

TIMESTAMP

2	General Data	Rev.00
3	Power Block Diagram	Rev.00
4	MVP1 Single Line Diagram	Rev.00
5	MDP1 Single Line Diagram	Rev.00

This set of documents includes electrical lighting, sockets outlet network and power distribution of reconstruction existing Telegraph building at Radisson Blue Telegraph Hotel situated at Rustaveli ave., Tbilisi, Georgia.

In scope of Tender Documents for electrotechnical part of project was included:

- decision of electric power supply;
- decision of electrical lighting;
- decision of electrical facade lighting;
- decision of electrical sockets distribution;
- decision of electrical grounding and lightning;

Electrical part has been designed on the basis of:

- input data from the customer;
- current regulatory documents;
- technical assignments from other disciplines;

All cables and equipment shall be provided permanent marking according to the drawings.

The cable crossings through the wall shall be done according to item 3.18 SNiP 3.05.06-86.

All electrical equipment shall be equipped according to safety rules.

All installation work shall be done according to PUE, SNiP 3.05.06-86, PTE and TB.

The detail design drawings have been done in accordance with the current norms and regulations.

Code	Document name	Remarks
	Reference documents	
PUE-87	Regulations to electrical installations	
IEE -Wiring-Regulations- 17th-Edition	Wiring Regulations	
IEC 62305:2006	Protection against atmospheric electricity	
EN 12464 - 1	Light and lighting	
EN 12464 - 2	Outdoor work places	
SNP I+L 17-65	Hotels, design Standards	
SNP 3.05.06-86.	Electrical devices	
Radioson Bu Technical Standards June 2014	Radioson Hand Book for Design	
PO-Radioson Park Inn Hotel_PPD_140206	Park Inn Preliminary project description	



DOCUMENT REVIEW STATUS

☐ **A** REVIEWED
Work may proceed

☐ **B** REVIEWED WITH COMMENTS
Revise and re-submit. Work may proceed subject to incorporation of comments

☐ **C** OBJECTION
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☐ **D** REJECTED

☐ **E** REVIEW NOT REQUIRED
Work may proceed

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CLIENT

Silk Road Business Center LLC

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NAME		SCALE	

DRAWING STATUS

PHASE II
TENDER DOCUMENTS

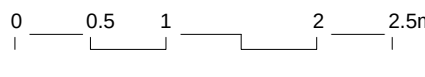
CONSULTANT / SUB-CONTRACTOR

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NAME I.S.		NAME R.F.	NAME A.S.
DATE 30/12/2015		DATE 1/12/2015	DATE 2/12/2015

DRAWING TITLE

Radisson Blu Telegraph Hote
Electrical
General Data

DRAWING NUMBER	REVISION
RBTH-AE-EL-TD- GEN-0001	TD0



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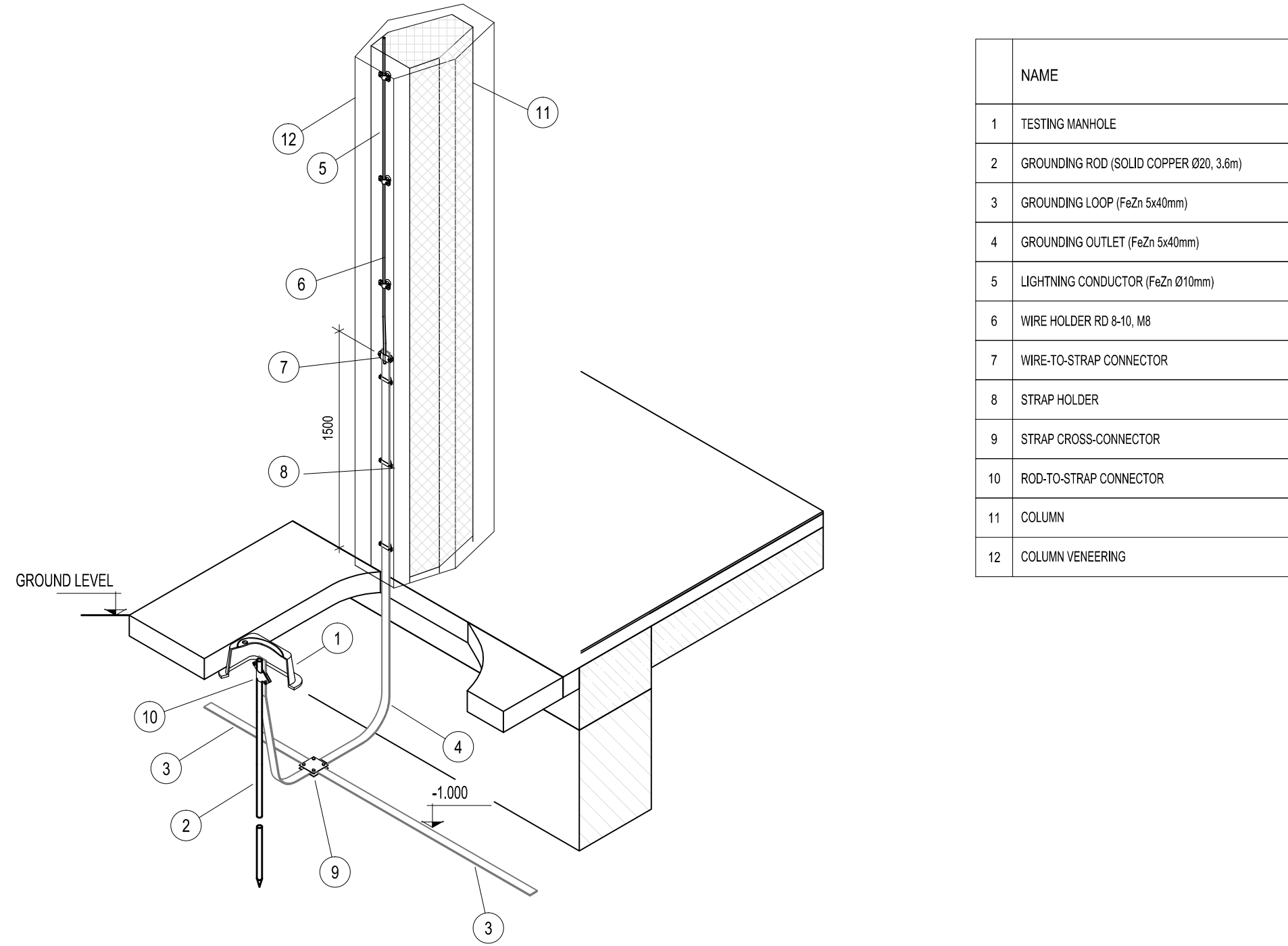
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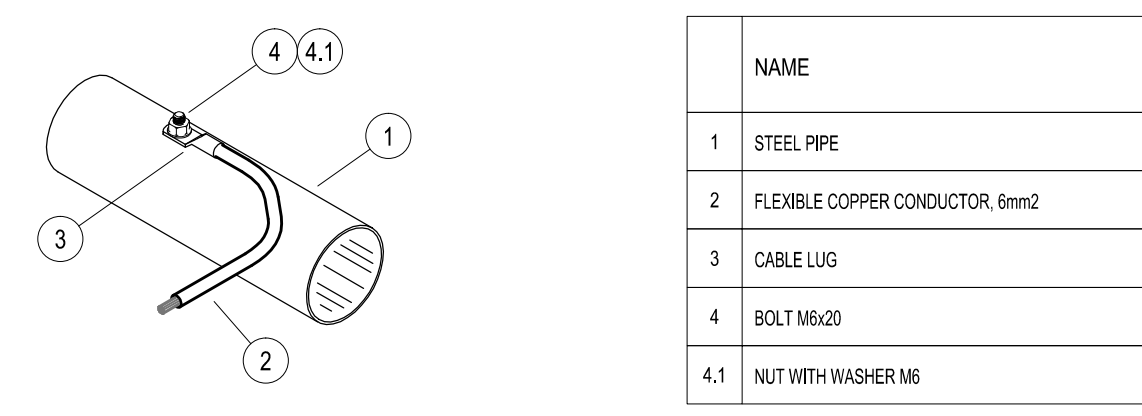
LIGHTING FIXTURES

- PENDANT LUMINAIRE, 12W, LED
- PENDANT LUMINAIRE, 12W, LED, WITH BATTERY
- DOWNLIGHT LUMINAIRE, 15W, LED
- SPOTLIGHT, 250W, HID
- CROWN LIGHTING, 5W, LED
- EVACUATION LIGHTING FIXTURE FOR ONE LUMINESCENT LAMP 11 W, IP54, CONSIGNMENT WITH LAMP
- DIRECTION OF MOVING LIGHTING FIXTURE FOR ONE LUMINESCENT LAMP 11 W, IP54, CONSIGNMENT WITH LAMP
- DIRECTION OF MOVING LIGHTING FIXTURE FOR ONE LUMINESCENT LAMP 11 W, IP54, CONSIGNMENT WITH LAMP
- EVACUATION LIGHTING FIXTURE FOR ONE LUMINESCENT LAMP 11 W, IP54, CONSIGNMENT WITH LAMP
- WALL LUMINAIRE TS 3X1028W WARM WHITE CT3000X DALI DIMMABLE
- RECESSED SURFACE MOUNTED LINEAR LUMINAIRE OR TRACK
- CONCEALED LINEAR LUMINAIRE
- FIXED LUMINAIRE
 - AD- FASAO SPOTLIGHT
 - AJ- PENDANT LUMINAIRE FOR CORRIDORS
 - A1- DOWNLIGHTS FOR CORRIDORS
 - A2- DOWNLIGHTS FOR RESTAURANT
 - A3- DOWNLIGHTS FOR STAIRS
 - A5- RECESSED LINEAR
 - A4- DOWNLIGHTS FOR COURTYANS
- CEILING LIGHTING FITTING, LEDS-C4, INFINITE, IP44
- CEILING LIGHTING FITTING, LEDS-C4, TRIMMUM IP44
- LIGHTING FITTINGS FOR COLDROOM
- 2x8W SURFACE MOUNTED LIGHTING FIXTURE, IP54
- 2x28W RECESSED MOUNTED DECORATIVE DOWNLIGHT - IP20
- 4x15W RECESSED MOUNTED, FIT LIGHTING FIXTURE, IP20
- PENDANT LUMINAIRE TUNGSTEN HALOGEN K2W E27 PHILIPS ECOCLASSIC30 GLOBE DIMMABLE
- WALL MOUNTED INCANDESCENT LIGHTING FIXTURE
- 2x18W SURFACE MOUNTED SINGLE PARABOLIC WITH ALUMINIUM REFLECTOR FLUORESCENT LIGHTING FIXTURE, IP20
- 1x60W SURFACE MOUNTED GLASS DOWNLIGHT, IP65
- CEILING LIGHTING FITTING, LEDS-C4, INFINITE, IP20
- 2x18W SURFACE MOUNTED DOWNLIGHT, IP44
- RECESSED CEILING LUMINAIRE LED QR111 GU10 15W 24° 220V WARM WHITE CT2700K DIMMABLE
- SURFACE MOUNTED CEILING LUMINAIRE - ADJUSTABLE LED QR111 G53 15W 35° 230V WARM WHITE CT2700K DIMMABLE
- RECESSED CEILING LUMINAIRE - ADJUSTABLE LED QR111 GU10 20W 24° 230V WARM WHITE
- MOTION SENSOR
- EMERGENCY KIT
- SURFACE MOUNTED ONE WAY ONE GANG SWITCH, IP44
- SURFACE MOUNTED ONE WAY TWO GANG SWITCH, IP44
- SURFACE MOUNTED ONE WAY ONE GANG SWITCH, IP20
- SURFACE MOUNTED ONE WAY TWO GANG SWITCH, IP20
- PS14 BUTTON BLOCK FOR LIGHTING

