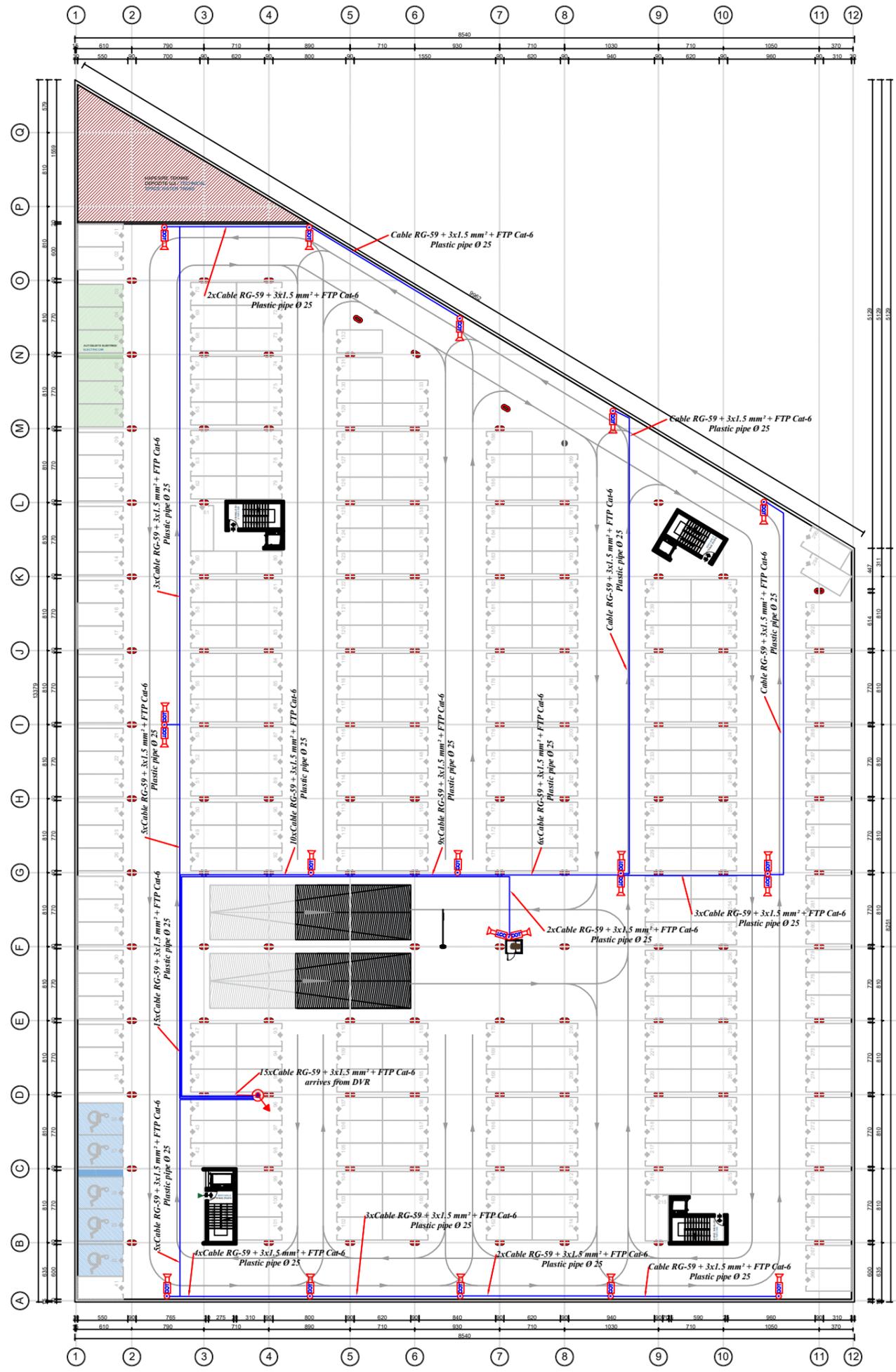


# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

UNDERGROUND FLOOR PLAN . CCTV SYSTEM INSTALLATION/ PLANIT TE KATIT -1. INSTALIMI I SISTEMIT TE VEZHGIMIT ME KAMERA CCTV



V.O  
 LINJA E TELEFONISE DO TE JETE ME KABELL UTP cat 6-e E BROJTUR ME TUB FLEKSIBEL Ø25mm.  
 LINJA TELEVIZIVE DO TE BEHET ME KABELL TV/SAT 0.75 ohm. I MBROJTUR ME TUB FLEKSIBEL Ø25mm.  
 LINJA E SISTEMIT CCTV DO TE BEHET ME KABELL RG59 + 3x1.5mm<sup>2</sup> + UTP cat6-e, I MBROJTUR ME TUB FLEKSIBEL Ø25mm.  
 LINJA E SISTEMIT AUDIO DO TE BEHET ME KABELL 2x1mm<sup>2</sup>, I MBROJTUR ME TUB FLEKSIBEL Ø25mm.

THE TELEPHONE LINE WILL BE WITH UTP cat 6-e CABLE SHIELDED WITH Ø25mm FLEXIBLE TUBE.  
 THE TELEVISION LINE WILL BE WITH TV/SAT CABLE 0.75 ohm. SHIELDED WITH Ø25mm FLEXIBLE TUBE.  
 THE CCTV SYSTEM LINE WILL BE WITH RG59 + 3x1.5mm<sup>2</sup> + UTP cat6-e CABLE, SHIELDED WITH Ø25mm FLEXIBLE TUBE.  
 THE AUDIO SYSTEM LINE WILL BE WITH 2x1mm<sup>2</sup> CABLE, SHIELDED WITH Ø25mm FLEXIBLE TUBE.

LEGEND OF SYMBOLS	
Symbol	Description
	Inside HD Camera
	Cable RG-59 + 3x1.5 mm <sup>2</sup> + FTP Cat-6
	Optic Fibre
	Electrical technical shaft
	Switch with 16 ports
	CCTV Monitor
	Control Panel Board
	Outside HD Camera

Notes:

Objekti / Object:  
 "Ndërtim i godinës së parkimit nëntokësor ,Vlorë"  
 "Construction of the underground parking building , Vlorë"

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

**ARCHISPACE**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.6732/14  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.6844/3  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

**SPHAERA**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.4651/14  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

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 Local Architecture Office  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

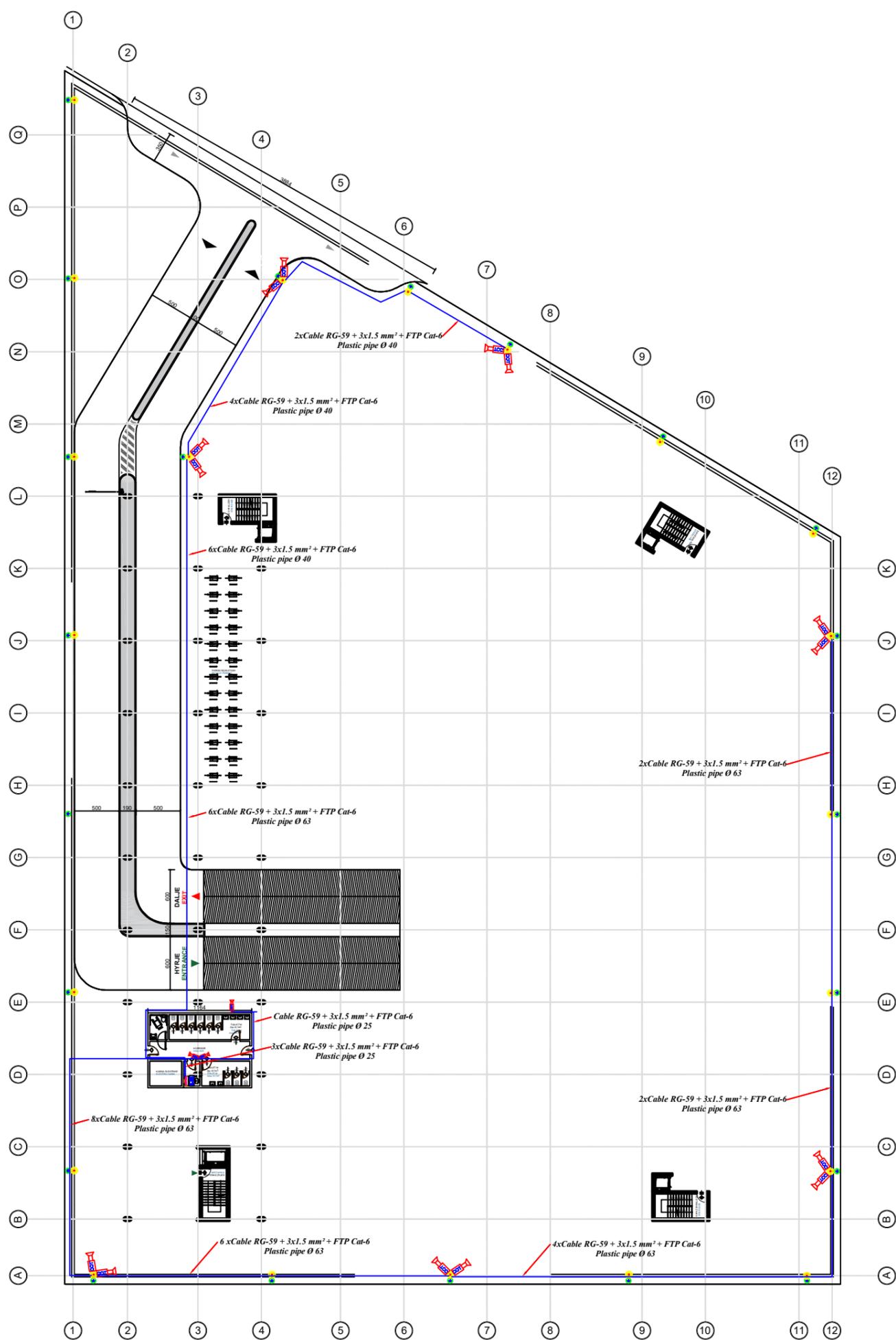
**IRI**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

TE GJITHA DIMENSIONET DUHET TE VERIFIKOHEN  
 NGA KONSTRUKTORIN E NEVE  
 ARCHISPACE BHP  
 The dimensions of all elements in this project must be checked by the contractor before construction starts. All dimensions must be checked by the contractor before construction starts. The contractor is responsible for the accuracy of the dimensions and for the approval of the dimensions by the contractor before construction starts. The contractor is responsible for the accuracy of the dimensions and for the approval of the dimensions by the contractor before construction starts.

kapitulli numri:	E 11	ELECTRICAL PROJEKT / PROJEKTI ELEKTRIK
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# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

GROUND FLOOR PLAN . CCTV SYSTEM INSTALLATION/ PLANIT TE KATIT PERDHE. INSTALIMI I SISTEMIT TE VEZHGIMIT ME KAMERA CCTV



V.O  
 LINJA E TELEFONISE DO TE JETE ME KABELL UTP cat 6-e E BROJTUR ME TUB FLEKSIBEL Ø25mm.  
 LINJA TELEVIZIVE DO TE BEHET ME KABELL TV/SAT 0.75 ohm. I MBROJTUR ME TUB FLEKSIBEL Ø25mm.  
 LINJA E SISTEMIT CCTV DO TE BEHET ME KABELL RG59 + 3x1.5mm2 + UTP cat6-e, I MBROJTUR ME TUB FLEKSIBEL Ø25mm.  
 LINJA E SISTEMIT AUDIO DO TE BEHET ME KABELL 2x1mm2 , I MBROJTUR ME TUB FLEKSIBEL Ø25mm.

THE TELEPHONE LINE WILL BE WITH UTP cat 6-e CABLE SHIELDED WITH Ø25mm FLEXIBLE TUBE.  
 THE TELEVISION LINE WILL BE WITH TV/SAT CABLE 0.75 ohm. SHIELDED WITH Ø25mm FLEXIBLE TUBE.  
 THE CCTV SYSTEM LINE WILL BE WITH RG59 + 3x1.5mm2 + UTP cat6-e CABLE, SHIELDED WITH Ø25mm FLEXIBLE TUBE.  
 THE AUDIO SYSTEM LINE WILL BE WITH 2x1mm2 CABLE, SHIELDED WITH Ø25mm FLEXIBLE TUBE.

LEGEND OF SYMBOLS	
Symbol	Description
	Inside HD Camera
	Cable RG-59 + 3x1.5 mm² + FTP Cat-6
	Optic Fibre
	Electrical technical shaft
	Switch with 16 ports
	CCTV Monitor
	Control Panel Board
	Outside HD Camera

Notes:

Objekti / Object:  
 "Ndërtim i godinës së parkimit nëntokësor ,Vlorë"  
 "Construction of the underground parking building , Vlorë"

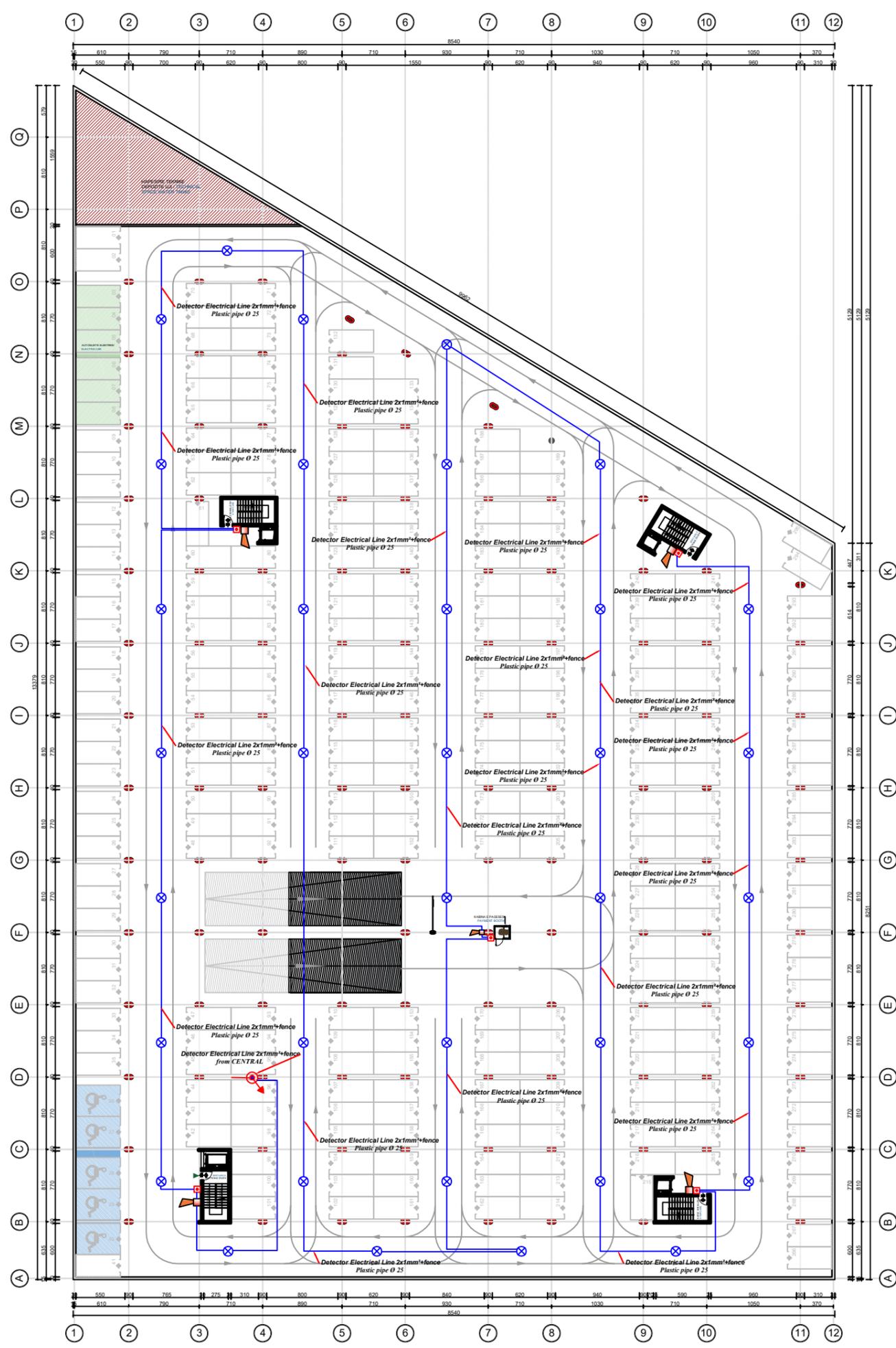
Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

