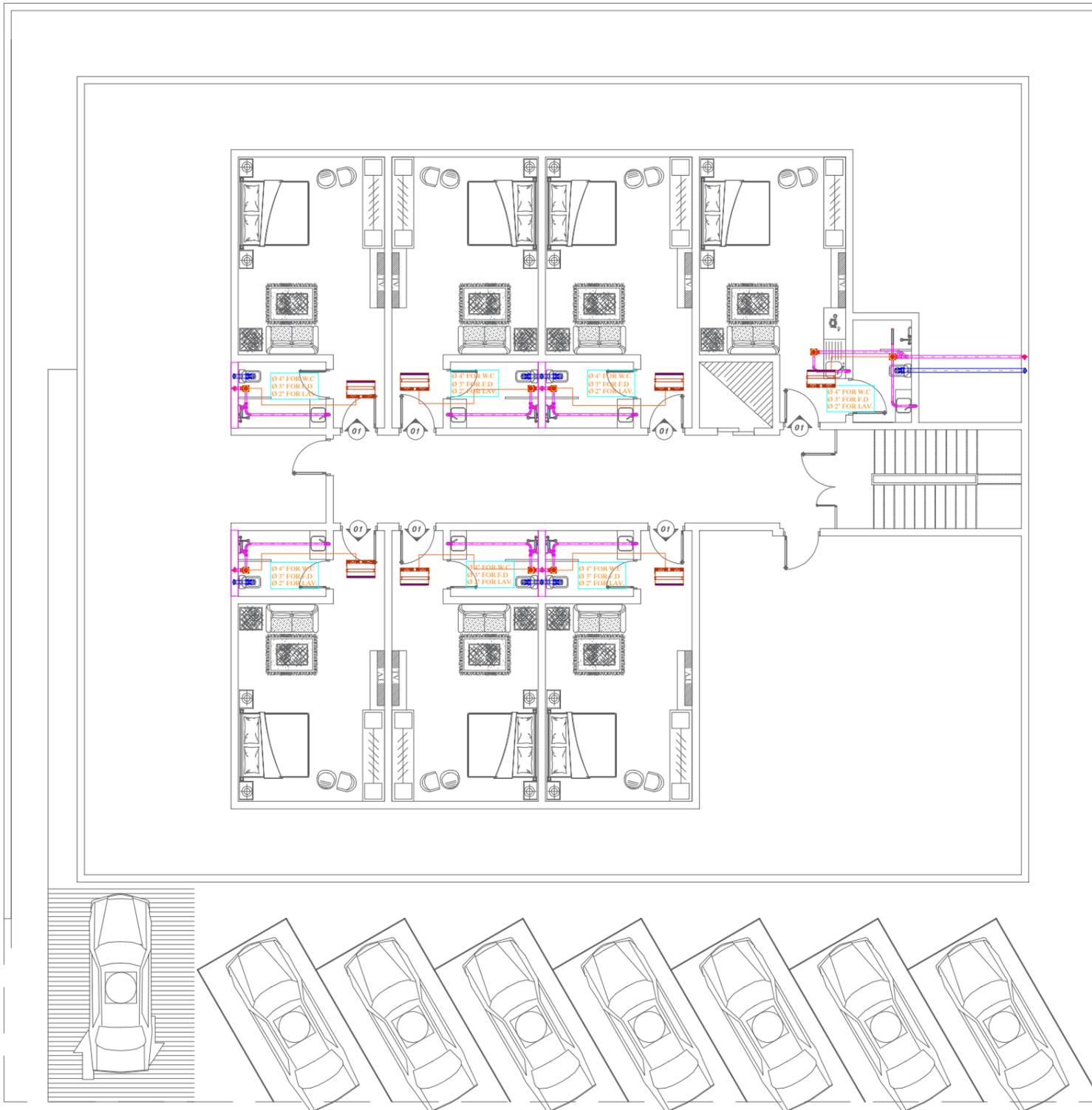
slope 2% for wp pipes equal
 or less than 75 mm DIA



SYMBOLS LEGEND :

SYMBOL	ABBR.	DESCRIPTION
— SP —		SOIL WATER
— WP —		WASTE PIPE
— VP —		SPLIT SUPPLY PIPE
— sd —		SPLIT PIPE STACK
— CS —		COLD STACK
— HS —		HOT STACK
		HEATER
	FD	FLOOR DRAIN
	FCD	FLOOR CLEANOUT
	CO	CLEANOUT
	RG	RAIN GUTTER
	GT	GULLY TRAP
	IC	INSPECTION CHAMBER
	F/A	FROM ABOVE
	IV	ISOLATION VALVE
	T/A	TO ABOVE
	T/B	TO BELOW
	I/W	IN WALL
	H/L	HIGH LEVEL
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		domestic water pipe
		rain stack
		soil stack
		vent stack
		waste stack

مخطط الصرف الصحي
 كل مواسير الكراسي 4 بوصة
 مواسير التوصيل بين غرف التفتيش 6 بوصة
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 مواسير تصريف التكييف 1 1/2 بوصة
 ميول مواسير الصرف 1%



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OWNER	عبدالعزیز عبدالله علی الزامل		
DRAWING NAME	الصرف الصحي للدور الملحق		
SHEET NO.	ME-05		
DISTRICT.	LAND NO.	BLOCK NO.	
العتيق	393	1863/أب	

SHEET INFORMATION	
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY – AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD



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NOTE
 ANY WATER CLOSET =110 MM DIAMETER
 WITH SLOPE 1%

NOTE
 split pipe drain $\frac{3}{4}$ in with slope 2%

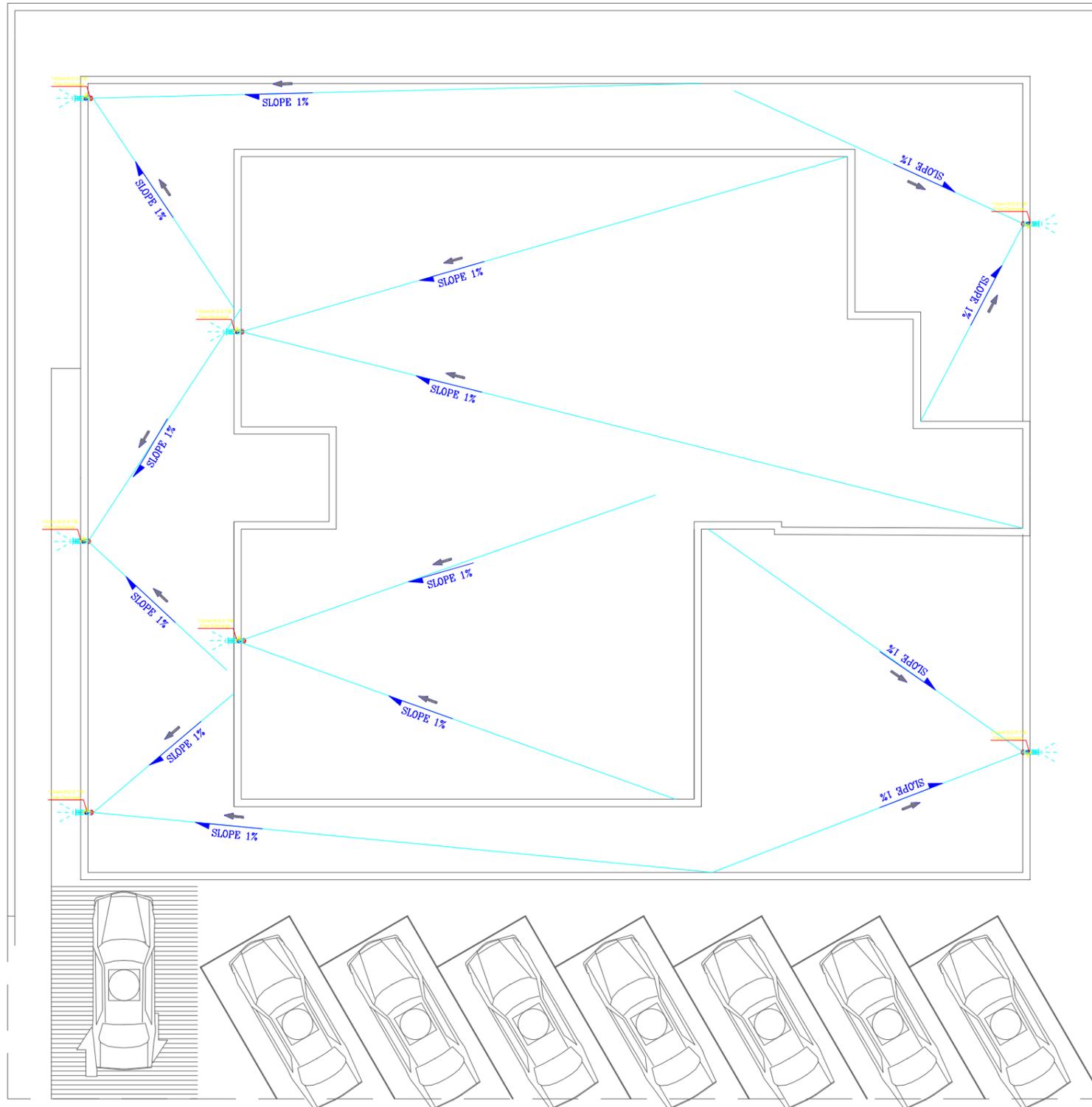
slope 2% for wp pipes equal
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SYMBOLS LEGEND :

SYMBOL	ABBR.	DESCRIPTION
— SP —		SOIL WATER
— WP —		WASTE PIPE
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 مواسير الصرف من الجلي تراب الى غرف التفتيش ٣ بوصة
 مواسير الصرف الى الصفايه ٢ بوصة
 مواسير تصريف التكييف ١/٢ بوصة
 ميول مواسير الصرف ١%



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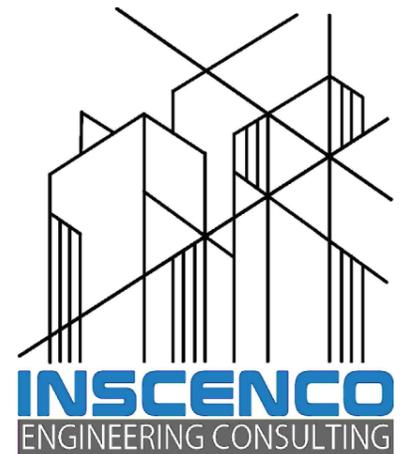
PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	الصرف الصحي للدور السطح	
SHEET NO.	ME-06	
DISTRICT.	LAND NO.	BLOCK NO.
العتيق	393	1863/أب

SHEET INFORMATION	
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY – AHMED MOAMEN
Structure	FETOUH MOHAMMED – MANAR MOHAMMED
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD





WATER SUPPLY



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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME		
SHEET NO.		
DISTRICT.	LAND NO.	BLOCK NO.
العقبة	393	أب/1863

SHEET INFORMATION

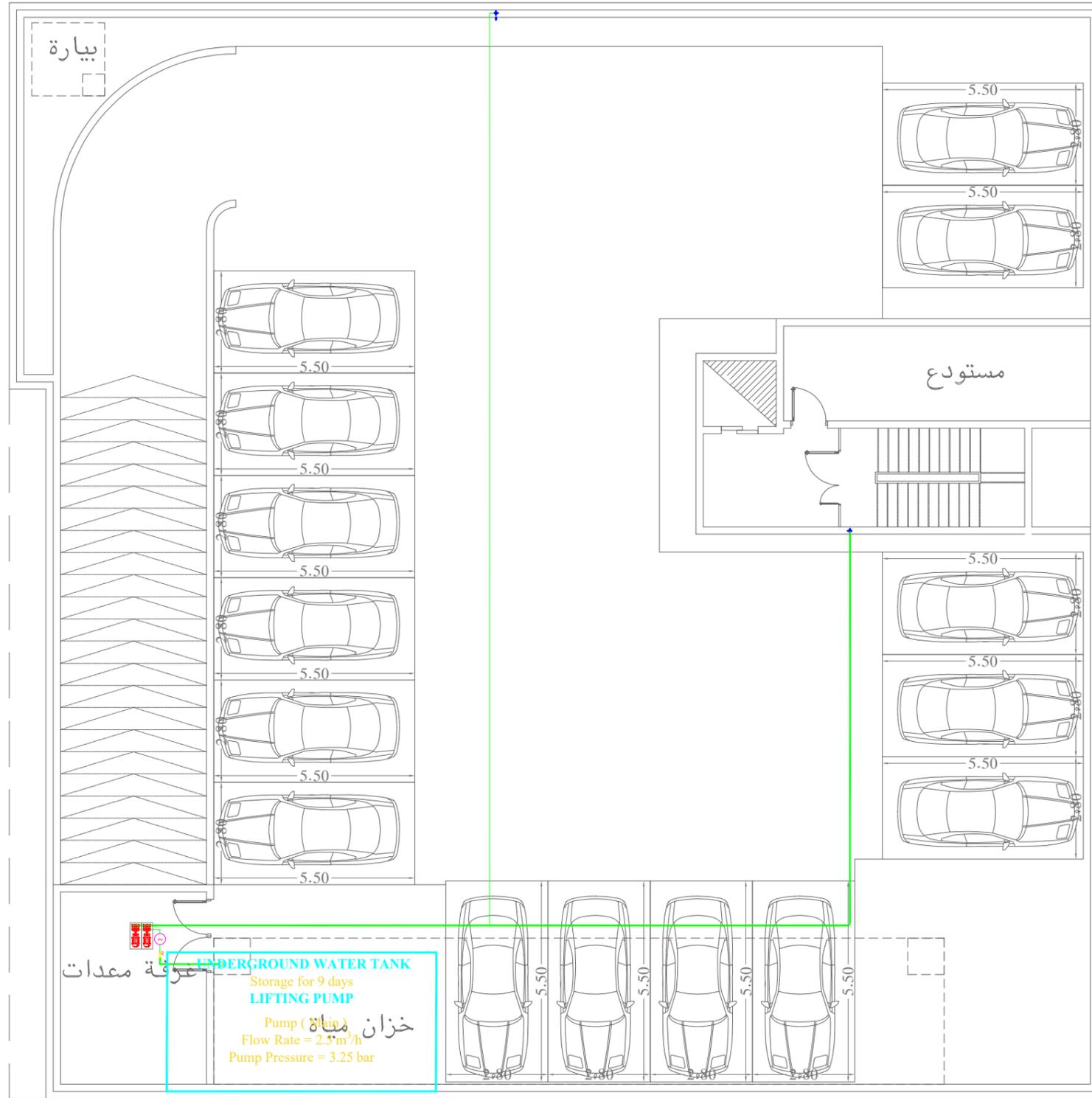
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY - AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD



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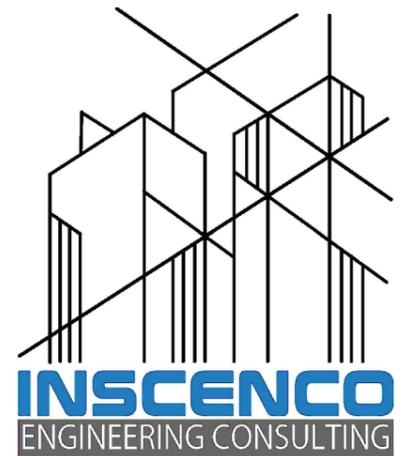
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SYMBOLS LEGEND :

DRAINAGE AND WATER SUPPLY LEGEND

SYMBOL	ABBRE.	DESCRIPTION
— SP —		SOIL WATER
— WP —		WASTE PIPE
— VP —		SPLIT SUPPLY PIPE
— od —		SPLIT PIPE STACK
— CS —		COLD STACK
— HS —		HOT STACK
		HEATER
	FD	FLOOR DRAIN
	F/CO	FLOOR CLEANOUT
	CO	CLEANOUT
	RG	RAIN GUTTER
	GT	GULLY TRAP
	IC	INSPECTION CHAMBER
	F/A	FROM ABOVE
	IV	ISOLATION VALVE
	T/A	TO ABOVE
	T/B	TO BELOW
	I/W	IN WALL
	H/L	HIGH LEVEL
	U/G	UNDER GROUND
		domestic water pipe
		rain stack
		soil stack
		vent stack
		waste stack



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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالمعز عبد الله علي الزامل	
DRAWING NAME	تغذية المياه للدور القبو	
SHEET NO.	ME-07	
DISTRICT.	LAND NO.	BLOCK NO.
العتيق	393	أب/1863

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY – AHMED MOAMEN
Structure	FETOUH MOHAMMED – MANAR MOHAMMED
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD



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حد الملكية

UNDERGROUND WATER TANK
Storage for 9 days
LIFTING PUMP
خزان مياه
Pump (Main)
Flow Rate = 2.5 m³/h
Pump Pressure = 3.25 bar

معدات

بيارة

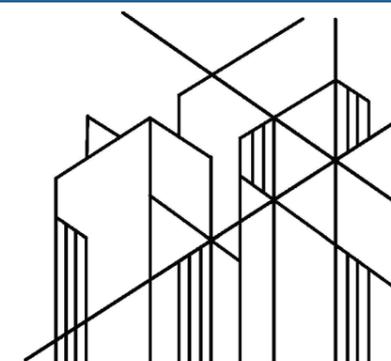
مستودع



SYMBOLS LEGEND :

DRAINAGE AND WATER SUPPLY LEGEND

SYMBOL	ABBRE.	DESCRIPTION
— SP —		SOIL WATER
— WP —		WASTE PIPE
— VP —		SPLIT SUPPLY PIPE
— od —		SPLIT PIPE STACK
— CS —		COLD STACK
— HS —		HOT STACK
		HEATER
	FD	FLOOR DRAIN
	FCD	FLOOR CLEANOUT
	CO	CLEANOUT
	RG	RAIN GUTTER
	GT	GULLY TRAP
	IC	INSPECTION CHAMBER
	F/A	FROM ABOVE
	IV	ISOLATION VALVE
	T/A	TO ABOVE
	T/B	TO BELOW
	I/W	IN WALL
	H/L	HIGH LEVEL
	U/G	UNDER GROUND
		domestic water pipe
		rain stack
		soil stack
		vent stack
		waste stack



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PROJECT	شقق مخدمة (فندق)	
OWNER	عبدالعزيز عبدالله علي الزامل	
DRAWING NAME	تغذية المياه للدور الارضى	
SHEET NO.	ME-08	
DISTRICT.	LAND NO.	BLOCK NO.
العقيق	393	1863/أب

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4	
Architect	OMAR AL-SAMAHY – AHMED MOAMEN	
Structure	FETOUH MOHAMMED – MANAR MOHAMMED	
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL	
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD	





SYMBOLS LEGEND :

SYMBOL	ABBRE.	DESCRIPTION
	SP	SOIL WATER
	WP	WASTE PIPE
	VP	SPLIT SUPPLY PIPE
	sd	SPLIT PIPE STACK
	CS	COLD STACK
	HS	HOT STACK
		HEATER
	FD	FLOOR DRAIN
	FCO	FLOOR CLEANOUT
	CO	CLEANOUT
	RG	RAIN GUTTER
	GT	GULLY TRAP
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	IV	ISOLATION VALVE
	T/A	TO ABOVE
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	I/W	IN WALL
	H/L	HIGH LEVEL
	U/G	UNDER GROUND
		domestic water pipe
		rain stack
		soil stack
		vent stack
		waste stack