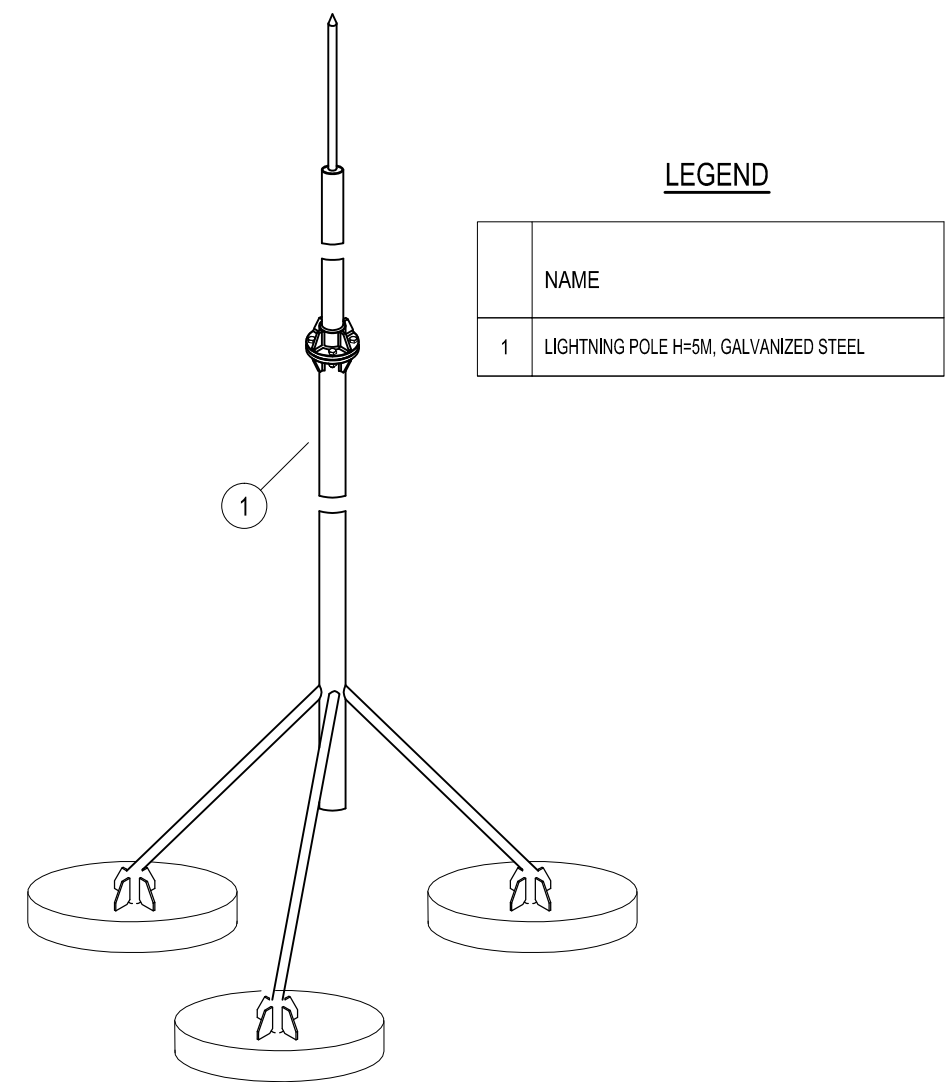
LIGHTNING CONDUCTOR INSTALLATION DETAIL



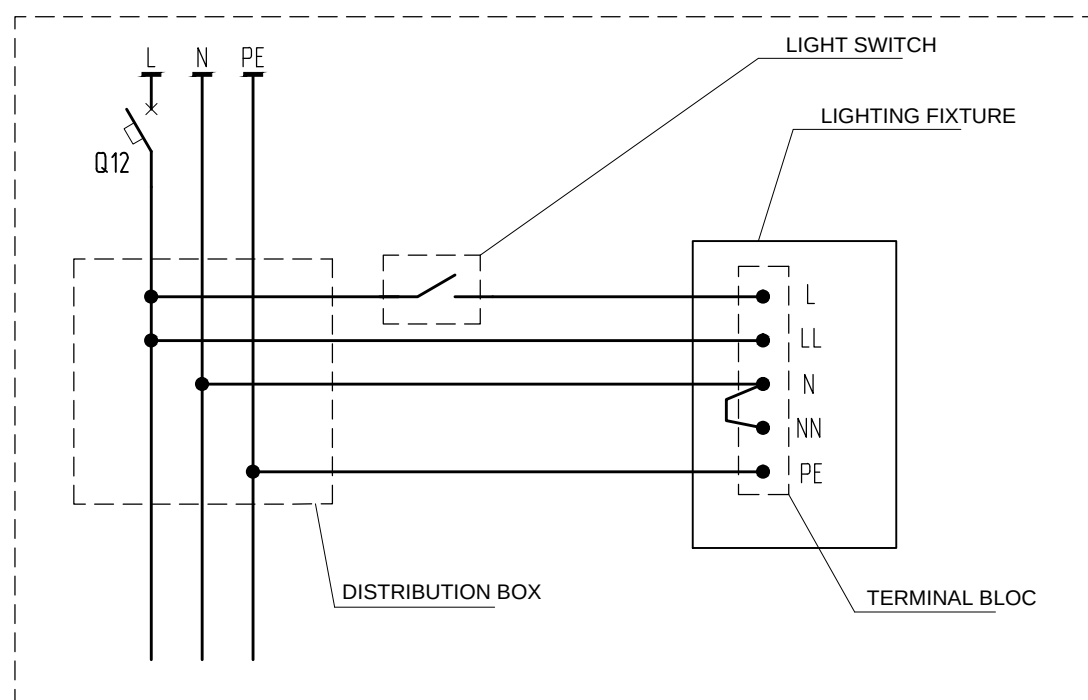
METAL PIPE BONDING INSTALLATION DETAIL



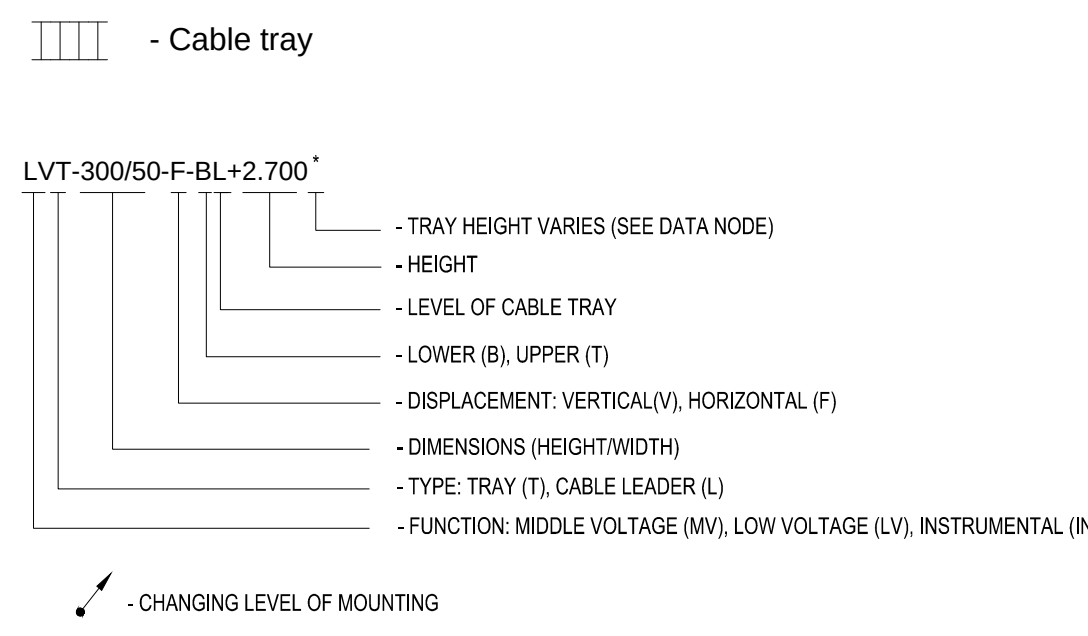
ROOF LIGHTNING TERMINAL INSTALLATION DETAIL



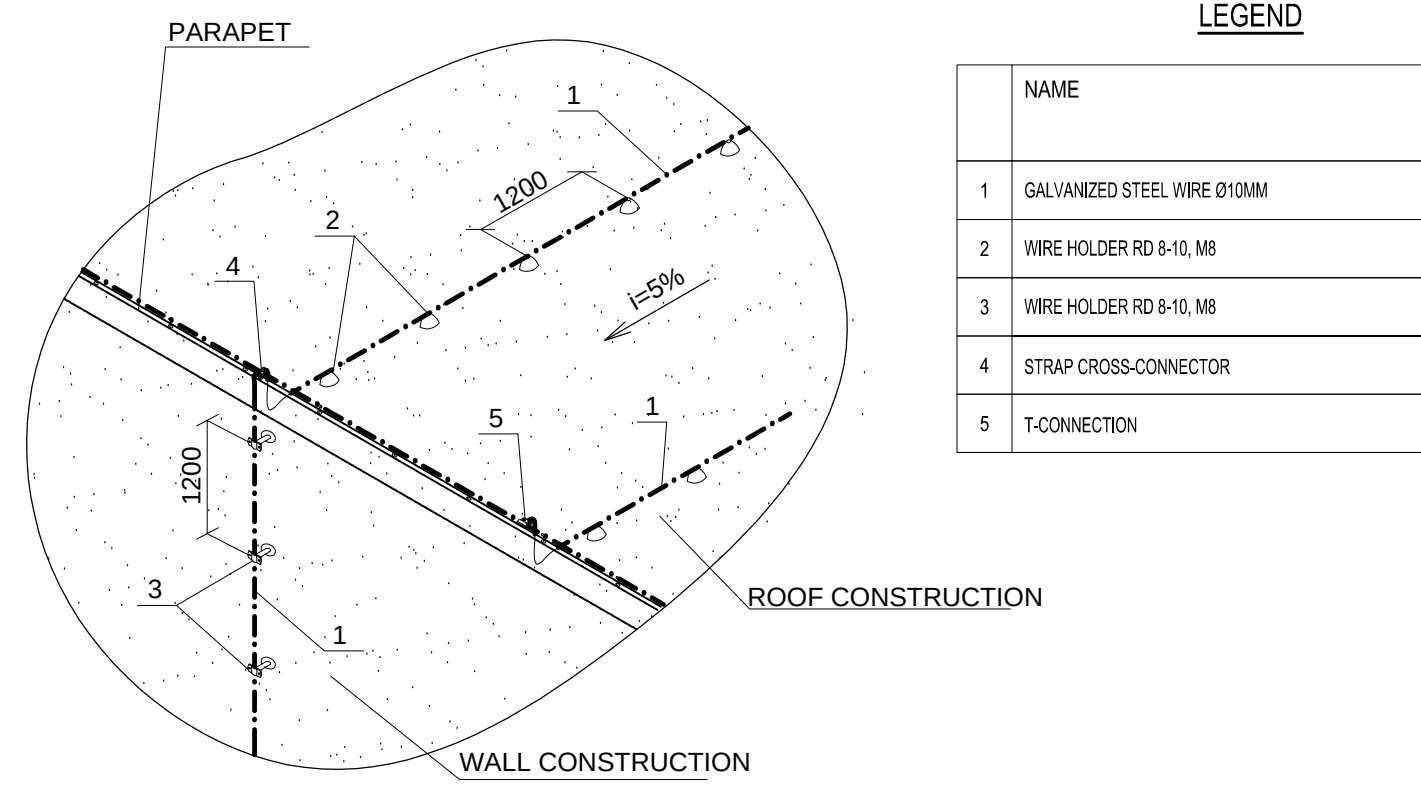
CONNECTION DIAGRAM FOR EMERGENCY LIGHTING



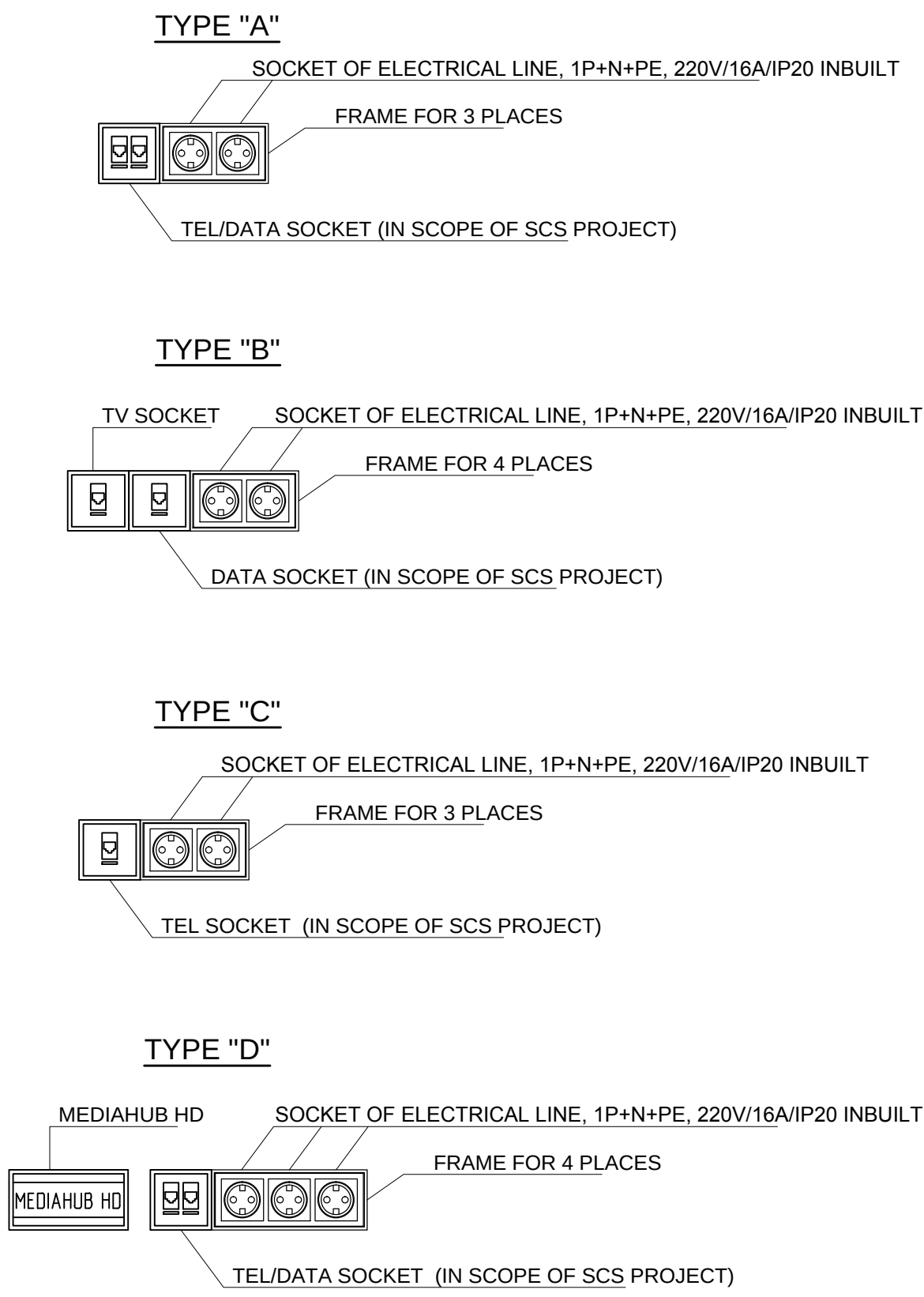
CABLE TRAY TAG



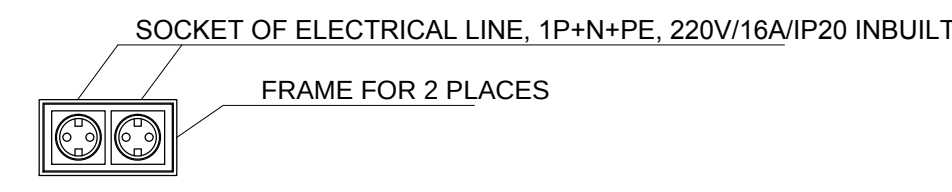
TYPICAL DETAIL STRIP MESH INTERCEPTION ON FLAT ROOFS



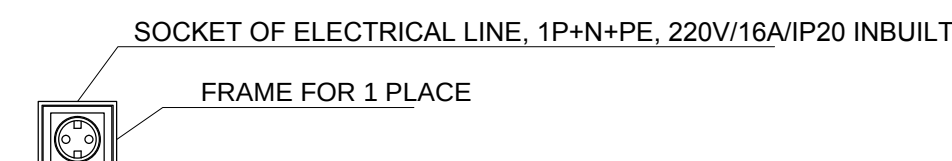
SOCKET BLOCKS LEGEND



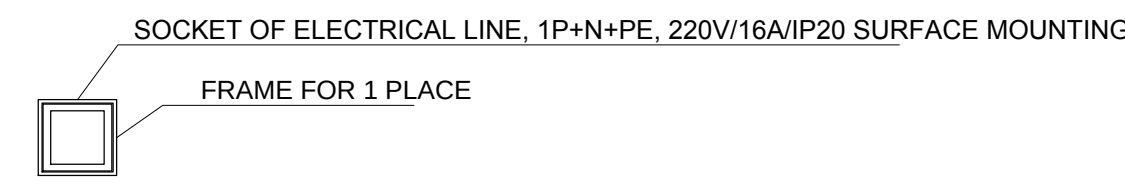
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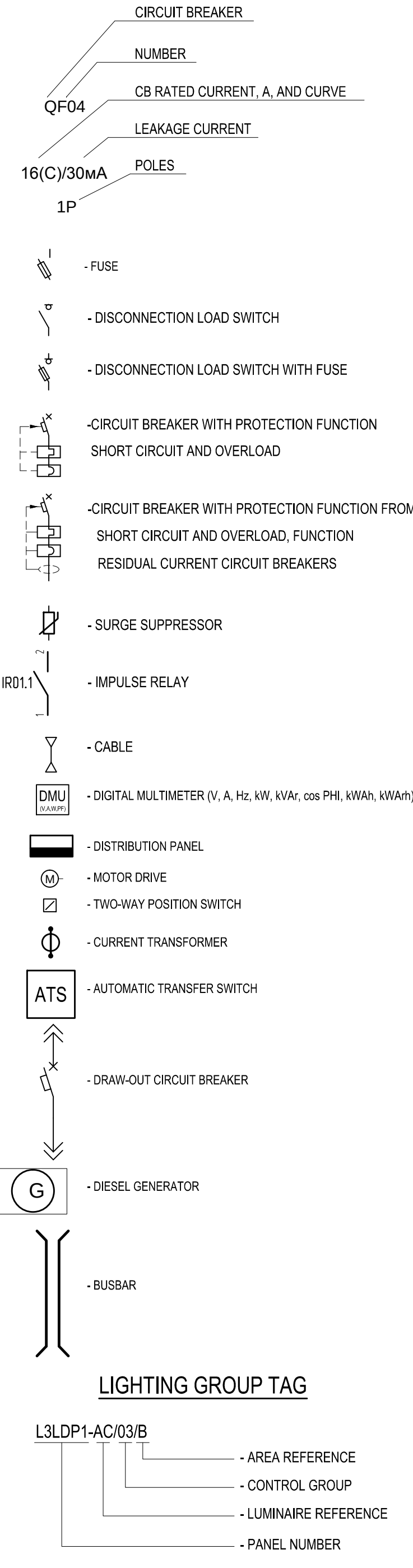
TYPE "F"



TYPE "G"



DEVICE LEGEND:



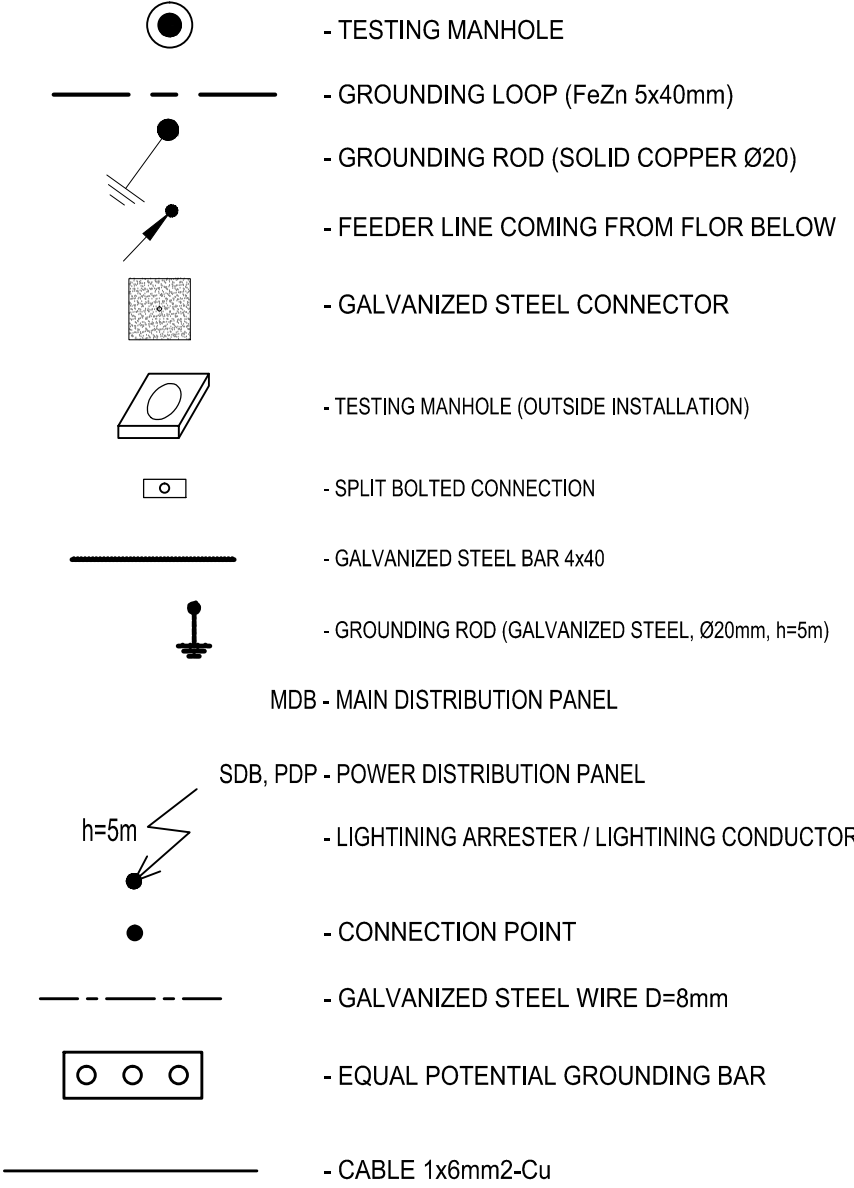
GUEST ROOM LEGEND:

SYMBOL	DESCRIPTION
●	RECESSED DOWNLIGHT
LED STRIP LIGHTING, 25 W/m	
●	LED TABLE LUMINAIRE, 10 W
●	FLOOR LAMP
●	WALL SCONCE LIGHTING
●	DESK LAMP
●	PENDANT LAMP
○	DOWNLIGHT
●	READING / DECORATIVE LAMP INTEGRATED WITH SWITCH
●	ONE-POLE SWITCH
●	TWO-POLE SWITCH
●	TWO-WAY SWITCH
●	ENERGY-POCKET
●	ONE-POLE SWITCH
●	TWO-POLE SWITCH
●	TWO-WAY SWITCH
●	SOCKET BLOCK TYPE A (1-TEL, 1-DATA, 2-POWER 1P+N+PE)
●	SOCKET BLOCK TYPE B (1-TV, 1-DATA, 2-POWER 1P+N+PE)
●	SOCKET BLOCK TYPE C (1-TEL, 2-POWER 1P+N+PE)
●	SOCKET BLOCK TYPE D (1-MEDIA, 1-TEL, 1-DATA, 3-POWER 1P+N+PE)
●	SOCKET BLOCK TYPE E (2-POWER 1P+N+PE)
●	SOCKET BLOCK TYPE F (1-POWER 1P+N+PE, IP 20)
●	SOCKET BLOCK TYPE G (1-POWER 1P+N+PE, IP 44)

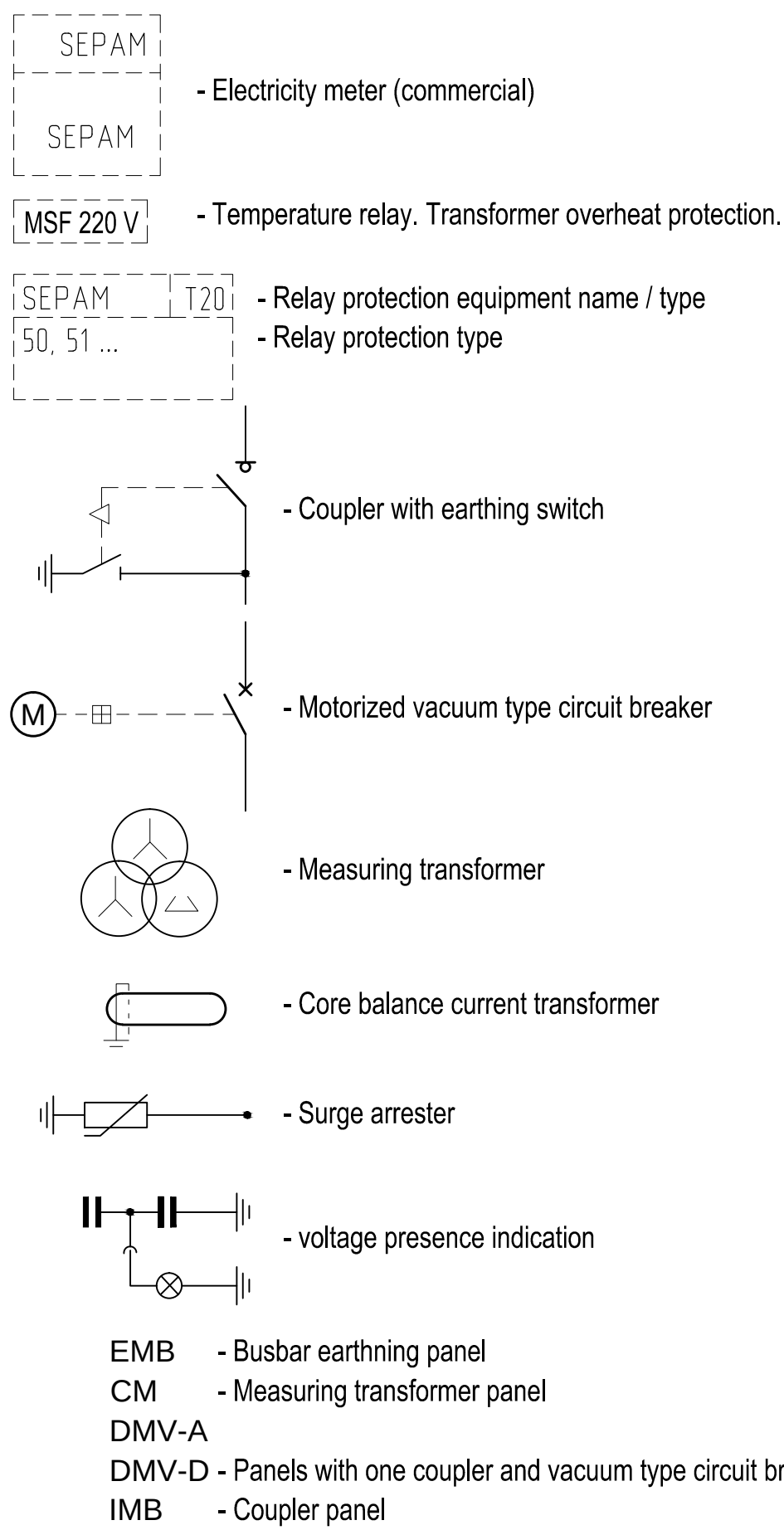
Legend for Room Loads:

- CFM - Coffee Machine
- CLM - Cleaners Sockets
- DMP - Demister Pad
- FCL - Fancoil Unit
- HDR - Hair Dryer
- MIR - Make-up Mirror
- KTL - Kettle
- MING - Minibar
- SHV - Shaver

LIGHTNING AND GROUNDING AND POTENTIAL EQUALIZATION



MVP Legend



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE , TBILISI, GEORGIA

NOTES:
- Shell and core according to drawings provided by client and on-site measurements.
- All measurements to be checked on site prior to proceeding

DOCUMENT REVIEW STATUS

☐ A	REVIEWED	Work may proceed
☐ B	REVIEWED WITH COMMENTS	Revised and re-submitted. Work may proceed subject to incorporation of comments
☐ C	REJECTED	Revised and re-submitted. Work may not proceed
☐ D	REJECTED	
☐ E	REVIEW NOT REQUIRED	Work may proceed

No	Date	Description	Drawn	Checked	Approved
TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

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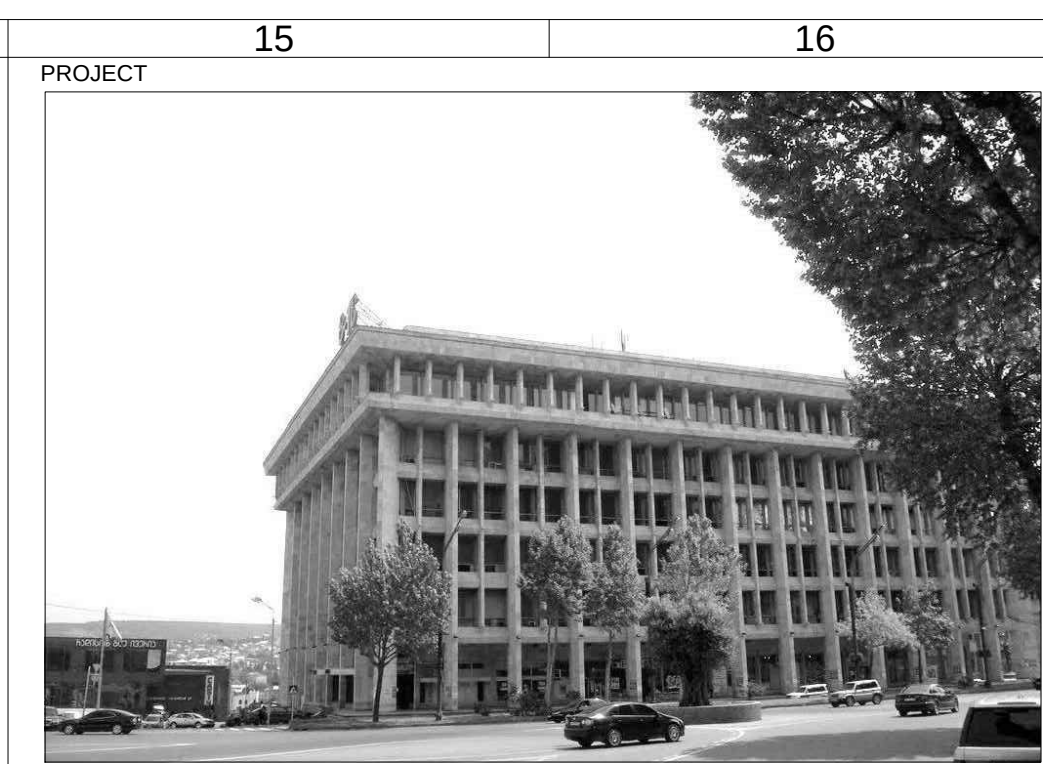
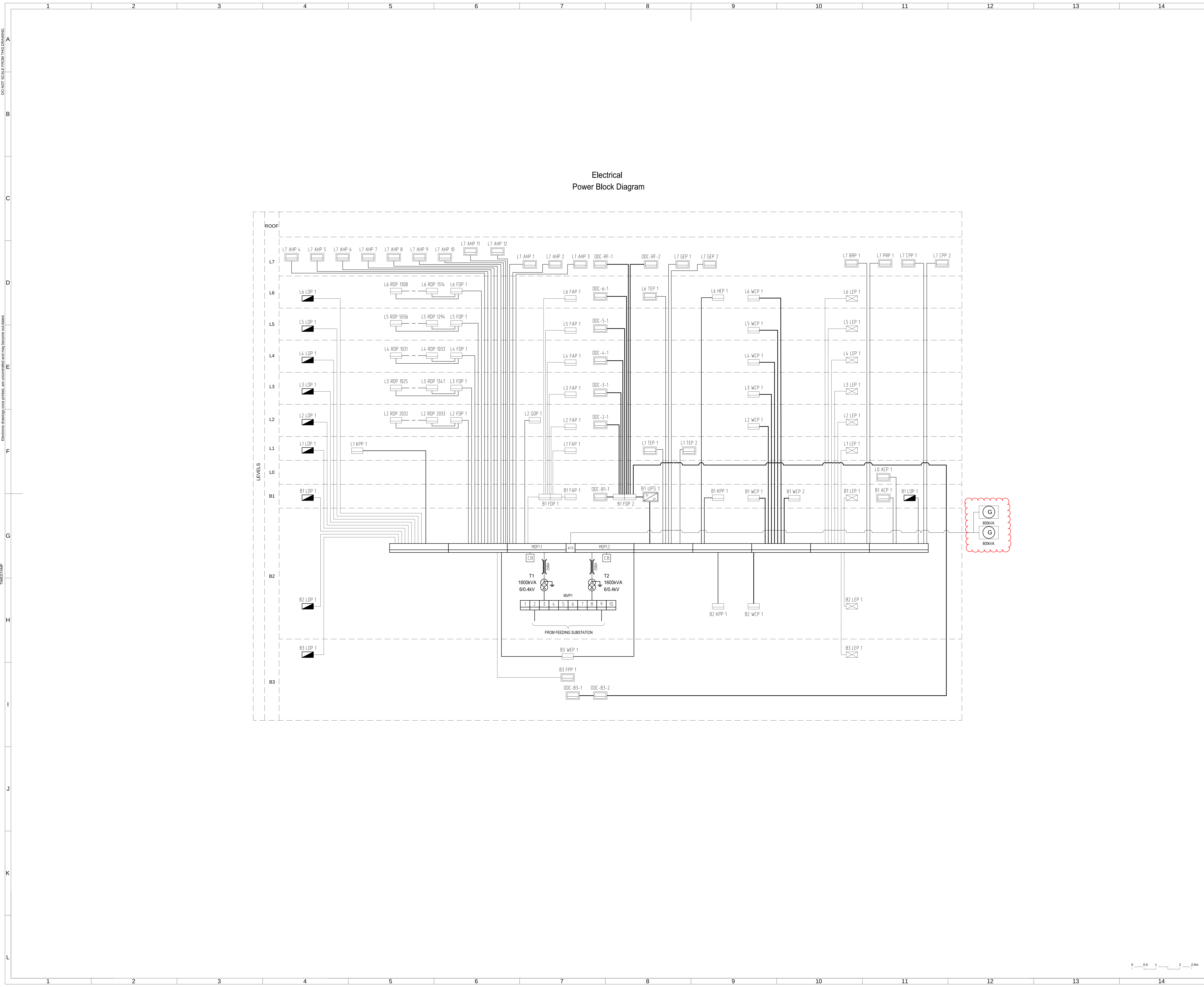
LEAD DESIGN ENTITY (LDE)

DRAWING STATUS

CONSULTANT / SUB-CONTRACTOR

Radisson Blu Telegraph Hotel Electrical General Data

DRAWING NUMBER	REVISION
RBTH-AE-EL-TD-GEN-0002	TD0



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBLISI, GEORGIA

ABBREVIATIONS:

- AHP - AIR HANDLING UNIT PANEL
ACP - AIR CURTAINS PANEL
BRP - BOILER ROOM PANEL
CPP - CHILLER POWER PANEL
DDC - BMS PANEL
FPP - FIRE PUMPS PANEL
FAP - FIRE ALARM PANEL
FDP - FLOOR DISTRIBUTION PANEL
GDP - GYM DISTRIBUTION PANEL
GEP - GUEST ELEVATOR PANEL
HEP - HEATING HOPPERS PANEL
KPP - KITCHEN POWER PANEL
LDP - NORMAL LIGHTING PANEL
LEP - EMERGENCY LIGHTING PANEL
LOP - OUTDOOR LIGHTING PANEL
MVP - MEDIUM VOLTAGE PANEL (6KV)
MDP - MAIN DISTRIBUTION PANEL (0.4KV)
PRP - PUMP ROOM PANEL
RDP - ROOM DISTRIBUTION PANEL
TEP - TECHNICAL ELEVATOR PANEL
UPS - UNINTERRUPTABLE POWER SUPPLY
WEP - WATER EQUIPMENT PANEL
WCP - WEAK CURRENT PANEL

NOTES:

- Shell and core according to drawings provided by client and on-site measurements.
- All measurements to be checked on site prior to proceeding

- - DISTRIBUTION PANEL
▣ - NORMAL LIGHTING PANEL
▤ - EMERGENCY LIGHTING PANEL
▥ - EQUIPMENT PANEL (SUPPLIED BY OTHER)
CB - CAPACITOR BANK
ATS - AUTOMATIC TRANSFER SWITCH
UPS - UPS
G - DIESEL GENERATOR

PANEL TAG

- B1 RDP 32
- ROOM/PANEL NUMBER
 - PANEL NAME
 - FLOOR NUMBER

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NAME I.S.	NAME R.F.	NAME A.S.
DATE 30/12/2015	DATE 1/12/2015	DATE 2/12/2015