<b>ARCHISPACE</b> Studio Lokale Arkitekture Local Architecture Office N.6732/14	Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
<b>IRI</b> Studio Lokale Arkitekture Local Architecture Office N.6844/3	Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
<b>SPHAERA</b> Studio Lokale Arkitekture Local Architecture Office N.4651/14	Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve

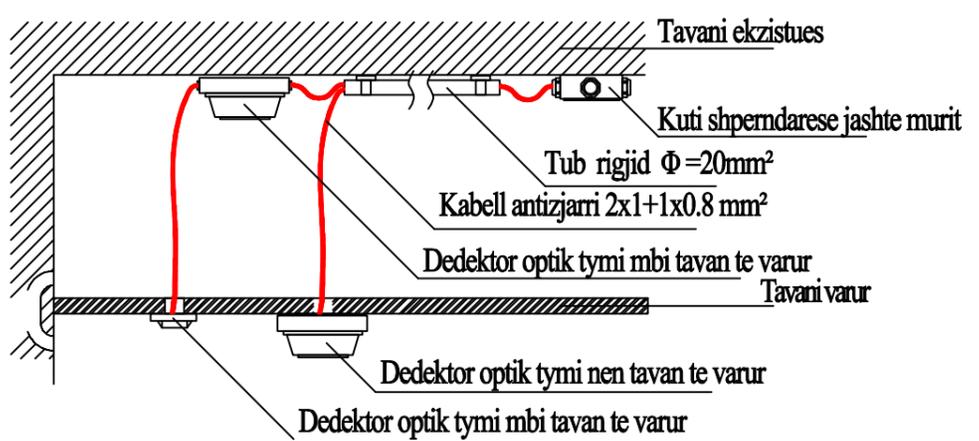
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# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

UNDERGROUND FLOOR PLAN . INSTALLATION OF FIRE ALARM SYSTEM / PLANIT TE KATIT -1. INSTALIMI I SISTEMIT TE SINJALIZIMIT KUNDRRA ZJARRIT



## DETAJE INSTALIMI TE SISTEMIT TE DEDEKTIMIT TE ZJARRIT



### SHENIME:

Kabli duhet te jete zjarre durues minimumi 60min dhe me skermo 2x1+1x0.8mm<sup>2</sup>.  
 Midis tavanit ekzistues dhe tavanit te varur do te ket dedektor optik tymi kur:  
 a) distanca midis tyre eshte mbi 40 cm.  
 b) nese kemi trase kablosh.  
 Ne ambientet ku ka tavan te varur do te perdoret Tub fleksibel i rende qe do fiksofet me grapeta.  
 Ne ambientet ma tavan te varur do perdoret tub rixhid i cili do fiksohet me grapeta

### NOTES:

The cable must be fire resistant for at least 60 minutes and have a 2x1+1x0.8mm<sup>2</sup> shield.  
 There will be an optical smoke detector between the existing ceiling and the suspended ceiling when:  
 a) the distance between them is over 40 cm.  
 b) if there is a cable duct.  
 In rooms with a suspended ceiling, a heavy flexible pipe will be used that will be fixed with brackets.  
 In rooms with a suspended ceiling, a rigid pipe will be used that will be fixed with brackets.

LEGEND OF SYMBOLS	
Symbol	Description
	Detector Electrical Line 2x1mm <sup>2</sup> +fence, PTF 16 mm
	Alarm Siren Electrical Line 2x1mm <sup>2</sup> +fence, PTF 16 mm
	Smoke detector
	Push Button (Glass Breaking)
	Alarm Siren - Indoor
	Alarm Siren - Outdoor
	Fire alarm central
	Lockup Resistance

Notes:

Objekti / Object:  
 "Ndërtim i godinës së parkimit nëntokësor ,Vlorë"  
 "Construction of the underground parking building , Vlorë"

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

**ARCHISPACE**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.6732/14  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
 Studio Lokale Arkitekture  
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**SPHAERA**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.4651/14  
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 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.6844/3  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

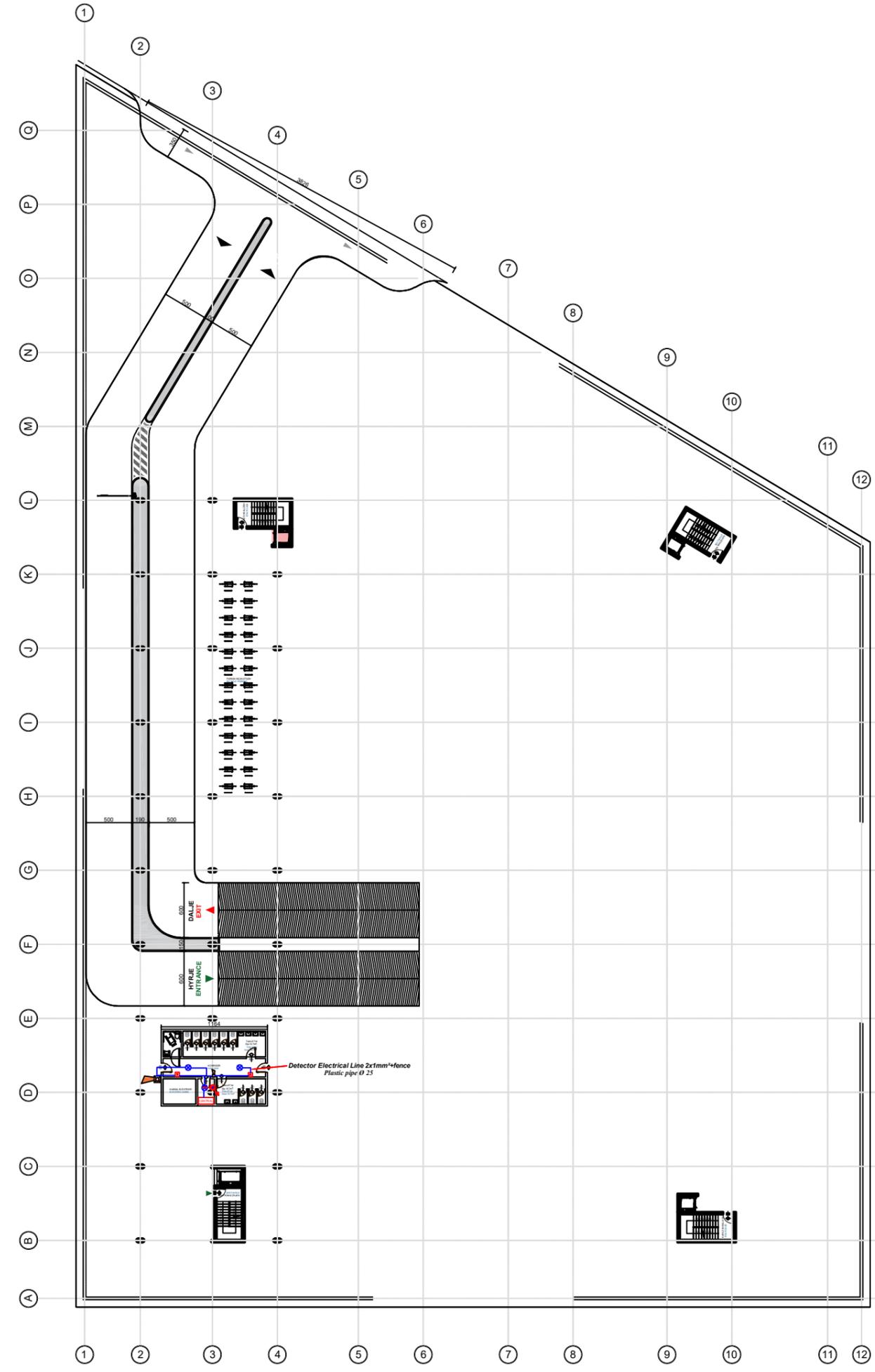
**IRI**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.6844/3  
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**IRI**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
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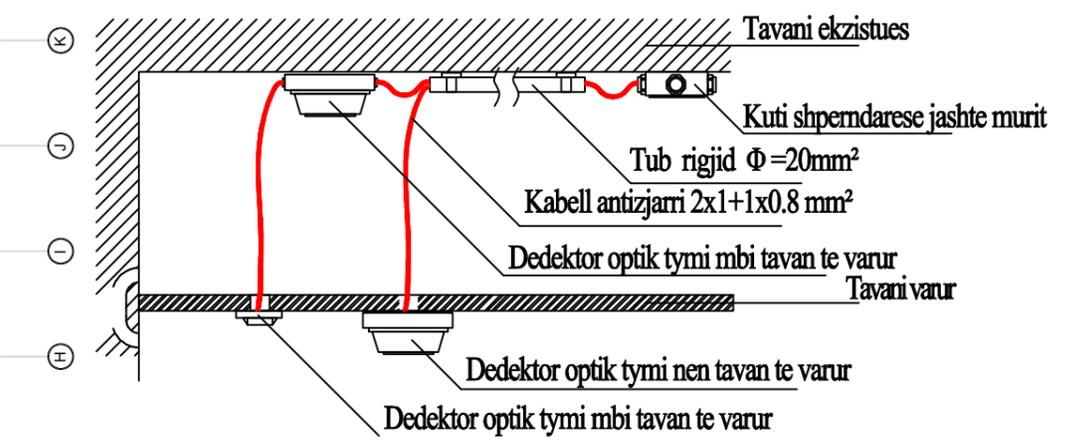
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# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

GROUND FLOOR PLAN . INSTALLATION OF FIRE ALARM SYSTEM / PLANIT TE KATIT PERDHE. INSTALIMI I SISTEMIT TE SINJALIZIMIT KUNDRRA ZJARRIT



## DETAJE INSTALIMI TE SISTEMIT TE DEDEKTIMIT TE ZJARRIT



- SHENIME:**  
 Kablli duhet te jete zjarre durues minimumi 60min dhe me skermo 2x1+1x0.8mm2.  
 Midis tavanit ekzistues dhe tavanit te varur do te ket dedektor optik tymi kur:  
 a) distanca midis tyre eshte mbi 40 cm.  
 b) nese kemi trase kablosh.  
 Ne ambientet ku ka tavan te varur do te perdoret Tub fleksibel i rende qe do fiksofet me grapeta.  
 Ne ambientet ma tavan te varur do perdoret tub rixhid i cili do fiksohet me grapeta
- NOTES:**  
 The cable must be fire resistant for at least 60 minutes and have a 2x1+1x0.8mm2 shield.  
 There will be an optical smoke detector between the existing ceiling and the suspended ceiling when:  
 a) the distance between them is over 40 cm.  
 b) if there is a cable duct.  
 In rooms with a suspended ceiling, a heavy flexible pipe will be used that will be fixed with brackets.  
 In rooms with a suspended ceiling, a rigid pipe will be used that will be fixed with brackets.

Legenda/Legend:

LEGEND OF SYMBOLS	
Symbol	Description
	Detector Electrical Line 2x1mm²+fence, PTF 16 mm
	Alarm Siren Electrical Line 2x1mm²+fence, PTF 16 mm
	Smoke detector
	Push Button (Glass Breaking)
	Alarm Siren - Indor
	Alarm Siren - Outdoor
	Fire alarm central
	Lockup Resistance

Notes:

Objekti / Object:  
 "Ndërtim i godinës së parkimit nëntokësor ,Vlorë"  
 "Construction of the underground parking building , Vlorë"

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

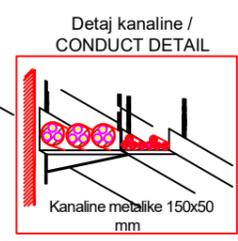
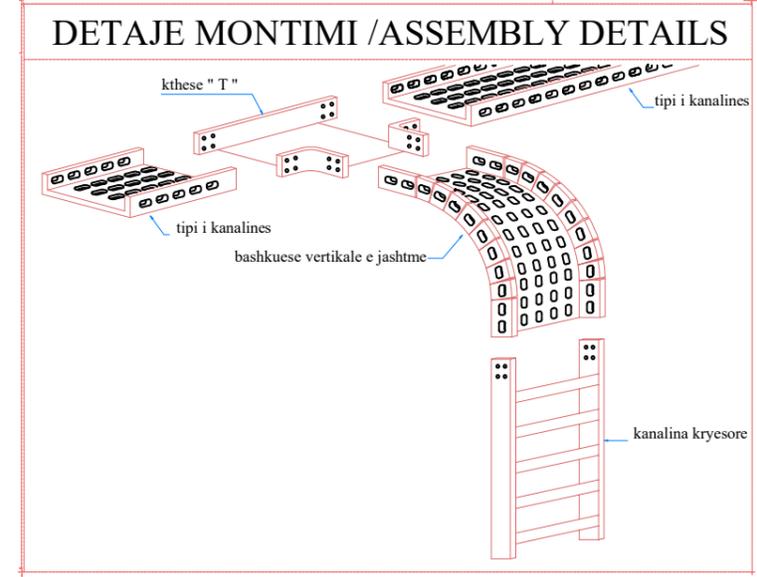
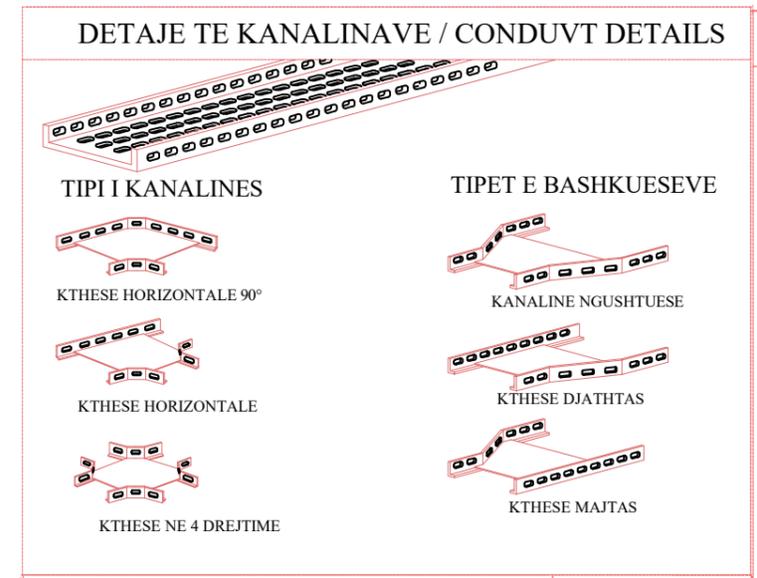
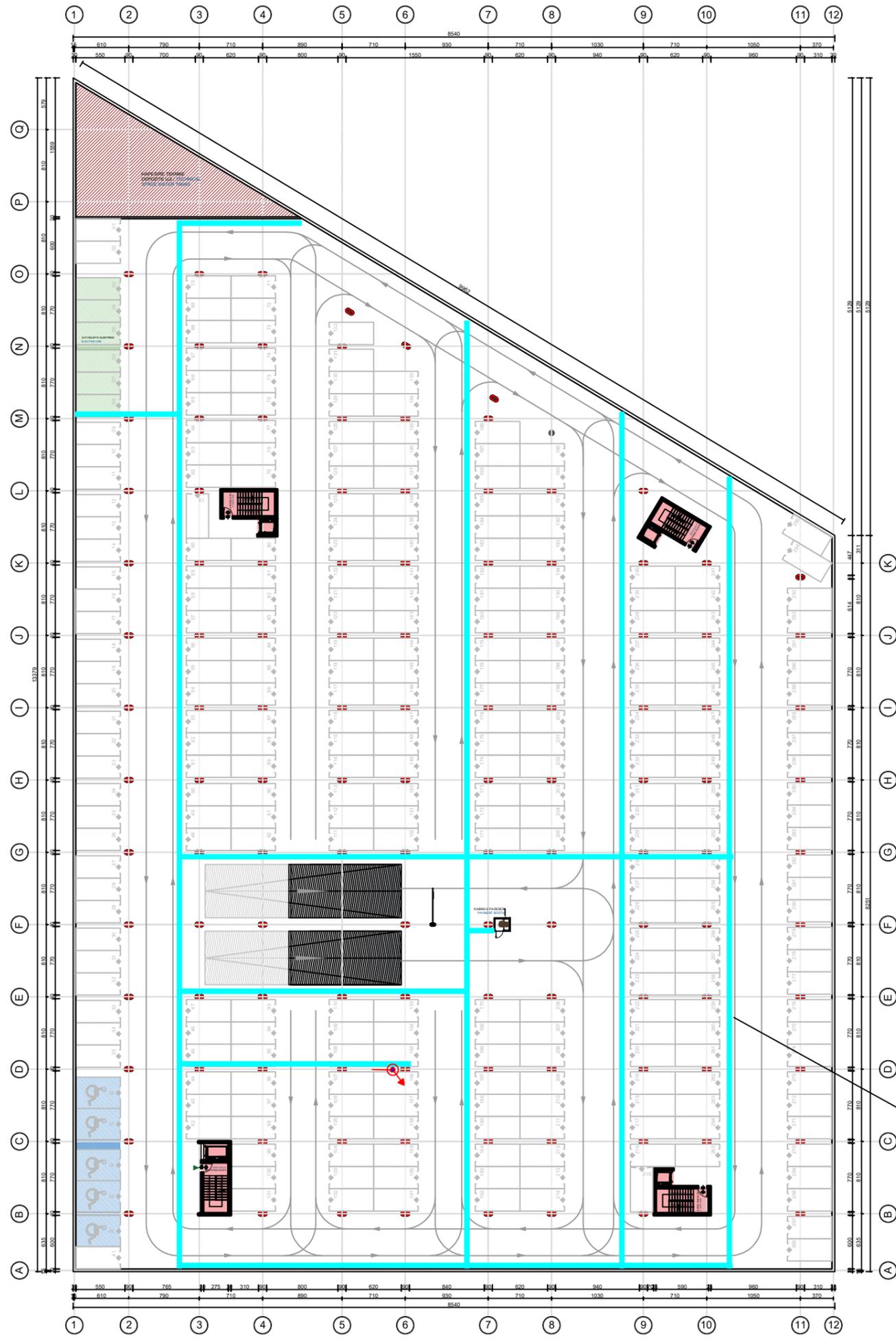
	Studio Lokale Arkitekture Local Architecture Office	N.6732/14	Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	Studio Lokale Arkitekture Local Architecture Office	N.6844/3	Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	Studio Lokale Arkitekture Local Architecture Office	N.4651/14	Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	Dimitris Papa		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	Opjet Dheqani		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
			Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	Erjona Dheqani		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
			Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve

TE GJITHA DIMENSIONET DUHET TE VERIFIKOHEN  
 TË GJITHA DIMENSIONET DUHET TE VERIFIKOHEN

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# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

UNDERGROUND FLOOR PLAN . INSTALLATION METALIC TRAY / PLANIT TE KATIT -1. INSTALIMI I KANALINAVE METALIKE



Legenda/Legend:

Notes:

Objekti / Object:  
"Nërtim i godinës së parkimit nëntokësor ,Vlorë"  
"Construction of the underground parking building , Vlorë"

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

**ARCHISPACE**  
Studio Lokale Arkitekture  
Local Architecture Office  
N.6732/14  
Firma/Signature:  
Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
Studio Lokale Arkitekture  
Local Architecture Office  
N.6844/3  
Firma/Signature:  
Kontrolluar dhe aprovuar/ Read and approve

**SPHAERA**  
Studio Lokale Arkitekture  
Local Architecture Office  
N.4651/14  
Firma/Signature:  
Kontrolluar dhe aprovuar/ Read and approve

Inzhineri Nënshkrimi/ Structural Engineer  
Dimitris Papa  
Firma/Signature:  
Kontrolluar dhe aprovuar/ Read and approve

Inzhineri Elektrik/ Electrical Engineer  
Ogjet Dheqani  
Firma/Signature:  
Kontrolluar dhe aprovuar/ Read and approve

Inzhineri Mekanik/ Mechanical Engineer  
Firma/Signature:  
Kontrolluar dhe aprovuar/ Read and approve

M2D Fire Protection  
Erjon Ceshi  
Firma/Signature:  
Kontrolluar dhe aprovuar/ Read and approve

Inzhineri Hidraulik/ Hydraulic Engineer  
Firma/Signature:  
Kontrolluar dhe aprovuar/ Read and approve

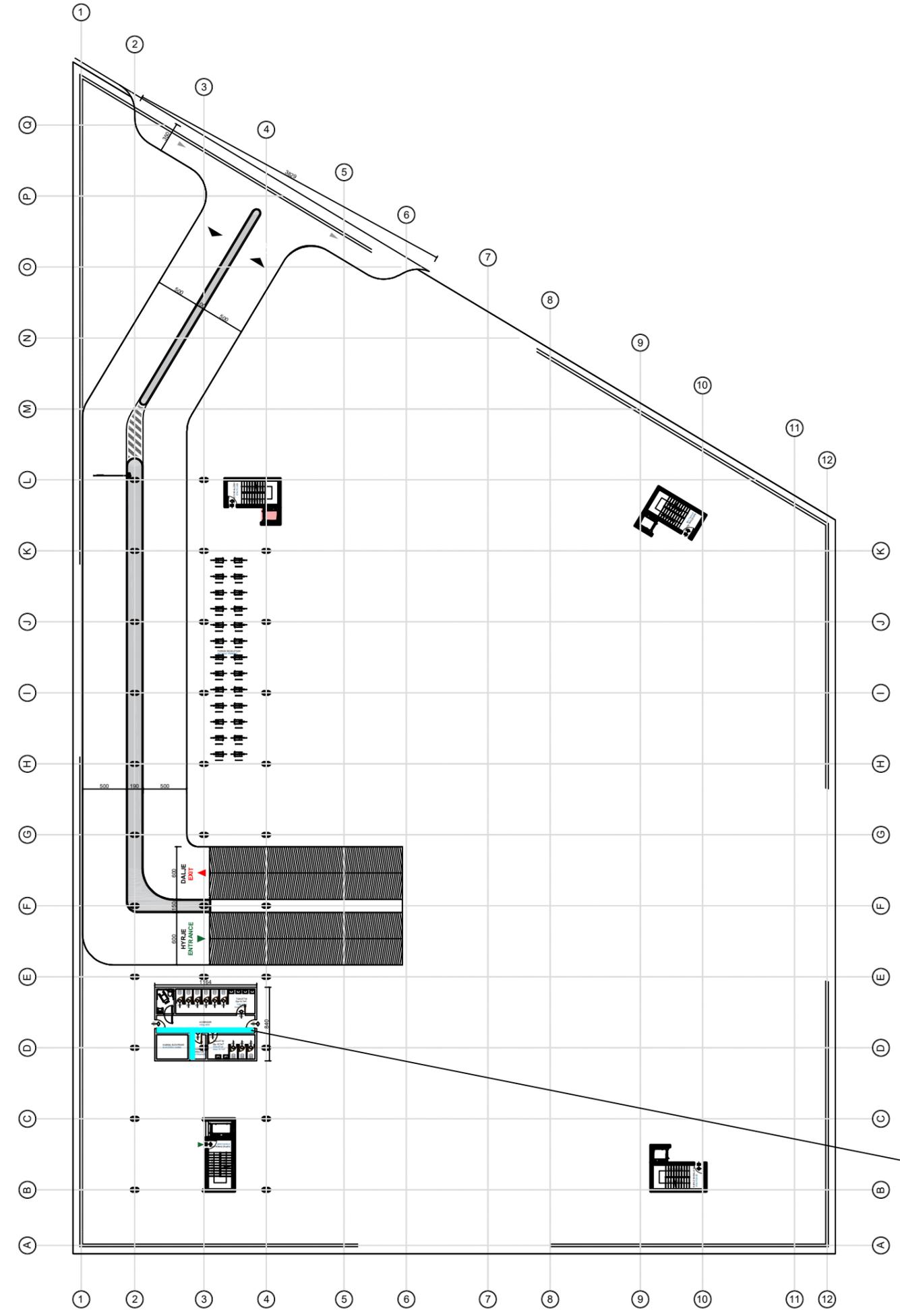
TE GJITHA DIMENSIONET DUHEN TE VERIFIKOHEN  
NËN KONSTRUKTORIN E VEPRIT

kapitulli numri:  
E 15 ELECTRICAL PROJEKT / PROJEKTI ELEKTRIK

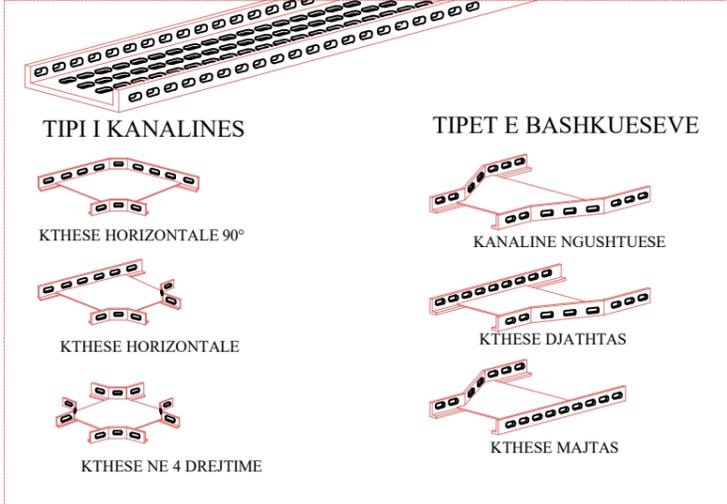
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# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

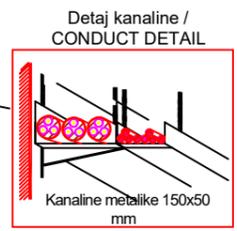
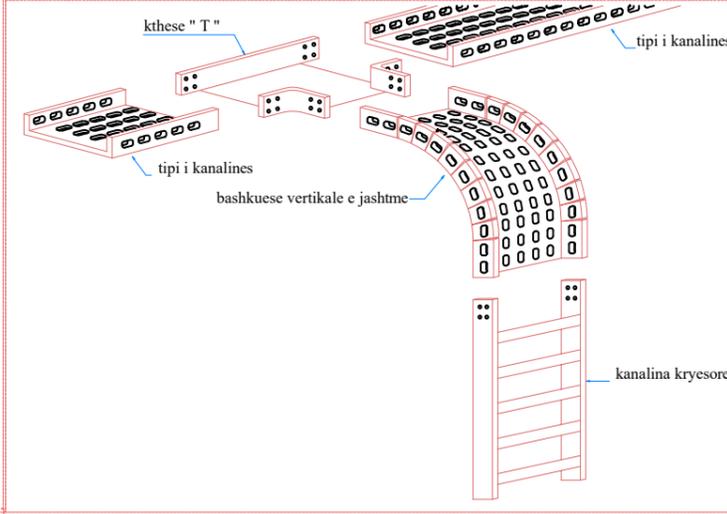
GROUND FLOOR PLAN . INSTALLATION METALIC TRAY / PLANIT TE KATIT PERDHE. INSTALIMI I KANALINAVE METALIKE



## DETAJE TE KANALINAVE / CONDUIT DETAILS



## DETAJE MONTIMI / ASSEMBLY DETAILS



Legenda/Legend:

Notes:

Objekti / Object:  
"Ndërtim i godinës së parkimit nëntokësor ,Vlorë"  
"Construction of the underground parking building , Vlorë"

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

**ARCHISPACE**  
Studio Lokale Arkitekture  
Local Architecture Office  
N.6732/14  
Firma/Signature:  
Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
Studio Lokale Arkitekture  
Local Architecture Office  
N.6844/3  
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**SPHAERA**  
Studio Lokale Arkitekture  
Local Architecture Office  
N.4651/14  
Firma/Signature:  
Kontrolluar dhe aprovuar/ Read and approve

Inzhineri Mekanik/ Structural Engineer  
Dimitris Papa  
Firma/Signature:  
Kontrolluar dhe aprovuar/ Read and approve

Inzhineri Elektrik/ Electrical Engineer  
Ogjet Dheqani  
Firma/Signature:  
Kontrolluar dhe aprovuar/ Read and approve

Inzhineri Mekanik/ Mechanical Engineer  
Firma/Signature:  
Kontrolluar dhe aprovuar/ Read and approve

M2D/ Fire Protection  
Erjon Ceshi  
Firma/Signature:  
Kontrolluar dhe aprovuar/ Read and approve

Inzhineri Hidraulik/ Hydrotechnical Engineer  
Firma/Signature:  
Kontrolluar dhe aprovuar/ Read and approve

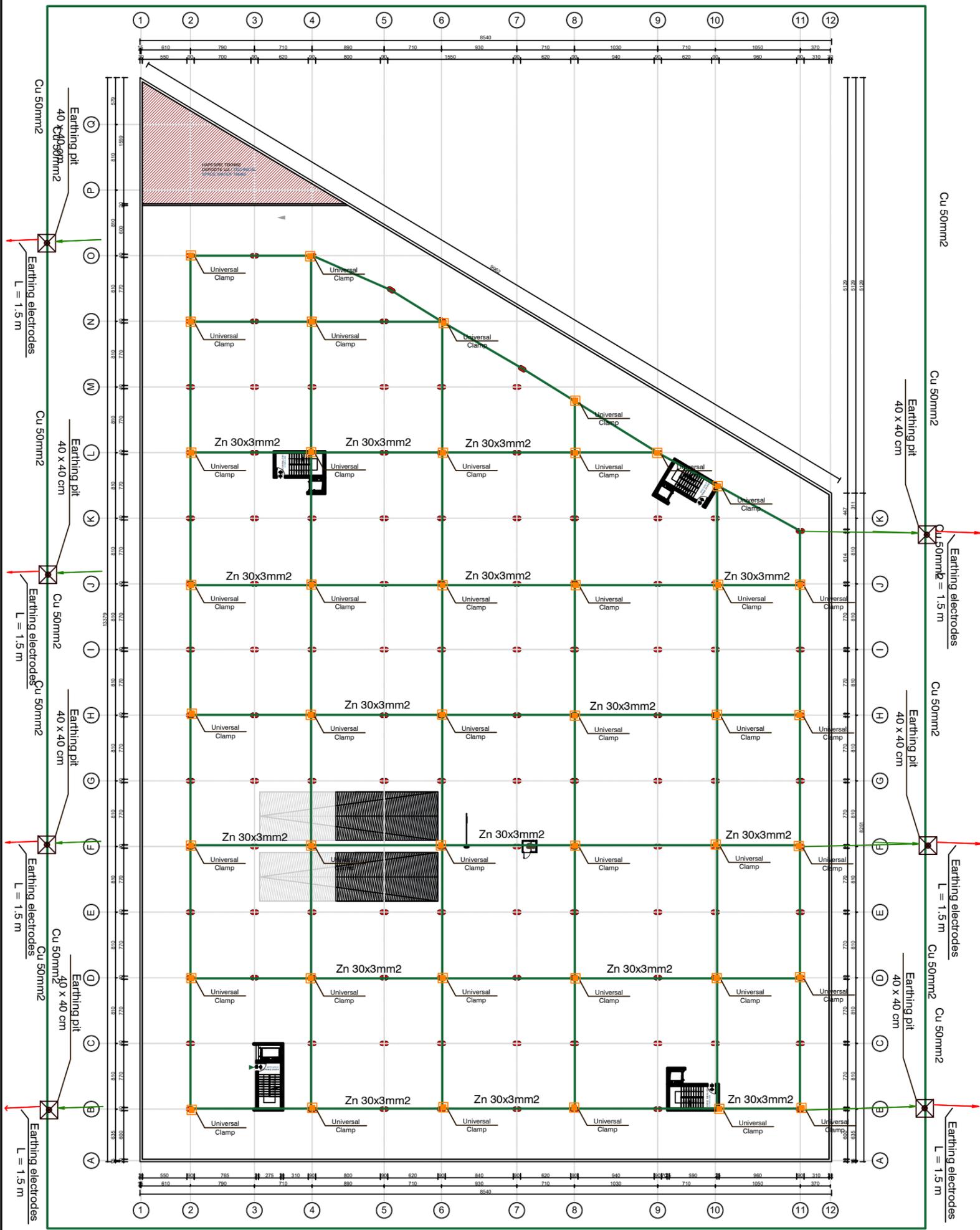
TE GJITHA DIMENSIONET DUHEN TE VERIFIKOHEN  
MUA KONSTRUKTORI NE VLEDE  
ARCHISPACE BHP  
The information is based on the project. The client is responsible for the accuracy of the data provided. The contractor is responsible for the accuracy of the data provided. The contractor is responsible for the accuracy of the data provided. The contractor is responsible for the accuracy of the data provided.