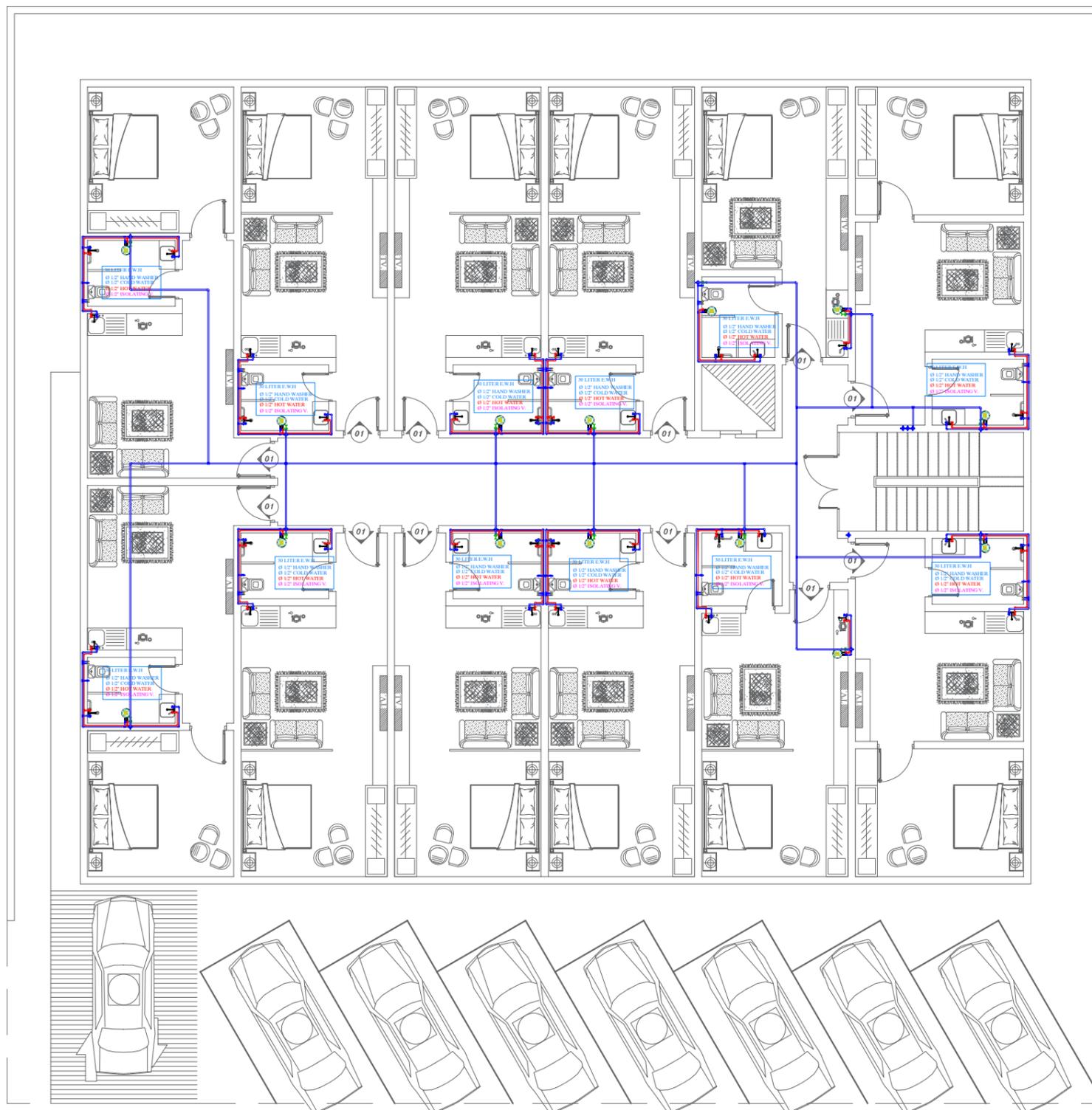
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PROJECT	شقق مخدمة (فندق)	
OWNER	عبدالعزيز عبدالله علي الزامل	
DRAWING NAME	تغذية المياه للدور الاول	
SHEET NO.	ME-09	
DISTRICT.	LAND NO.	BLOCK NO.
العقيق	393	1863/أب

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4	
Architect	OMAR AL-SAMAHY - AHMED MOAMEN	
Structure	FETOUH MOHAMMED - MANAR MOHAMMED	
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL	
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD	

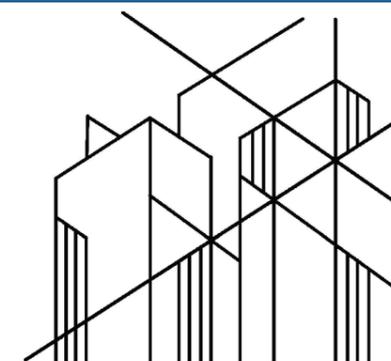




SYMBOLS LEGEND :

DRAINAGE AND WATER SUPPLY LEGEND

SYMBOL	ABBR.	DESCRIPTION
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— WP —		WASTE PIPE
— VP —		SPLIT SUPPLY PIPE
— sd —		SPLIT PIPE STACK
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		HEATER
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	CO	CLEANOUT
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	GT	GULLY TRAP
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	U/G	UNDER GROUND
		domestic water pipe
		rain stack
		soil stack
		vent stack
		waste stack



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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	تغذية المياه للدور الثاني	
SHEET NO.	ME-010	
DISTRICT.	LAND NO.	BLOCK NO.
العقيق	393	1863/أب

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4	
Architect	OMAR AL-SAMAHY – AHMED MOAMEN	
Structure	FETOUH MOHAMMED – MANAR MOHAMMED	
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL	
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD	



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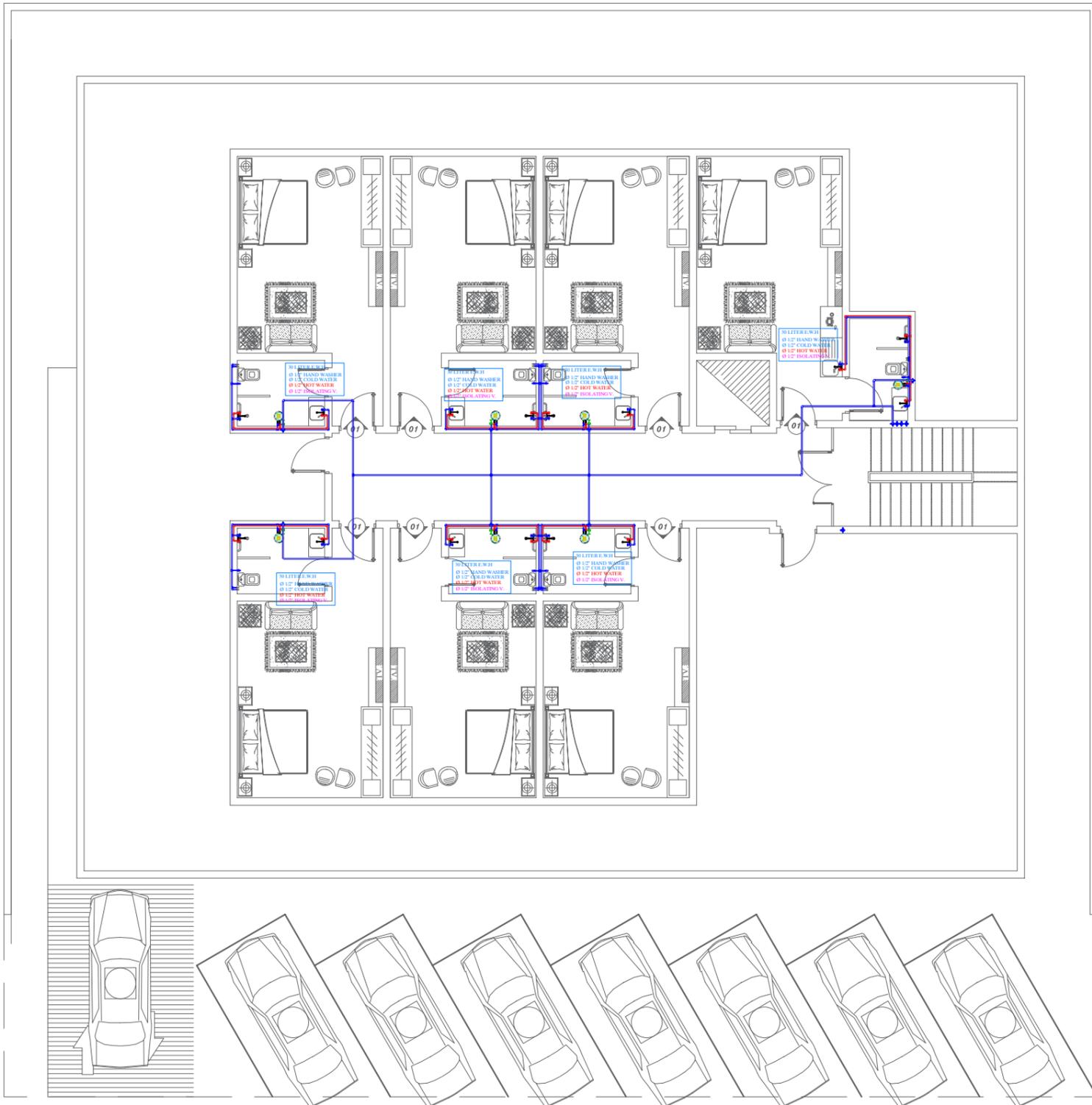


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SYMBOLS LEGEND :

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	SP	SOIL WATER
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	U/G	UNDER GROUND
		domestic water pipe
		rain stack
		soil stack
		vent stack
		waste stack



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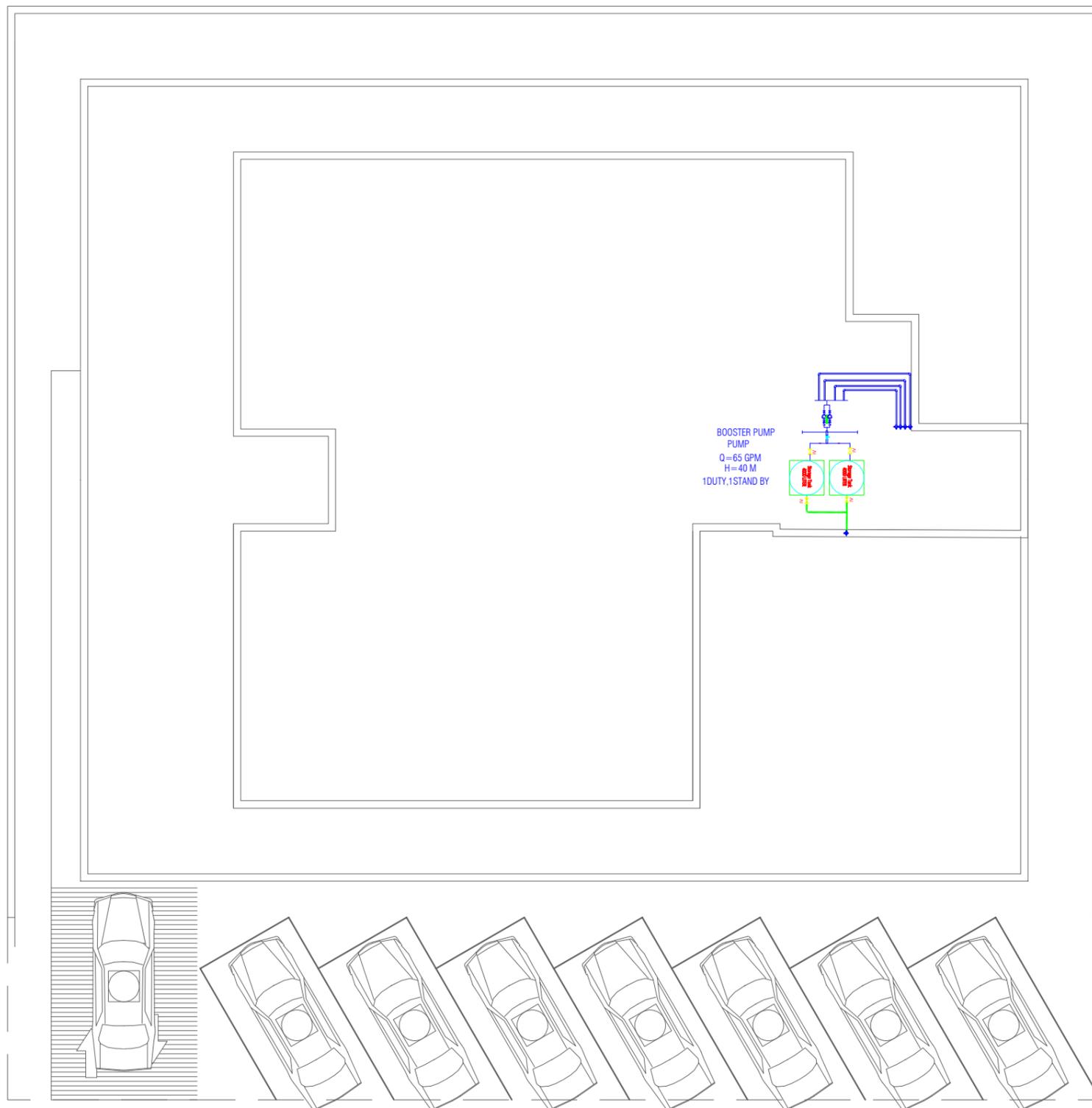
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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	تغذية المياه للدور الملحق	
SHEET NO.	ME-011	
DISTRICT.	LAND NO.	BLOCK NO.
العقيق	393	أب/1863

SHEET INFORMATION	
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY – AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD

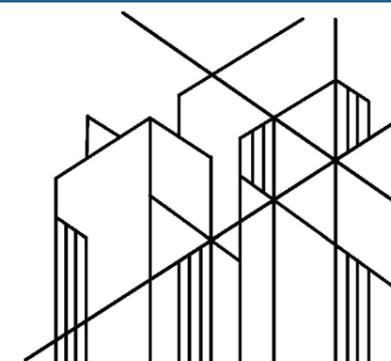




SYMBOLS LEGEND :

DRAINAGE AND WATER SUPPLY LEGEND

SYMBOL	ABBRE.	DESCRIPTION
— SP —		SOIL WATER
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— od —		SPLIT PIPE STACK
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	FD	FLOOR DRAIN
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		rain stack
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		vent stack
		waste stack



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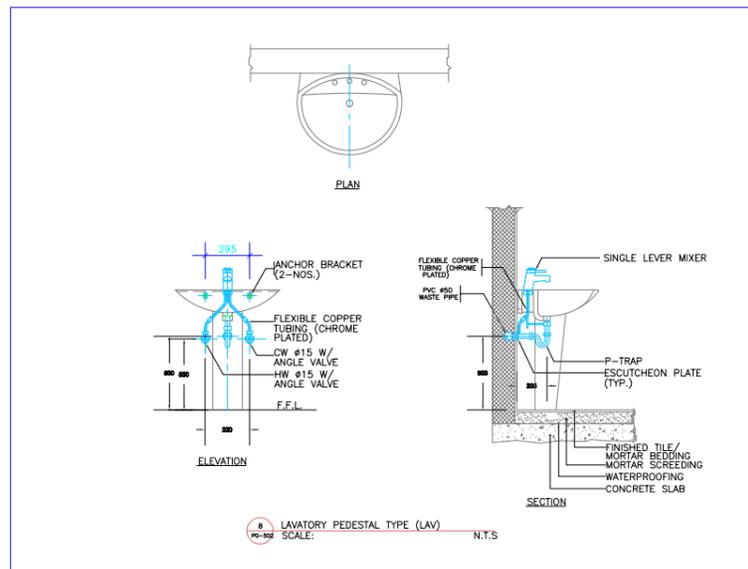
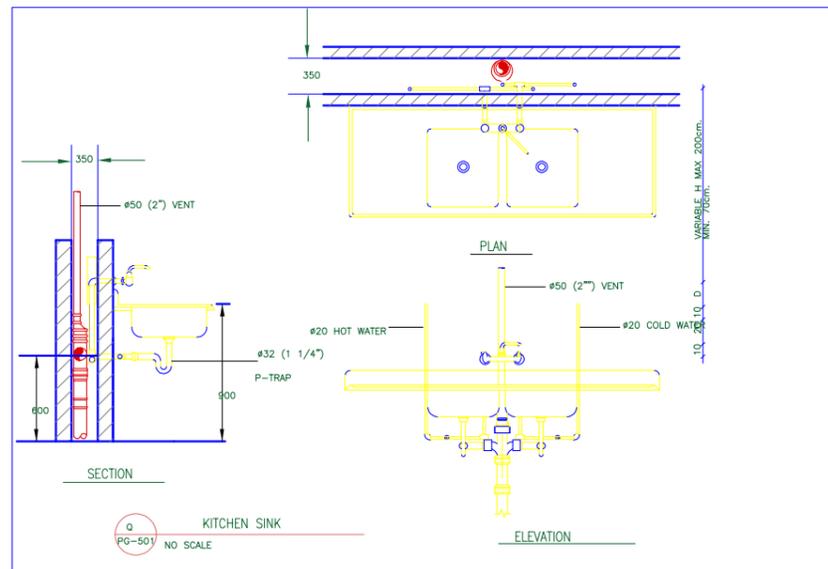
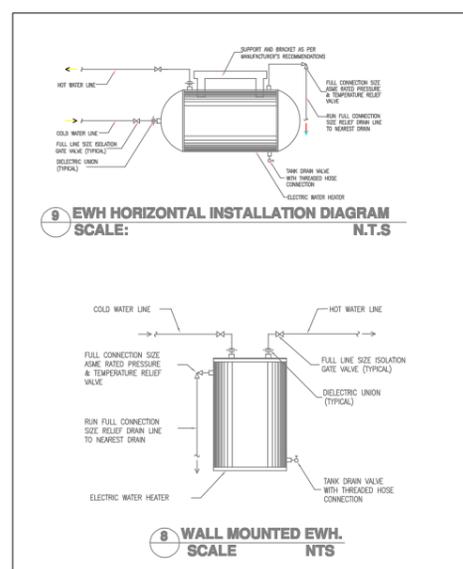
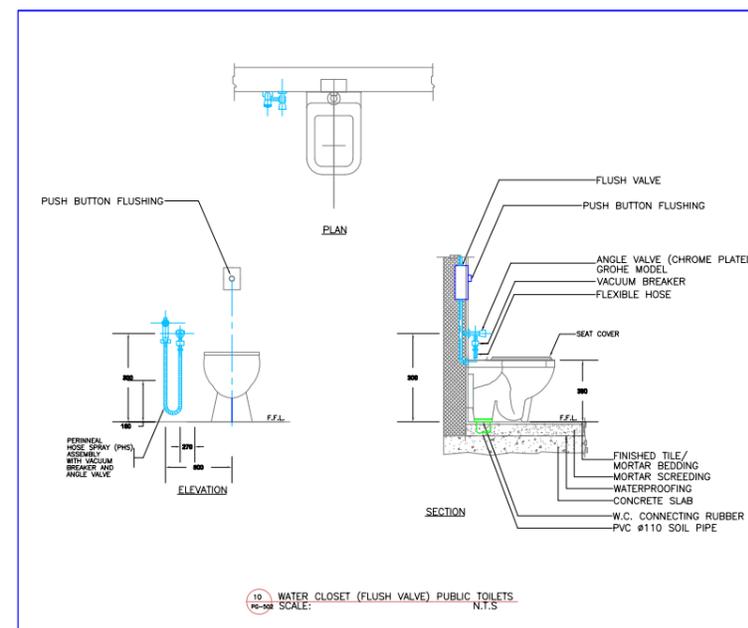
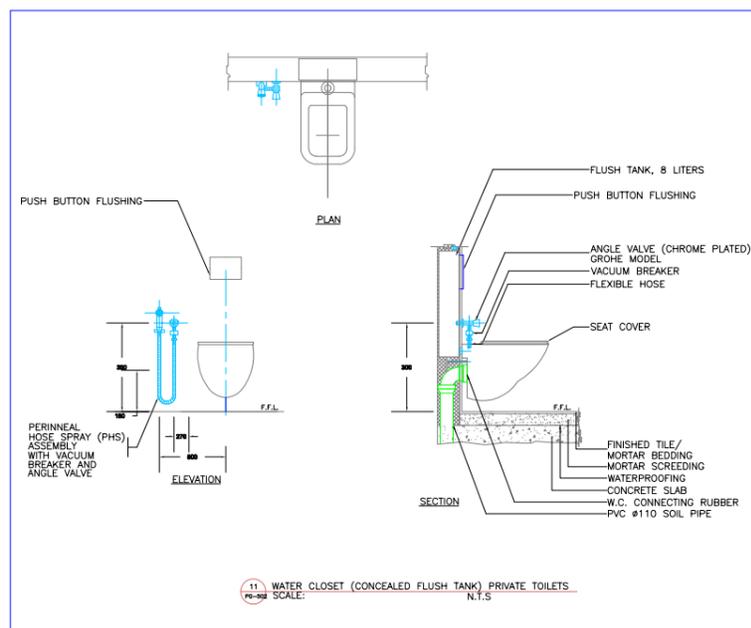
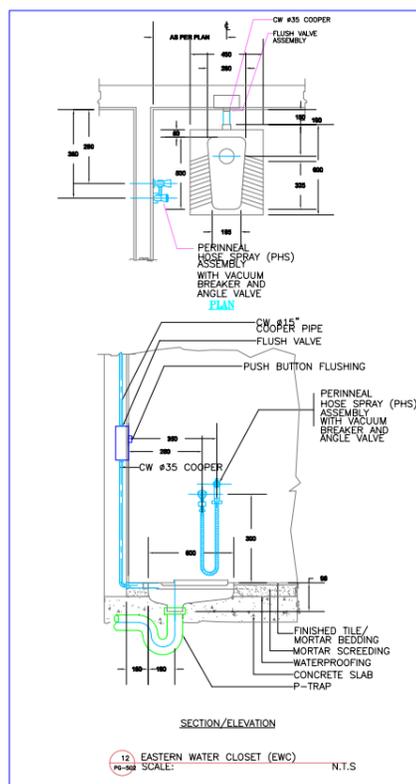
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Saudi Arabia, Riyadh, Al-Hamra District, Building 12

PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	تغذية المياه للدور السطح	
SHEET NO.	ME-012	
DISTRICT.	LAND NO.	BLOCK NO.
العقيق	393	أب/1863

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY – AHMED MOAMEN
Structure	FETOUH MOHAMMED – MANAR MOHAMMED
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD





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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	تفاصيل تركيب الاجهزة الصحية	
SHEET NO.	ME-013	
DISTRICT.	LAND NO.	BLOCK NO.
العتيق	393	أب/1863

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4	
Architect	OMAR AL-SAMAHY - AHMED MOAMEN	
Structure	FETOUH MOHAMMED - MANAR MOHAMMED	
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL	
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD	



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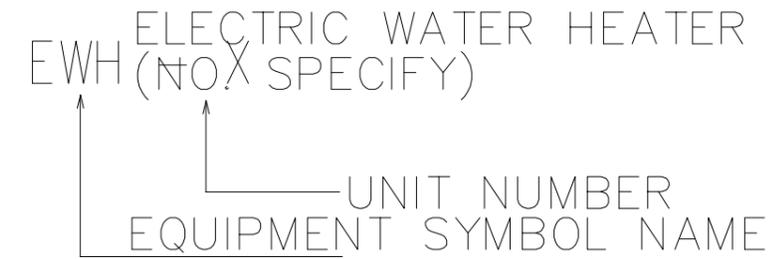
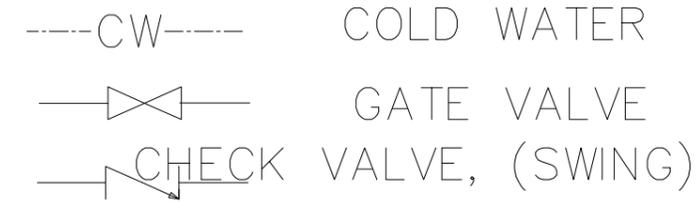
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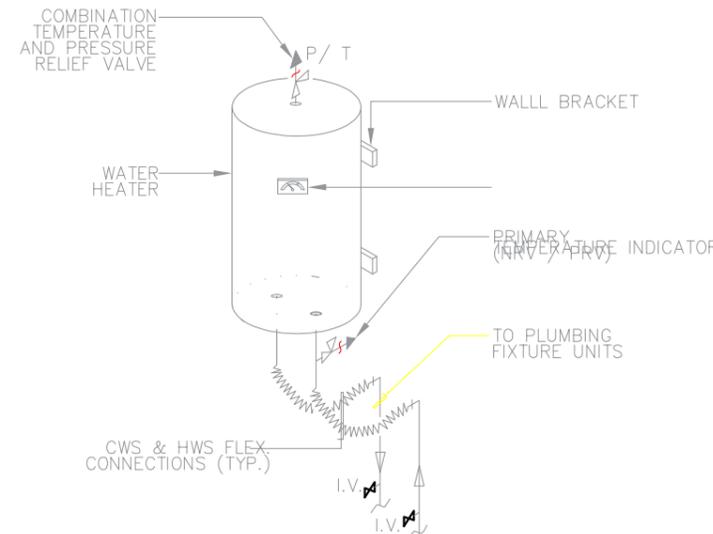
NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE OTHER MECHANICAL SERVICES DRAWINGS, ARCHITECTURAL, CIVIL/ STRUCTURAL, ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- ALL EQUIPMENT CONFIGURATIONS AND PIPING CONNECTIONS SHOWN ARE FOR GUIDANCE ONLY. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PRESCRIBED METHODS.
- ALL ITEMS OF EQUIPMENT THAT ARE NOT DETAILED ON THIS DRAWING SHALL BE INSTALLED WHERE REQUIRED.
- PIPE SIZES & DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
- REFER TO EXTERNAL SITE PLAN LAYOUT FOR CONTINUATION.
- ALL EXPOSED PVC PIPE SHALL BE INSULATED.
- WATER SUPPLY WITH HOT AND COLD PIPING MATERIALS TO BE USED; COLD WATER - uPVC, HOT WATER - COPPER / CPVC / PPVC.
- DRAINAGE PIPE MATERIAL SHALL BE UPVC.

LEGEND:



----- HOT WATER



ELECTRICAL WATER HEATER DETAIL
NOT TO SCALE

ELECTRIC WATER HEATER SCHEDULE

UNIT NO.	TYPE	STO. CAPACITY (liter)	POWER RATING (kW)	ELECTRICAL CHARACTERISTICS			REMARKS
				VOLTS	PHASE	HERTZ	
EW H-1	HORIZONTAL WALL MOUNTED	30	1.2	230	1	60	COMPLETE FACTORY ASSEMBLED UNITS SUITABLE FOR INDOOR INSTALLATION.
EW H-2	HORIZONTAL WALL MOUNTED	50	1.5	230	1	60	COMPLETE FACTORY ASSEMBLED UNITS SUITABLE FOR INDOOR INSTALLATION.
EW H-3	HORIZONTAL WALL MOUNTED	80	1.5	230	1	60	COMPLETE FACTORY ASSEMBLED UNITS SUITABLE FOR INDOOR INSTALLATION.

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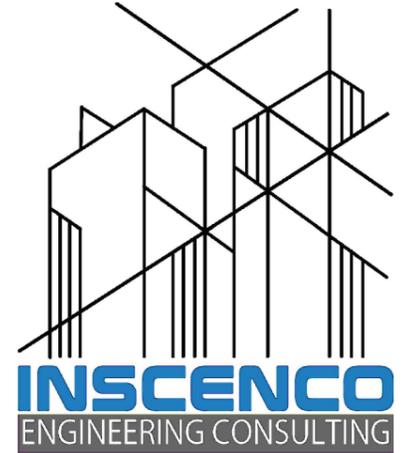
PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	تفاصيل عامة	
SHEET NO.	ME-014	
DISTRICT.	LAND NO.	BLOCK NO.
العقيق	393	1863/أب

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY - AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD



AIR CONDITIONING



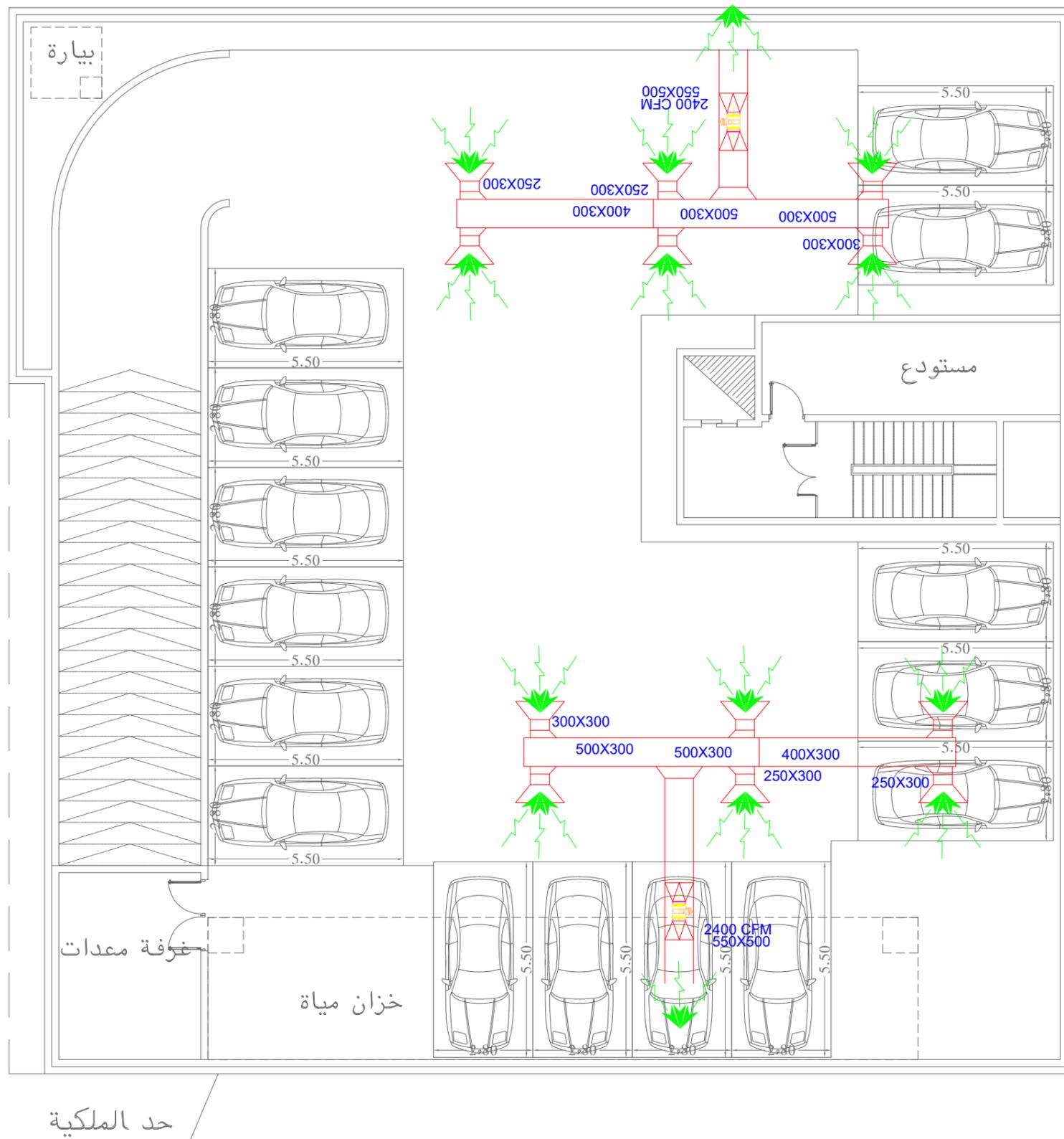
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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME		
SHEET NO.		
DISTRICT.	LAND NO.	BLOCK NO.
العقبة	393	1863/أب

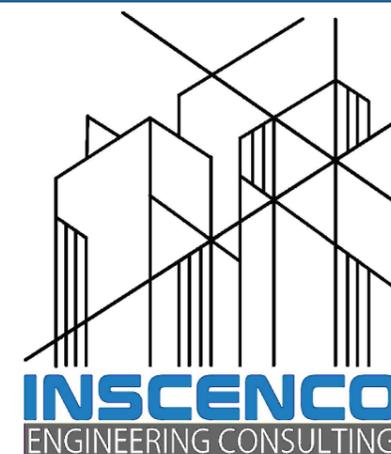
SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY - AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD





AC LEGEND	
	INDOOR SPLIT UNIT
	CASSETTE SPLIT UNIT
	WALL MOUNTED EXHAUST FAN
	CEILING EXHAUST FAN WITH DUCT
	EXHAUST FAN DUCT
	EXHAUST FAN (DOUBLE HOOD)
	AIRCOOLED CONDENSING UNIT (OUTDOOR SPLIT UNIT)
	AC DRAIN PIPE
	GAS LIQUID COPPER PIPES



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PROJECT	شقق مخدمة (فندق)		
OWNER	عبدالعزيز عبدالله علي الزامل		
DRAWING NAME	احمال تكييف للسور البدر		
SHEET NO.	ME-015		
DISTRICT.	LAND NO.	BLOCK NO.	
العقيق	393	1863/أب	

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4		
Architect	OMAR AL-SAMAHY - AHMED MOAMEN		
Structure	FETOUH MOHAMMED - MANAR MOHAMMED		
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL		
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD		



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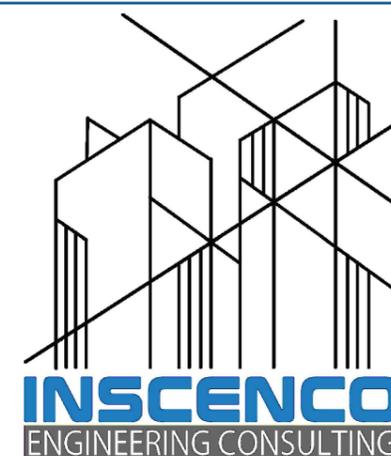


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AC LEGEND

	INDOOR SPLIT UNIT
	CASSETTE SPLIT UNIT
	WALL MOUNTED EXHAUST FAN
	CEILING EXHAUST FAN WITH DUCT
	EXHAUST FAN DUCT
	EXHAUST FAN (DOUBLE HOOD)
	AIRCOOLED CONDENSING UNIT (OUTDOOR SPLIT UNIT)
	AC DRAIN PIPE
	GAS LIQUID COPPER PIPES



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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	احمال تكييف للدور الارضى	
SHEET NO.	ME-016	
DISTRICT.	LAND NO.	BLOCK NO.
العقيق	393	1863/أب

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4	
Architect	OMAR AL-SAMAHY – AHMED MOAMEN	
Structure	FETOUH MOHAMMED – MANAR MOHAMMED	
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL	
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD	



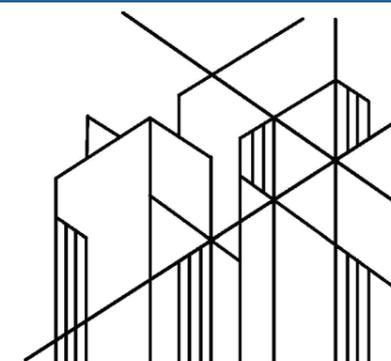
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AC LEGEND	
	INDOOR SPLIT UNIT
	CASSETTE SPLIT UNIT
	WALL MOUNTED EXHAUST FAN
	CEILING EXHAUST FAN WITH DUCT
	EXHAUST FAN DUCT
	EXHAUST FAN (DOUBLE HOOD)
	AIRCOOLED CONDENSING UNIT (OUTDOOR SPLIT UNIT)
	AC DRAIN PIPE
	GAS LIQUID COPPER PIPES



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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالمعز عبد الله علي الزامل	
DRAWING NAME	احمال تكييف للدور الاول	
SHEET NO.	ME-017	
DISTRICT.	LAND NO.	BLOCK NO.
العتيق	393	1863/أب

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4	
Architect	OMAR AL-SAMAHY - AHMED MOAMEN	
Structure	FETOUH MOHAMMED - MANAR MOHAMMED	
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Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD	



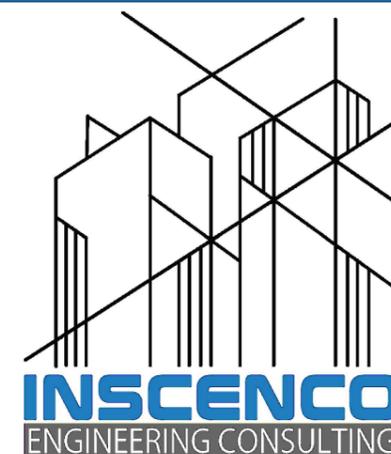
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AC LEGEND	
	INDOOR SPLIT UNIT
	CASSETTE SPLIT UNIT
	WALL MOUNTED EXHAUST FAN
	CEILING EXHAUST FAN WITH DUCT
	EXHAUST FAN DUCT
	EXHAUST FAN (DOUBLE HOOD)
	AIRCOOLED CONDENSING UNIT (OUTDOOR SPLIT UNIT)
	AC DRAIN PIPE
	GAS LIQUID COPPER PIPES



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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	احمال تكييف للدور الثاني	
SHEET NO.	ME-018	
DISTRICT.	LAND NO.	BLOCK NO.
العقيق	393	1863/أب

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4	
Architect	OMAR AL-SAMAHY – AHMED MOAMEN	
Structure	FETOUH MOHAMMED – MANAR MOHAMMED	
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL	
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD	