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Power Block Diagram

DRAWING NUMBER
RBTH-AE-EL-TD-GEN-003

REVISION

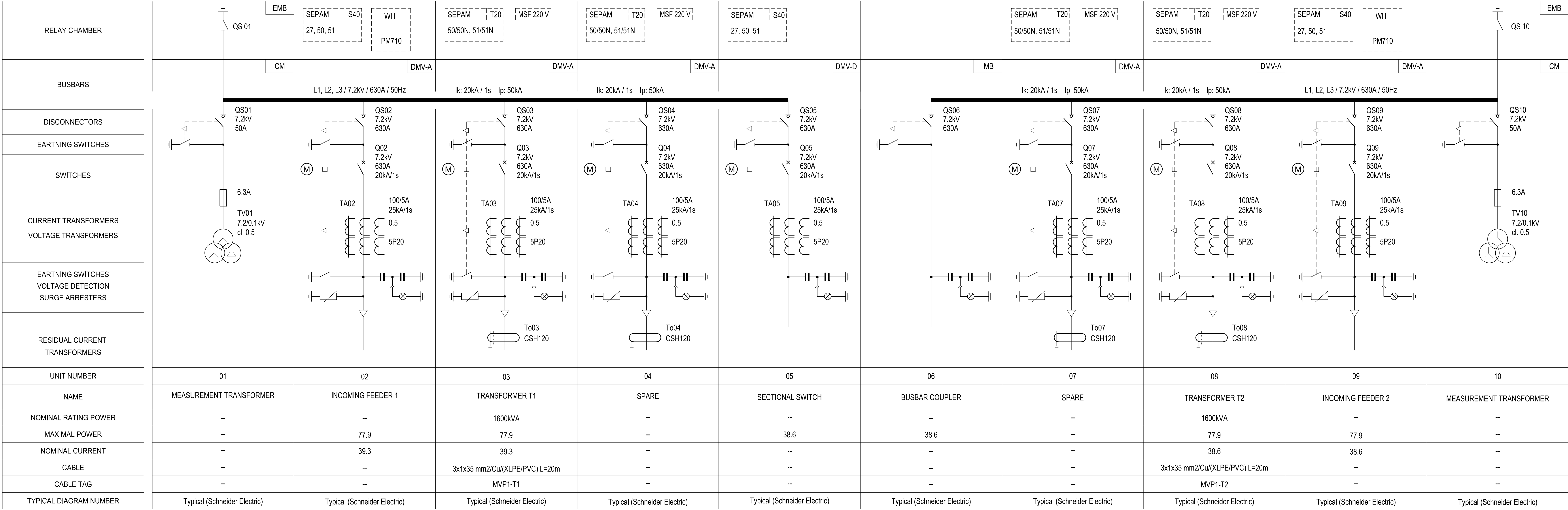
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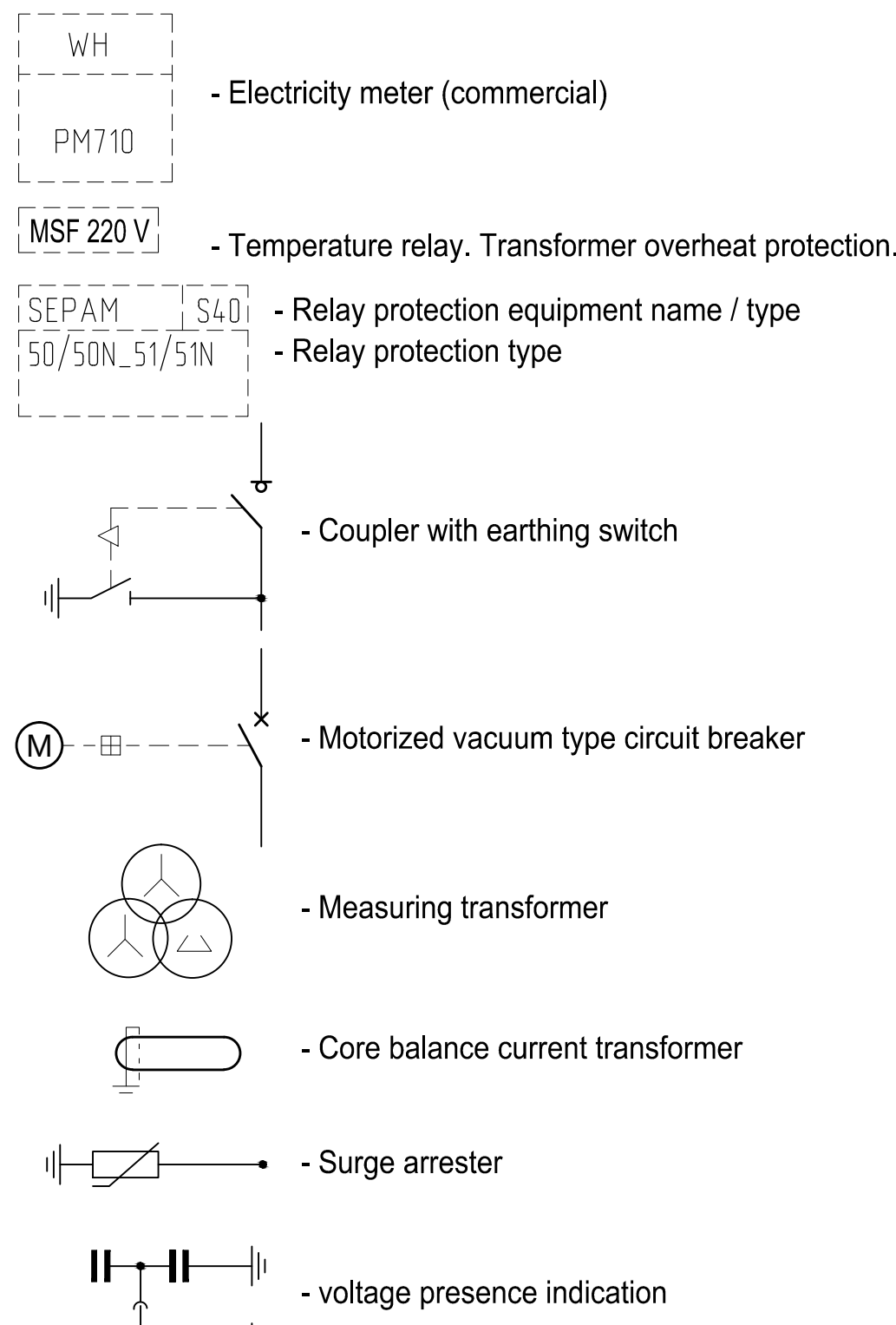
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MVP1.
Single Line Diagram.



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBLISI, GEORGIA

LEGENDS:



ABBREVIATIONS:

- EMB - Busbar earthing panel
- CM - Measuring transformer panel
- DMV-A - Panels with one coupler and vacuum type circuit breaker
- DMV-D - Coupler panel
- IMB - Coupler panel

NOTES:

- Front of sels to be provided with mimic diagram of the switchgear.
- Provide possibility of implementing ATS manual reset.
- All equipment (panels, switches, terminal blocks, cables, etc.) must have permanent marking according to the numbering in the drawing.
- Voltage of auxiliary circuits (signaling circuits, relay protection and control) to be provided 220V AC.
- Shell and core according to drawings provided by client and on-site measurements.
- All measurements to be checked on site prior to proceeding

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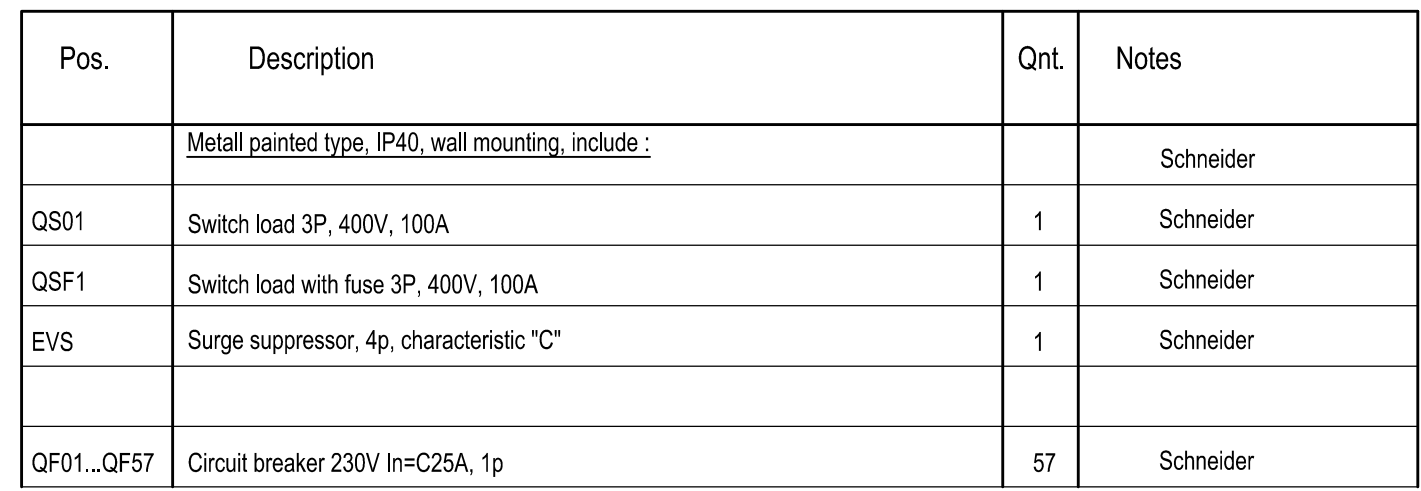
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I.S.	A.S.
DATE: 30/12/2015	DATE: 21/12/2015

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
MVP1.
Single Line Diagram.

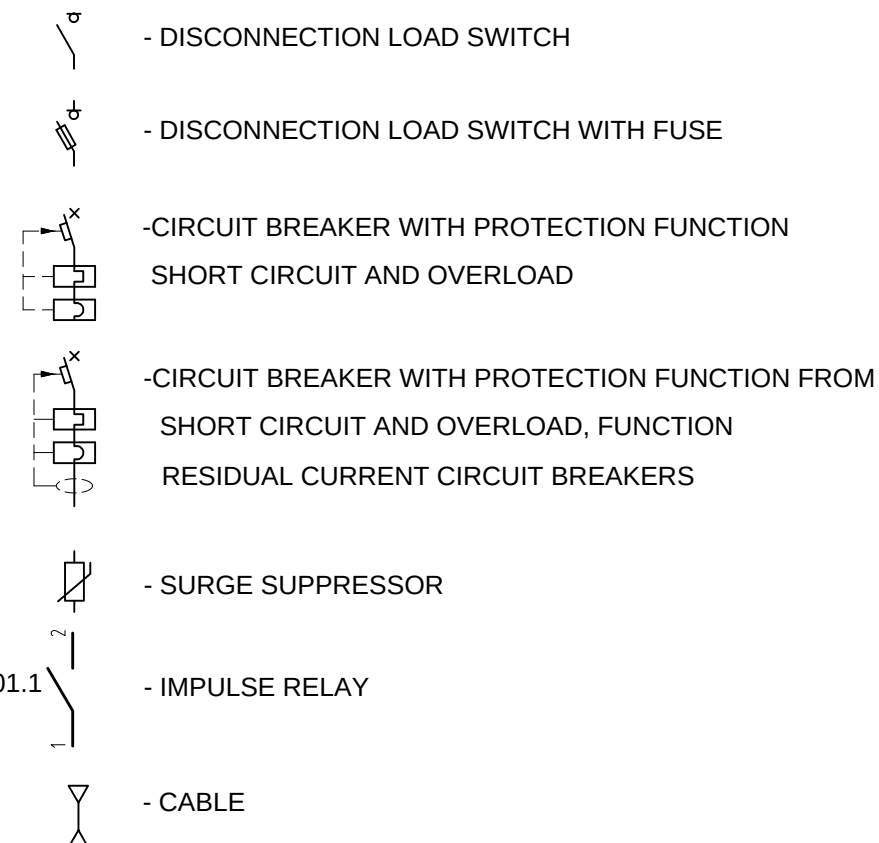
DRAWING NUMBER	REVISION
RBTH-AE-EL-TD-GEN-0004	TD0

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PROJECT	15	16

LEGENDS:



NOTES:

- EQUIPMENT AND WAY OF INSTALLATION MUST CONFORM TO THE EQUIPMENT AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT .
- ALL EQUIPMENT (PANELS, SWITCHES, ACTUATORS, WIRING, ETC.) MUST HAVE PERMANENT MARKING ACCORDING TO THE NUMBERING IN THE DRAWING.
- USE CABLE WITH COPPER WIRE IN PVC NON SPREADING FIRE INSULATION.
- TOP CONNECTION TO THE PANEL SHOULD BE ARRANGED.
- FOR LEGENDS AND DETAILS SEE LAYOUT 'GENERAL NOTES'.
- SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
- ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

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CLIENT

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APPROVED BY LDE

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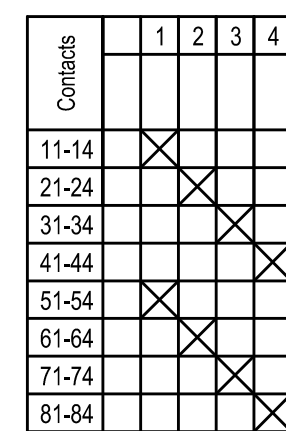
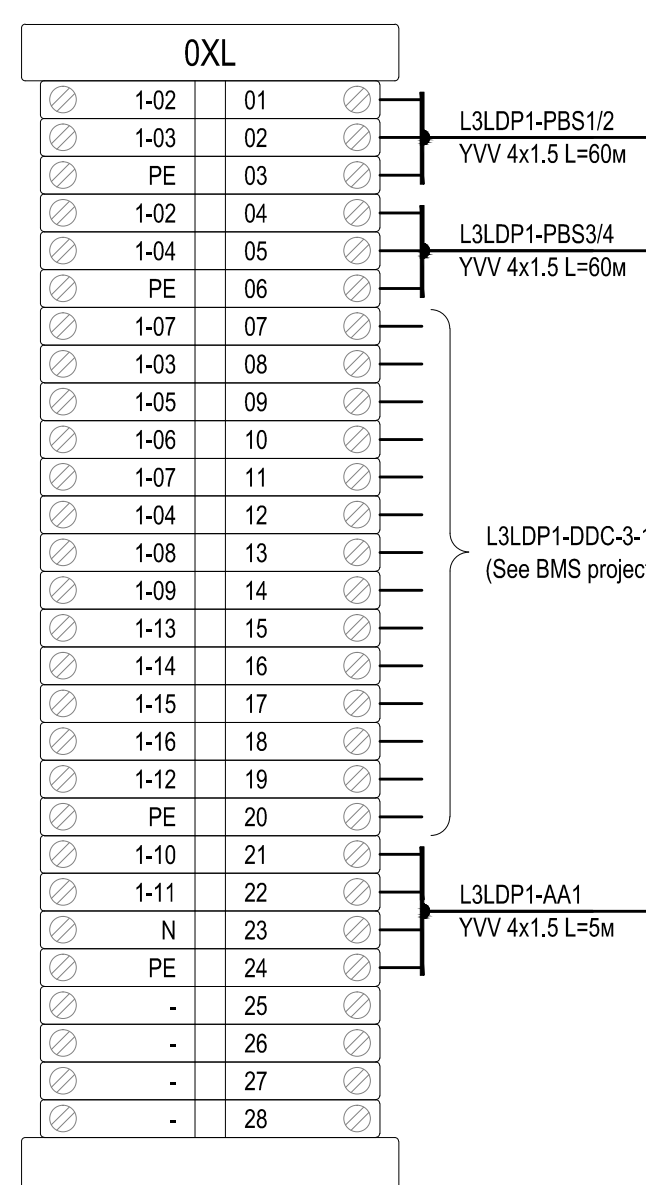
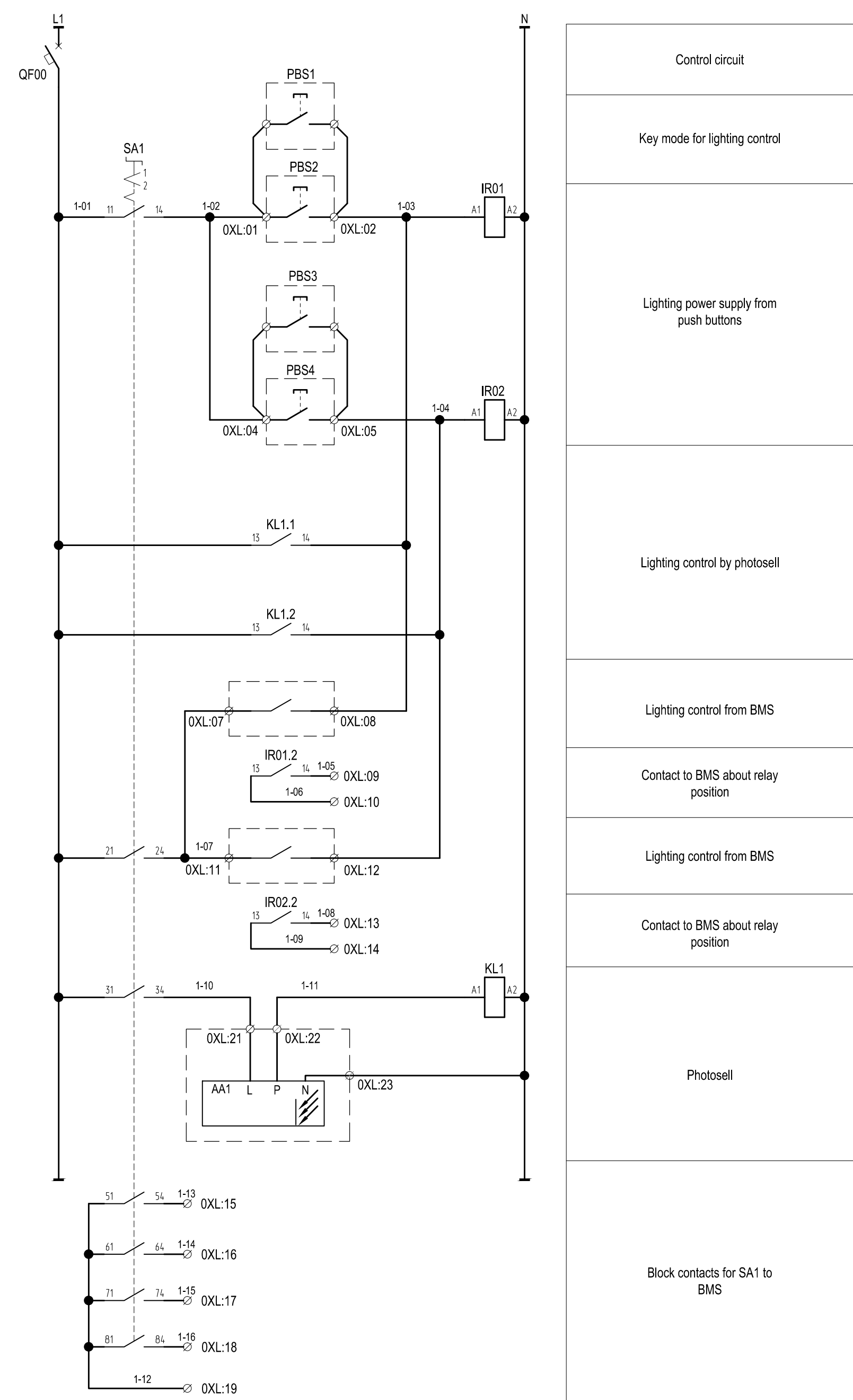
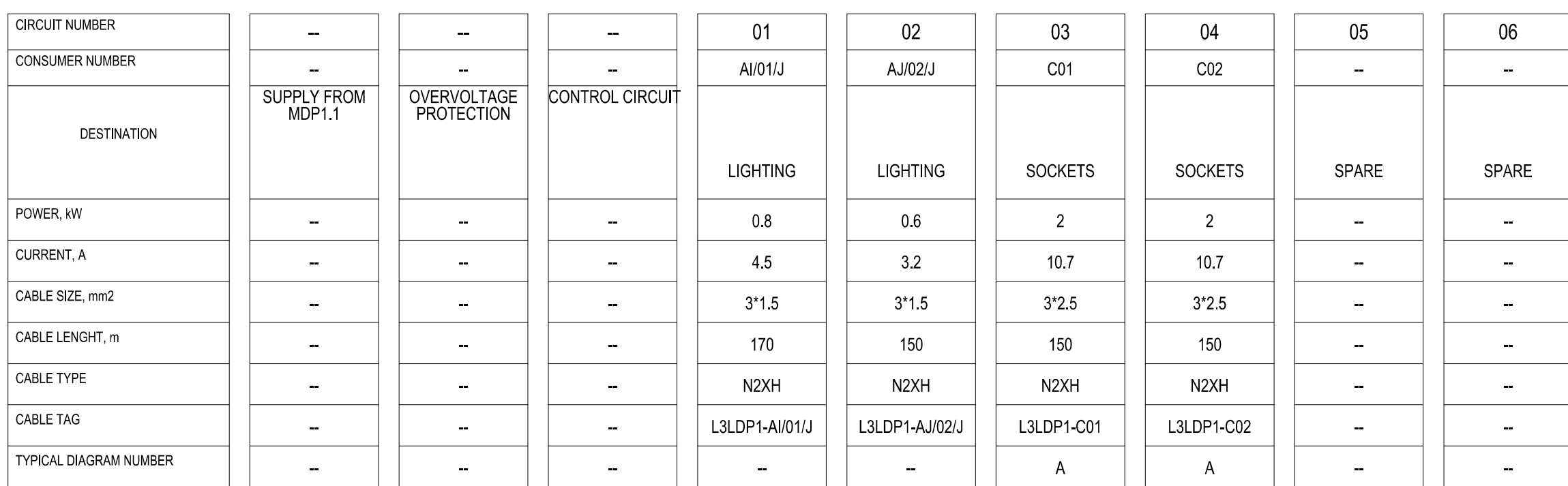
Radisson Blu Telegraph Hotel
Electrical
L3FDP1
Single Line Diagram.