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E 16 ELECTRICAL PROJEKT / PROJEKTI ELEKTRIK

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# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

UNDERGROUND FLOOR PLAN . LIGHTING INSTALLATION/ PLANIT TE KATIT -1. INSTALIMI I NDRICIMIT



**SHENIM:**  
 Rekomandohet qe elektrodat e tokezimit te largohen nga themeli ne distancen  $d > 1.5\text{ m}$ , per arsyen e chjeshte se anet e ndertesese ne themele mbushen me materiale qe kane rezistence specifike te madhe.  
 Rezistenca e tokezimit duhet te jete:  $R_t < 2\text{ Ohm}$ . ne kohen te thate.  
 Neqoftese nuk arrihet rezistenca e kerkuar e tokezimit, atehere duhet te shtohet numri i elektrodave te tokezimit.  
 Nuk lejohet qe shiriti i zinguar, per cfaredo arsye te shpohet me trapano ose te saldohet, pasi ku vend mund te behet burim oksidimi

**SHENIM**  
 Mbrojtja nga goditjet atmosferike, do te realizohet me shtiza rrufeprites me gjatesi  $L=0.6\text{ m}$  dhe diameter  $d=20\text{ mm}$  si dhe rrjeta metalike me hekur shirit xingato  $30 \times 3\text{ mm}$  . Me konturin e tokezimit te lidhen te gjitha pjeset metalike qe dalin ne cati, bazamente antenash, etj.

**NOTE:**  
 It is recommended that the grounding electrodes be removed from the foundation at a distance  $d > 1.5\text{ m}$ , for the simple reason that the sides of the building in the foundation are filled with materials that have high specific resistance.  
 The grounding resistance should be:  $R_t < 2\text{ Ohm}$ . in dry weather.  
 If the required grounding resistance is not achieved, then the number of grounding electrodes should be increased.  
 It is not allowed for the galvanized strip to be drilled or welded for any reason, as this can become a source of oxidation in some places.

**NOTE**  
 Protection from atmospheric shocks will be achieved with lightning rods with length  $L=0.6\text{ m}$  and diameter  $d=20\text{ mm}$  as well as metal mesh with galvanized iron strip  $30 \times 3\text{ mm}$ . All metal parts that protrude from the roof, antenna bases, etc., must be connected to the grounding contour.

Legenda/Legend:

Notes:

Objekti / Object:  
 "Ndërtim i godinës së parkimit nëntokësor ,Vlorë"  
 "Construction of the underground parking building , Vlorë"

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

**ARCHISPACE**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.6732/14  
 Firms Signature: [Signature]  
 Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.6844/3  
 Firms Signature: [Signature]  
 Kontrolluar dhe aprovuar/ Read and approve

**SPHAERA**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.4651/14  
 Firms Signature: [Signature]  
 Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
 Firms Signature: [Signature]  
 Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
 Firms Signature: [Signature]  
 Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
 Firms Signature: [Signature]  
 Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
 Firms Signature: [Signature]  
 Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
 Firms Signature: [Signature]  
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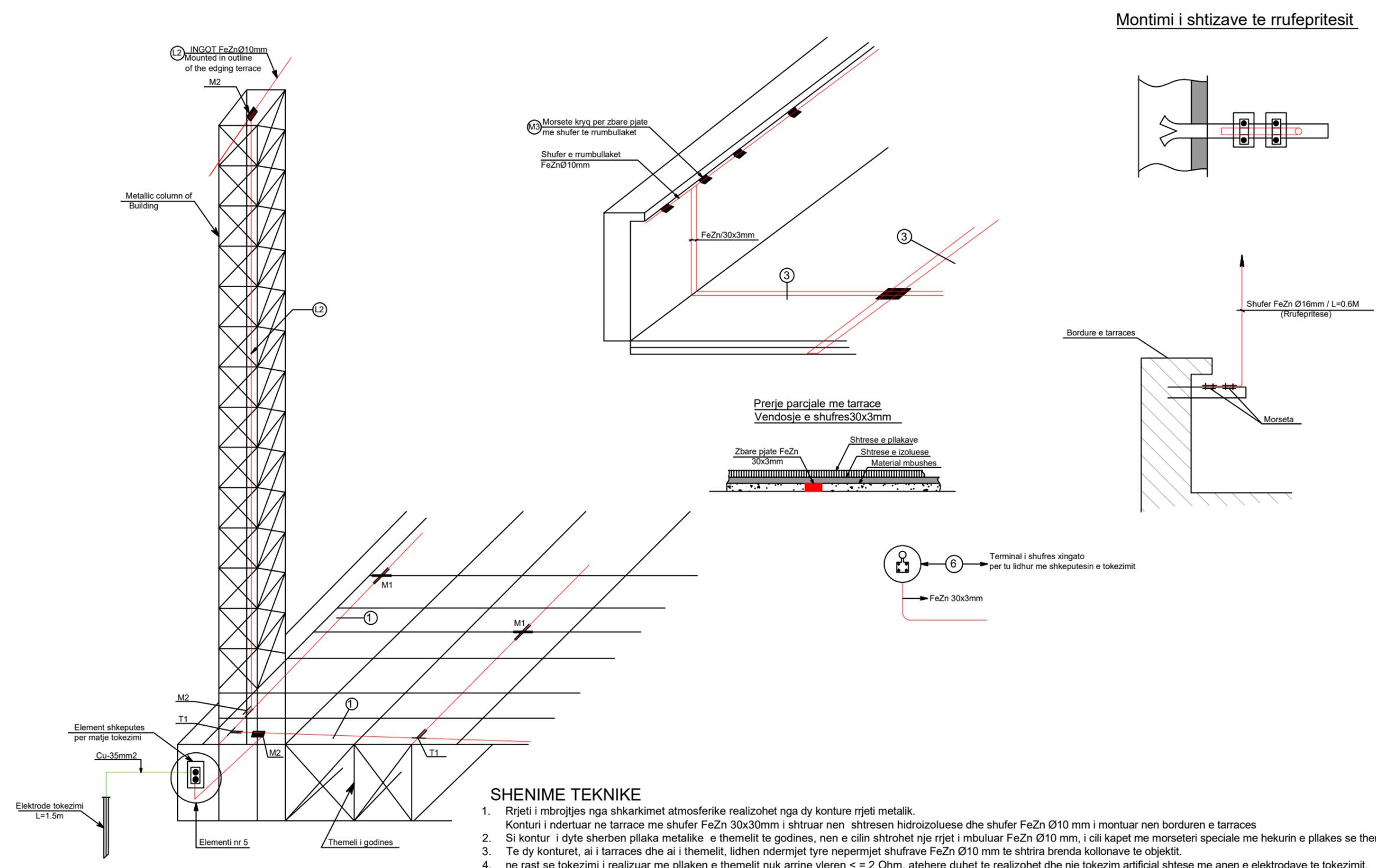
TE GJITHA DIMENSIONET DUHET TE VERIFIKOHEN  
 TË GJITHA DIMENSIONET DUHET TE VERIFIKOHEN

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# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

PARKING PLAN AT QUOTE -3.30. DETAILS OF GROUNDING INSTALLATION / PLAN I PARKIMIT NE KUOTEN -3.30. DETAJE TE INSTALIMIT TE TOKEZIMIT

Legenda/Legend:



## SHENIME TEKNIKE

- Rrjeti i mbrojtjes nga shkarkimet atmosferike realizohet nga dy konture rrjeti metalik. Konturi i ndertuar ne terrace me shufer FeZn 30x30mm i shtruar nen shtresen hidroizoluese dhe shufer FeZn Ø10 mm i montuar nen borduren e terraces
- Si kontur i dyte sherben pllaka metalike e themelit te godines, nen e cilen shtrohet nje rrjet i mbuluar FeZn Ø10 mm, i cili kapet me morseteri speciale me hekurin e pllakes se themelit.
- Te dy konturet, ai i terraces dhe ai i themelit, lidhen ndermjet tyre nepermjet shufrave FeZn Ø10 mm te shtrira brenda kollonave te objektit.
- ne rast se tokezimi i realizuar me pllaken e themelit nuk arrine vleren  $\leq 2$  Ohm, atehere duhet te realizohet dhe nje tokezim artificial shtese me anen e elektrodave te tokezimit.

## DECNICAL NOTES

- The protection network from atmospheric discharges is made of two metal mesh contours. The contour built on the terrace with 30x30mm FeZn rods laid under the waterproofing layer and Ø10 mm FeZn rods mounted under the terrace edge
- The second contour is the metal plate of the building foundation, under which a covered FeZn Ø10 mm mesh is laid, which is clamped with special clamps to the iron of the foundation plate.
- The two contours, that of the terrace and that of the foundation, are connected to each other through Ø10 mm FeZn rods laid inside the columns of the building.
- If the grounding achieved with the foundation plate does not reach the value  $\leq 2$  Ohm, then an additional artificial grounding must be performed using grounding electrodes.

- M1-Morsele universale Ø10/Ø10
- T2-Morsele "T" Ø10/Ø10
- M2-Morsele paralele Ø10/Ø10
- M3-Morsele shirit pllake + shufer Ø10
- M4-Morsele shirit shirit

Notes:

Objekti / Object:  
 "Ndërtim i godinës së parkimit nëntokësor ,Vlorë"  
 "Construction of the underground parking building , Vlorë"

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

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TE GJITHA DIMENSIONET DUHET TE VERIFIKOHEN  
 NEKA KONSTRUKSIONET NE VLERE

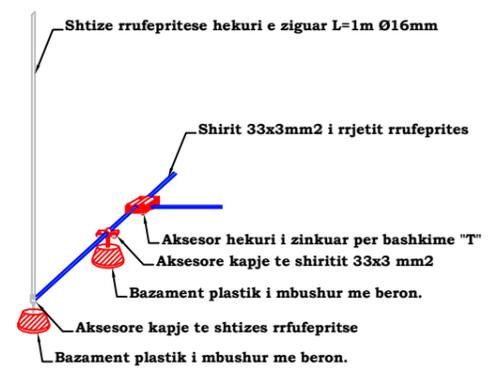
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 E 18 ELECTRICAL INSTALATION/ INSTALIMET ELEKTRIKE

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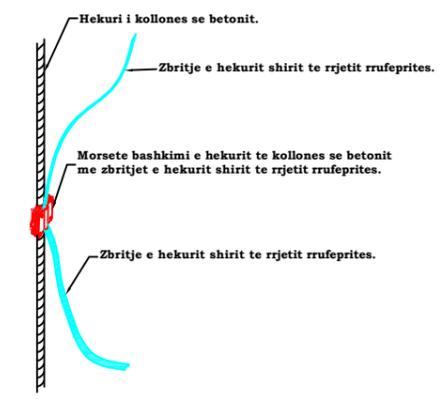
# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

PARKING PLAN AT QUOTE -3.30. DETAILS OF GROUNDING INSTALLATION / PLAN I PARKIMIT NE KUOTEN -3.30. DETAJE TE INSTALIMIT TE TOKEZIMIT

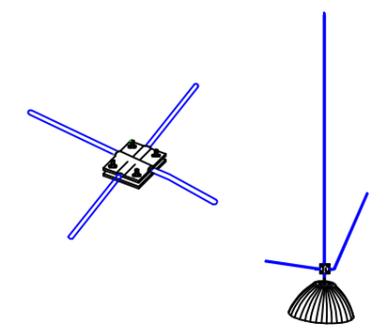
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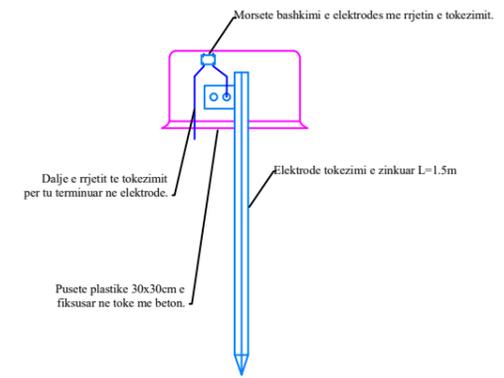
## DETAJI#3



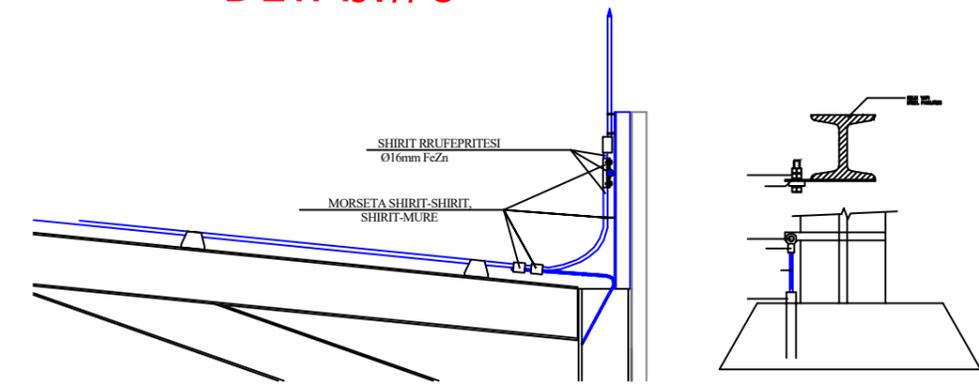
## DETAJI#7



## DETAJI#2



## DETAJI#6



### KUSHTET TEKNIKE PËR RRUFEPRITËSAT DHE TOKZIMIN

- Shiritat që vendosen në terracë mund të mbështeten në dyshe me kusht që kjo e fundit të jetë me llustër çimentoje. Nuk lejohet që shiritat e rrufepritesave të mbështeten mbi materiale që nuk i rezistojne nxehtësise.
- Shiritat mbi terracë mund të mbuloohen me shtresë pllakash ose llustër çimentoje në mënyrë që terraca të bëhet e shfrytëzueshme.
- Shiritat e zbritjes (kalatat) për në sistemin e tokëzimit mund të mbuloohen me suvatimin e fasadës me kusht që morseta ndarëse (7) për matjen e tokëzimit të jetë jashtë suvatimit (si në figurë).
- Zbritja nga morseta ndarëse deri në tokë duhet të jetë e mbuluar me tub zingato për të mbrojtur përcjellesit nga goditjet mekanike.
- Shtizat e rrufepritesave vendosen sic eshte paraqitur ne projekt. Maja e shtizës duhet të jetë jo më pak se 0.5 metër nga kuota maksimale e oxhakut.
- Tokëzimi i përsëritur i objektit mund të lidhet me tokëzimin e rrufepritesit.
- Rezistenca e tokëzimit të rrufepritesit të tokëzimit duhet të jete:  $R_t < 4 \Omega$  në kohë të thatë. Nese kjo rezistence nuk arrihet dunet bere tokzim shtese per te kapur vleren.
- Morsetat bashkuese universale shërbejnë për bashkimin e shiritave të zinguar (30x3) mm, po ashtu dhe për bashkimin e shiritit të zinguar në përcjellesin e bakrit që ka seksion rethor.
- Rekomandohet që kudo ku bëjmë bashkime me morseta, si në sistemin e rrufembledhësit dhe në atë të tokëzimit, morseteria të lyhet me vazelinë teknike, në mungesë të saj me graso.
- Rekomandohet që elektrodën e tokëzimit të largohen nga themelet në distancën  $d > 5$  meter për arsye të thjeshtë se anët e ndertesës në themele mbushen me materiale që kanë rezitencë specifike të madhe.
- Në qoftë se nuk arrihet rezistenca e kërkuar e tokëzimit atëherë duhet të shtohet numri i elektrodave të tokëzimit.
- Nuk lejohet që shiriti i zinguar për çfarëdo arsye të shpohet me trapano ose të saldohet, mbasi ky vend bëhet burim për oksidim.
- Morsetat që perdoren per fiksimin e shiritit te zinguar ne faqet e mureve per kalatat si dhe ne cati per fiksimin e rrjetes se rrufepritesin duhen te jene large njera nga tjetra 1 deri 1.5 m.
- Objektet që dalin mbi sipërfaqen e terraces duhen mbuluar nga rrjeta e rrufepritesit, si dhe gjatesia e shtizes që vendoset në pikat me të lartat të catit nuk duhet të jete me e vogel se 0.5 nga niveli i rrjetes se zinguar.