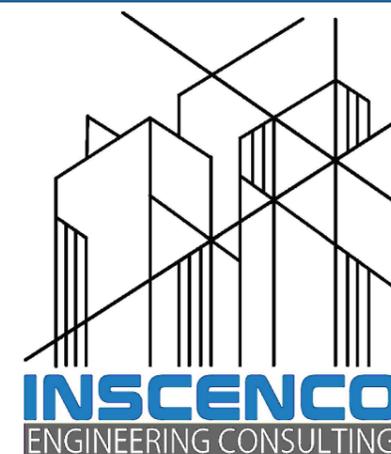
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AC LEGEND	
	INDOOR SPLIT UNIT
	CASSETTE SPLIT UNIT
	WALL MOUNTED EXHAUST FAN
	CEILING EXHAUST FAN WITH DUCT
	EXHAUST FAN DUCT
	EXHAUST FAN (DOUBLE HOOD)
	AIRCOOLED CONDENSING UNIT (OUTDOOR SPLIT UNIT)
	AC DRAIN PIPE
	GAS LIQUID COPPER PIPES



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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	احمال تكييف للدور الملحق	
SHEET NO.	ME-019	
DISTRICT.	LAND NO.	BLOCK NO.
العقيق	393	أب/1863

SHEET INFORMATION

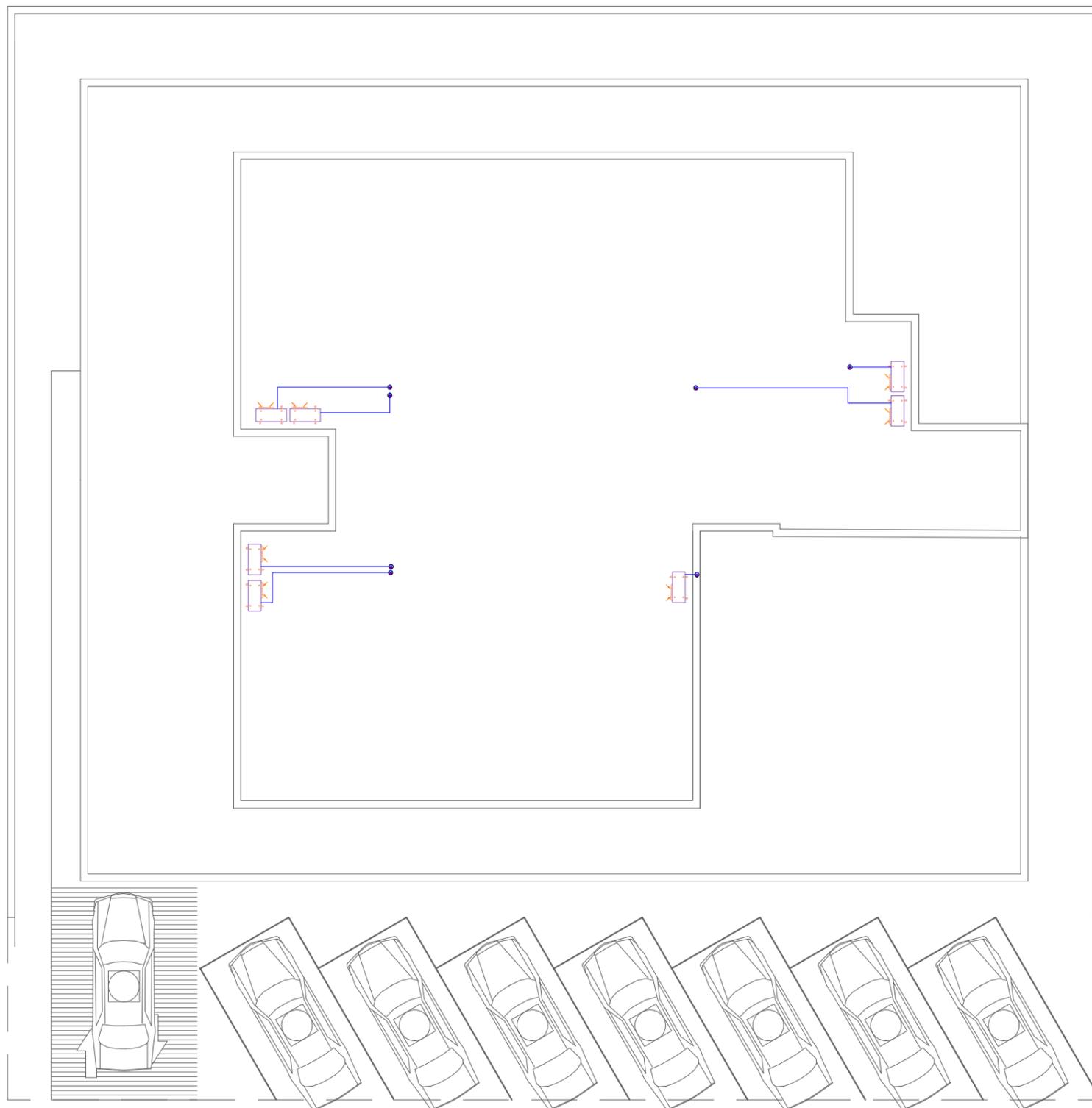
ID/ System	ZONE-CC-2025-02-27-4	
Architect	OMAR AL-SAMAHY – AHMED MOAMEN	
Structure	FETOUH MOHAMMED – MANAR MOHAMMED	
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL	
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD	



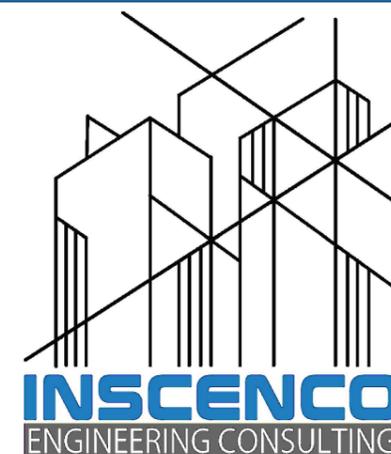
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AC LEGEND	
	INDOOR SPLIT UNIT
	CASSETTE SPLIT UNIT
	WALL MOUNTED EXHAUST FAN
	CEILING EXHAUST FAN WITH DUCT
	EXHAUST FAN DUCT
	EXHAUST FAN (DOUBLE HOOD)
	AIRCOOLED CONDENSING UNIT (OUTDOOR SPLIT UNIT)
	AC DRAIN PIPE
	GAS LIQUID COPPER PIPES



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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	احمال تكييف للدور السطح	
SHEET NO.	ME-020	
DISTRICT.	LAND NO.	BLOCK NO.
العقبة	393	1863/أب

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4	
Architect	OMAR AL-SAMAHY - AHMED MOAMEN	
Structure	FETOUH MOHAMMED - MANAR MOHAMMED	
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL	
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD	



SCHEDULES OF HIGH WALL SPLIT UNIT



UNIT NO.	APPLICATION TYPE	QTY	TOTAL C.C (KW)	TOTAL C.C (BTU/HR)	TOTAL C.C (TR)	POWER INPUT (KW)	POWER SUPPLY V/PH/Hz	AMBIENT TEMPERATURE (C)	FILTER	REMARKS
S.C.U -01	SPLIT CONCEALED UNIT	9	3.5	18000	1.5	2	210/230V-1P-60	41	WASHABLE FILTER	BRANDS: TRANE ,CARRIER OR APPROVED EQUAL
S.C.U -02	SPLIT CONCEALED UNIT	13	5.25	24000	2	3	210/230V-1P-60	41	WASHABLE FILTER	BRANDS: TRANE ,CARRIER OR APPROVED EQUAL
S.C.U -03	SPLIT CONCEALED UNIT	0	7.02	30000	2.5	4	210/230V-1P-60	41	WASHABLE FILTER	BRANDS: TRANE ,CARRIER OR APPROVED EQUAL
S.C.U -04	SPLIT CONCEALED UNIT	19	8.8	36000	3	4	380/400V-3P-60	41	WASHABLE FILTER	BRANDS: TRANE ,CARRIER OR APPROVED EQUAL
S.C.U -05	SPLIT CONCEALED UNIT	0	10.5	42000	3.5	4.2	380/400V-3P-60	41	WASHABLE FILTER	BRANDS: TRANE ,CARRIER OR APPROVED EQUAL
S.C.U -06	SPLIT CONCEALED UNIT	2	10.5	48000	4.0	4.2	380/400V-3P-60	41	WASHABLE FILTER	BRANDS: TRANE ,CARRIER OR APPROVED EQUAL
S.C.U -07	SPLIT CONCEALED UNIT	0	12.2	60000	5.0	5.5	380/400V-3P-60	41	WASHABLE FILTER	BRANDS: TRANE ,CARRIER OR APPROVED EQUAL
S.U -01	SPLIT HI-WALL UNIT	1	2.4	12000	1	1.5	210/230V-1P-60	41	WASHABLE FILTER	BRANDS: TRANE ,CARRIER OR APPROVED EQUAL
S.U -02	SPLIT HI-WALL/CASSETTE	0	3.5	18000	1.5	2	210/230V-1P-60	41	WASHABLE FILTER	BRANDS: TRANE ,CARRIER OR APPROVED EQUAL

NOTES :

- THE CONTRACTOR SHALL CALCULATE THE REQUIRED EXTERNAL STATIC PRESSURE OF THE DUCTED INDOOR UNIT (CSU) AS PER SITE CONDITIONS DURING MATERIAL AND SHOP DRAWINGS SUBMISSION STAGE AND SUBMIT CALCULATION FOR ENGINEERING APPROVAL, ACCORDINGLY THE REQUIRED MOTOR SIZE SHALL BE PROVIDED WITHOUT EXTRA COST
- ALL EQUIPMENTS SHALL BE SELECTED FOR AN ALTITUDE OF 15 M
- INDICATED COOLING CAPACITY INCLUDES SUPPLY AIR FAN MOTOR HEAT
- SELECTION OF COOLING COIL FOR CSU'S SHALL BE BASED ON TOTAL COOLING LOAD
- CSU'S WASHABLE FILTERS SHALL BE 68% EFFICIENCY BASED ON ASHREA ARREST ANCE RATING
- REFRIGERANT REF. PIPES SUCTION & LIQUID SIZES TO BE CHECKED & RECALCULATED BY THE MANUFACTURER ACCORDING TO THE ACTUAL LENGTHS.
- THE SELECTION OF CONCEALED SPLIT UNITS SHOULD BE AT MEDIUM SPEED TO SATISFY THE DESIGN CONDITIONS.
- THE DISTANCES BETWEEN OUTDOOR UNITS AND REFRIGERANT REF. PIPES LENGTHS MUST BE AS PER MANUFACTURER RECOMMENDATIONS.
- CONDENSATE DRAINAGE SHOULD BE PROVIDED NEAR TO THE DRAINAGE POINT FOR INDOOR AC UNIT.
- THE UNITS SHALL WORK CONTINUOUSLY WITHOUT DISTURBANCE AT HIGH AMBIENT TEMPERATURE OF 46 C.

SCHEDULES OF FANS

UNIT NO.	TYPE	QTY	CAPACITY CFM	DRIVE	EXTERNAL SP PA	MOTOR (KW)	ELECTRICAL DATA			REMARKS
							VOLTS	PHASE	HERTZ	
EX.F-01	CEILING CASSETTE FAN	39	50	DIRECT	50	0.18	220	1	60	BRANDS: KDK OR APPROVED EQUAL
EX.F-02	CEILING CASSETTE FAN	0	150	DIRECT	50	0.20	220	1	60	BRANDS: KDK OR APPROVED EQUAL
EX.F-03	CEILING CASSETTE FAN	0	250	DIRECT	50	0.25	220	1	60	BRANDS: KDK OR APPROVED EQUAL

NOTES :

- THE CONTRACTOR SHALL CALCULATE THE REQUIRED EXTERNAL STATIC PRESSURE AS PER SITE CONDITIONS DURING SHOP DRAWINGS SUBMISSION STAGE AND SUBMIT CALCULATION FOR ENGINEERING APPROVAL ,ACCORDINGLY THE REQUIRED MOTOR AND FAN SIZES SHALL BE PROVIDED WITHOUT EXTRA COST .
- ALL EXHAUST FANS SHALL BE PROVIDED WITH BACK DRAFT DAMPERS
- MOTOR EFFICIENCY SHALL BE COMPLY WITH ASHRAE 90.1

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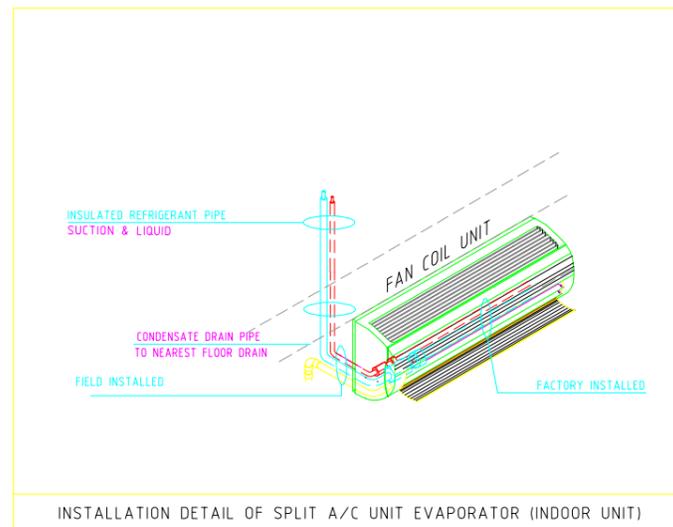
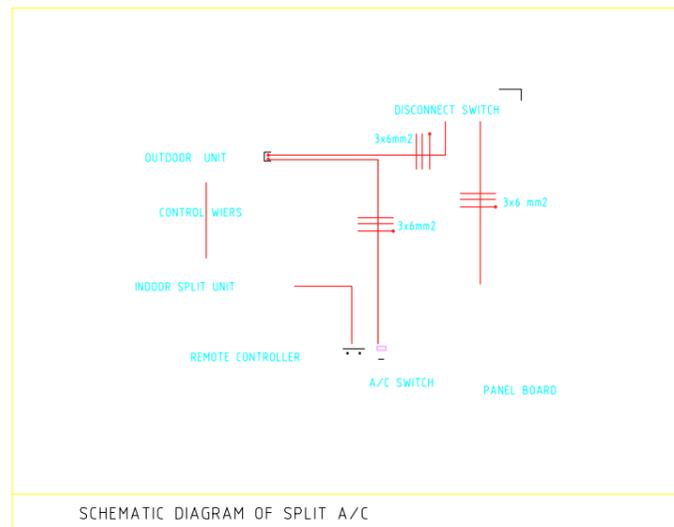
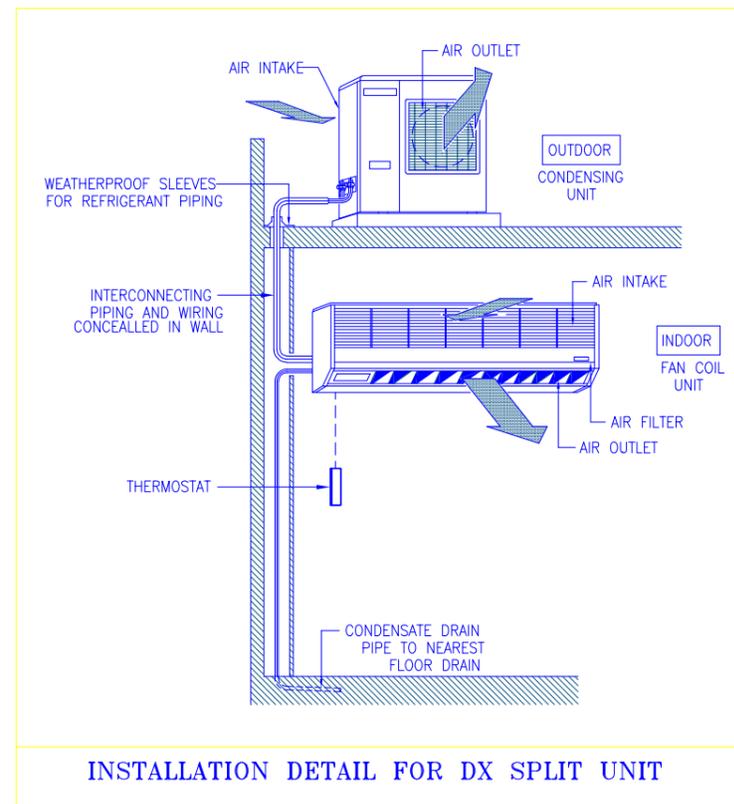
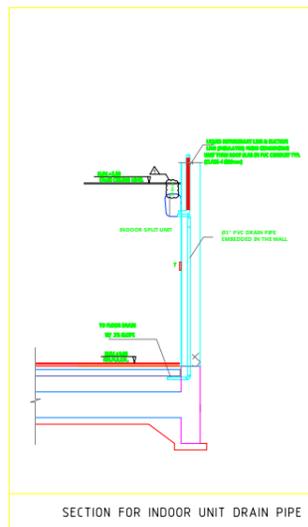
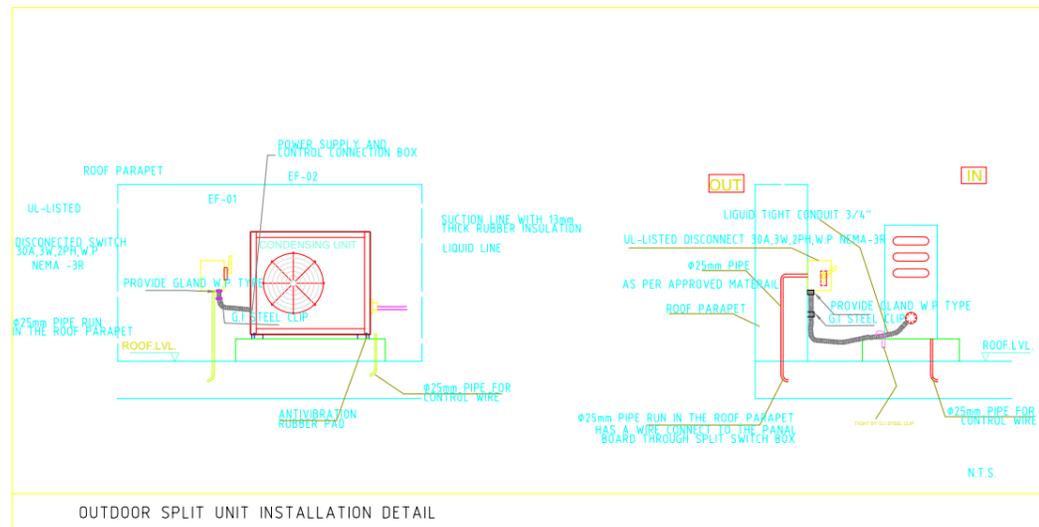
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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	جداول حسابات احمال المكيفات	
SHEET NO.	ME-021	
DISTRICT.	LAND NO.	BLOCK NO.
العتيق	393	1863/أب

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY – AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD





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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	تفاصيل تركيب المكيفات	
SHEET NO.	ME-022	
DISTRICT.	LAND NO.	BLOCK NO.
العقيق	393	أب/1863

SHEET INFORMATION	
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY - AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD

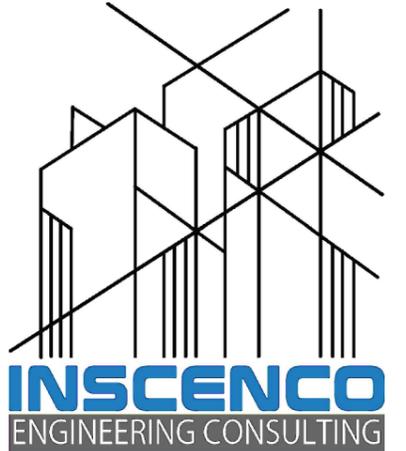


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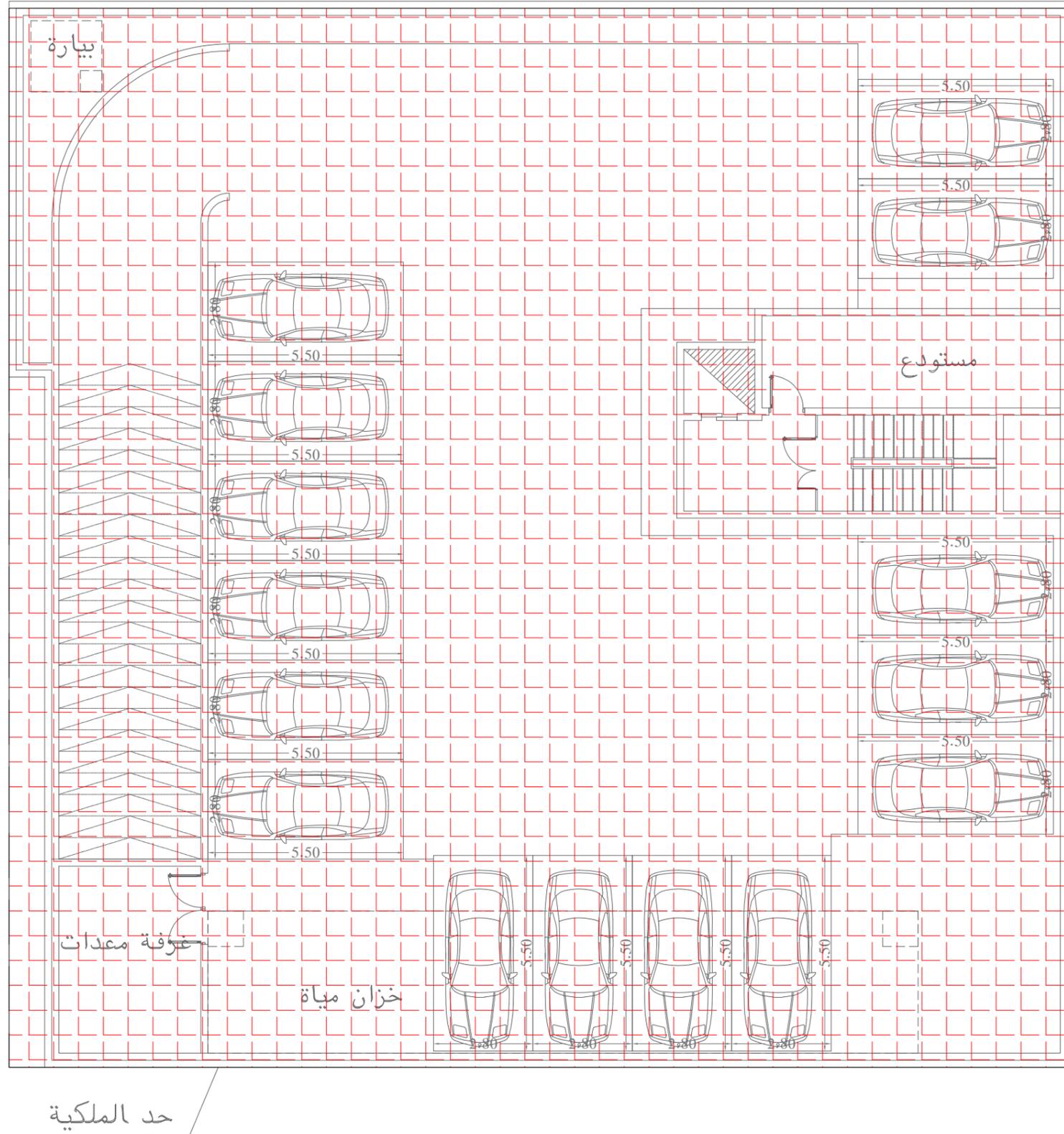
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PROJECT	شقق مخدومة (فندق)		
OWNER	عبدالعزیز عبدالله علی الزامل		
DRAWING NAME			
SHEET NO.			
DISTRICT.	LAND NO.	BLOCK NO.	
العقبة	393	1863/أب	

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4		
Architect	OMAR AL-SAMAHY - AHMED MOAMEN		
Structure	FETOUH MOHAMMED - MANAR MOHAMMED		
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL		
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD		





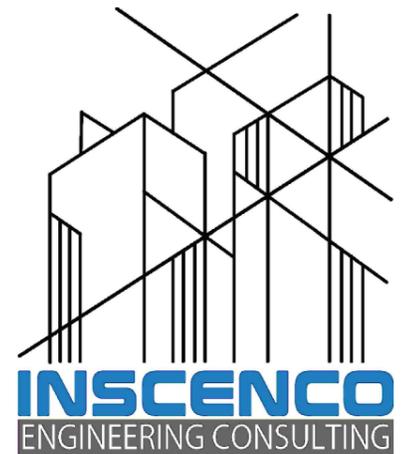
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PROJECT	شقق مخدومة (فندق)
OWNER	عبدالعزیز عبدالله علی الزامل
DRAWING NAME	المناطق المكيفة والمكشوفة البدر
SHEET NO.	ME-023
DISTRICT.	العقيق
LAND NO.	393
BLOCK NO.	1863/أب

SHEET INFORMATION

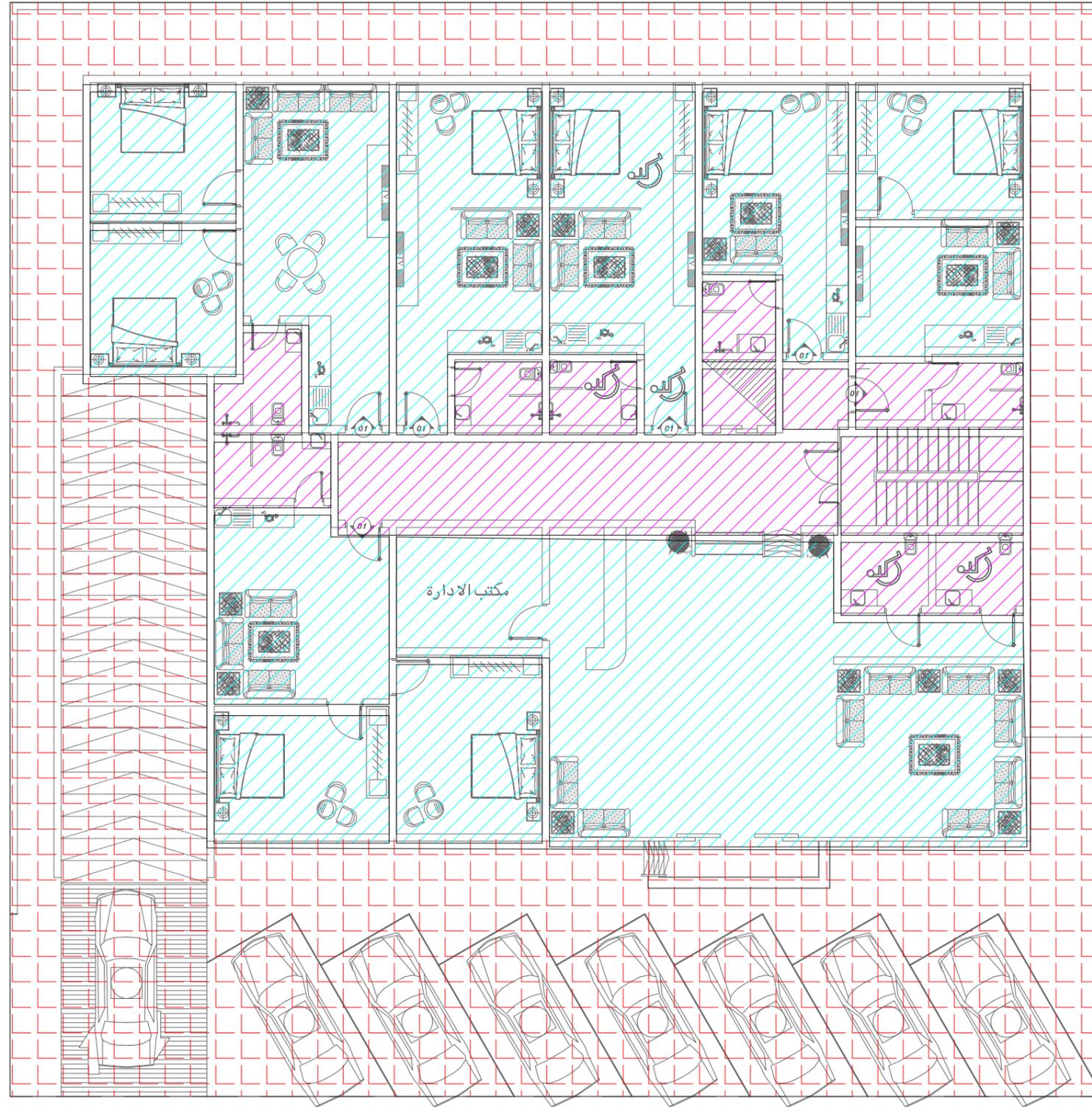
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY - AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD



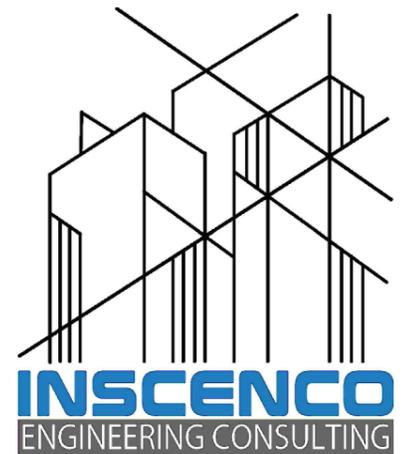
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Saudi Arabia, Riyadh, Al-Hamra District, Building 12

PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	المناطق المكيفة والمكتشوفة النور الارضي	
SHEET NO.	ME-024	
DISTRICT.	LAND NO.	BLOCK NO.
العقيق	393	أب/1863

SHEET INFORMATION

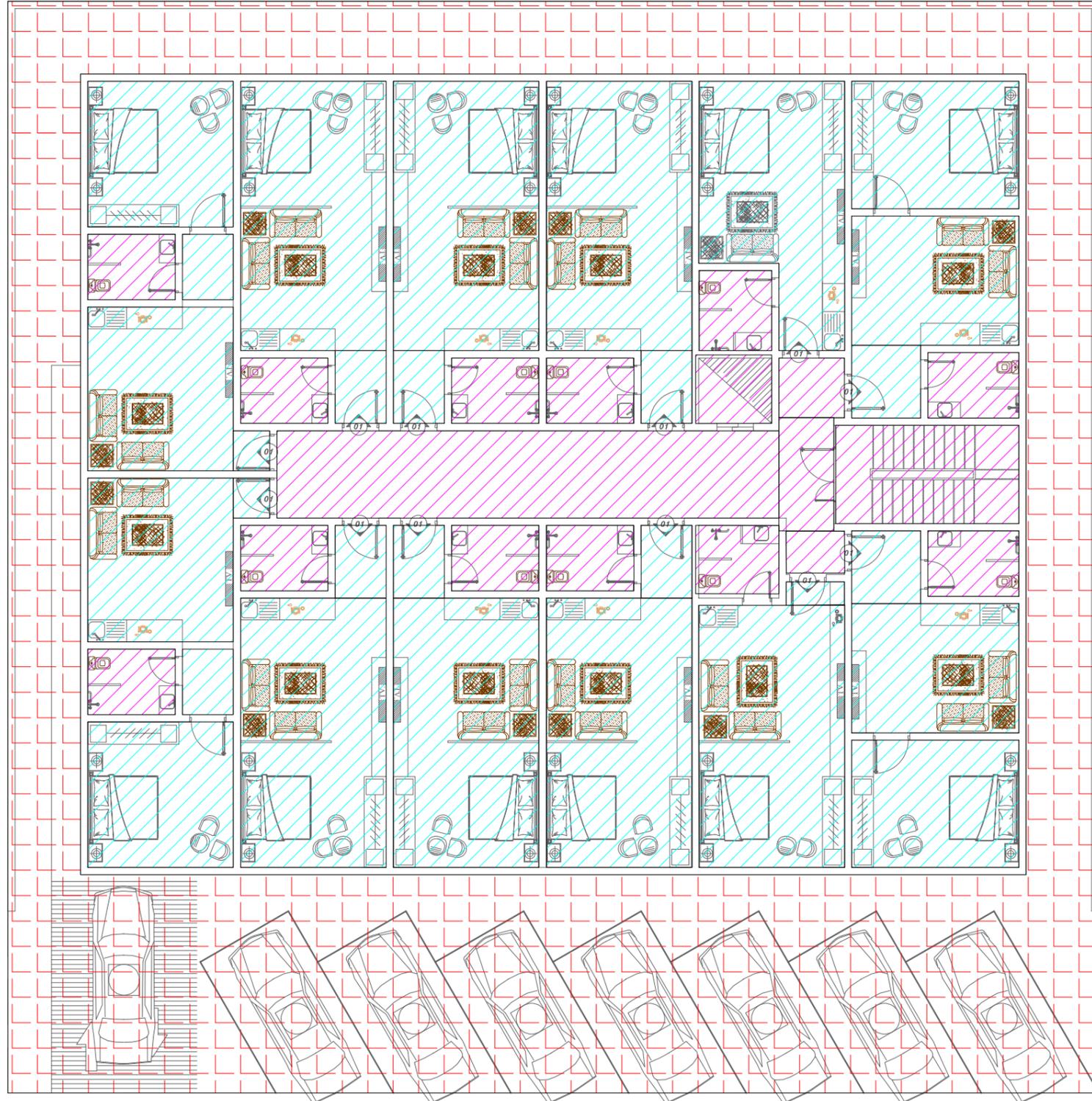
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY - AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD



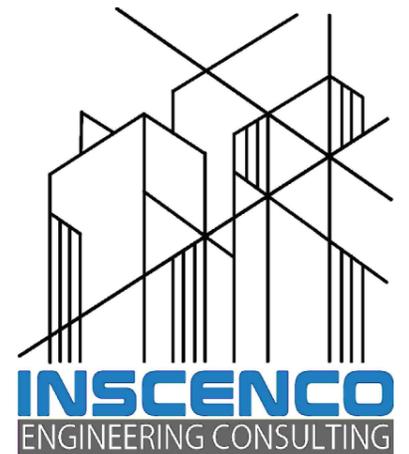
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PROJECT	شقق مخدمه (فندق)		
OWNER	عبدالعزيز عبدالله على الزامل		
DRAWING NAME	المناطق المكيفة والمكشوفة الدور الاول		
SHEET NO.	ME-025		
DISTRICT.	LAND NO.	BLOCK NO.	
العقيق	393	أب/1863	

SHEET INFORMATION

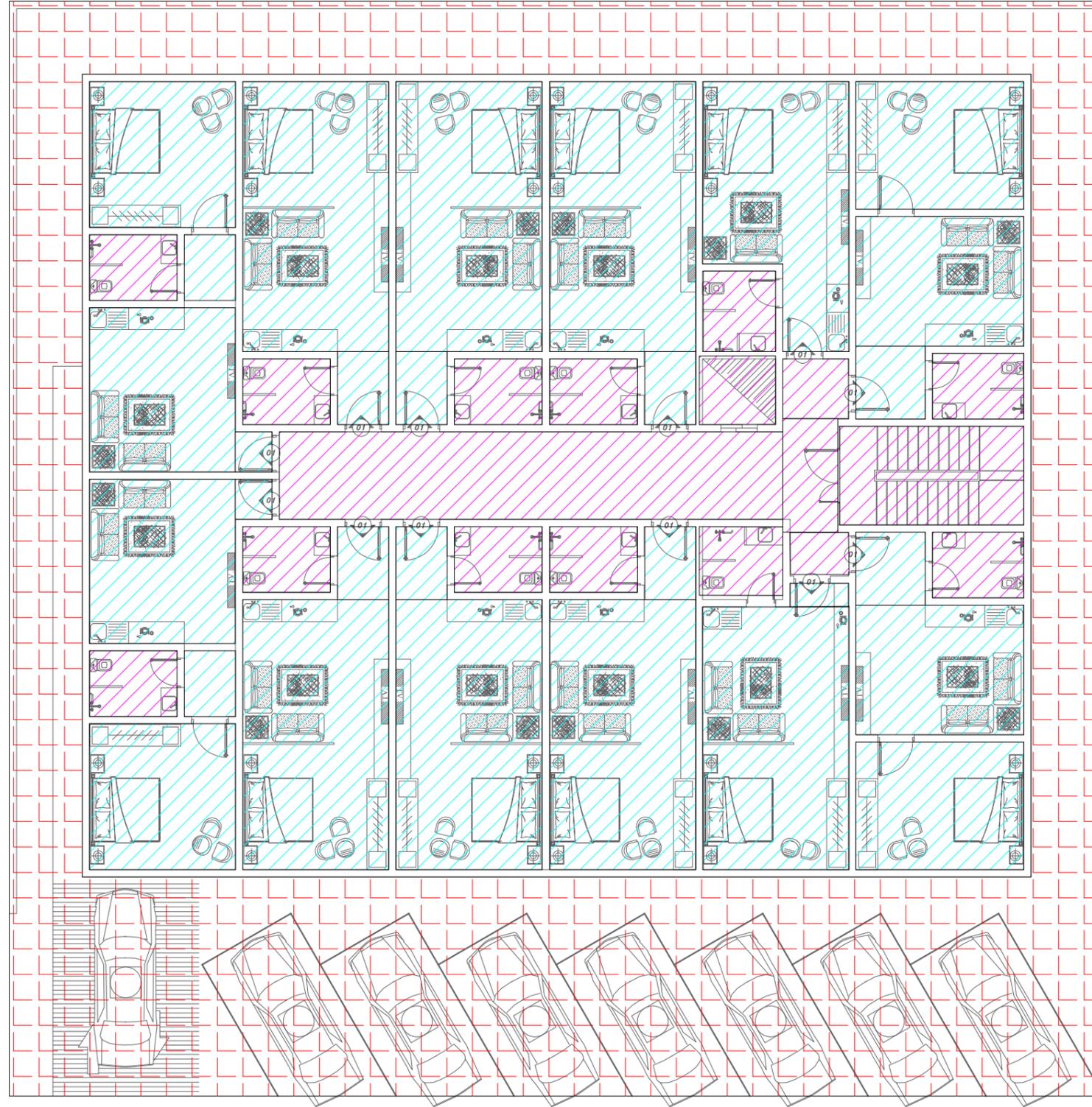
ID/ System	ZONE-CC-2025-02-27-4		
Architect	OMAR AL-SAMAHY - AHMED MOAMEN		
Structure	FETOUH MOHAMMED - MANAR MOHAMMED		
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL		
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD		