DRAWING NUMBER

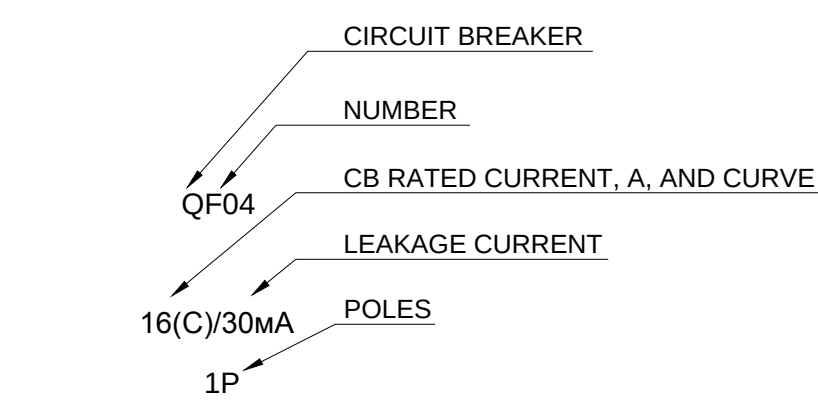
RBTH-AE-EL-TD-L3-0006

REVISION

TDC



List of elements

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- EQUIPMENT AND WAY OF INSTALLATION MUST CONFORM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT .
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REVISIONS					
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TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

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SCALE

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APPROVED BY

NAME
LSNAME
A S

DATE 30/12/201

DATE 2/12/201

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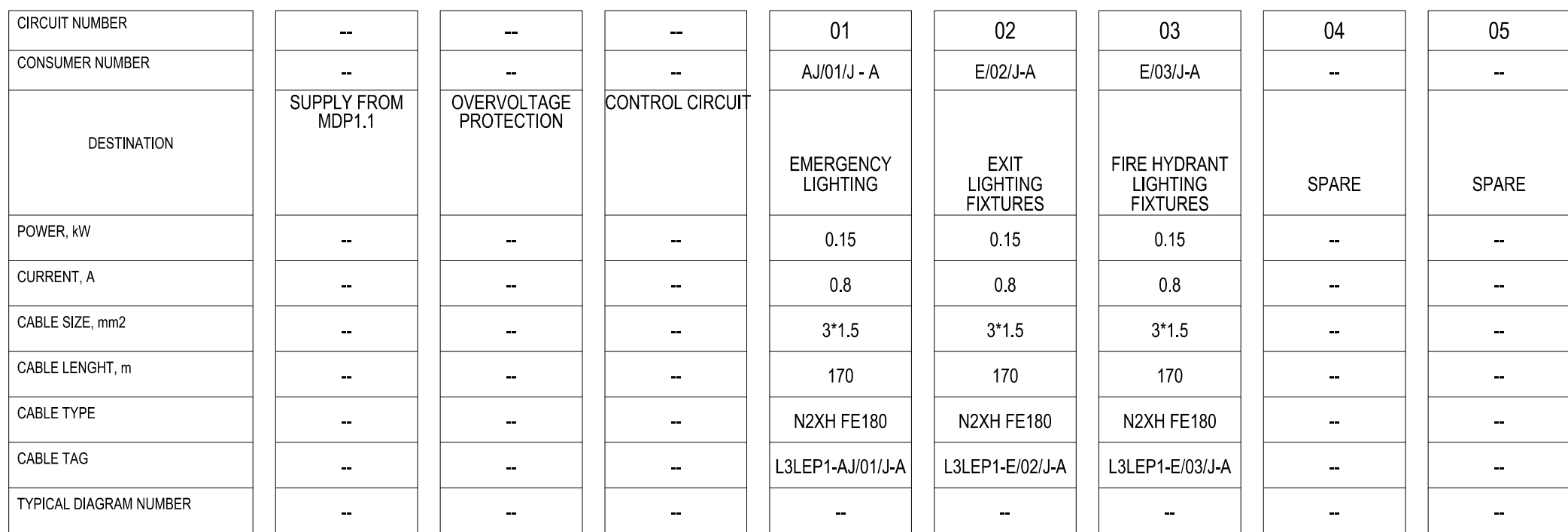
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Radisson Blu Telegraph Hotel
Electrical
L3LDP1
Single Line Diagram.

DRAWING NUMBER
RBTH-AE-EL-TD-L3-0007

REVISION

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The diagram illustrates a lighting control system with the following components and connections:

- Power Supply:** L1 (Line) and N (Neutral) are connected to the system. A ground connection (GND) is also shown.
- Control Circuit:** A key switch (SA1) is connected to the L1 line. The switch has two positions: 1-91 and 1-92. The 1-92 position is connected to the L1 line through a relay (IR01) and a contact (A1).
- Lighting Control by Photoresistor:** A photoresistor (KL11) is connected to the L1 line through a contact (A1). The photoresistor is also connected to the L1 line through a contact (A1).
- Contact to BMS about Relay Position:** A contact (AA1) is connected to the L1 line through a contact (A1). The contact (AA1) is also connected to the L1 line through a contact (A1).

OXL		
1-02	01	L3LDP1-PB8103 YV 4x7.5 L=100w
1-03	02	
PE	03	
1-04	04	
1-03	05	L3LDP1-DDC-3-1 (See BMS Project)
1-05	06	
1-06	07	
1-09	08	
1-10	09	
1-11	10	
1-12	11	L3LDP1-AA1 YV 4x7.5 L=50w
1-13	12	
PE	13	
1-07	14	
1-08	15	
N	16	
PE	17	
-	18	
-	19	
-	20	
-	21	

Contracts	1	2	3	4
11-14				
21-24				
31-34				
41-44				

Manual control
BMS control
Photosell control
Off

Pos.	Description	Qty.	Notes
	<u>Pragma type, IP40, wall mounting, include:</u>		Schneider
OSB1	Switch load 3P, 400V, 25A	1	Schneider
OSF1	Switch load with fuse 3P, 400V, 25A	1	Schneider
EVS	Surge suppressor, 4p., characteristic "C"	1	Schneider
OF00	Circuit breaker 230V In=6A, 1p	1	Schneider
OF01-OF05	Circuit breaker 230V In=C10A, 1p	5	Schneider
H1-H3	Lamps of voltage signalization 1A, 220V	3	Schneider
F1-F3	Terminal with fuse 1A, 220V	3	Schneider
IR01	Inputs relay 2n, 2NO, AC 230V In=16A, TL 15520	1	Schneider
KL.1	Relay 2NO, AC 230V In=6A, 2p	1	Schneider
SA1	Switch to 4 conditions (according to the diagram)	1	Schneider
	Devices on the site:		
AA1	Twilight switch ARGUS, MTN544819, IP54, 10A, 230V	1	Legrand
PBS1..3	Push button without fixation, 1NO, 230В, include:	3	Legrand
	Рамка белый глянec, 069631		
	Переключатель клавишный без фиксации с НО контактом 6 А - 230 В, 067032		
	Лицевая панель, выключатель 1-полюсный / переключатель, Белый, 069001	1	
	Суппорт, монтаж на винтах - разъемный 1-местный 2- модуля, 060251	1	



Diagram illustrating the breakdown of the QF04 specification:

- Q**: CIRCUIT BREAKER
- F**: NUMBER
- 04**: CB RATED CURRENT, A, AND CURVE
- 16(C)**: LEAKAGE CURRENT
- 1P**: POLES

-  - DISCONNECTION LOAD SWITCH
-  - DISCONNECTION LOAD SWITCH WITH FUSE
-  - CIRCUIT BREAKER WITH PROTECTION FUNCTION
-  - SHORT CIRCUIT AND OVERLOAD
-  - CIRCUIT BREAKER WITH PROTECTION FUNCTION FROM SHORT CIRCUIT AND OVERLOAD
-  - RESIDUAL CURRENT CIRCUIT BREAKERS
-  - SURGE SUPPRESSOR
-  - IMPULSE RELAY
-  - CABLE

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- SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
- ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

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☐ **C** OBJECTION
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☐ **D** REJECTED

☐ **E** REVIEW NOT REQUIRED
Work may proceed

[illegible]

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A.S.
DATE 2/12/2015

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
L3LEP1
Single Line Diagram.

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RBTH-AE-EL-TD-L3-0008

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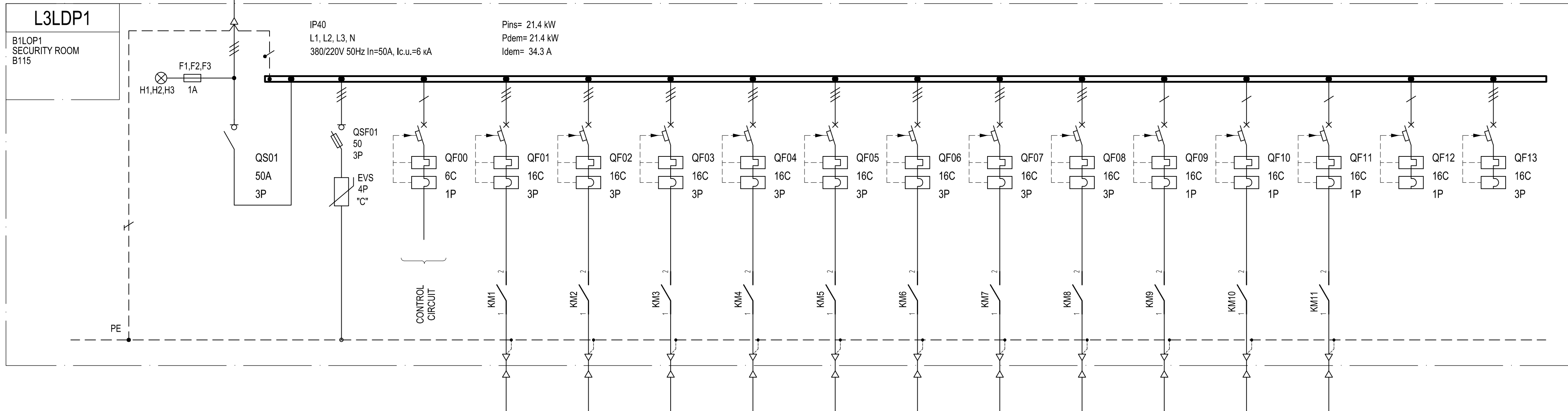
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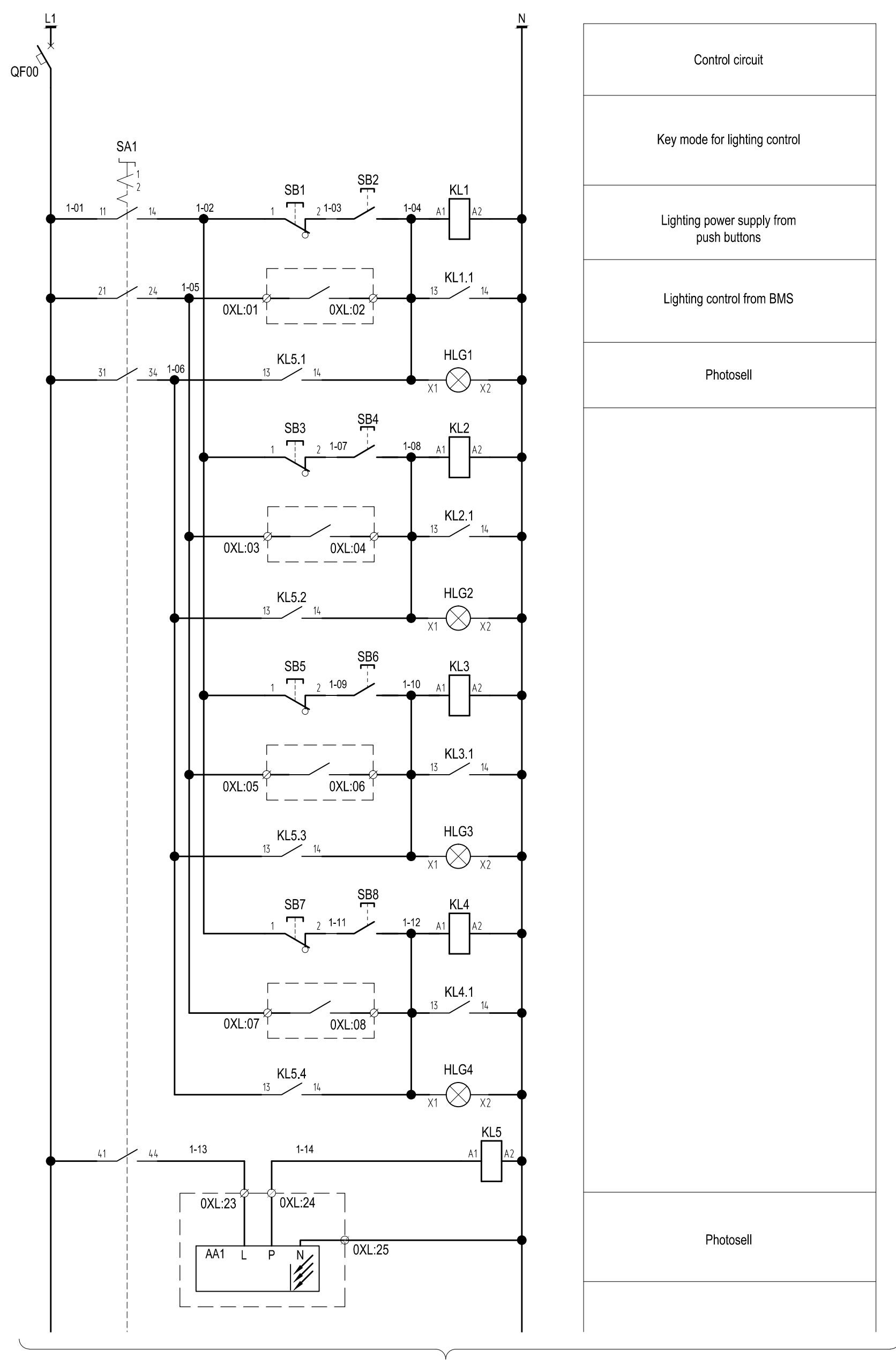
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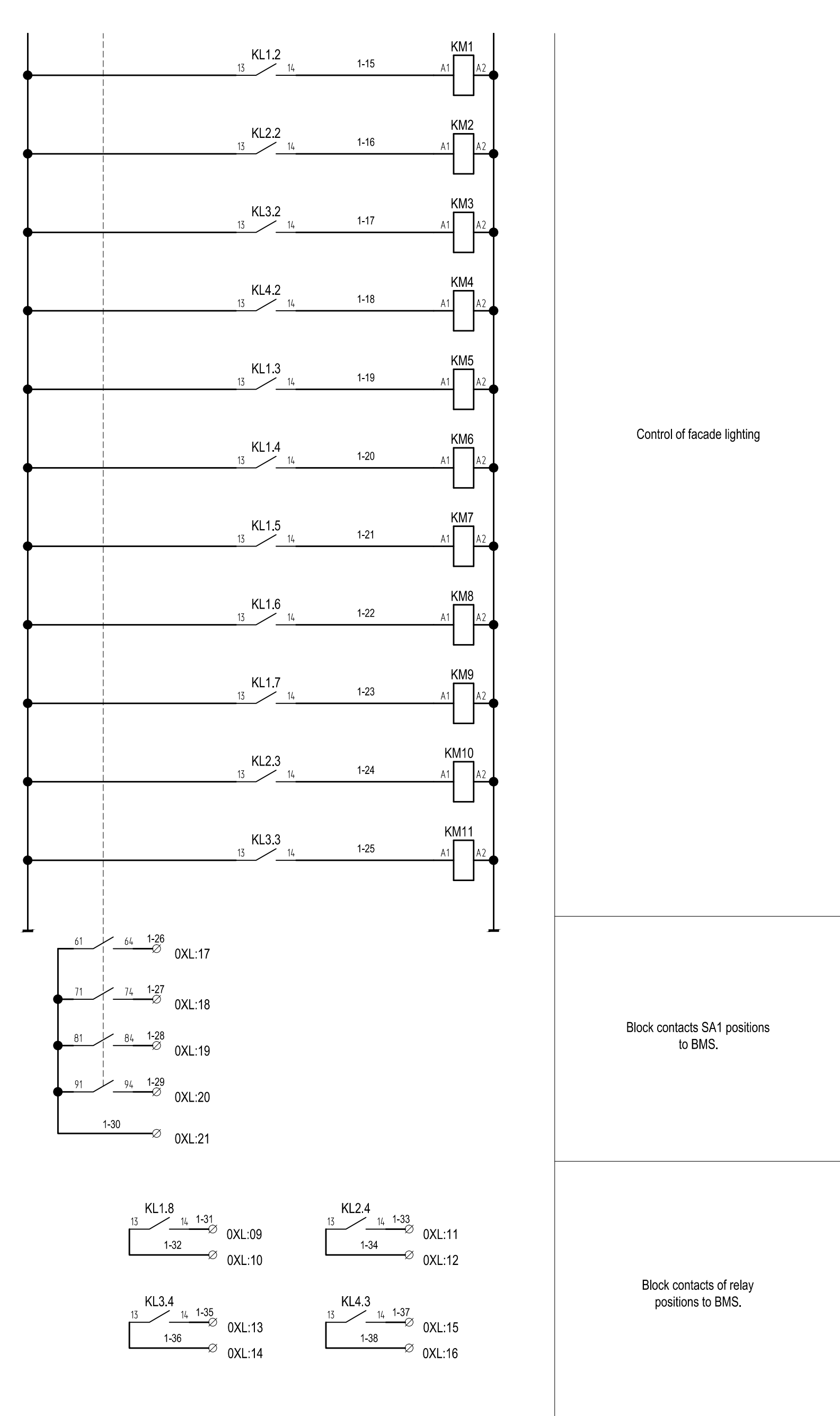
CIRCUIT NUMBER	--	--	--	01	02	03	04	05	06	07	08	09	10	11	12	13
CONSUMER NUMBER	--	--	--	AD01EL1	AD02EL1	AD03EL1	AD04EL1	AD01EL41	AD01EL42	AD01EL43	AD01EL44	AE01AL5	AE02AL5	AE03AL5	--	--
DESTINATION	SUPPLY FROM MDP1	OVERVOLTAGE PROTECTION	CONTROL CIRCUIT	FACADE LIGHTING LEVEL L1	FACADE LIGHTING LEVEL L1	FACADE LIGHTING LEVEL L1	FACADE LIGHTING LEVEL L1	FACADE LIGHTING LEVEL L4	FACADE LIGHTING LEVEL L4	FACADE LIGHTING LEVEL L4	FACADE LIGHTING LEVEL L4	FACADE LIGHTING LEVEL L5	FACADE LIGHTING LEVEL L5	FACADE LIGHTING LEVEL L5	SPARE	SPARE
POWER kW	--	--	--	3.25	2	3.25	2	3.25	2	3.25	2	0.15	0.1	0.15	--	--
CURRENT A	--	--	--	5.2	3.2	5.2	3.2	5.2	3.2	5.2	3.2	0.7	0.5	0.7	--	--
CABLE SIZE mm2	--	--	--	5*4	5*2.5	5*4	5*2.5	5*4	5*2.5	5*4	5*2.5	3*1.5	3*1.5	3*1.5	--	--
CABLE LENGTH m	--	--	--	164	156	161	156	176	172	176	172	186	180	186	--	--
CABLE TYPE	--	--	--	N2XH	N2XH	N2XH	N2XH	N2XH	N2XH	N2XH	N2XH	N2XH	N2XH	N2XH	--	--
CABLE TAG	--	--	--	B1LOP1-AD01EL1	B1LOP1-AD02EL1	B1LOP1-AD03EL1	B1LOP1-AD04EL1	B1LOP1-AD01EL41	B1LOP1-AD01EL42	B1LOP1-AD01EL43	B1LOP1-AD01EL44	B1LOP1-AE01AL5	B1LOP1-AE02AL5	B1LOP1-AE03AL5	--	--
TYPICAL DIAGRAM NUMBER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Control Diagram