### 1. TECHNICAL CONDITIONS FOR LIGHTNING INTERRUPTIONS AND EARTHING

1. The strips placed on the terrace can be supported on the floor provided that the latter is with cement screed. It is not allowed for the lightning arrester strips to be supported on materials that are not heat-resistant.
2. The strips on the terrace can be covered with a layer of tiles or cement screed so that the terrace becomes usable.
3. The descent strips (bridges) to the grounding system can be covered with the plastering of the facade provided that the separating clamp (7) for measuring the grounding is outside the plastering (as in the figure).
4. The descent from the separating clamp to the ground must be covered with a galvanized pipe to protect the conductors from mechanical shocks.
5. The lightning arrester rods are placed as shown in the project. The tip of the pole must be no less than 0.5 meters from the maximum height of the chimney.
6. The repeated grounding of the object can be connected to the grounding of the lightning rod.
7. The grounding resistance of the grounding lightning rod should be:  $R_t < 4 \Omega$  in dry weather. If this resistance is not achieved, additional grounding should be made to achieve the value.
8. Universal connecting clamps serve for connecting galvanized strips (30x3) mm, as well as for connecting galvanized strips to copper conductors with a circular section.
9. It is recommended that wherever we make connections with clamps, both in the lightning rod system and in the grounding system, the clamps be coated with technical petroleum jelly, in its absence with grease.
10. It is recommended that the grounding electrodes be removed from the foundations at a distance  $d > 5$  meters for the simple reason that the sides of the building in the foundations are filled with materials that have a high specific resistance.
11. If the required grounding resistance is not achieved, the number of grounding electrodes must be increased.
12. It is not allowed to drill or weld the galvanized strip for any reason, since this place becomes a source of oxidation.
13. The clamps used to fix the galvanized strip to the sides of the walls for piers and on the roof for fixing the lightning rod must be 1 to 1.5 m apart.
14. Objects protruding above the surface of the terrace must be covered by the lightning rod, and the length of the pole placed at the highest points of the roof must not be less than 0.5 of the level of the galvanized rod.

Legenda/Legend:

Notes:

Objekti / Object:  
"Ndërtim i godinës së parkimit nëntokësor ,Vlorë "  
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Inzhineri Ndërtim/ Structural Engineer  
Lorenç Dega  
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Inzhineri Elektrik/ Electrical Engineer  
Ogjet Dhealaj  
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Inzhineri Mekanik/ Mechanical Engineer  
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MQZ/ Via Prishtine  
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Inzhineri Hidraulik/ Hydraulical Engineer  
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NEGA KONSTRUKTORIN NE SHPIR  
NEGA KONSTRUKTORIN NE SHPIR

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REF. SWITCHBOARD	[Q0]	1	2	3	4	5	6	7	8	9
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PURCHASER  
**CONSTRUCTION OF THE UNDERGROUND  
PARKING BUILDING , VLORA**

ORDER

SWITCHBOARD  
**PANELI KRYESOR**

**SWITCHBOARD CHARACTERISICS**

UPSTREAM PLANT			
VOLTAGE [V]	400	FREQ. [Hz]	50
SWITCHBOARD RATED CURRENT [A]			
SWITCHBOARD PERSPECTIVE CURRENT [kA]			9.9
NEUTRAL SYSTEM			TNS
BUSBAR SIZE			
In [A]	Icc [kA]		
STRUCTURE			METALLICA
INSULATION CLASS			IP

**REFERENCE STANDARD**

MOULDED CASE CIRCUIT BREAKERS	<input checked="" type="checkbox"/>	CEI EN 60947-2
MINIATURE CIRCUIT BREAKERS	<input type="checkbox"/>	CEI EN 60947-2
	<input type="checkbox"/>	CEI EN 60898
STRUCTURE	<input checked="" type="checkbox"/>	CEI EN 60439-1
	<input type="checkbox"/>	CEI 23-48
		CEI 23-49
		CEI 23-51

PANELI ELEKTRIK	CUSTOMER	ALBANIAN DEVELOPMENT FUND	PROJECT	ELECTRICAL PANELS	FILE	PARKIMI VLORE 2 [Q00].dwg
			ARCHIVE	-	DATE	REVISION R0.0
	PLANT	ELECTRICAL PANEL	DESIGNER	ING. OLGERT DHESKALI	PAGE	1 NEXT
				TABLE		

Notes:

Objekti / Object:  
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M2D/ Free Profession  
Erjen Dreshi  
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Inzhineri Hidroteknik/ Hydrotechnical Engineer  
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TE GJITHA DIMENSIONET DUKEN TE VERIFIKOHEN  
NËKA KONSTRUKTORIË NË VËRE  
ARCHISPAC BFM  
The responsibility is shared in each project. The client and the contractor are responsible for the design and the construction of the project. The contractor is responsible for the construction of the project. The contractor is responsible for the construction of the project. The contractor is responsible for the construction of the project.

# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

## ELECTRICAL PANELS / PANELET ELEKTRIKE

REF. SWITCHBOARD	[Q0]	1	2	3	4	5	6	7	8	9	
<b>SYMBOLS</b>											
CIRCUIT BREAKER	DISCONNECTOR	SWITCH-DISCONNECTOR	THERMAL PROTECTION	MAGNETIC PROTECTION	RESIDUAL CURRENT PROTECTION	OVERLOAD CUT OUT	FUSE	TOROID	MANUAL CONTROL		
AUTOMATIC CONTROL	TRIP FREE	ROTARY HANDLE	INTERLOCK	REMOVABLE/WITHDRAWAL EQUIPMENT	KEYLOCK OFF POSITION	KEYLOCK ON POSITION	AUXILIARY CONTACT	UNDERVOLTAGE RELEASE	SHUNT RELEASE		
CHANGE OVER SWITCH (FOR MEASUREMENT)	AMMETER	VOLTMETER	FREQUENCY METER	METER	NO CONTACTS CONTACTOR	MANUAL CONTROL CONTACTOR	NC CONTACTS CONTACTOR	IMPULSE RELAY	CLOCK		
TWILIGHT SWITCH	ASTRONOMIC CLOCK	UNINTERRUPTED POWER SYSTEM (UPS)	SOCKET	INTERLOCKED SOCKET WITH FUSES	SOFT STARTER	VARIABLE SPEED DRIVE	STAR DELTA STARTER	TRANSFORMER	SURGE PROTECTIVE DEVICE		
<b>PANELI ELEKTRIK</b>		CUSTOMER ALBANIAN DEVELOPMENT FUND			PROJECT ELECTRICAL PANELS	FILE PARKIMI VLORE 2 [Q00].dwg					
		PLANT ELECTRICAL PANEL			ARCHIVE -	DATE	REVISION R0.0				
					DESIGNER ING. OLGERT DHESKALI	PAGE 1a	NEXT				
					TABLE						

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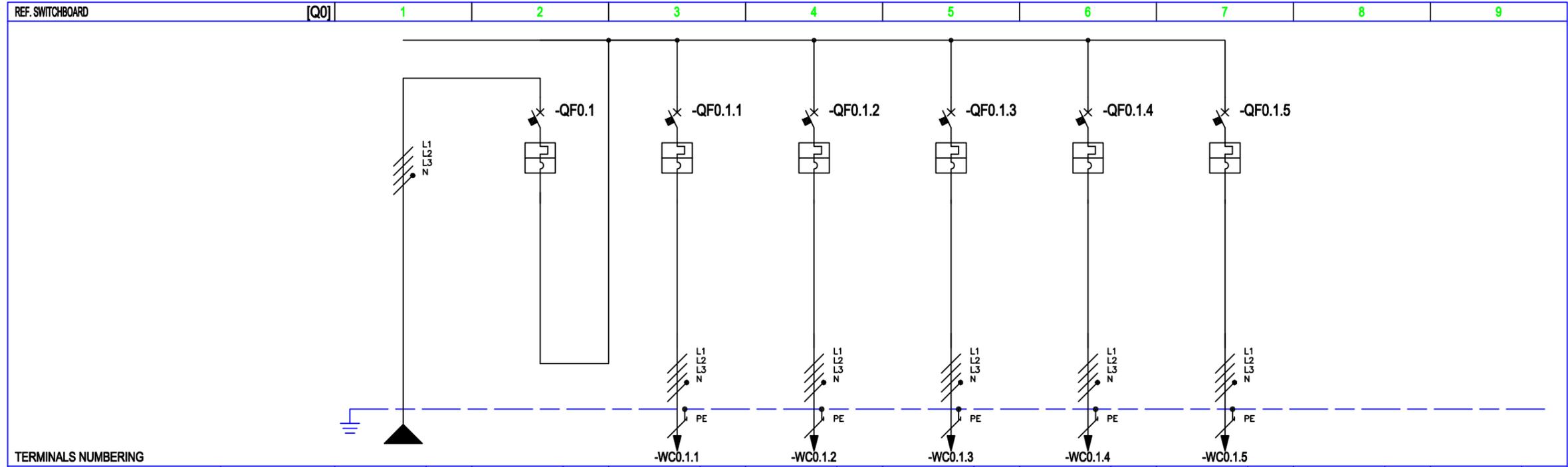
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# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

## ELECTRICAL PANELS / PANELET ELEKTRIKE

Legenda/Legend:



REF. SWITCHBOARD	[Q0]	1	2	3	4	5	6	7	8	9									
TERMINALS NUMBERING																			
CIRCUIT NUMBERING	DISTRIBUTION	L1L2L3NPE	1	L1L2L3NPE	2	L1L2L3NPE	3	L1L2L3NPE	4	L1L2L3NPE	5	L1L2L3NPE	6	L1L2L3NPE					
CIRCUIT DESCRIPTION		1	1	AMBIENTE TEKNIKE	KARIKIMI MAKINAVE	AMBIENTE SHERBIMI	NDRICIMI JASHEM	NDRICIMI PARKIMI -1											
EQUIPMENT			NSX250 B	C120 N	C120 N	iC40 N	iC40 N	iC40 N											
CIRCUIT BREAKER	Icu [kA] / Icn [A]		25	10	10	10	10	10											
	N. POLES	In [A]	4P	250	4P	100	4P	80	3P+N	32	3P+N	25	3P+N	32					
	COURBE/TRIPPING UNIT			TM-D	C	C	C	C	C										
	Ir [A]	tr [s]		250	100	80	32	25	32										
	I <sub>sd</sub> [A]	tsd [s]		2500	1000	800	320	250	320										
	Ii [A]																		
RESIDUAL CURRENT DEVICE	TYPE	CLASSE																	
	I <sub>dn</sub> [A]	tdn [ms]																	
CONTACTOR	TYPE	CLASSE																	
IMPULSE RELAY	COIL	N. POLES	In [A]																
THERMAL RELAY	TYPE	I <sub>rth</sub> [A]																	
FUSE	N. POLES	In [A]																	
OTHER	TYPE	MODEL																	
CONDUCTORS	INSULATION	INST.METHOD	EPR	13	EPR	13	EPR	13	EPR	13	EPR	13	EPR	13					
	CROSS SECTION PHASE-N-PE/PEN [mm <sup>2</sup> ]			1x95	1x95	1x50	1x50	1x50	1x35	1x35	1x16	1x10	1x10	1x10	1x10	1x10	1x10	1x10	
	I <sub>b</sub> [A]	I <sub>z</sub> [A]																	
	Un [V]	Pn [kW]			137.2														
BOTTOM OF THE LINE	I <sub>cc</sub> min [kA]	I <sub>cc</sub> max [kA]	8.01	9.9															
	LENGHT [m]	dV TOTAL [%]	1	0															
NOTES			FG16R16-0,6/1 kV Cca-s3,d1,a3		FG16R16-0,6/1 kV Cca-s3,d1,a3		FG16R16-0,6/1 kV Cca-s3,d1,a3		FG16R16-0,6/1 kV Cca-s3,d1,a3		FG16R16-0,6/1 kV Cca-s3,d1,a3		FG16R16-0,6/1 kV Cca-s3,d1,a3						

PANELI ELEKTRIK	CUSTOMERS	ALBANIAN DEVELOPMENT FUND	PROJECT	ELECTRICAL PANELS	FILE	PARKIMI VLORE 2 [Q00].dwg
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			DESIGNER	ING. OLGERT DHESKALI	PAGE	3 NEXT
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REF. SWITCHBOARD	[Q1]	1	2	3	4	5	6	7	8	9																																																									
<p>PURCHASER</p> <h1 style="text-align: center;">CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA</h1> <p>ORDER</p> <p style="text-align: center;">SWITCHBOARD</p> <h2 style="text-align: center;">PANELI AMBIENTEVE TEKNIKE</h2>						<p style="text-align: center;"><b>SWITCHBOARD CHARACTERISICS</b></p> <hr/> <p>UPSTREAM PLANT [Q0]</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>VOLTAGE [V]</td> <td style="text-align: center;">400</td> <td>FREQ. [Hz]</td> <td style="text-align: center;">50</td> </tr> <tr> <td colspan="4">SWITCHBOARD RATED CURRENT [A]</td> </tr> <tr> <td>SWITCHBOARD PERSPECTIVE CURRENT [kA]</td> <td colspan="3" style="text-align: right;">9.7</td> </tr> <tr> <td colspan="4">NEUTRAL SYSTEM</td> </tr> <tr> <td colspan="4" style="text-align: right;">TNS</td> </tr> <tr> <td colspan="4">BUSBAR SIZE</td> </tr> <tr> <td>In [A]</td> <td colspan="3" style="text-align: right;">Icc [kA]</td> </tr> <tr> <td colspan="3">STRUCTURE</td> <td style="text-align: right;">METALLICA</td> </tr> <tr> <td colspan="3">INSULATION CLASS</td> <td style="text-align: right;">IP</td> </tr> </table> <hr/> <p>REFERENCE STANDARD</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>MOULDED CASE CIRCUIT BREAKERS</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>— CEI EN 60947-2</td> </tr> <tr> <td>MINIATURE CIRCUIT BREAKERS</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>— CEI EN 60947-2</td> </tr> <tr> <td></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>— CEI EN 60898</td> </tr> <tr> <td>STRUCTURE</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>— CEI EN 60439-1</td> </tr> <tr> <td></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>— CEI 23-48</td> </tr> <tr> <td></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>— CEI 23-49</td> </tr> <tr> <td></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>— CEI 23-51</td> </tr> </table>					VOLTAGE [V]	400	FREQ. [Hz]	50	SWITCHBOARD RATED CURRENT [A]				SWITCHBOARD PERSPECTIVE CURRENT [kA]	9.7			NEUTRAL SYSTEM				TNS				BUSBAR SIZE				In [A]	Icc [kA]			STRUCTURE			METALLICA	INSULATION CLASS			IP	MOULDED CASE CIRCUIT BREAKERS	<input checked="" type="checkbox"/>	— CEI EN 60947-2	MINIATURE CIRCUIT BREAKERS	<input type="checkbox"/>	— CEI EN 60947-2		<input type="checkbox"/>	— CEI EN 60898	STRUCTURE	<input checked="" type="checkbox"/>	— CEI EN 60439-1		<input type="checkbox"/>	— CEI 23-48		<input type="checkbox"/>	— CEI 23-49		<input type="checkbox"/>	— CEI 23-51
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	PLANT	ELECTRICAL PANEL	DESIGNER	ING. OLGERT DHESKALI	PAGE	1	NEXT																																																												
					TABLE																																																														

Notes:

Objekti / Object:  
"Ndërtim i godinës së parkimit nëntokësor ,Vlorë "  
"Construction of the underground parking building , Vlora"