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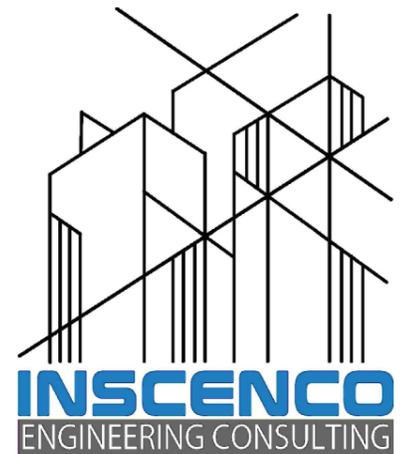
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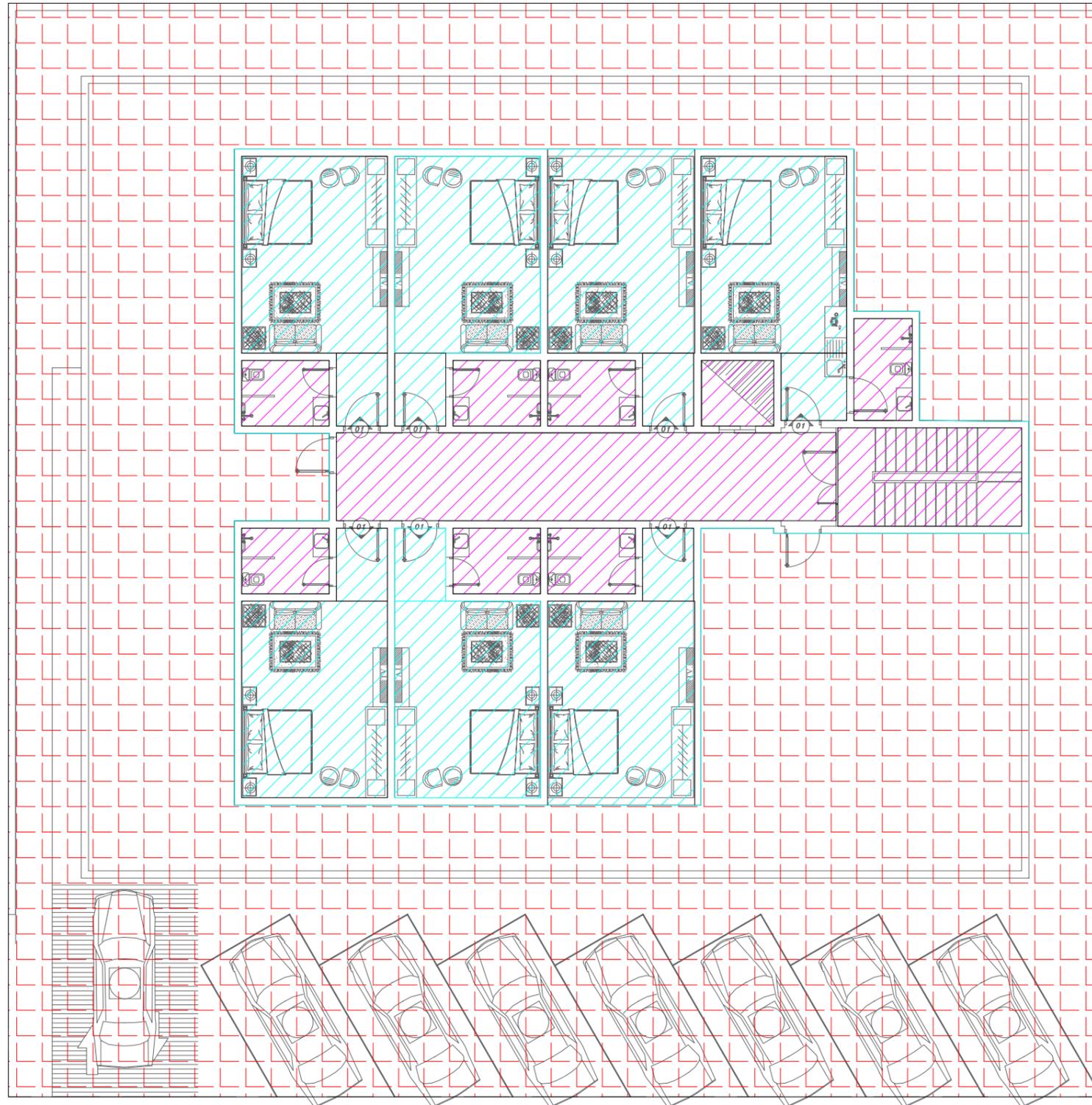
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PROJECT	شقق مخدومة (فندق)
OWNER	عبدالعزیز عبدالله علی الزامل
DRAWING NAME	المناطق المكيفة والمكتسوفة الدور الثاني
SHEET NO.	ME-026
DISTRICT.	العقبة
LAND NO.	393
BLOCK NO.	1863/أب

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY - AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD

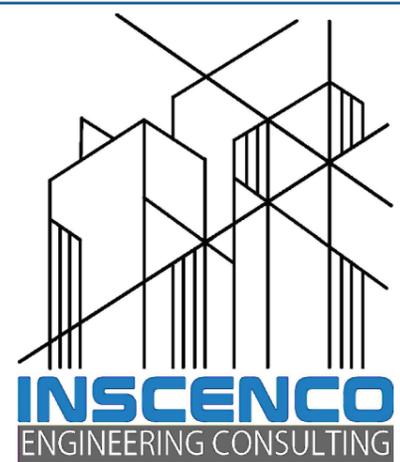




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PROJECT	شقق مخدومة (فندق)
OWNER	عبدالعزیز عبدالله علی الزامل
DRAWING NAME	المناطق المكيفة والمكتشوفة الدور الملحق
SHEET NO.	ME-027
DISTRICT.	العقبة
LAND NO.	393
BLOCK NO.	1863/أب

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY - AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD

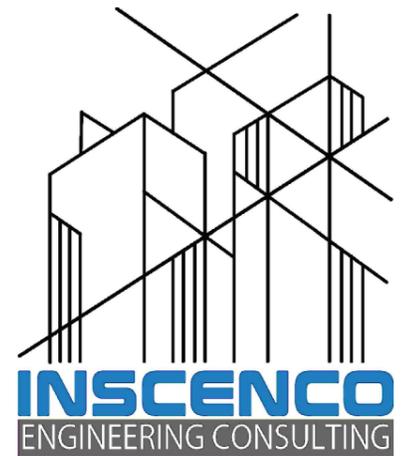


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PROJECT	شقق مخدومة (فندق)		
OWNER	عبدالعزیز عبدالله علی الزامل		
DRAWING NAME			
SHEET NO.			
DISTRICT.	LAND NO.	BLOCK NO.	
العقبة	393	أب/1863	

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4		
Architect	OMAR AL-SAMAHY - AHMED MOAMEN		
Structure	FETOUH MOHAMMED - MANAR MOHAMMED		
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL		
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD		



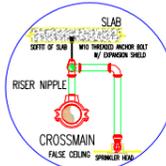


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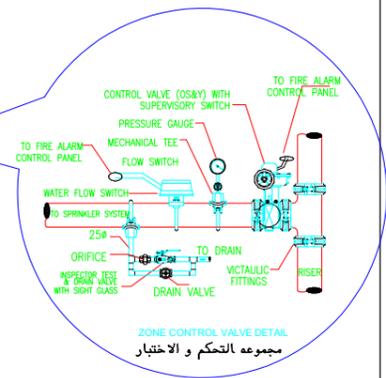
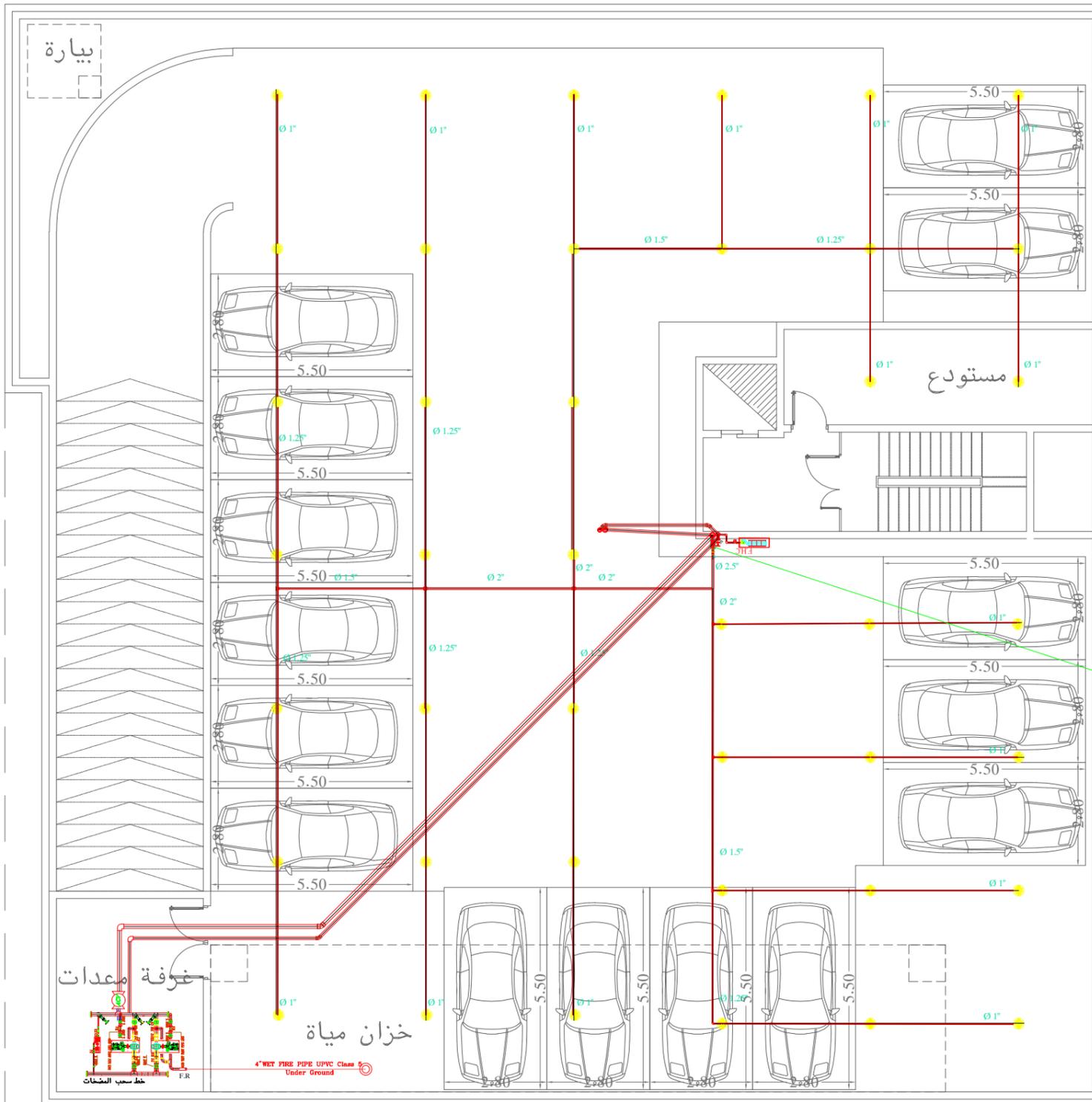
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE OTHER MECHANICAL SERVICES DRAWINGS, ELECTRICAL ARCHITECTURAL.
2. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
3. FIRE FIGHTING PIPES SHALL BE BLACK STEEL SCH 40 AS PER ASTM A53.
4. UNDER GROUND PIPES SHALL BE CPVC SCH 80 WITH THRUST BLOCKS AS PER NFPA
5. HYDROTEST ALL FIRE WATER PIPING SYSTEM TO 150% OF THE WORKING PRESSURE
6. SPRINKLER LOCATIONS GIVEN, ARE SUBJECT TO CHANGES EXACT LOCATION AND OF SPRINKLER TO BE DETERMINED DURING SHOP DRAWING & FINAL REFLECTED CEILING AND IN COORDINATION WITH OTHER PROVISIONS (DUCTWORK, LIGHT FIXTURES... ETC)
7. THE INSTALLATION AND TESTING PROCEDURE OF THE FIRE FIGHTING SYSTEMS IN THIS DRAWING SHALL BE IN ACCORDANCE WITH NFPA LATEST EDITION.
8. ALL PIPES PASS THRU WALL OR SLAB SHALL BE THRU PIPE SLEEVES.
9. ALL EXPOSED PIPES SHALL BE PROPERLY INSULATED ACCORDING TO SPECIFIED INSULATING MATERIAL.
10. ALL PIPE SIZES ARE IN MILLIMETER AND ARE FOR INTERNAL DIAMETER OF PIPE.
11. THE PUMPS MOTOR SIZE TO BE VERIFIED AND ADJUSTED IF NECESSARY BY CONTRACTOR UPON FINAL SELECTION OF EQUIPMENT, AND COMPLETION OF SHOP DRAWINGS.
12. PROVIDE EXPANSION LOOP/ CONNECTION WHERE NECESSARY.
13. ALL FIRE FIGHTING PIPES SHALL BE GROUNDING
14. FIRE HOSE CABINET DROP LINES LOCATION SHALL BE COORDINATED WITH OTHER SERVICES AT SITE.
15. THE PIPELINES SHOULD BE SUPPORTED IN PROPER INTERVALS TO AVOID STRESSES IN THE PIPELINES.
16. ALL EMBEDDED PIPELINES MUST PASS THE REQUIRED TEST BEFORE CLOSING THE TRENCH OR WALL.
17. ALL FIRE FIGHTING PIPES SHALL BE PAINT WITH TWO LAYER OF EPOXY AND ONE LAYER OF FIRE FIGHTING PIPES RED COLOR
18. ALL SUPPORTS AND HANGERS TO BE IN ACCORDANCE WITH NFPA 13.
19. SPRINKLERS IN PUBLIC AND COMMON AREAS WITH FINISHED CEILING ROOMS SHALL BE FULLY RECESSED, CONCEALED TYPE WITH FACTORY FINISHED COVER PLATES AS DIRECTED BY ARCHITECT.

LEGEND:

- FP FIRE PIPE
- FF FIRE FIGHTING PIPE
- FFR FIRE FIGHTING RISER
- T/B TO BELOW
- F/B FROM BELOW
- T/A TO ABOVE
- F/A FROM ABOVE
- AT CL AT CEILING LEVEL
- PRV PRESSURE REDUCING VALVE
- APC ABOVE FALSE CEILING
- UG UNDER GROUND
- FDC FIRE DEPARTEMENT CONNECTION
- PENDANT SPRINKLER HEAD-UL LISTED AND FM APPROVED
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- FIRE HYDRANT WITH BLOCK VALVE, #6" MAIN SUPPLY 2 NOS
- 2-1/2" NST CONNECTION AND 1 NO 4" NST CONNECTION
- DRY OR WET RISER FIRE DEPARTEMENT CONNECTION #4" OUTLET WITH 2NOS-2-1/2" SIAMESE CONNECTION
- STAND PIPE (ELANDING VALVE)
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- FM 200 CYLINDERS WITH1 MASTER 1 SLAVE



مرشات حريق سلفيه



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Saudi Arabia, Riyadh, Al-Hamra District, Building 12

PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالمعز عبد الله علي الزامل	
DRAWING NAME	مخططات الحريق الدور البدر	
SHEET NO.	ME-028	
DISTRICT.	LAND NO.	BLOCK NO.
العتيق	393	1863/أب

SHEET INFORMATION	
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY – AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANOR MOHAMMED
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD



بيارة

مستودع

خزان مياه

خرفة معدات

حد الملكية

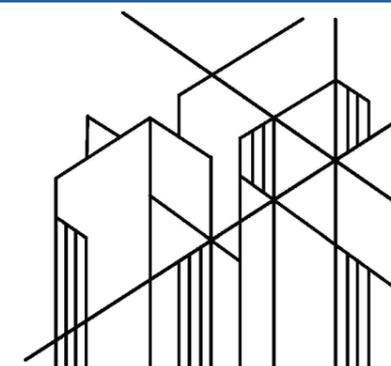
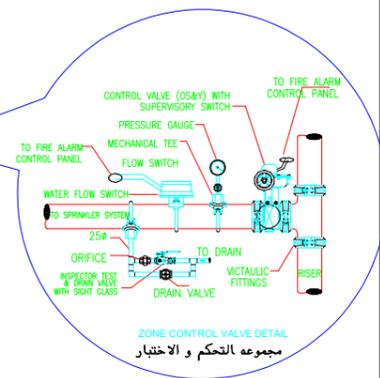
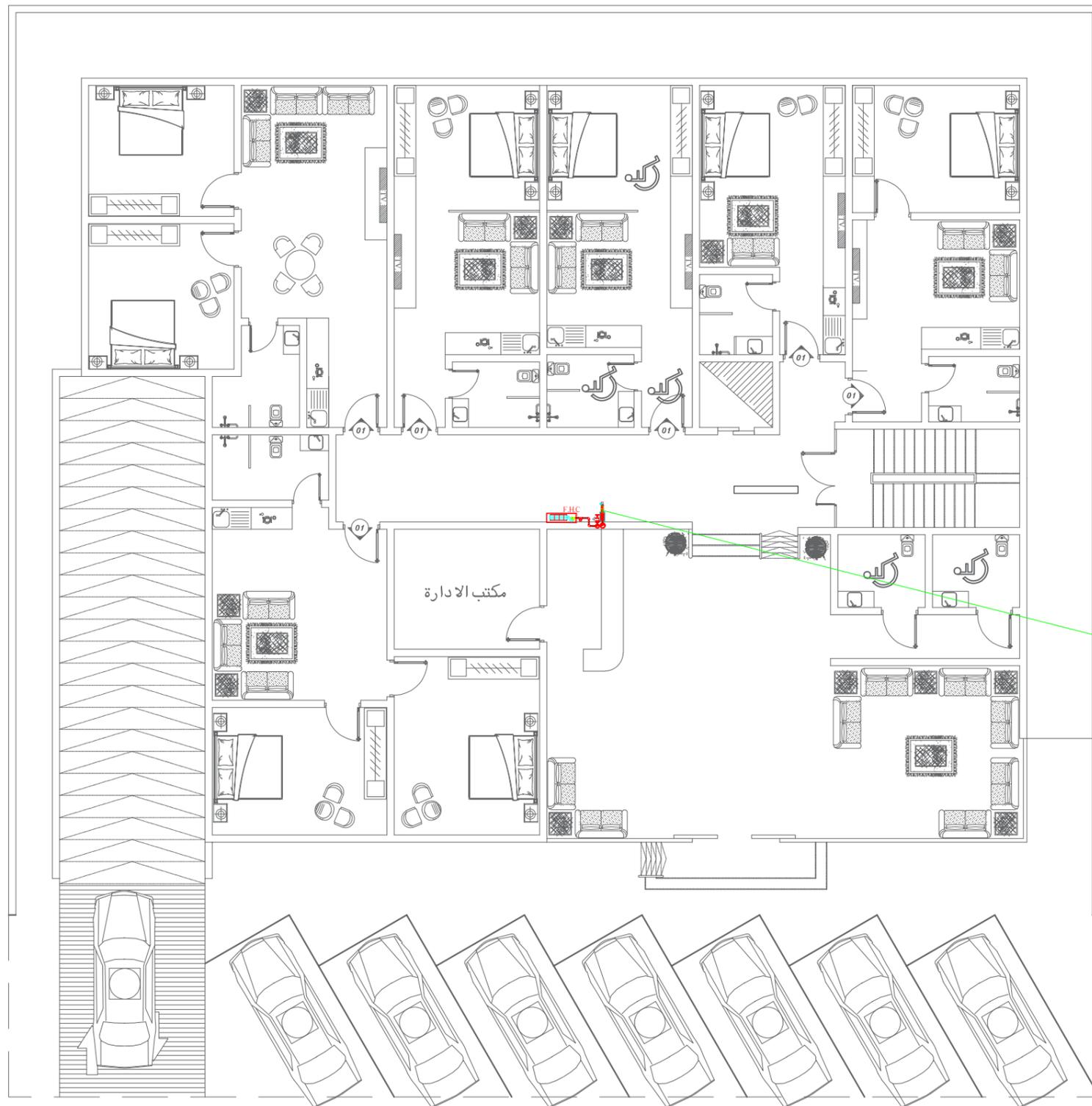