See above

See below

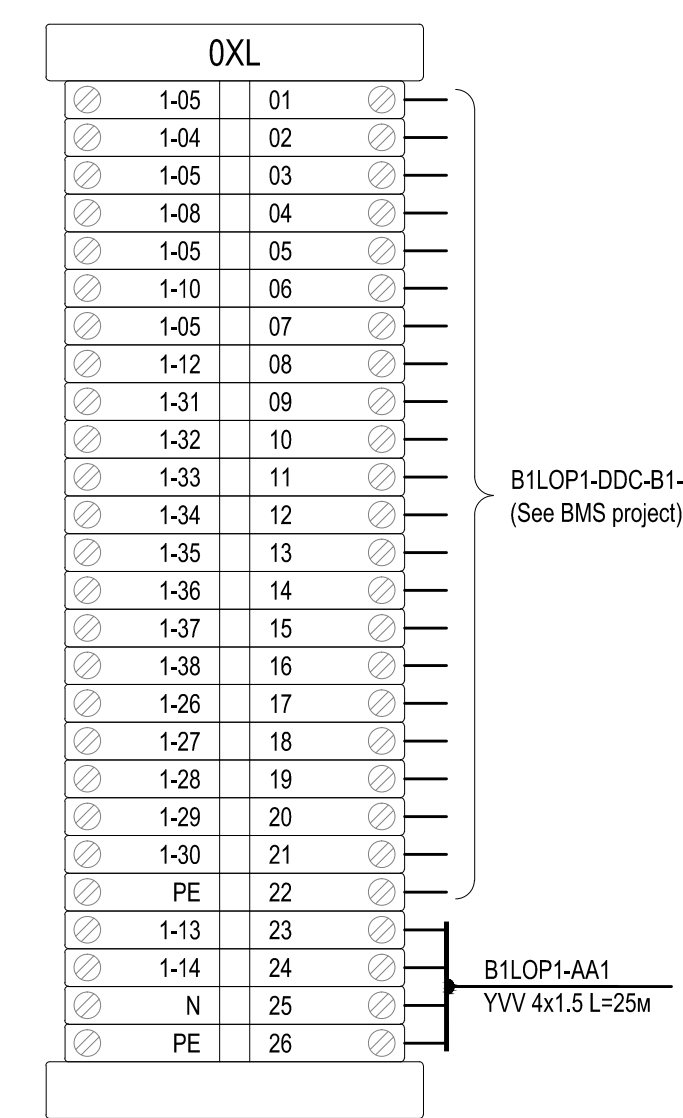


Control of facade lighting

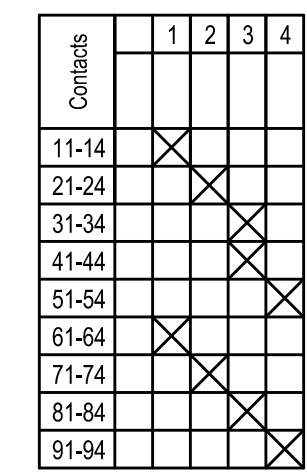
Block contacts SA1 positions to BMS.

Block contacts of relay positions to BMS.

Terminal connections



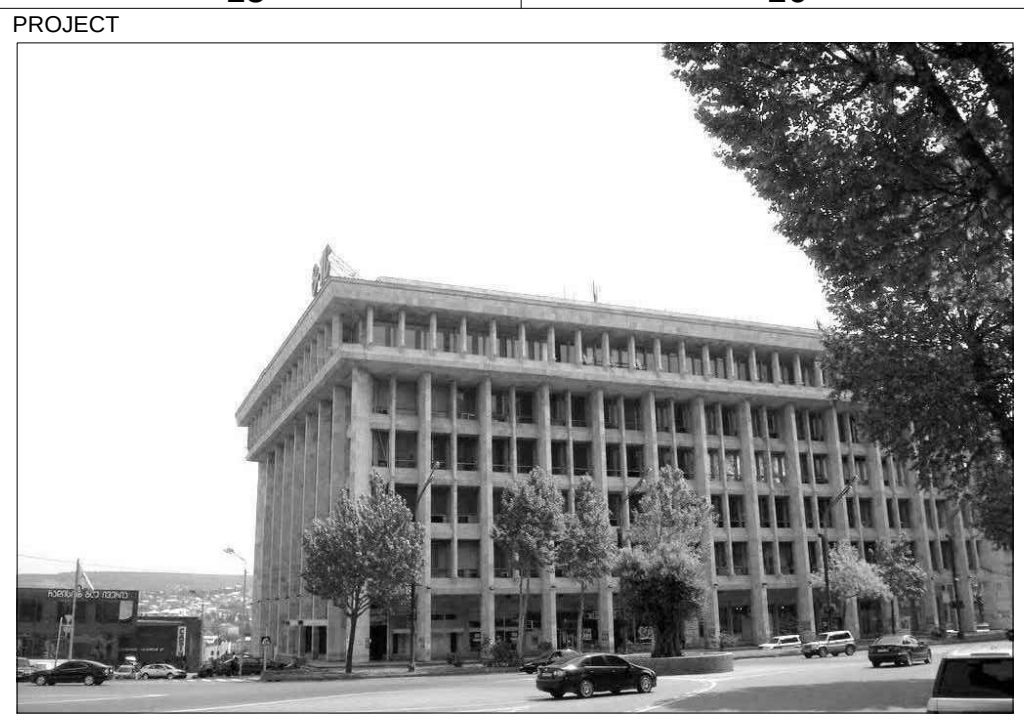
Contacts connection diagram for SA1



1 - Manual control
2 - BMS control
3 - Photo cell control
4 - Off

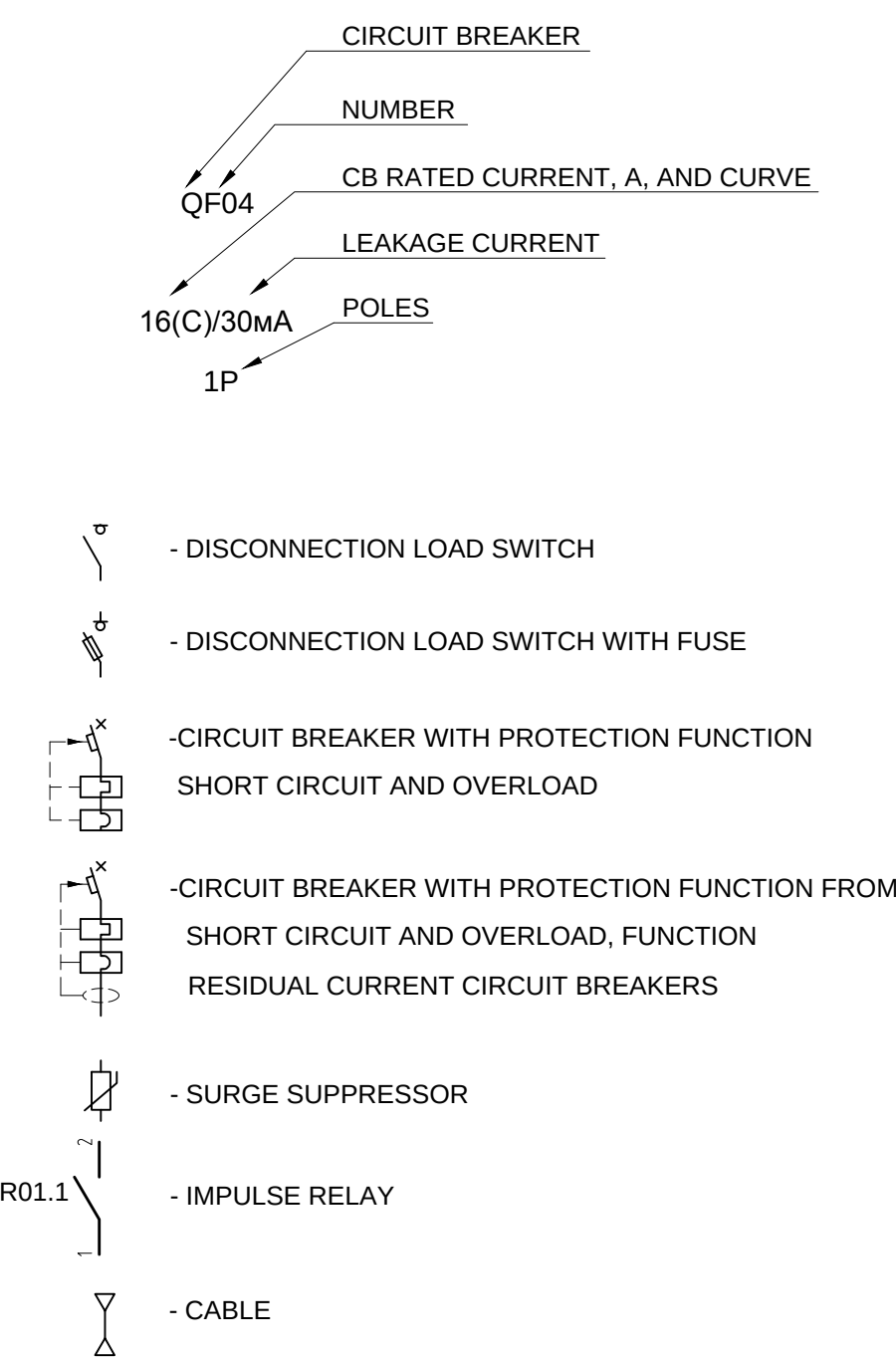
List of elements

Pos.	Description	Qnt.	Notes
	Metal type, IP40, wall mounting, include :		Schneider
QS01	Switch load 3P, 400V, 50A	1	Schneider
QS01	Switch load with fuse 3P, 400V, 50A	1	Schneider
EVS	Surge suppressor, 4p, characteristic "C"	1	Schneider
QF00	Circuit breaker 230V In=6A, 1p	1	Schneider
QF01...QF08	Circuit breaker 400V In=C16A, 3p	9	Schneider
QF09...QF12	Circuit breaker 230V In=C16A, 1p	4	Schneider
H1-H3	Lamps of voltage signalization 1A, 220V	3	Schneider
F1-F3	Terminal with fuse 1A, 220V	3	Schneider
KL1	Relay 8NO, AC 230V In=6A	1	Schneider
KL2...KL5	Relay 4NO, AC 230V In=6A	4	Schneider
SA1	Switch to 4 conditions (according to the diagram)	1	Schneider
SB1, SB3, SB5	Push button without fixation, 1NO, 230V, Red, XB4BA42	4	Schneider
SB2, SB4, SB6	Push button without fixation, 1NO, 230V, Green, XB4BA31	4	Schneider
HLG1-HLG4	Signal lamp, LED, Green, 230V, XB4BVM3	4	Schneider
KM1...KM8	Relay 4NO, AC 230V In=16A	8	Schneider
KM9...KM11	Relay 2NO, AC 230V In=16A	3	Schneider
	Devices on the site:		
AA1	Twilight switch ARGUS, MTN544819, IP54, 10A, 230V	1	Legrand



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBLISI, GEORGIA

LEGENDS:



NOTES:

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Radisson Blu Telegraph Hotel
Electrical
B1LOP1
Single Line Diagram.