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

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Inzhineri Ndërtimor/ Structural Engineer  
Dhimitër Papa  
Firma/ Signature:  
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Inzhineri Elektrik/ Electrical Engineer  
Olgeri Dheskali  
Firma/ Signature:  
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Inzhineri Mekanik/ Mechanical Engineer  
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M2D/ Fine Protection  
Erjon Dreshi  
Firma/ Signature:  
Kontrolluar dhe aprovuar/ Read and approve

Inzhineri Hidroteknik/ Hydrotechnical Engineer  
Firma/ Signature:  
Kontrolluar dhe aprovuar/ Read and approve

# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

## ELECTRICAL PANELS / PANELET ELEKTRIKE

REF. SWITCHBOARD	[Q1]	1	2	3	4	5	6	7	8	9	
<b>SYMBOLS</b>											
CIRCUIT BREAKER	DISCONNECTOR	SWITCH-DISCONNECTOR	THERMAL PROTECTION	MAGNETIC PROTECTION	RESIDUAL CURRENT PROTECTION	OVERLOAD CUT OUT	FUSE	TOROID	MANUAL CONTROL		
AUTOMATIC CONTROL	TRIP FREE	ROTARY HANDLE	INTERLOCK	REMOVABLE/WITHDRAWAL EQUIPMENT	KEYLOCK OFF POSITION	KEYLOCK ON POSITION	AUXILIARY CONTACT	UNDERVOLTAGE RELEASE	SHUNT RELEASE		
CHANGE OVER SWITCH (FOR MEASUREMENT)	AMMETER	VOLTMETER	FREQUENCY METER	METER	NO CONTACTS CONTACTOR	MANUAL CONTROL CONTACTOR	NC CONTACTS CONTACTOR	IMPULSE RELAY	CLOCK		
TWILIGHT SWITCH	ASTRONOMIC CLOCK	UNINTERRUPTED POWER SYSTEM (UPS)	SOCKET	INTERLOCKED SOCKET WITH FUSES	SOFT STARTER	VARIABLE SPEED DRIVE	STAR DELTA STARTER	TRANSFORMER	SURGE PROTECTIVE DEVICE		
<b>PANELI ELEKTRIK</b>		<b>CUSTOMER</b> ALBANIAN DEVELOPMENT FUND				<b>PROJECT</b> ELECTRICAL PANELS		<b>FILE</b> PARKIMI VLORE 2 [Q01].dwg			
						<b>ARCHIVE</b> -		<b>DATE</b>		<b>REVISION</b> R0.0	
		<b>PLANT</b> ELECTRICAL PANEL				<b>DESIGNER</b> ING. OLGERT DHESKALI		<b>PAGE</b> 1a		<b>NEXT</b>	

Legenda/Legend:

Notes:

Objekti / Object:  
 "Ndërtim i godinës së parkimit nëntokësor ,Vlorë"  
 "Construction of the underground parking building , Vlorë"

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

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TE GJITHA DIMENSIONET DUHET TE VERIFIKOHEN  
 NGA KONSTRUKTORIN E VEPRIMEN

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# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

ELECTRICAL PANELS / PANELET ELEKTRIKE

REF. SWITCHBOARD	[Q1]	1	2	3	4	5	6	7	8	9
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## NOTES

For the correct interpretation of the drawings a joint reading of all the project documents is required.  
 The technical characteristics defined in the drawings shall be the minimum required.  
 The voltage drops are always calculated from the start of the LV network.  
 The line current of the UPS takes into account the battery charger function.  
 The current project has being dimensioned and documented according the following reference standards:

- CEI 64-8
- CEI 0-21

Features of Micrologic control units:

- Micrologic 2.x: LI protection
- Micrologic 5.x: LSI protection
- Micrologic 6.x: LSIG protection
- Micrologic 7.x: LSIV protection
- Micrologic E: measurement of I, V, P, E, PF
- Micrologic H measurement of I, V, P, E, f, PF, Harmonics, THD

PANELI ELEKTRIK	CUSTOMER	ALBANIAN DEVELOPMENT FUND	PROJECT	ELECTRICAL PANELS	FILE	PARKIMI VLORE 2 [Q01].dwg
			ARCHIVE	-	DATE	REVISION R0.0
	PLANT	ELECTRICAL PANEL	DESIGNER	ING. OLGERT DHESKALI	PAGE	2 NEXT
			TABLE			

Legenda/Legend:

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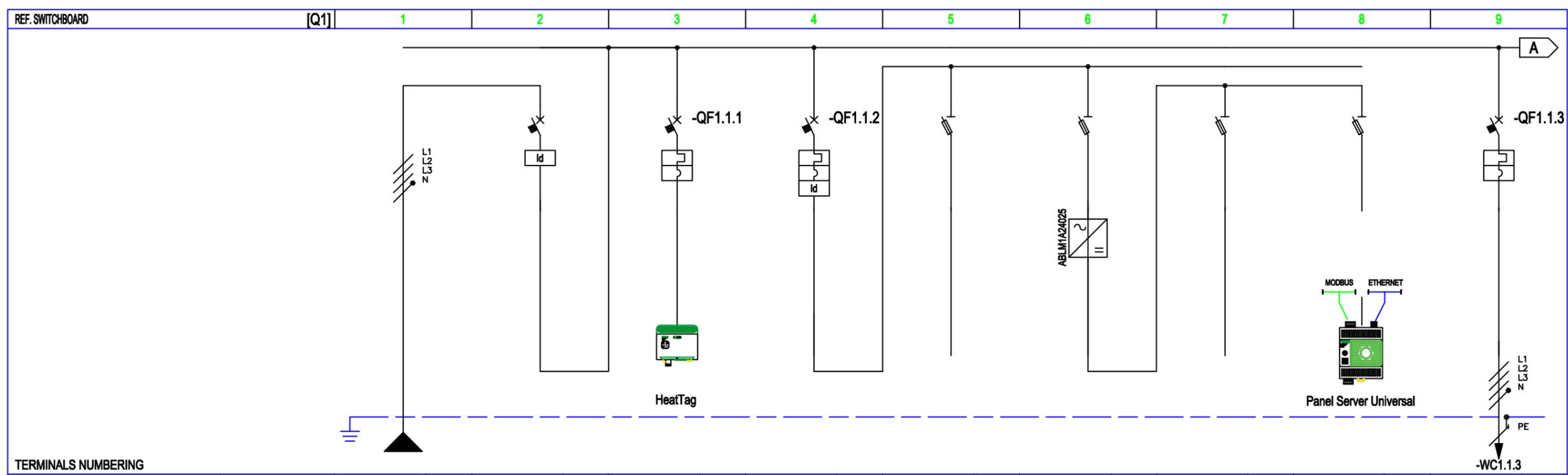
 Studio Lokale Arkitekture Local Architecture Office Arkitekti/Architect Flora Petre Inxhinier Ndërtimor/Structural Engineer Lorena Ruge Inxhinier Elektrik/Electrical Engineer Eduart Shumë SHQZ Për Projektim Flora Petre	N.6732/14	Firma/Signature: Kontrolluar dhe aprovuar/Read and approve
 Studio Lokale Arkitekture Local Architecture Office Arkitekti/Architect Gent Agaj	N.6844/3	Firma/Signature: Kontrolluar dhe aprovuar/Read and approve
 Studio Lokale Arkitekture Local Architecture Office Inxhinier Hidroteknik/Hydraulic Engineer Alban Topa	N.4651/14	Firma/Signature: Kontrolluar dhe aprovuar/Read and approve
Inxhinier Ndërtimor/Structural Engineer Dhimitër Papa		Firma/Signature: Kontrolluar dhe aprovuar/Read and approve
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SHQZ Për Projektim Erjon Dheskali		Firma/Signature: Kontrolluar dhe aprovuar/Read and approve
Inxhinier Hidroteknik/Hydraulic Engineer		Firma/Signature: Kontrolluar dhe aprovuar/Read and approve

TE GJITHA DIMENSIONET DUKET TE VERIFIKOHEN  
 NGA KONTRAKTORIN E VEPRIT

kapitulli	numri:	ELECTRICAL INSTALATION/ INSTALIMET ELEKTRIKE	
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# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

## ELECTRICAL PANELS / PANELET ELEKTRIKE



TERMINALS NUMBERING		DISTRIBUTION		L1L2L3NPE	1	L1L2L3N	2	L3NPE	3	L3NPE	4	L3NPE	5	L3NPE	6	L3NPE	7	L3NPE	8	L1L2L3NPE	
CIRCUIT NUMBERING		DISTRIBUTION		KRYESORI	KRYESORI	2	3	4	5	6	7	8	ASHENSORI 1								
CIRCUIT DESCRIPTION		KRYESORI		KRYESORI	2	3	4	5	6	7	8	ASHENSORI 1									
EQUIPMENT		IID (4P)		iC60 N	iC40 N	STI 1P+N Fus NFC (10,3x38)	STI 1P+N Fus NFC (10,3x38)	DF10 2P (690Vac/dc)	DF10 2P (690Vac/dc)	iC40 N											
CIRCUIT BREAKER	lcu [kA] / lcn [A]			50	10													10			
	N. POLES	In [A]		100	2P	2	1P+N	10											3P+N	16	
	COURBE/TRIPPING UNIT				C	C													C		
	Ir [A]	tr [s]		2	6													16			
	Isd [A]	tsd [s]		20	60													160			
li [A]	tg [s]																				
RESIDUAL CURRENT DEVICE	TYPE	CLASS		iID (4P)	A	Vigi		AC													
	Idn [A]	tdn [ms]		0.03	Istantaneo	0.03	Istantaneo														
CONTACTOR	TYPE	CLASSE																			
IMPULSE RELAY	COIL	N. POLES		In [A]																	
THERMAL RELAY	TYPE	Irt [A]																			
FUSE	N. POLES	In [A]																			
OTHER	TYPE	MODEL																			
CONDUCTORS	INSULATION	INST.METHOD		EPR	13													EPR	13		
	CROSS SECTION PHASE-N-PE/PEN [mmq]			1x50	1x50	1x50													1x6	1x6	1x6
	Ib [A]	Iz [A]		85	107													9.6	58		
BOTTOM OF THE LINE	Un [V]	Pn [kW]		400	53													400	6		
	Icc min [kA]	Icc max [kA]		7.25	9.7													5.56	9		
	LENGHT [m]	dV TOTAL [%]		1	0.1													1	0.1		
NOTES		FG16R16-0,6/1 kV		Cca-s3,d1,a3														FG16R16-0,6/1 kV		Cca-s3,d1,a3	

PANELI ELEKTRIK	CUSTOMERS	ALBANIAN DEVELOPMENT FUND		PROJECT	ELECTRICAL PANELS	FILE	PARKIMI VLORE 2 [Q01].dwg
	PLANT	ELECTRICAL PANEL		ARCHIVE	-	DATE	REVISION R0.0
				DESIGNER	ING. OLGERT DHESKALI	PAGE	3
				TABLE			



Legenda/Legend:

Notes:

Objekti / Object:  
"Ndërtim i godinës së parkimit nëntokësor ,Vlorë "  
"Construction of the underground parking building , Vlorë"

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

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TE GJITHA DIMENSIONET DUHET TE VERIFIKOHEN  
TODI KONSTRUKTORI NË SHIJE

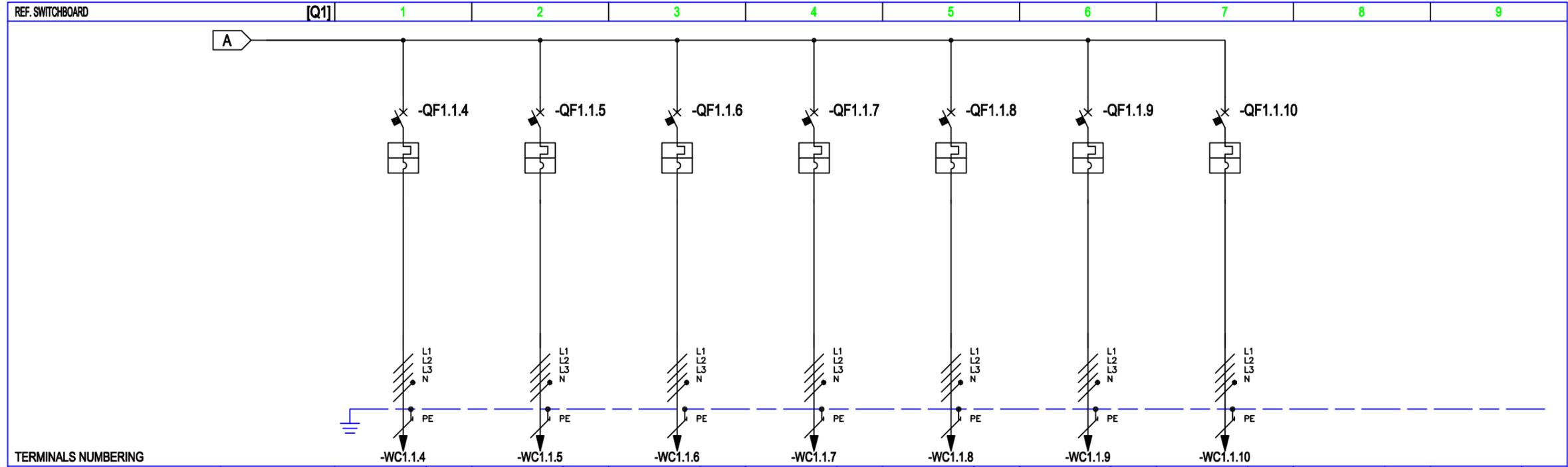
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E 27 ELECTRICAL INSTALATION/ INSTALIMET ELEKTRIKE

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# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

## ELECTRICAL PANELS / PANELET ELEKTRIKE

Legenda/Legend:



TERMINALS NUMBERING		-WC1.1.4		-WC1.1.5		-WC1.1.6		-WC1.1.7		-WC1.1.8		-WC1.1.9		-WC1.1.10													
CIRCUIT NUMBERING	DISTRIBUTION	9	L1L2L3NPE	10	L1L2L3NPE	11	L1L2L3NPE	12	L1L2L3NPE	13	L1L2L3NPE	14	L1L2L3NPE	15	L1L2L3NPE												
CIRCUIT DESCRIPTION		ASHENSORI 2		ASHENSORI 3		ASHENSORI 4		POMPA FU		POMPA MNZ		POMPE DRENAZHIMI		POMPE DRENAZHIMI													
EQUIPMENT		iC40 N		iC40 N		iC40 N		iC40 N		iC40 N		iC40 N		iC40 N													
CIRCUIT BREAKER	Icu [kA] / Icn [A]	10		10		10		10		10		10		10													
	N. POLES	3P+N		3P+N		3P+N		3P+N		3P+N		3P+N		3P+N													
	In [A]	16		16		16		16		20		16		16													
	COURBE/TRIPPING UNIT	C		C		C		C		C		C		C													
	Ir [A]	16		16		16		10		20		16		16													
	tsd [s]	160		160		160		100		200		160		160													
RESIDUAL CURRENT DEVICE	II [A]																										
	Ig [A]																										
	tg [s]																										
OTHER	TYPE	CLASSE																									
	Idn [A]	tdn [ms]																									
CONDUCTORS	INSULATION	INST.METHOD		EPR		EPR		EPR		EPR		EPR		EPR													
	CROSS SECTION PHASE-N-PE/PEN [mmq]	1x6	1x6	1x6	1x6	1x6	1x6	1x6	1x6	1x6	1x6	1x6	1x6	1x6	1x6	1x6											
BOTTOM OF THE LINE	Ib [A]	Iz [A]		9.6		58		9.6		58		8		58		11.2		58									
	Un [V]	Pn [kW]		400		6		400		6		400		5		400		10		7		400		7			
	Icc min [kA]	Icc max [kA]		5.56		9		5.56		9		5.56		9		5.56		9		5.56		9		5.56		9	
NOTES	LENGHT [m]	dV TOTAL [%]		1		0.1		1		0.1		1		0.1		1		0.1		1		0.1		1		0.1	
	FG16R16-0,6/1 kV		Cca-s3,d1,a3		FG16R16-0,6/1 kV		Cca-s3,d1,a3		FG16R16-0,6/1 kV		Cca-s3,d1,a3		FG16R16-0,6/1 kV		Cca-s3,d1,a3		FG16R16-0,6/1 kV		Cca-s3,d1,a3		FG16R16-0,6/1 kV		Cca-s3,d1,a3		FG16R16-0,6/1 kV		Cca-s3,d1,a3

PANELI ELEKTRIK	CUSTOMERS	ALBANIAN DEVELOPMENT FUND		PROJECT	ELECTRICAL PANELS		FILE	PARKIMI VLORE 2 [Q01].dwg	
	PLANT	ELECTRICAL PANEL		ARCHIVE	-		DATE	REVISION R0.0	
				DESIGNER	ING. OLGERT DHESKALI		PAGE	4 NEXT	
				TABLE					

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TE GJITHA DIMENSIONET DHE/TE VERIFIKOHEN  
 TË GJITHA DIMENSIONET DHE/TE VERIFIKOHEN  
 ALL DIMENSIONS MUST BE CHECKED

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REF. SWITCHBOARD [Q1]

### Sensore wireless HeatTag cod. SMT10020

Sensore intelligente per il rilevamento tempestivo del surriscaldamento dei collegamenti o dei cavi. HeatTag aiuta a prevenire il danneggiamento dei quadri elettrici, analizzando i gas e le particelle presenti nell'aria e segnalando il problema prima della generazione di fumo o dell'imbrunimento dell'isolante.