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6. SPRINKLER LOCATIONS GIVEN, ARE SUBJECT TO CHANGES EXACT LOCATION AND OF SPRINKLER TO BE DETERMINED DURING SHOP DRAWING & FINAL REFLECTED CEILING AND IN COORDINATION WITH OTHER PROVISIONS (DUCTWORK, LIGHT FIXTURES... ETC)
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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	مخططات الحريق الدور الارضي	
SHEET NO.	ME-029	
DISTRICT.	LAND NO.	BLOCK NO.
العتيق	393	1863/أب

SHEET INFORMATION

ID/ System	ZONE-CC-2025-02-27-4	
Architect	OMAR AL-SAMAHY – AHMED MOAMEN	
Structure	FETOUH MOHAMMED – MANAR MOHAMMED	
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL	
Mechanical	MOSTAFA GAMAL – MOHAMMED MOSAAD	



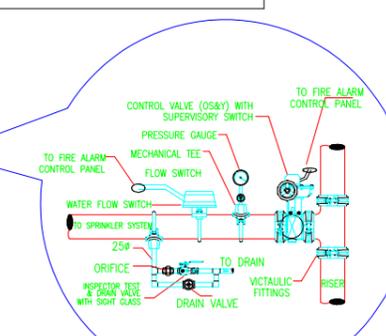
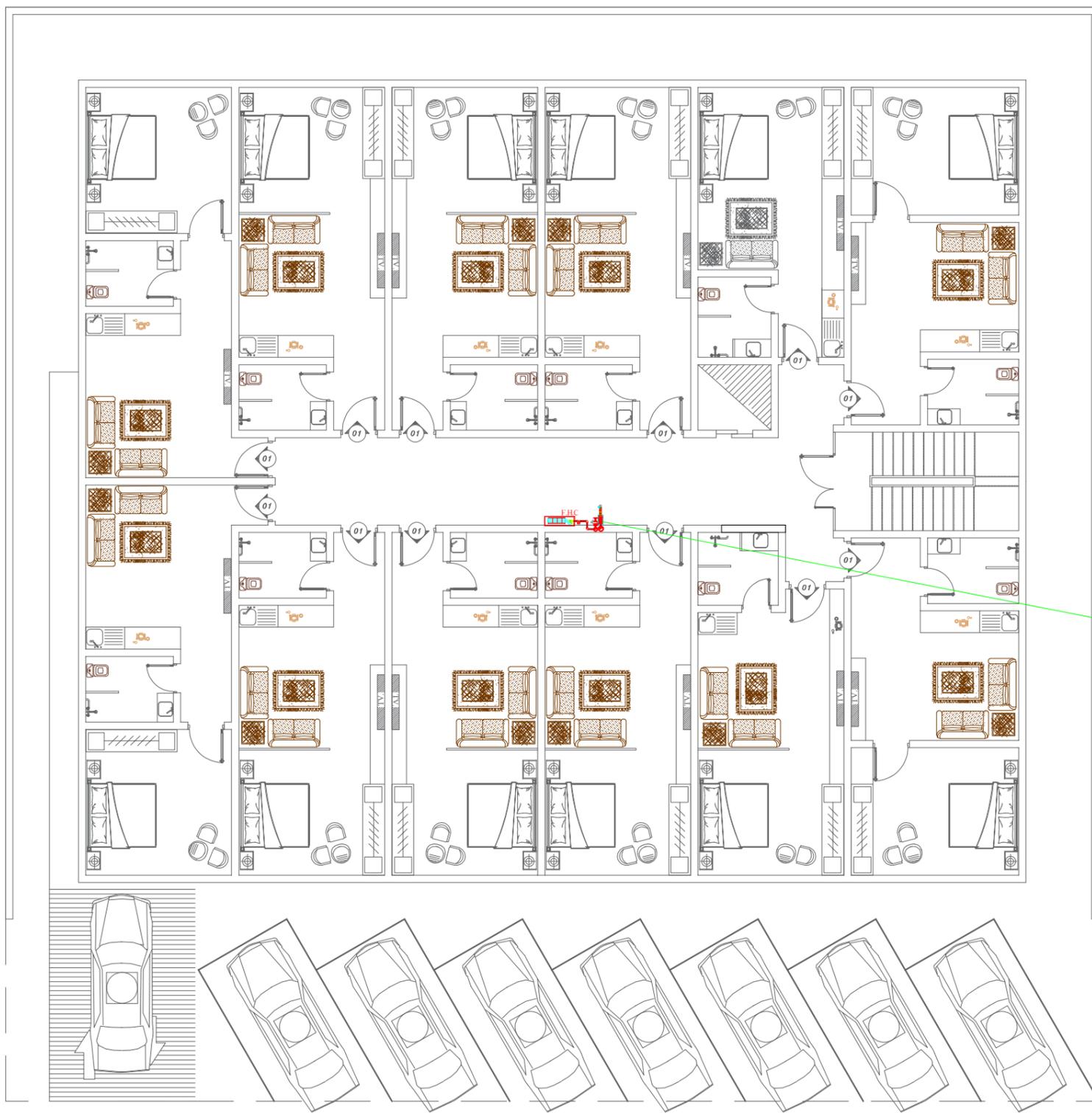


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Saudi Arabia, Riyadh, Al-Hamra District, Building 12

PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالمعز عبد الله علي الزامل	
DRAWING NAME	مخططات الحريق الدور الاول	
SHEET NO.	ME-030	
DISTRICT.	LAND NO.	BLOCK NO.
العتيق	393	أب/1863

SHEET INFORMATION	
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY - AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL
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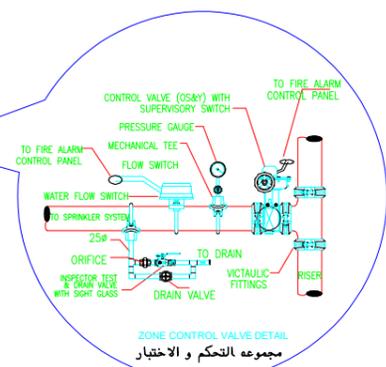
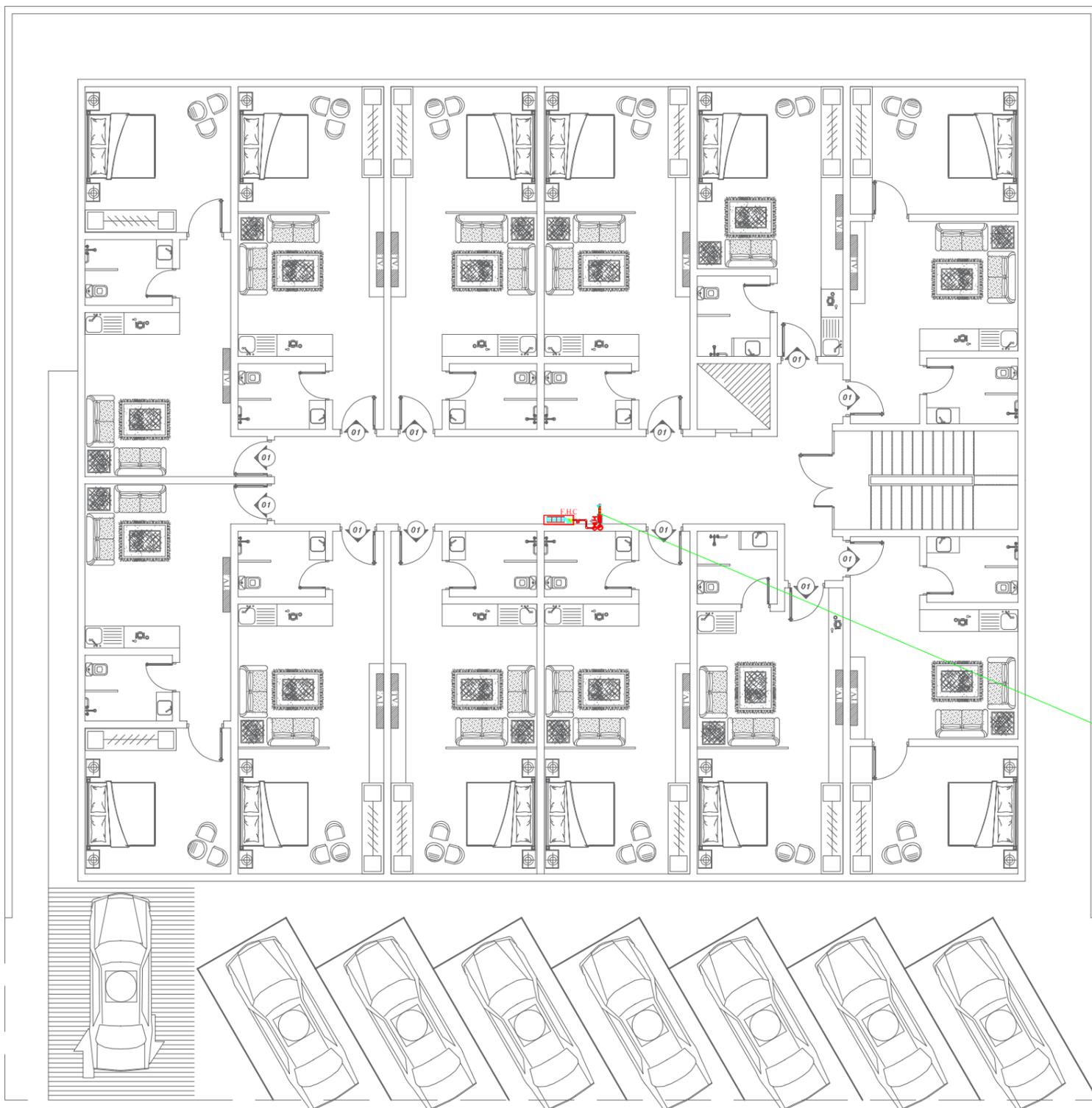


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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	مخططات الحريق الدور الثاني	
SHEET NO.	ME-031	
DISTRICT.	LAND NO.	BLOCK NO.
العتيق	393	أب/1863

SHEET INFORMATION	
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY – AHMED MOAMEN
Structure	FETOUH MOHAMMED – MANAR MOHAMMED
Electrical	ROKIA MOHAMMED – IBRAHIM ADEL
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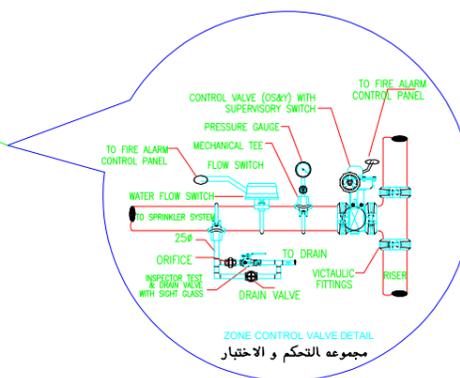
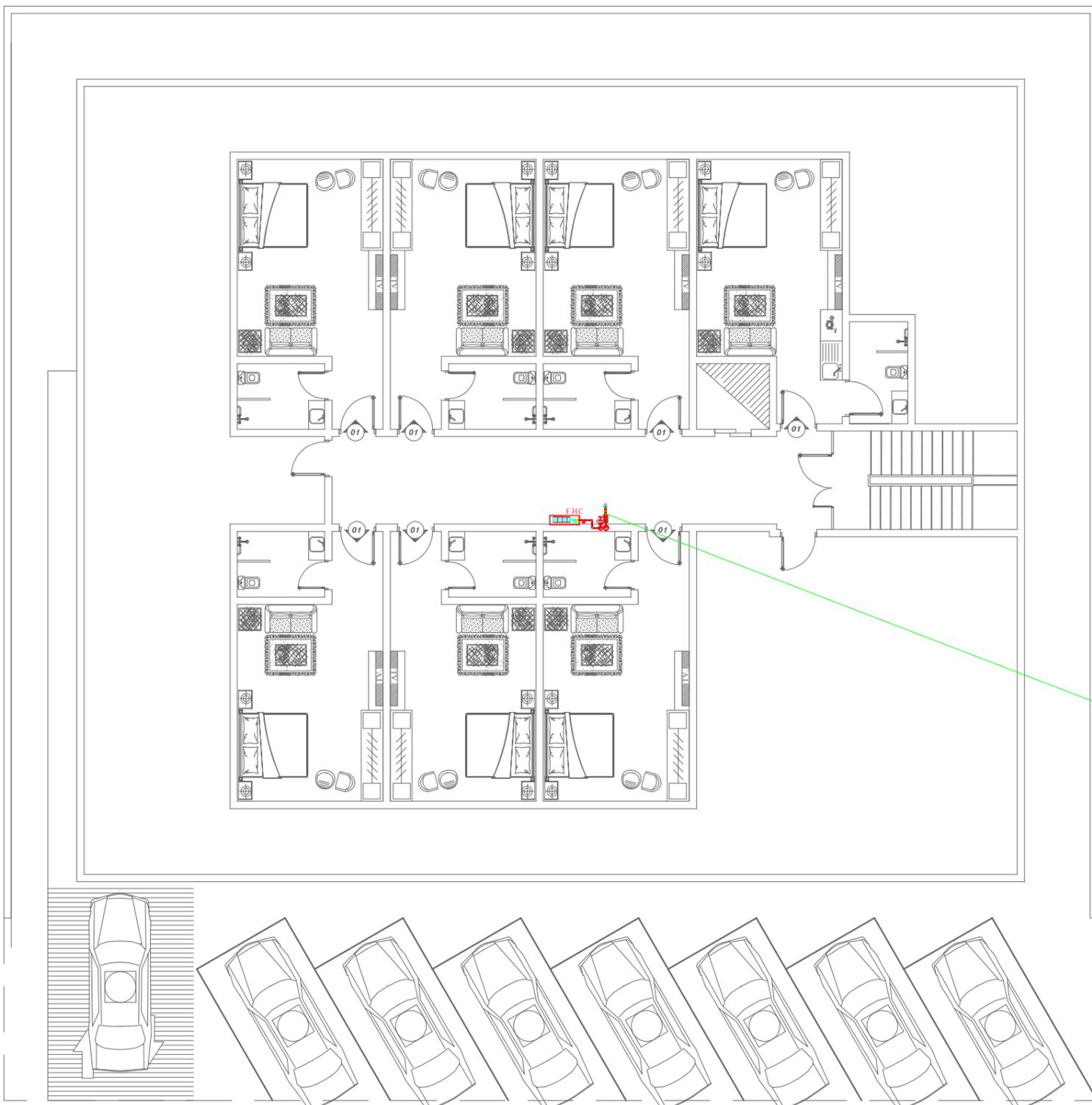


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OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	مخططات الحريق الدور الملحق	
SHEET NO.	ME-032	
DISTRICT.	LAND NO.	BLOCK NO.
العقبة	393	1863/أب

SHEET INFORMATION	
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FIRE PUMP DETAILS

FIRE PUMP SET

* ELECTRIC FIRE PUMP

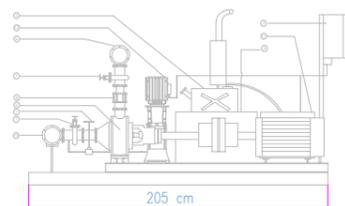
- 500 GPM AT 117 PSI
- COMPLETE WITH ACCESORIES

* JOCKEY PUMP

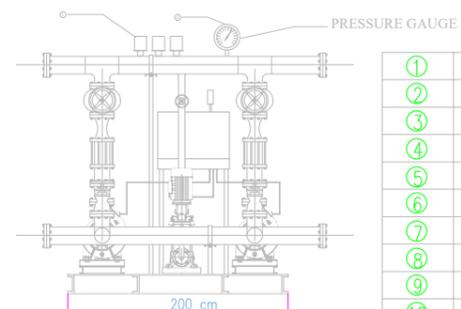
- 25 GPM
- COMPLETE WITH ACCESORIES

* DIESEL ENGINE FIRE PUMP

- 500GPM AT 117 PSI
- COMPLETE WITH ACCESORIES



FRONT VIEW



SIDE VIEW

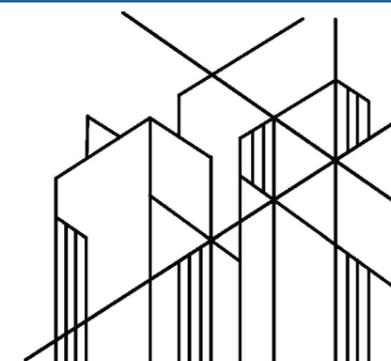
①	PRESSURE SWITCH
②	PRESSURE GAUGE
③	CONTROL PANEL
④	DIESEL ENGINE
⑤	DIESEL TANK
⑥	DISCHARGE PIPE
⑦	GATE VALVE
⑧	CHECK VALVE
⑨	ELECTRIC PUMP
⑩	SUCTION PIPE
⑪	TERMINAL BOX
⑫	JOCKEY PUMP

NOTES:

THERE SHOULD BE 1.5M ON ALL SIDES AROUND THE FIRE PUMP AREA FOR THE MAINTANENCE PURPOSE IN FUTURE

مواصفات مجموعه مضخات الحريق

PUMPS NUMBER	TYPE	SERVICE	PUMP HEAD	FLOW RATE	Power
FP1	FIRE HORIZONTAL SPILT CASE PUMP	FIRE NET WORK	117 PSI	350 (G.P.M)	35 (KW)
FP2	FIRE HORIZONTAL SPILT CASE PUMP	FIRE NET WORK	117 PSI	350 (G.P.M)	35 (KW)
JP	JOKEY (VERTICAL MULTISTAGE) PUMP	FIRE NET WORK	120 PSI	40 (G.P.M)	2.5 KW



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Egypt, Kafr El-Sheikh . Al-Niyaba Al-Aama District, Al-Atebas Tower
Saudi Arabia, Riyadh, Al-Hamra District, Building 12