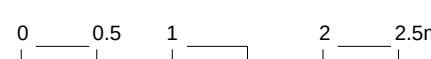
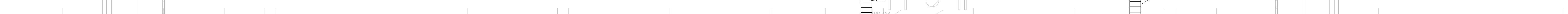
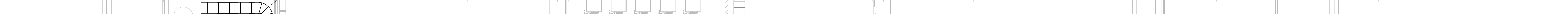
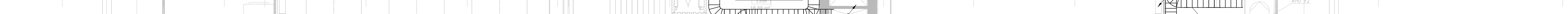
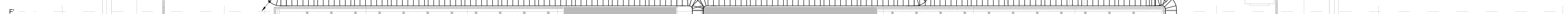
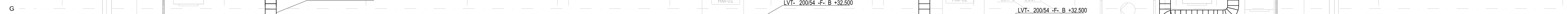
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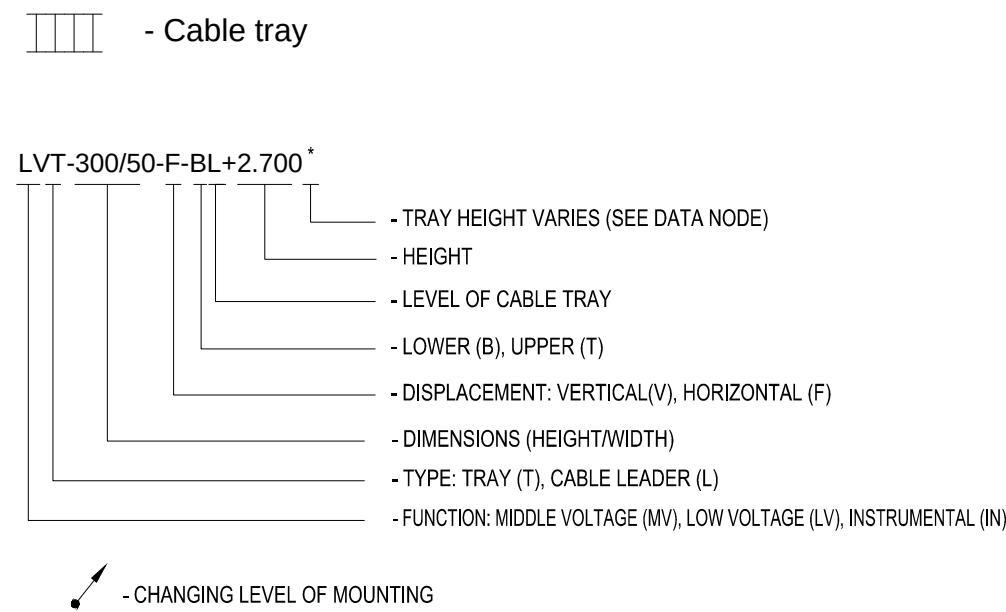
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 - Cable tray



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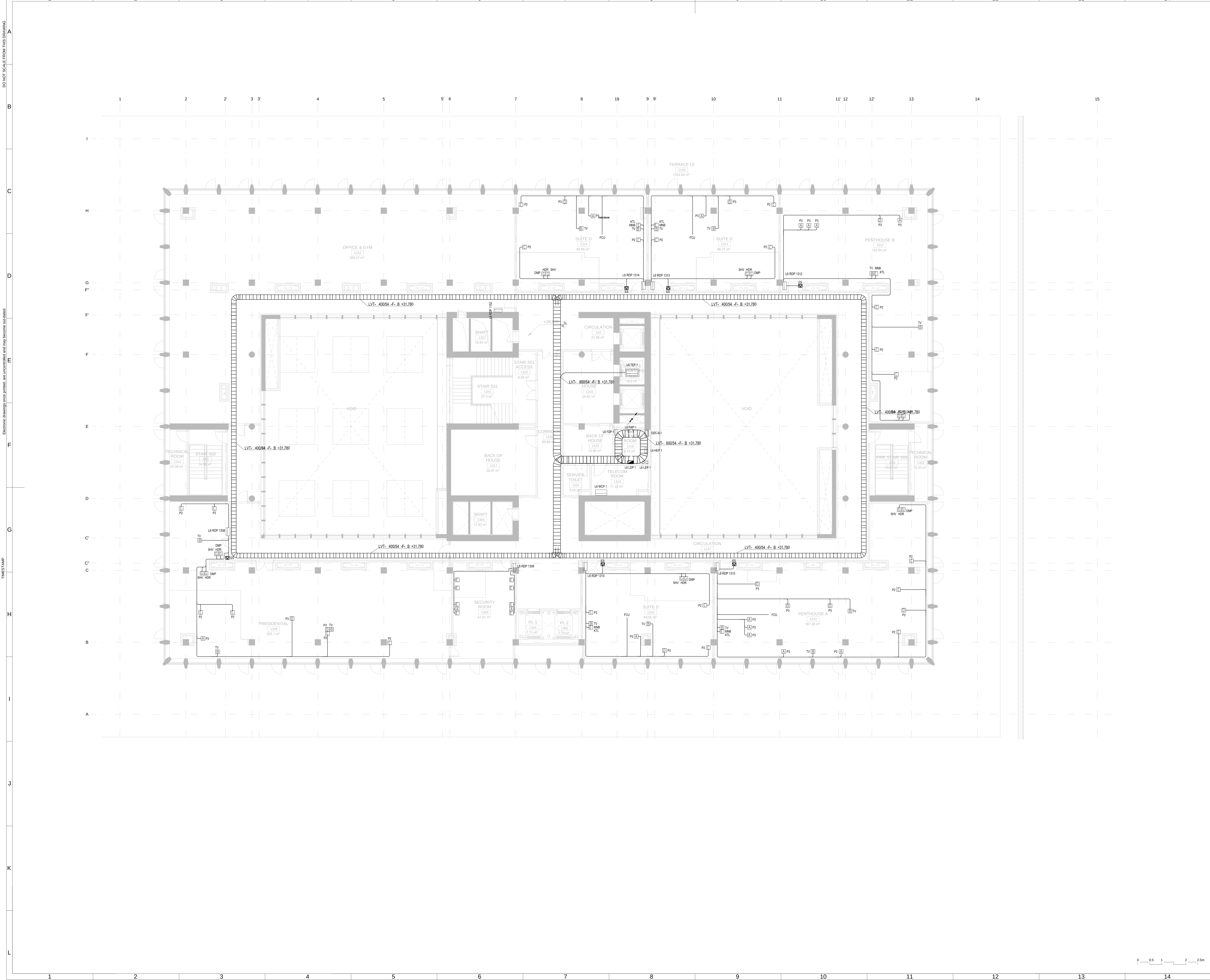
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Power Layout at Level L7

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Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBILISI, GEORGIA

LEGENDS:

- Cable tray

LVT-300/50-F-BL+2.700"

- TRAY HEIGHT VARIES (SEE DATA NODE)
- HEIGHT
- LEVEL OF CABLE TRAY
- LOWER (B), UPPER (U)
- DISPLACEMENT VERTICAL (V), HORIZONTAL (H)
- DIMENSIONS (HEIGHT, WIDTH)
- TYPE, TRAY (T), CABLE LEADER (L)
- FUNCTION, MODULE VOLTAGE (MV), LOW VOLTAGE (LV), INSTRUMENTAL (IN)

- CHANGING LEVEL OF MOUNTING

SYMBOL	DESCRIPTION
[A]	SOCKET BLOCK TYPE A (1-TEL, DATA, 2 POWER IP-N+PE)
[B]	SOCKET BLOCK TYPE B (1-TV, 1-DATA, 2 POWER IP-N+PE)
[C]	SOCKET BLOCK TYPE C (1-TEL, 2 POWER IP-N+PE)
[D]	SOCKET BLOCK TYPE D (1-MCH, 1-TEL, DATA, 3 POWER IP-N+PE)
[E]	SOCKET BLOCK TYPE E (2 POWER IP-N+PE)
[F]	SOCKET BLOCK TYPE F (1 POWER IP-N+PE, IP 20)
[G]	SOCKET BLOCK TYPE G (1 POWER IP-N+PE, IP 44)

NOTES:

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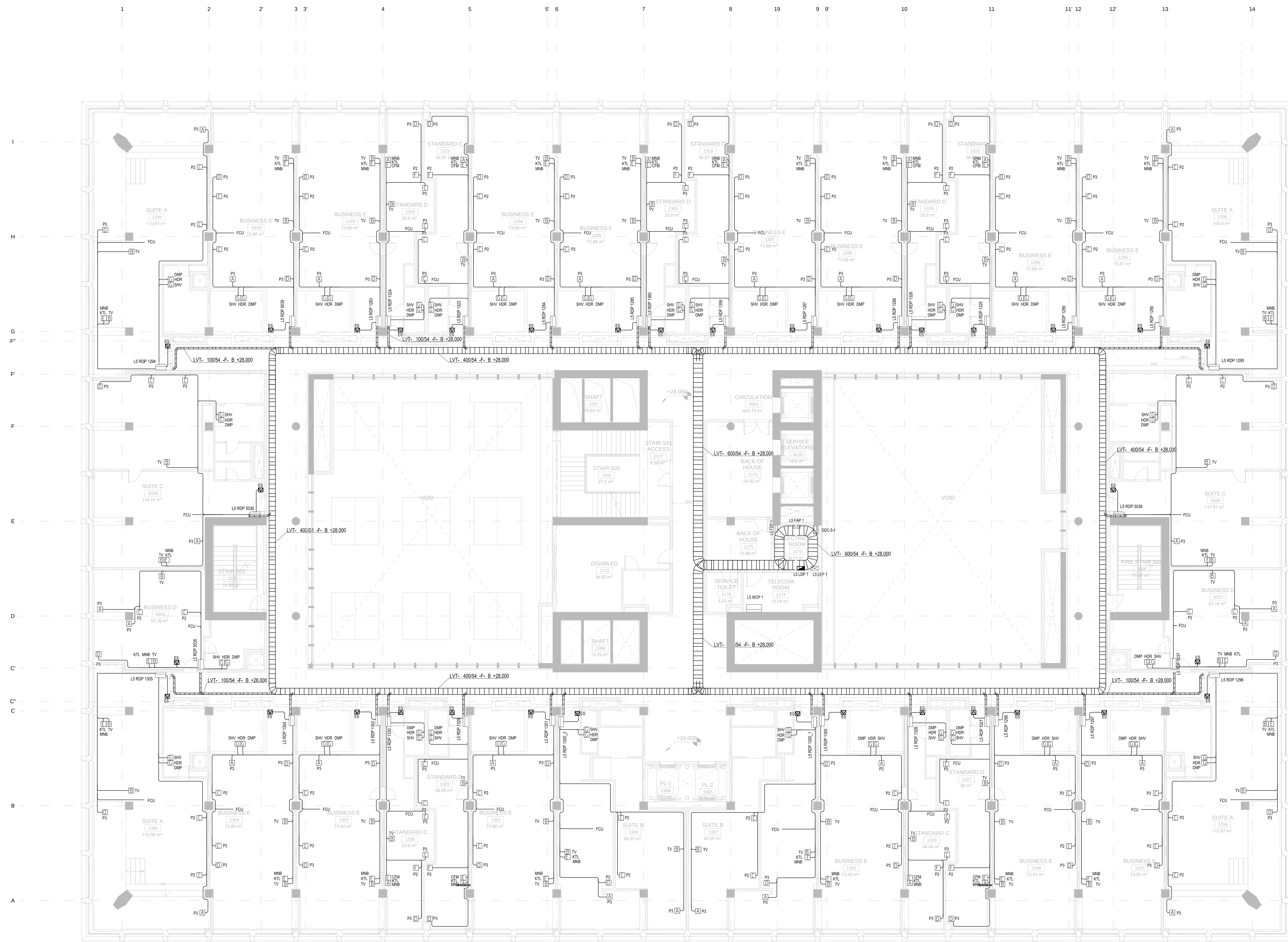
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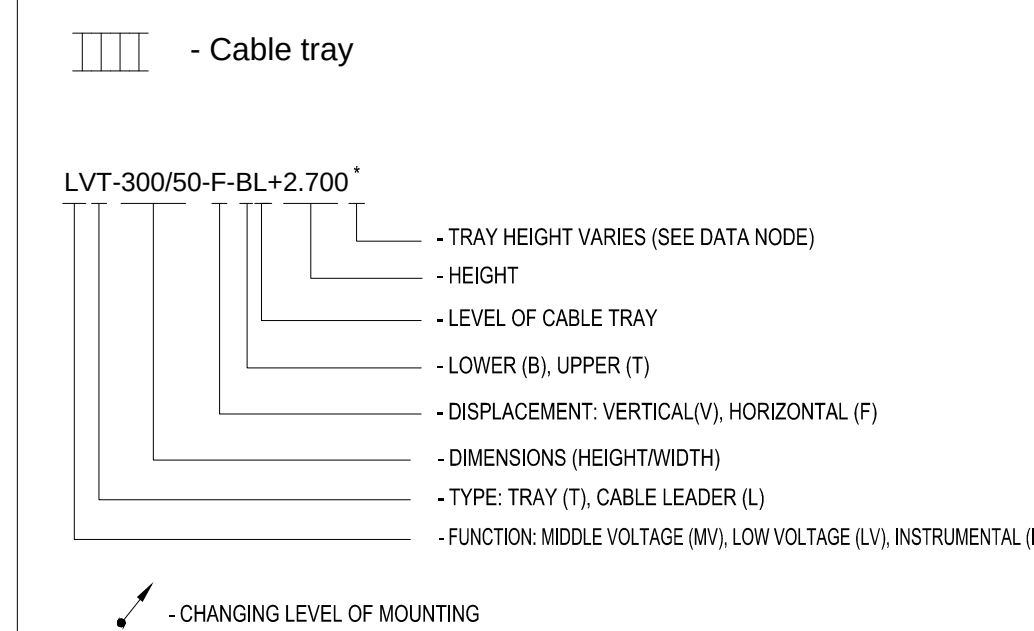
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Electrical
Power Layout at Level L6**

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Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBILISI, GEORGIA

LEGENDS:



SYMBOL	DESCRIPTION
[A]	SOCKET BLOCK TYPE A (1-TELDATA, 2 POWER 1P-WHP)
[B]	SOCKET BLOCK TYPE B (1-TEL, 1-TELDATA, 2 POWER 1P-WHP)
[C]	SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P-WHP)
[D]	SOCKET BLOCK TYPE D (1-MDH, 1-TELDATA, 3 POWER 1P-WHP)
[E]	SOCKET BLOCK TYPE E (2 POWER 1P-WHP)
[F]	SOCKET BLOCK TYPE F (1 POWER 1P-WHP, 1P 20)
[G]	SOCKET BLOCK TYPE G (1 POWER 1P-WHP, 1P 40)

NOTES:

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DOCUMENT REVIEW STATUS

- ☐ **A** REVIEWED
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Revise and re-submit. Work may proceed subject to incorporation of comments
- ☐ **C** OBJECTION
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- ☐ **D** REJECTED
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Work may proceed

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Radisson Blu Telegraph Hotel
Electrical
Power Layout at Level L5

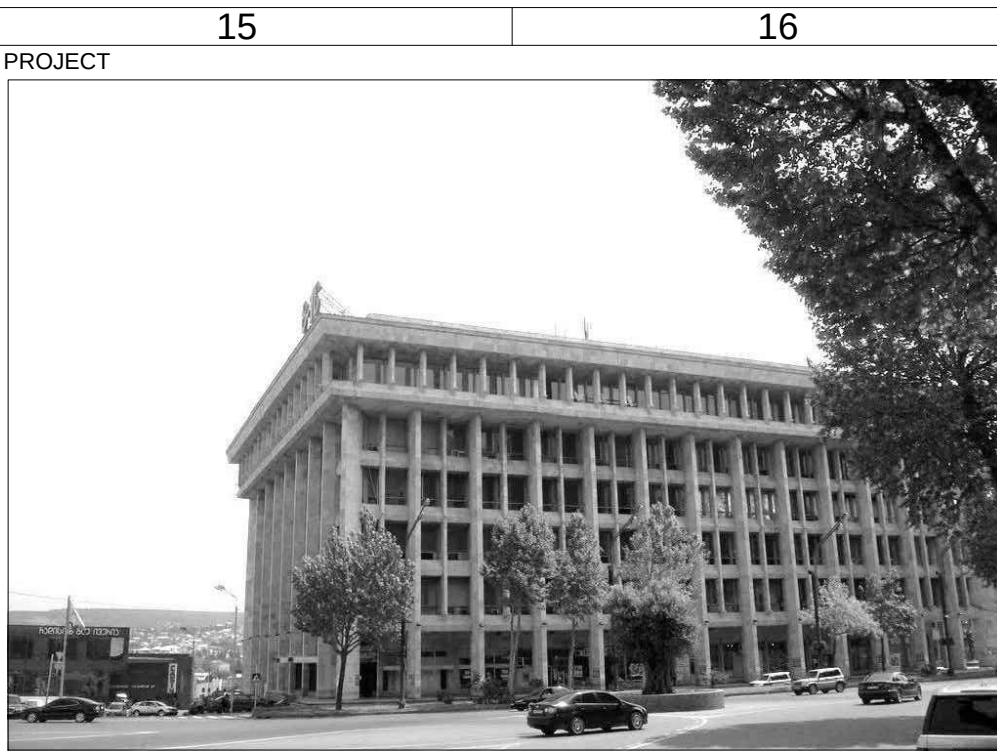
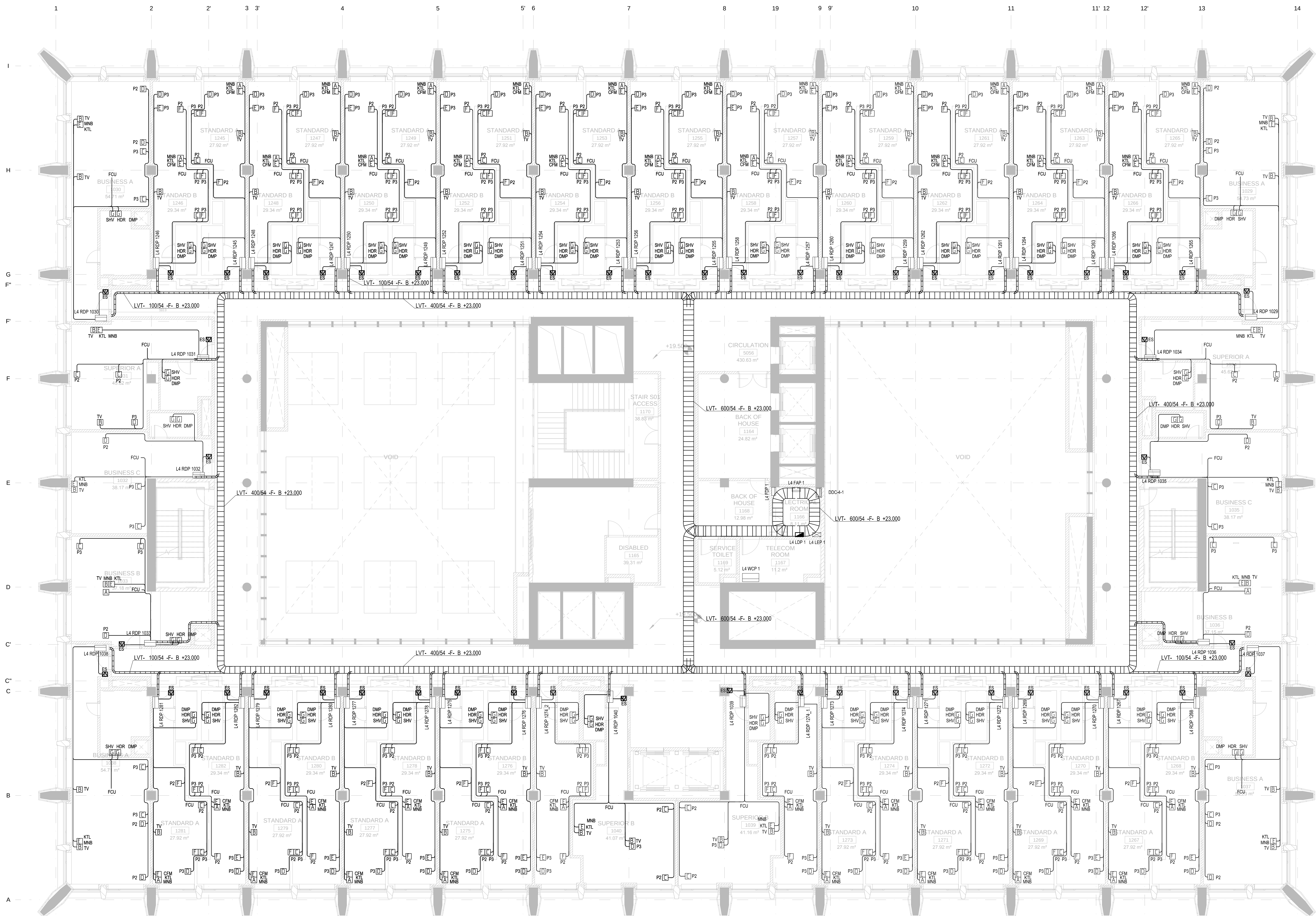
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Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, Tbilisi, GEORGIA