- Invio di tre livelli di avviso in base alla gravità della situazione rilevata. Quando HeatTag invia un avviso al Panel Server o gateway, il LED di funzionamento lampeggia in arancione.
- Prevenzione dei potenziali danni da incendio mediante analisi dei gas e delle microparticelle emessi dalle guaine dei cavi in caso di surriscaldamento.
- Misura di temperatura e umidità.
- Comunicazione con tutti i Panel Server o gateway EcoStruxure di Schneider Electric, integrazione nelle soluzioni EcoStruxure.

#### Avviso di rilevamento

HeatTag attiva un avviso quando rileva un riscaldamento anomalo della guaina dei cavi nel quadro elettrico, dovuto a una delle seguenti cause:

- Uno o più collegamenti allentati (resistenza di contatto troppo alta).
- Un cavo di dimensioni non corrette rispetto alla corrente nominale.
- Un sovraccarico non rilevato dall'apparecchiatura di protezione.

#### Gli avvisi vengono attivati con tre livelli di criticità:

- Livello basso: un cavo si sta surriscaldando lentamente; è necessario pianificare una visita di manutenzione dell'installazione.
- Livello medio: un cavo si sta surriscaldando, è necessario controllare rapidamente l'installazione.
- Livello alto: un cavo si sta surriscaldando rapidamente; è necessario controllare immediatamente l'installazione.

#### Inoltre HeatTag misura e monitora:

- Qualità dell'aria del quadro/zona di installazione che usa come riferimento per il rilevamento di anomalie sui collegamenti/cavi
- Temperatura e Umidità interna del Quadro
- E' dotato di Autodiagnostica interna di funzionamento, in caso di guasto interno o anomalia invia allarme a due livelli "minore" o "grave"

Nessuna batteria inclusa. HeatTag è alimentato con 110-277VAC (1P+N) e protetto da interruttore magnetotermico 2A curva C o Fusibile ad intervento rapido.

### Powerlogic HeatTag sensore per il rilevamento tempestivo del surriscaldamento dei cavi

Notes:

Objekti / Object:  
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Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

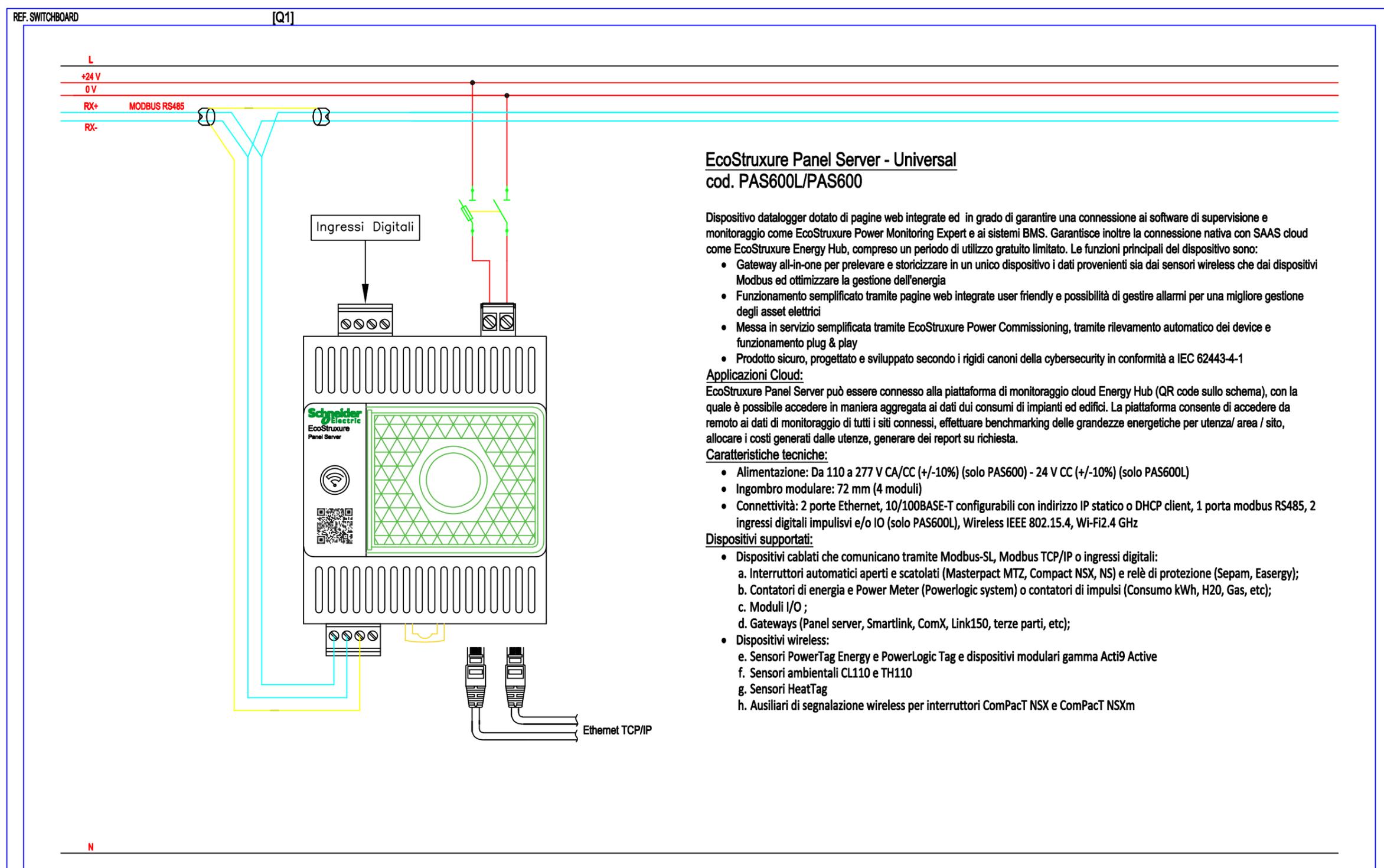
<b>ARCHISPACE</b> Studio Lokale Arkitekture LOCAL Architecture Office Arkitekti (Architect) Klasi Profesi Klasi Profesi Klasi Profesi Inzhinier Ndërtimor/ Structural Engineer Licensa Shqip Inzhinier Elektrik/ Electrical Engineer Edukim Shqip SHQZ Pika Profesione Fluxo Profesi	N.6732/14	Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
<b>IRI</b> Studio Lokale Arkitekture LOCAL Architecture Office Arkitekti (Architect) Gjeist Agjenti	N.6844/3	Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
<b>SPHAERA</b> Studio Lokale Arkitekture LOCAL Architecture Office Inzhinier Hidroteknik/ Hydrotechnical Engineer Ajetit Topar	N.4651/14	Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
Inzhinier Ndërtimor/ Structural Engineer Dhimitër Papa		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
Inzhinier Elektrik/ Electrical Engineer Ogjet Dheskali		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
Inzhinier Mekanik/ Mechanical Engineer		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
SHQZ Pika Profesione Erjon Dheskali		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
Inzhinier Hidroteknik/ Hydrotechnical Engineer		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve

PANELI ELEKTRIK	CUSTOMER	ALBANIAN DEVELOPMENT FUND	PROJECT	ELECTRICAL PANELS	FILE	PARKIMI VLORE 2 [Q01].dwg
			ARCHIVE	-	DATE	REVISION R0.0
	PLANT	ELECTRICAL PANEL	DESIGNER	ING. OLGERT DHEKALI	PAGE	5 NEXT
				TABLE		



TE GJITHA DIMENSIONET DUKET TE VERIFIKOHEN  
NËNA KONSTRUKTORIË NË SHQIPË  
ARCHISPACE SHQIPË  
Të gjitha dimensionet duken të verifikohen nën kontrollin e inzhinierit të strukturës dhe të inzhinierit të sipërfaqes së sipërme të objektit.  
All dimensions shown in this project shall be verified and approved by the structural engineer and the surface engineer respectively.  
Alle Dimensionen sind zu überprüfen und zu genehmigen durch den Tragwerksbauingenieur und den Oberflächenbauingenieur.  
All dimensions shall be checked and approved by the structural engineer and the surface engineer respectively.

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**EcoStruxure Panel Server - Universal**  
cod. PAS600L/PAS600

Dispositivo datalogger dotato di pagine web integrate ed in grado di garantire una connessione ai software di supervisione e monitoraggio come EcoStruxure Power Monitoring Expert e ai sistemi BMS. Garantisce inoltre la connessione nativa con SAAS cloud come EcoStruxure Energy Hub, compreso un periodo di utilizzo gratuito limitato. Le funzioni principali del dispositivo sono:

- Gateway all-in-one per prelevare e storicizzare in un unico dispositivo i dati provenienti sia dai sensori wireless che dai dispositivi Modbus ed ottimizzare la gestione dell'energia
- Funzionamento semplificato tramite pagine web integrate user friendly e possibilità di gestire allarmi per una migliore gestione degli asset elettrici
- Messa in servizio semplificata tramite EcoStruxure Power Commissioning, tramite rilevamento automatico dei device e funzionamento plug & play
- Prodotto sicuro, progettato e sviluppato secondo i rigidi canoni della cybersecurity in conformità a IEC 62443-4-1

**Applicazioni Cloud:**

EcoStruxure Panel Server può essere connesso alla piattaforma di monitoraggio cloud Energy Hub (QR code sullo schema), con la quale è possibile accedere in maniera aggregata ai dati dei consumi di impianti ed edifici. La piattaforma consente di accedere da remoto ai dati di monitoraggio di tutti i siti connessi, effettuare benchmarking delle grandezze energetiche per utenza/ area / sito, allocare i costi generati dalle utenze, generare dei report su richiesta.

**Caratteristiche tecniche:**

- Alimentazione: Da 110 a 277 V CA/CC (+/-10%) (solo PAS600) - 24 V CC (+/-10%) (solo PAS600L)
- Ingombro modulare: 72 mm (4 moduli)
- Connettività: 2 porte Ethernet, 10/100BASE-T configurabili con indirizzo IP statico o DHCP client, 1 porta modbus RS485, 2 ingressi digitali impulsivi e/o IO (solo PAS600L), Wireless IEEE 802.15.4, Wi-Fi2.4 GHz

**Dispositivi supportati:**

- Dispositivi cablati che comunicano tramite Modbus-SL, Modbus TCP/IP o ingressi digitali:
  - a. Interruttori automatici aperti e sciolati (Masterpact MTZ, Compact NSX, NS) e relè di protezione (Sepam, Easergy);
  - b. Contatori di energia e Power Meter (Powerlogic system) o contatori di impulsi (Consumo kWh, H2O, Gas, etc);
  - c. Moduli I/O ;
  - d. Gateways (Panel server, Smartlink, ComX, Link150, terze parti, etc);
- Dispositivi wireless:
  - e. Sensori PowerTag Energy e PowerLogic Tag e dispositivi modulari gamma Acti9 Active
  - f. Sensori ambientali CL110 e TH110
  - g. Sensori HeatTag
  - h. Ausiliari di segnalazione wireless per interruttori ComPact NSX e ComPact NSXm

Notes:

Objekti / Object:  
"Ndërtim i godinës së parkimit nëntokësor ,Vlorë "  
"Construction of the underground parking building , Vlora"

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

**ARCHISPACE**  
Studio Lokale Arkitekture  
LOCAL Architecture Office  
N.6732/14  
Firma/ Signature:  
Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
Studio Lokale Arkitekture  
LOCAL Architecture Office  
N.6844/3  
Firma/ Signature:  
Kontrolluar dhe aprovuar/ Read and approve

**SPHAERA**  
Studio Lokale Arkitekture  
LOCAL Architecture Office  
N.4651/14  
Firma/ Signature:  
Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
Studio Lokale Arkitekture  
LOCAL Architecture Office  
N.6732/14  
Firma/ Signature:  
Kontrolluar dhe aprovuar/ Read and approve

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Studio Lokale Arkitekture  
LOCAL Architecture Office  
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Firma/ Signature:  
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LOCAL Architecture Office  
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Firma/ Signature:  
Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
Studio Lokale Arkitekture  
LOCAL Architecture Office  
N.6732/14  
Firma/ Signature:  
Kontrolluar dhe aprovuar/ Read and approve

TE GJITHA DIMENSIONET DUHET TE VERIFIKOHEN  
NËKA KONSTRUKTORIË NË SHIRË

PANELI ELEKTRIK

CUSTOMER ALBANIAN DEVELOPMENT FUND  
PLANT ELECTRICAL PANEL

PROJECT ELECTRICAL PANELS  
ARCHIVE -  
DESIGNER ING. OLGERT DHESKALI

FILE PARKIMI VLORE 2 [Q01].dwg  
DATE  
REVISION R0.0  
PAGE 6  
NEXT  
TABLE



kapitulli numri:  
E 30 ELECTRICAL INSTALATION/ INSTALIMET ELEKTRIKE

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PT 1:300 A0

REF. SWITCHBOARD	[Q2]	1	2	3	4	5	6	7	8	9
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PURCHASER  
**CONSTRUCTION OF THE UNDERGROUND  
PARKING BUILDING , VLORA**

ORDER

SWITCHBOARD  
**PANELI KARIKIMIT TE MAKINAVE**

**SWITCHBOARD CHARACTERISICS**

UPSTREAM PLANT [Q0]			
VOLTAGE [V]	400	FREQ. [Hz]	50
SWITCHBOARD RATED CURRENT [A]			
SWITCHBOARD PERSPECTIVE CURRENT [kA]			9.8
NEUTRAL SYSTEM			TNS
BUSBAR SIZE			
In [A]	Icc [kA]		
STRUCTURE			METALLICA
INSULATION CLASS			IP

**REFERENCE STANDARD**

MOULDED CASE CIRCUIT BREAKERS	<input checked="" type="checkbox"/>	— CEI EN 60947-2
MINIATURE CIRCUIT BREAKERS	<input type="checkbox"/>	— CEI EN 60947-2
	<input type="checkbox"/>	— CEI EN 60898
STRUCTURE	<input checked="" type="checkbox"/>	— CEI EN 60439-1
	<input type="checkbox"/>	— CEI 23-48
		— CEI 23-49
		— CEI 23-51

PANELI ELEKTRIK	CUSTOMER	ALBANIAN DEVELOPMENT FUND	PROJECT	ELECTRICAL PANELS	FILE	PARKIMI VLORE 2 [Q02].dwg
			ARCHIVE	-	DATE	REVISION R0.0
	PLANT	ELECTRICAL PANEL	DESIGNER	ING. OLGERT DHESKALI	PAGE	1 NEXT
				TABLE		

Legenda/Legend:

Notes:

Objekti / Object:  
"Ndërtim i godinës së parkimit nëntokësor ,Vlorë "  
"Construction of the underground parking building , Vlora"

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

	Studio Lokale Arkitekture Local Architecture Office Arkitekti/Architect Riza Piro Brenda Jashari	N.6732/14	Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	Studio Lokale Arkitekture Local Architecture Office Arkitekti/Architect Odit Agaj	N.6844/3	Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve

	Studio Lokale Arkitekture Local Architecture Office Inzhineri Hidroteknik/ Hydrotechnical Engineer Xhavit Topi	N.4651/14	Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	Inzhineri Mekanik/ Mechanical Engineer Dhimitër Papa		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	Inzhineri Elektrik/ Electrical Engineer Ogjet Dheskali		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve

	Inzhineri Mekanik/ Mechanical Engineer		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	MD2 Pua Proektor Pajza Çuau		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	Inzhineri Hidroteknik/ Hydrotechnical Engineer		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve

TE GJITHA DIMENSIONET QANET TE VERIFIKOHEN  
TË GJITHA KONSTRUKTIVET TË SHIHEN  
ARCHISPAC SHIP  
Ky projekt është krijuar me softin AutoCAD dhe të gjitha dimensionet janë të saktë dhe të kontrolluara me kujdes nga inzhineri dhe arkitekti. Nëse ka ndryshime të dimensioneve të kësaj shprehjeje, ato duhet të jenë të saktë dhe të kontrolluara me kujdes nga inzhineri dhe arkitekti. Nëse ka ndryshime të dimensioneve të kësaj shprehjeje, ato duhet të jenë të saktë dhe të kontrolluara me kujdes nga inzhineri dhe arkitekti.

# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

## ELECTRICAL PANELS / PANELET ELEKTRIKE

REF. SWITCHBOARD	[Q2]	1	2	3	4	5	6	7	8	9	
<b>SYMBOLS</b>											
CIRCUIT BREAKER	DISCONNECTOR	SWITCH-DISCONNECTOR	THERMAL PROTECTION	MAGNETIC PROTECTION	RESIDUAL CURRENT PROTECTION	OVERLOAD CUT OUT	FUSE	TOROID	MANUAL CONTROL		
AUTOMATIC CONTROL	TRIP FREE	ROTARY HANDLE	INTERLOCK	REMOVABLE/WITHDRAWAL EQUIPMENT	KEYLOCK OFF POSITION	KEYLOCK ON POSITION	AUXILIARY CONTACT	UNDERVOLTAGE RELEASE	SHUNT RELEASE		
CHANGE OVER SWITCH (FOR MEASUREMENT)	AMMETER	VOLTMETER	FREQUENCY METER	METER	NO CONTACTS CONTACTOR	MANUAL CONTROL CONTACTOR	NC CONTACTS CONTACTOR	IMPULSE RELAY	CLOCK		
TWILIGHT SWITCH	ASTRONOMIC CLOCK	UNINTERRUPTED POWER SYSTEM (UPS)	SOCKET	INTERLOCKED SOCKET WITH FUSES	SOFT STARTER	VARIABLE SPEED DRIVE	STAR DELTA STARTER	TRANSFORMER	SURGE PROTECTIVE DEVICE		
<b>PANELI ELEKTRIK</b>		CUSTOMER ALBANIAN DEVELOPMENT FUND			PROJECT ELECTRICAL PANELS	FILE PARKIMI VLORE 2 [Q02].dwg					
		PLANT ELECTRICAL PANEL			ARCHIVE -	DATE	REVISION R0.0				
					DESIGNER ING. OLGERT DHESKALI	PAGE 1a	NEXT				
					TABLE						

Legenda/Legend:

Notes:

Objekti / Object:  
 "Ndërtim i godinës së parkimit nëntokësor ,Vlorë"  
 "Construction of the underground parking building , Vlorë"

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

**ARCHISPACE**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.6732/14  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.6844/3  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

**SPHAERA**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.4651/14  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

Inzhineri Ndërtimor/ Structural Engineer  
 Divizori Pajisjesh  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

Inzhineri Elektrik/ Electrical Engineer  
 Oqjet Dhe/Detail  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

Inzhineri Mekanik/ Mechanical Engineer  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

M22/ Faza Pajisjesh  
 Ekipi Dhe/Detail  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

Inzhineri Hidraulik/ Hydraulic Engineer  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

TE GJITHA DIMENSIONET DHE/ET TE VERIFIKOHEN  
 NGA KONSTRUKTORIN E VEPRIT

kapitulli numri:  
 E 32 ELECTRICAL INSTALATION/ INSTALIMET ELEKTRIKE

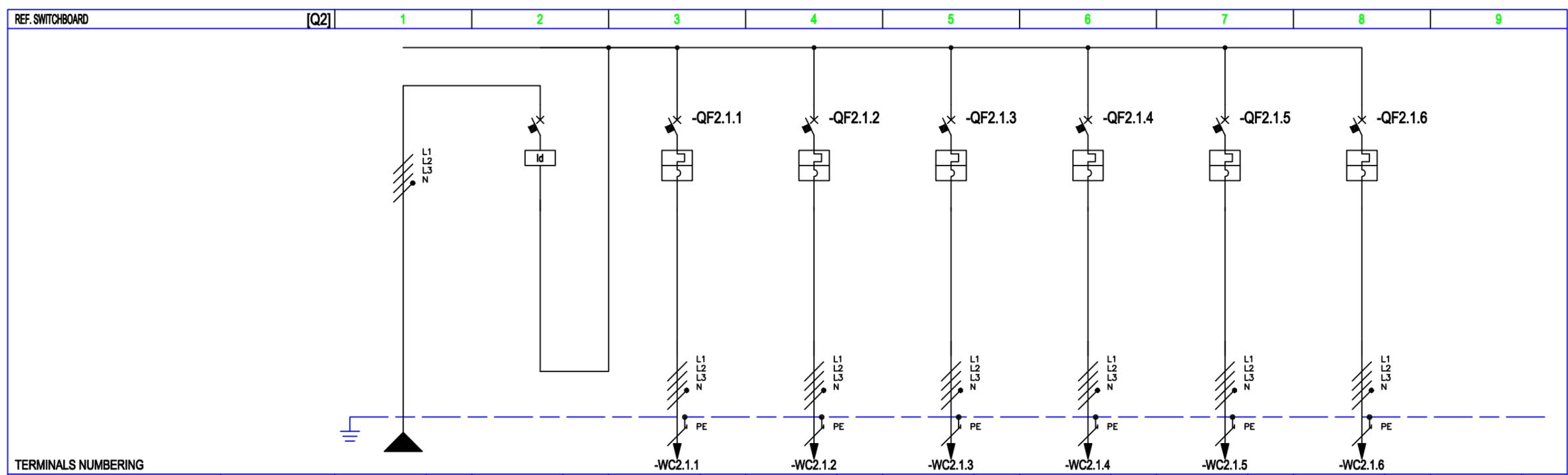
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# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

## ELECTRICAL PANELS / PANELET ELEKTRIKE

Legenda/Legend:



REF. SWITCHBOARD [Q2]		1	2	3	4	5	6	7	8	9		
TERMINALS NUMBERING		L1L2L3NPE		L1L2L3NPE		L1L2L3NPE		L1L2L3NPE		L1L2L3NPE		
CIRCUIT NUMBERING	DISTRIBUTION	1		2		3		4		5		
CIRCUIT DESCRIPTION		KRYESORI		KRYESORI		KARIKUESI 1		KARIKUESI 2		KARIKUESI 3		
EQUIPMENT		iID (4P)		iC40 N		iC40 N		iC40 N		iC40 N		
CIRCUIT BREAKER	lcu [kA] / lcn [A]			10		10		10		10		
	N. POLES	80		3P+N		3P+N		3P+N		3P+N		
	COURBE/TRIPPING UNIT			C		C		C		C		
	Ir [A]			16		16		16		16		
	Isd [A]			160		160		160		160		
RESIDUAL CURRENT DEVICE	TYPE	iID (4P)		A								
	Idn [A]	0.03		Istantaneo								
	tdn [ms]											
CONTACTOR	TYPE	CLASSE										
IMPULSE RELAY	COIL	N. POLES		In [A]								
THERMAL RELAY	TYPE	IrtH [A]										
FUSE	N. POLES	In [A]										
OTHER	TYPE	MODEL										
CONDUCTORS	INSULATION	INST.METHOD		EPR		13		EPR		13		
	CROSS SECTION PHASE-N-PE/PEN [mmq]	1x35	1x35	1x16	1x10	1x10	1x10	1x10	1x10	1x10	1x10	
	Ib [A]	Iz [A]		67.4		176		11.2		80		
BOTTOM OF THE LINE	Un [V]	Pn [kW]		400		42		400		7		
	Icc min [kA]	Icc max [kA]		7.63		9.8		6.5		9.4		
	LENGHT [m]	dV TOTAL [%]		1		0		1		0.1		
NOTES	FG16R16-0,6/1 kV Cca-s3,d1,a3		FG16R16-0,6/1 kV Cca-s3,d1,a3		FG16R16-0,6/1 kV Cca-s3,d1,a3		FG16R16-0,6/1 kV Cca-s3,d1,a3		FG16R16-0,6/1 kV Cca-s3,d1,a3		FG16R16-0,6/1 kV Cca-s3,d1,a3	

PANELI ELEKTRIK	CUSTOMERS	ALBANIAN DEVELOPMENT FUND		PROJECT	ELECTRICAL PANELS		FILE	PARKIMI VLORE 2 [Q02].dwg	
	PLANT	ELECTRICAL PANEL		ARCHIVE	-		DATE	REVISION R0.0	
				DESIGNER	ING. OLGERT DHESKALI		PAGE	3 NEXT	
				TABLE					

Notes:

Objekti / Object:  
 "Ndërtim i godinës së parkimit nëntokësor ,Vlorë"  
 "Construction of the underground parking building , Vlorë"

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

**ARCHISPAC**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.6732/14  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.6844/3  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

**SPHAERA**  
 Studio Lokale Arkitekture  
 Local Architecture Office  
 N.4651/14  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

**Hydroteknika**  
 Firms/Signature: Kontrolluar dhe aprovuar/ Read and approve

TE GJITHA DIMENSIONET DUHET TE VERIFIKOHEN  
 TË GJITHA DIMENSIONET DUHET TE VERIFIKOHEN  
 ALL DIMENSIONS MUST BE CHECKED

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REF. SWITCHBOARD	[Q3]	1	2	3	4	5	6	7	8	9
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PURCHASER  
**CONSTRUCTION OF THE UNDERGROUND  
 PARKING BUILDING , VLORA**

ORDER

SWITCHBOARD  
**PANELI AMBIENTE SHERBIMI**

**SWITCHBOARD CHARACTERISICS**

UPSTREAM PLANT [Q0]			
VOLTAGE [V]	400	FREQ. [Hz]	50
SWITCHBOARD RATED CURRENT [A]			
SWITCHBOARD PERSPECTIVE CURRENT [kA]			9.5
NEUTRAL SYSTEM			TNS
BUSBAR SIZE			
In [A]	Icc [kA]		
STRUCTURE			METALLICA
INSULATION CLASS			IP

**REFERENCE STANDARD**

MOULDED CASE CIRCUIT BREAKERS	<input checked="" type="checkbox"/>	— CEI EN 60947-2
MINIATURE CIRCUIT BREAKERS	<input type="checkbox"/>	— CEI EN 60947-2
	<input type="checkbox"/>	— CEI EN 60898
STRUCTURE	<input checked="" type="checkbox"/>	— CEI EN 60439-1
	<input type="checkbox"/>	— CEI 23-48
		— CEI 23-49
		— CEI 23-51

PANELI ELEKTRIK	CUSTOMER	ALBANIAN DEVELOPMENT FUND	PROJECT	ELECTRICAL PANELS	FILE	PARKIMI VLORE 2 [Q03].dwg
			ARCHIVE	-	DATE	REVISION R0.0
	PLANT	ELECTRICAL PANEL	DESIGNER	ING. OLGERT DHESKALI	PAGE	1 NEXT
				TABLE		

Notes:

Objekti / Object:  
 "Ndërtim i godinës së parkimit nëntokësor ,Vlorë "  
 "Construction of the underground parking building , Vlora"

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

	Studio Lokale Arkitekture Local Architecture Office	N.6732/14	Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	Studio Lokale Arkitekture Local Architecture Office	N.6844/3	Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	Studio Lokale Arkitekture Local Architecture Office	N.4651/14	Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	Inzhineri Ndërtimor/ Structural Engineer Dhimitër Papa		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	Inzhineri Elektrik/ Electrical Engineer Olgeri Dheskali		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	Inzhineri Mekanik/ Mechanical Engineer		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	M2D/ Fine Protection Erjon Dheskali		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve
	Inzhineri Hidroteknik/ Hydrotechnical Engineer		Firma/ Signature: Kontrolluar dhe aprovuar/ Read and approve

TE GJITHA DIMENSIONET DUHET TE VERIFIKOHEN  
 NGA KONSTRUKTORIN E VEPRIT

kapitulli	numri:	
E	35	ELECTRICAL INSTALATION/ INSTALIMET ELEKTRIKE
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# DESIGN SERVICES FOR THE PROJECT: "CONSTRUCTION OF THE UNDERGROUND PARKING BUILDING , VLORA"

## ELECTRICAL PANELS / PANELET ELEKTRIKE

REF. SWITCHBOARD	[Q3]	1	2	3	4	5	6	7	8	9	
<b>SYMBOLS</b>											
CIRCUIT BREAKER	DISCONNECTOR	SWITCH-DISCONNECTOR	THERMAL PROTECTION	MAGNETIC PROTECTION	RESIDUAL CURRENT PROTECTION	OVERLOAD CUT OUT	FUSE	TOROID	MANUAL CONTROL		
AUTOMATIC CONTROL	TRIP FREE	ROTARY HANDLE	INTERLOCK	REMOVABLE/WITHDRAWAL EQUIPMENT	KEYLOCK OFF POSITION	KEYLOCK ON POSITION	AUXILIARY CONTACT	UNDERVOLTAGE RELEASE	SHUNT RELEASE		
CHANGE OVER SWITCH (FOR MEASUREMENT)	AMMETER	VOLTMETER	FREQUENCY METER	METER	NO CONTACTS CONTACTOR	MANUAL CONTROL CONTACTOR	NC CONTACTS CONTACTOR	IMPULSE RELAY	CLOCK		
TWILIGHT SWITCH	ASTRONOMIC CLOCK	UNINTERRUPTED POWER SYSTEM (UPS)	SOCKET	INTERLOCKED SOCKET WITH FUSES	SOFT STARTER	VARIABLE SPEED DRIVE	STAR DELTA STARTER	TRANSFORMER	SURGE PROTECTIVE DEVICE		
<b>PANELI ELEKTRIK</b>		CUSTOMER ALBANIAN DEVELOPMENT FUND			PROJECT ELECTRICAL PANELS	FILE PARKIMI VLORE 2 [Q03].dwg					
		PLANT ELECTRICAL PANEL			ARCHIVE -	DATE	REVISION R0.0				
					DESIGNER ING. OLGERT DHESKALI	PAGE 1a	NEXT				
					TABLE						

Legenda/Legend:

Notes:

Objekti / Object: "Ndërtim i godinës së parkimit nëntokësor ,Vlorë " "Construction of the underground parking building , Vlorë "

Klienti: Fondi Shqiptar i Zhvillimit / Albanian Development Fund

**ARCHISPACE**  
Studio Lokale Arkitekture  
LOCAL Architecture Office  
Firma/Signature: N.6732/14  
Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
Studio Lokale Arkitekture  
LOCAL Architecture Office  
Firma/Signature: N.6844/3  
Kontrolluar dhe aprovuar/ Read and approve

**SPHAERA**  
Studio Lokale Arkitekture  
LOCAL Architecture Office  
Firma/Signature: N.4651/14  
Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
Studio Lokale Arkitekture  
LOCAL Architecture Office  
Firma/Signature: N.6844/3  
Kontrolluar dhe aprovuar/ Read and approve

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Studio Lokale Arkitekture  
LOCAL Architecture Office  
Firma/Signature: N.6844/3  
Kontrolluar dhe aprovuar/ Read and approve

**IRI**  
Studio Lokale Arkitekture  
LOCAL Architecture Office  
Firma/Signature: N.6844/3  
Kontrolluar dhe aprovuar/ Read and approve

TE GJITHA DIMENSIONET DUHET TE VERIFIKOHEN  
NËGA KONSTRUKTORINË VËREJ  
ARCHISPACE BHM  
This document is intended for use as a guide. It is not intended to be used as a substitute for professional engineering services. The user is responsible for the design and construction of the project. The user is responsible for the design and construction of the project. The user is responsible for the design and construction of the project.

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