PROJECT	شقق مخدومة (فندق)		
OWNER	عبدالعزیز عبدالله علی الزامل		
DRAWING NAME	تفاصيل المضخات		
SHEET NO.	ME-033		
DISTRICT.	LAND NO.	BLOCK NO.	
العقيق	393	1863/أب	

SHEET INFORMATION

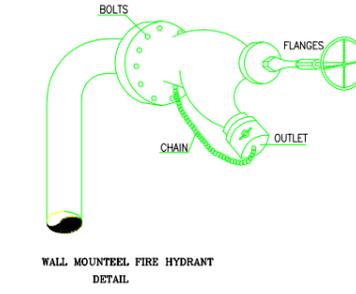
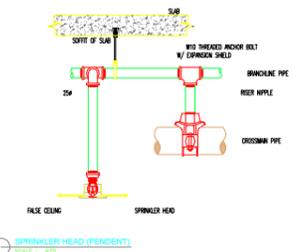
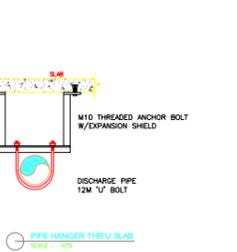
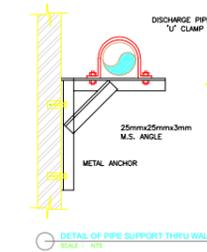
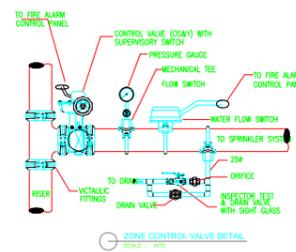
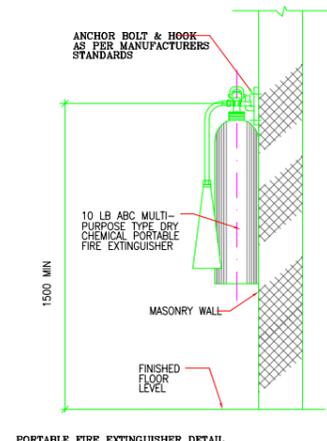
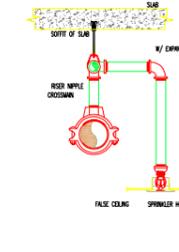
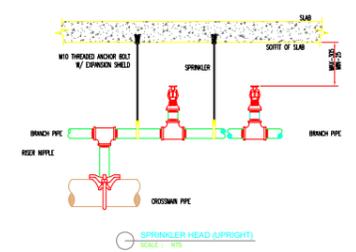
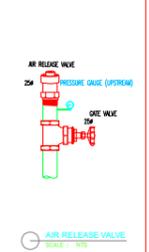
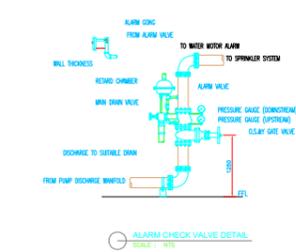
ID/ System	ZONE-CC-2025-02-27-4		
Architect	OMAR AL-SAMAHY - AHMED MOAMEN		
Structure	FETOUH MOHAMMED - MANAR MOHAMMED		
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL		
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD		



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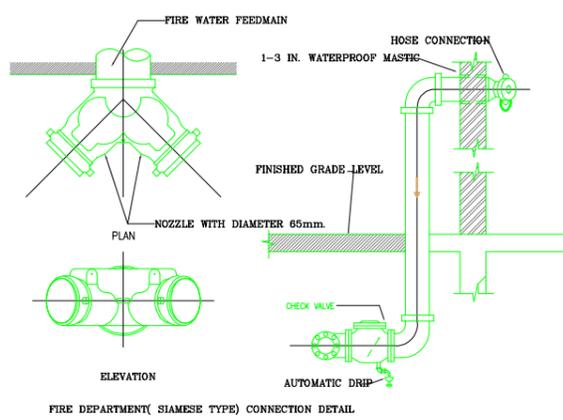
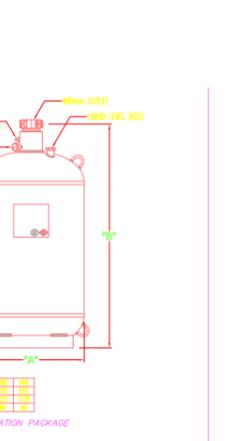
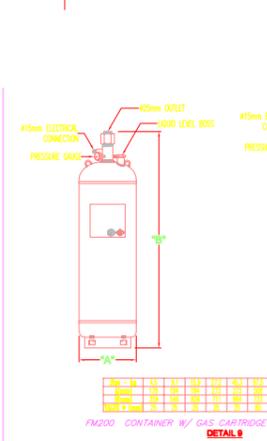
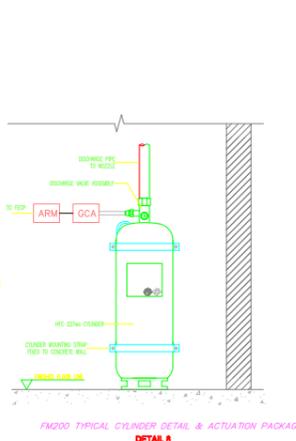
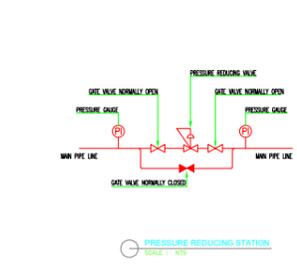
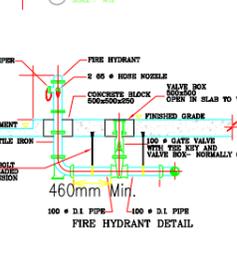
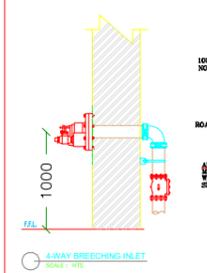
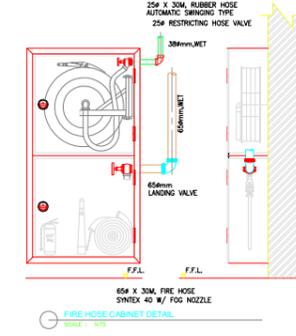
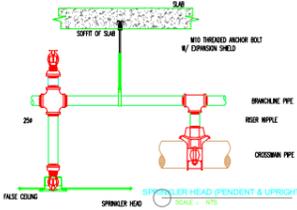
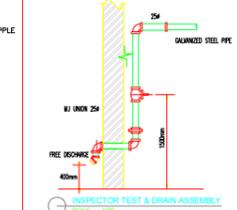
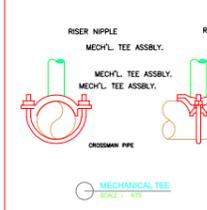


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SPECIFICATION:

1. TYPE	DOUBLE CABINET
2. MATERIAL FOR CONSTRUCTION	MILD STEEL
3. DOOR & FRAME	MILD STEEL (RED. POWER COATED FINISH)
4. DOOR	SOLID DOOR & FRAME (OPENING TO RIGHT HAND SIDE)
5. HANDLE	STANDARD



DETAILS OF INSTALLATION FIRE FIGHTING SYSTEM PLAN

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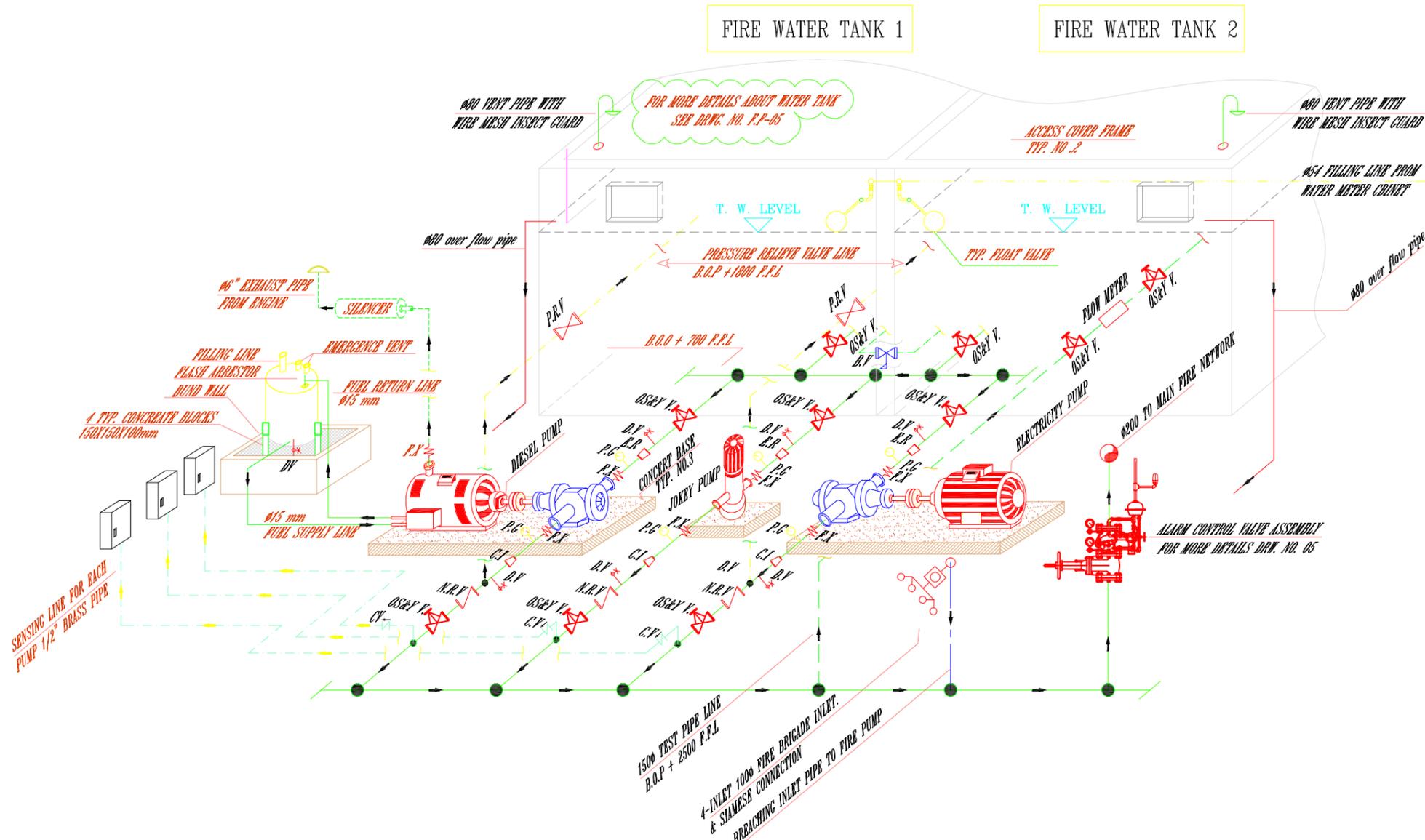
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Saudi Arabia, Riyadh, Al-Hamra District, Building 12

PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	تفاصيل عامة	
SHEET NO.	ME-034	
DISTRICT.	LAND NO.	BLOCK NO.
العتيق	393	أب/1863

SHEET INFORMATION	
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY - AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD





DRAWING NO. 6

ISOMETRIC DRAWING FOR TYPICAL PUMP ROOM DETAILS

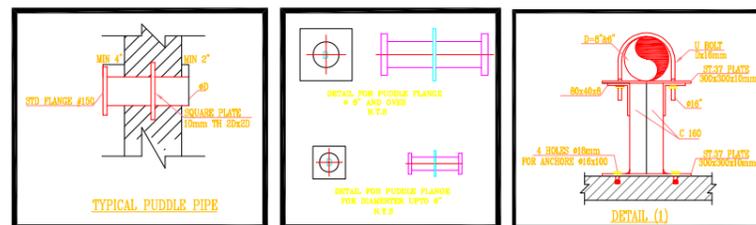
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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	تفاصيل عامة	
SHEET NO.	ME-035	
DISTRICT.	LAND NO.	BLOCK NO.
العقيق	393	أب/1863

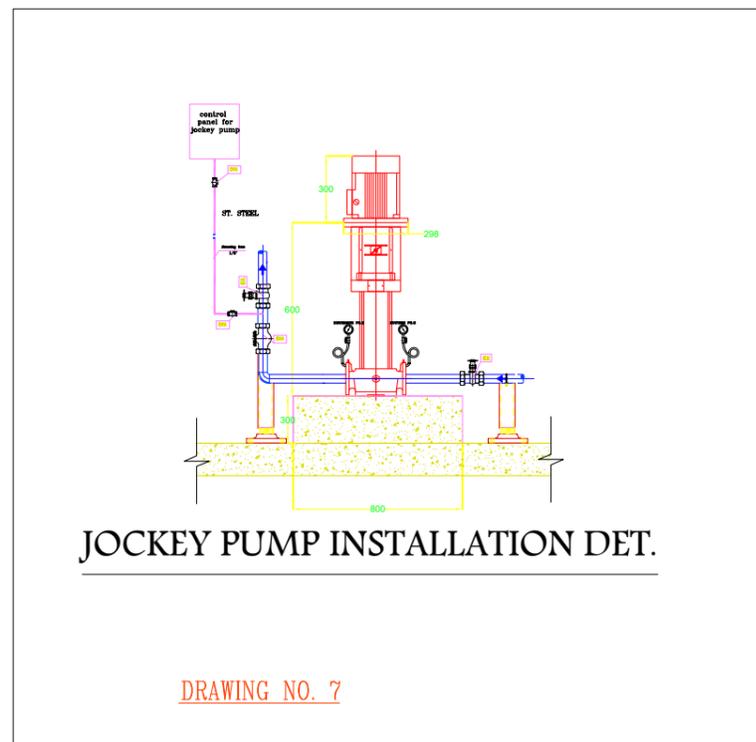
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ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY - AHMED MOAMEN
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Electrical	ROKIA MOHAMMED - IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD





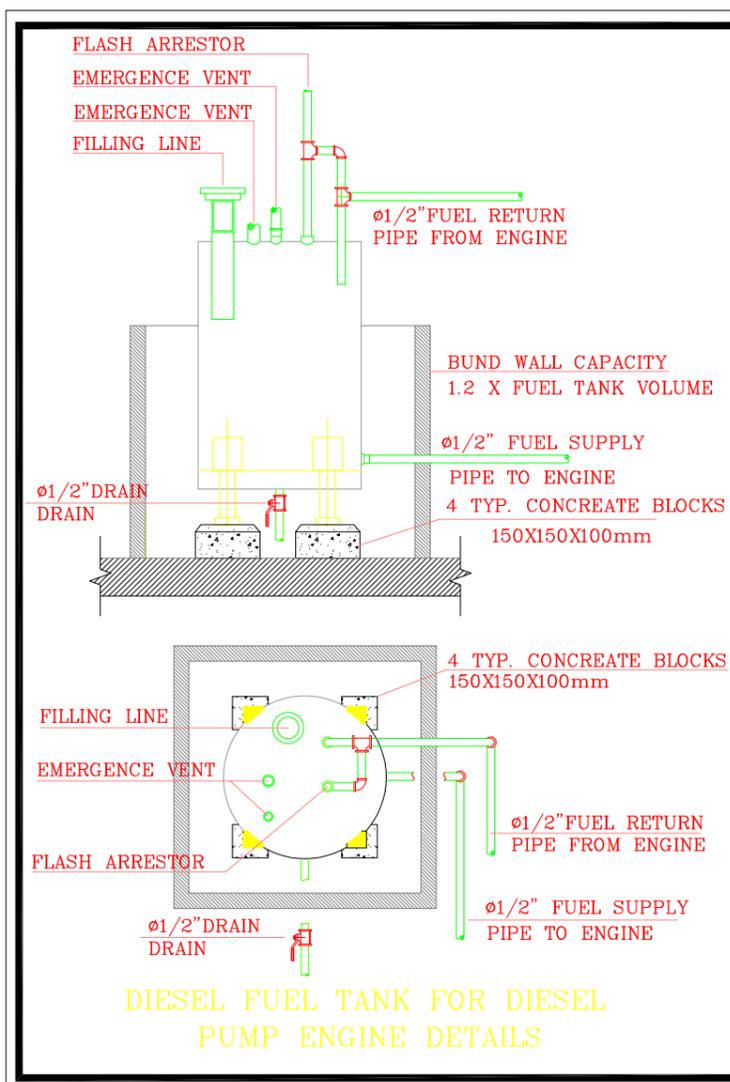
FIRE PUMPS SEQUENCE OF OPERATIONS.

1. THE JOCKEY PUMP SHALL BE RESPONSIBLE FOR MAINTAIN THE PRESSURE INSIDE THE NETWORK AT THE DESIGN PRESSURE RATE.
2. IN CASE OF FIRE THE PRESSURE INSIDE THE NETWORK SHALL BE DECREASED, SO THE JOCKEY PUMP SHALL RUN TO INCREASE THE PRESSURE TO THE DESIGN VALUE THEN STOP WORKING.
3. IN CASE OF FURTHER DECREASE OF THE PRESSURE UP TO 10% LESS THAN THE DESIGN PRESSURE, THE MAIN ELECTRICAL PUMP SHALL RUN TO INCREASE THE PRESSURE IN THE SYSTEM UP TO THE DESIGN VALVE
4. IF THE PRESSURE IN THE SYSTEM STILL NOT INCREASED DURING THE RUNNING OF MAIN ELECTRICAL PUMP AND THEN THE MAIN ELECTRICAL FIRE PUMP SHALL STOP WORKING UNTIL MANUAL OFF SHALL BE SELECTED.
5. AT NO TIME THE MAIN ELECTRICAL AND DIESEL FIRE PUMPS SHALL RUN AT THE SAME TIME.
6. CONTRACTOR SHALL ADJUST THE PRESSURE RATE OF EACH PUMP ACCORDING TO THE ABOVE CONCEPT.



LEGEND:

No.	ABBREV.	SYMBOL	DESCRIPTION
1	C.V.		CHECK VALVE
2	(OS&Y) G.V.		(OS&Y) GATE VALVE
3	EX.J.		EXPANSION JOINT
4	ST.		STRAINER
5	(OS&Y) G.V.		(OS&Y) GATE VALVE THREADED
6	C.V.		CHECK VALVE THREADED
7	C.P.		CONTROL PANEL
9	P.R.V.		PRESSURE RELIEF VALVE
10	B.V.		BALL VALVE



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PROJECT	شقق مخدومة (فندق)	
OWNER	عبدالعزیز عبدالله علی الزامل	
DRAWING NAME	تفاصيل عامة	
SHEET NO.	ME-036	
DISTRICT.	LAND NO.	BLOCK NO.
العتيق	393	أب/1863

SHEET INFORMATION	
ID/ System	ZONE-CC-2025-02-27-4
Architect	OMAR AL-SAMAHY - AHMED MOAMEN
Structure	FETOUH MOHAMMED - MANAR MOHAMMED
Electrical	ROKIA MOHAMMED - IBRAHIM ADEL
Mechanical	MOSTAFA GAMAL - MOHAMMED MOSAAD