LEGENDS:

- Cable tray
- LVT-300/50-F-BL-2.700
- TRAY HEIGHT VARIES (SEE DATA NODE)
- HEIGHT
- LEVEL OF CABLE TRAY
- LOWER (B), UPPER (T)
- DISPLACEMENT (VERTICAL/0), HORIZONTAL (F)
- DIMENSIONS (HEIGHT/WIDTH)
- TYPE: TRAY (T), CABLE LEADER (L)
- FUNCTION: MIDDLE VOLTAGE (MV), LOW VOLTAGE (LV), INSTRUMENTAL (IN)
- CHANGING LEVEL OF MOUNTING

SYMBOL	DESCRIPTION
A	SOCKET BLOCK TYPE A (1-TEL/DATA, 2 POWER 1P+N+PE)
B	SOCKET BLOCK TYPE B (1-TV, 1-DATA, 2 POWER 1P+N+PE)
C	SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P+N+PE)
D	SOCKET BLOCK TYPE D (1-MDH, 1-TEL/DATA, 3 POWER 1P+N+PE)
E	SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
F	SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, IP 20)
G	SOCKET BLOCK TYPE G (1 POWER 1P+N+PE, IP 44)

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- ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

DOCUMENT REVIEW STATUS

- ☐ A REVIEWED
Work may proceed
- ☐ B REVIEWED WITH COMMENTS
Review and re-submit. Work may proceed subject to incorporation of comments
- ☐ C REJECTED
Review and re-submit. Work may not proceed
- ☐ D REJECTED
- ☐ E REVIEW NOT REQUIRED
Work may proceed

No	Date	Description	Drawn	Checked	Approved
1	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)	APPROVED BY LDE
AECOM	
NAME	SCALE
	1:100
	PAPER SIZE
	A0

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR

DRAWN BY	CHECKED BY	APPROVED BY
NAME	NAME	NAME
I.S.	R.F.	A.S.
DATE: 30/12/2015	DATE: 1/12/2015	DATE: 2/12/2015

Radisson Blu Telegraph Hotel
Electrical
Power Layout at Level L4

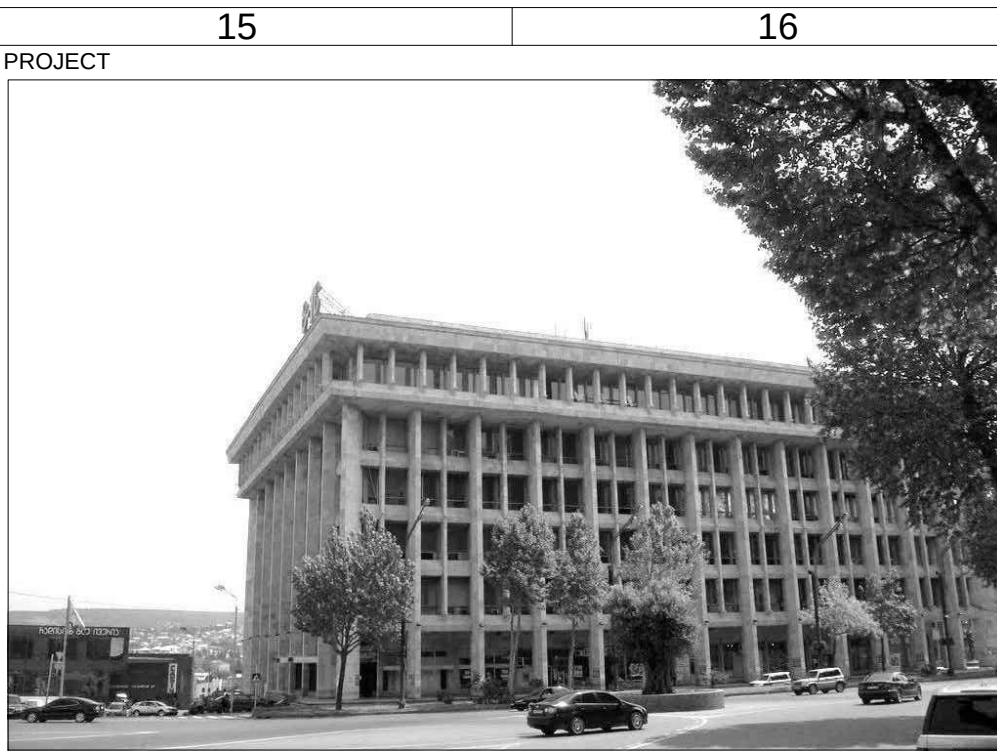
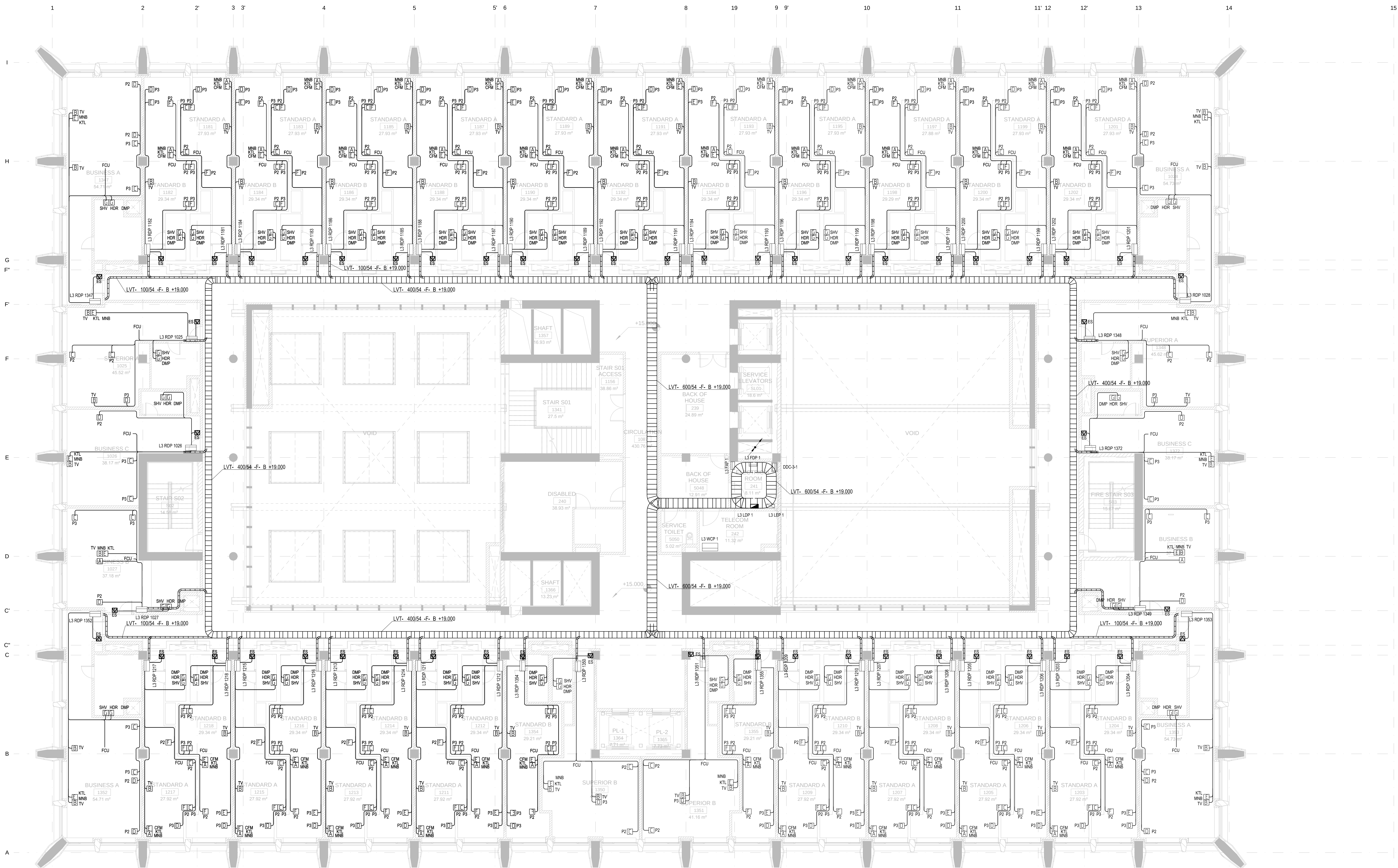
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RBTH-AE-EL-TD-L4-0014	TD 0

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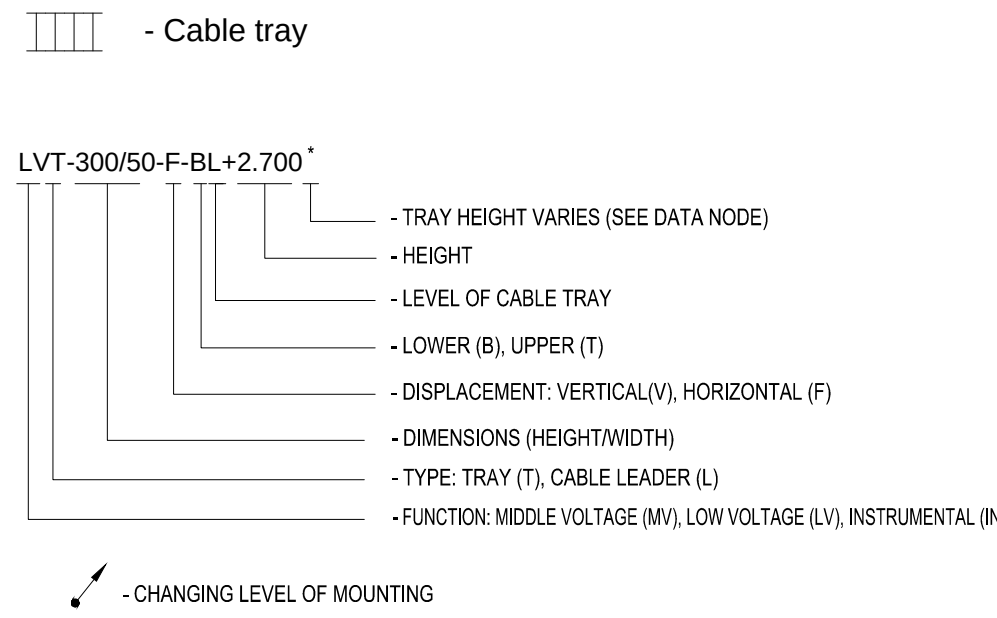
Electronic drawings once printed, are uncontrolled and may become outdated.

TIME/STAMP



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBILISI, GEORGIA

LEGENDS:



SYMBOL	DESCRIPTION
[A]	SOCKET BLOCK TYPE A (1-TEL/DATA, 2 POWER 1P+N+PE)
[B]	SOCKET BLOCK TYPE B (1-TV, 2 DATA, 2 POWER 1P+N+PE)
[C]	SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P+N+PE)
[D]	SOCKET BLOCK TYPE D (1-MIDH, 1-TEL/DATA, 3 POWER 1P+N+PE)
[E]	SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
[F]	SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, IP 20)
[G]	SOCKET BLOCK TYPE G (1 POWER 1P+N+PE, IP 44)

NOTES:

- EQUIPMENT AND WAY OF INSTALLATION MUST CONFORM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT.
- ALL EQUIPMENT (PANELS, SWITCHES, ACTUATORS, WIRING, ETC.) MUST HAVE PERMANENT MARKING ACCORDING TO THE NUMBERING IN THE DRAWING.
- USE CABLE WITH COPPER WIRE IN PVC NON SPREADING FIRE INSULATION.
- TOP CONNECTION TO THE PANEL SHOULD BE ARRANGED.
- FOR LEGENDS AND DETAILS SEE LAYOUT 'GENERAL NOTES'.
- SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
- ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

DOCUMENT REVIEW STATUS

- | | | |
|--------------------------|---|---|
| ☐ | A | REVIEWED
Work may proceed |
| ☐ | B | REVIEWED WITH COMMENTS
Revised and re-submitted. Work may proceed subject to incorporation of comments |
| ☐ | C | REVISION
Revised and re-submitted. Work may not proceed |
| ☐ | D | REJECTED |
| ☐ | E | REVIEW NOT REQUIRED
Work may proceed |

No	Date	Description	Drawn	Checked	Approved
TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)	APPROVED BY LDE
AECOM	AECOM
NAME	SCALE
	NTS
DATE	PAPER SIZE
	A0

DRAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR

AECOM

DRAWN BY	CHECKED BY	APPROVED BY
NAME	NAME	NAME
I.S.	R.F.	A.S.
DATE	DATE	DATE
30/12/2015	1/12/2015	2/12/2015

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Power and Cable trays Layout at Level L3

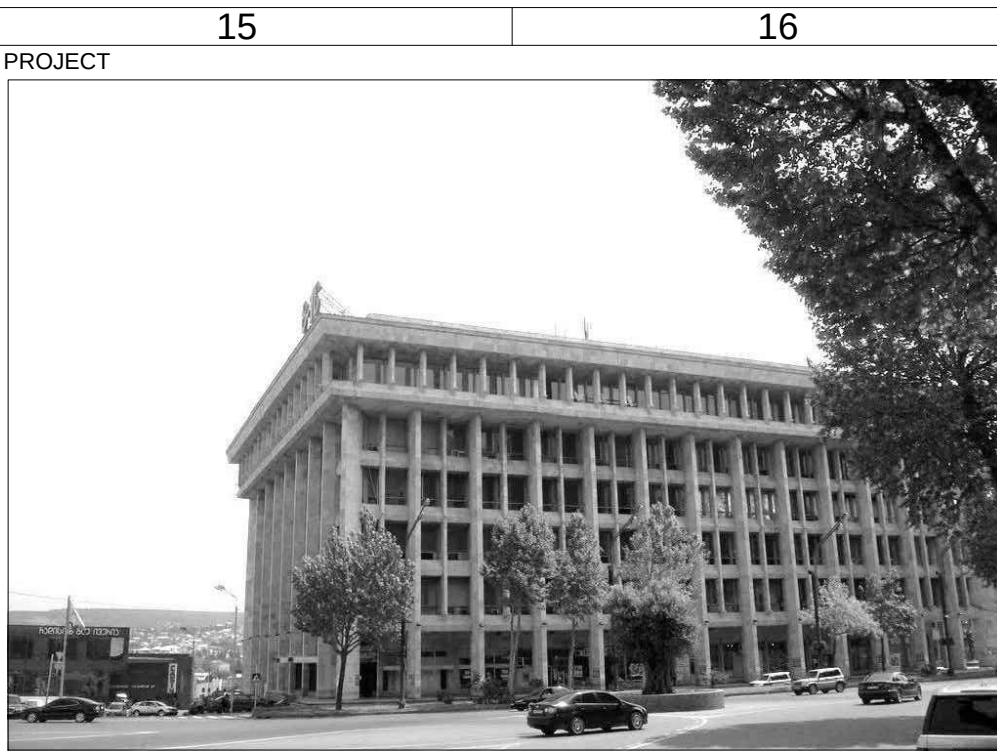
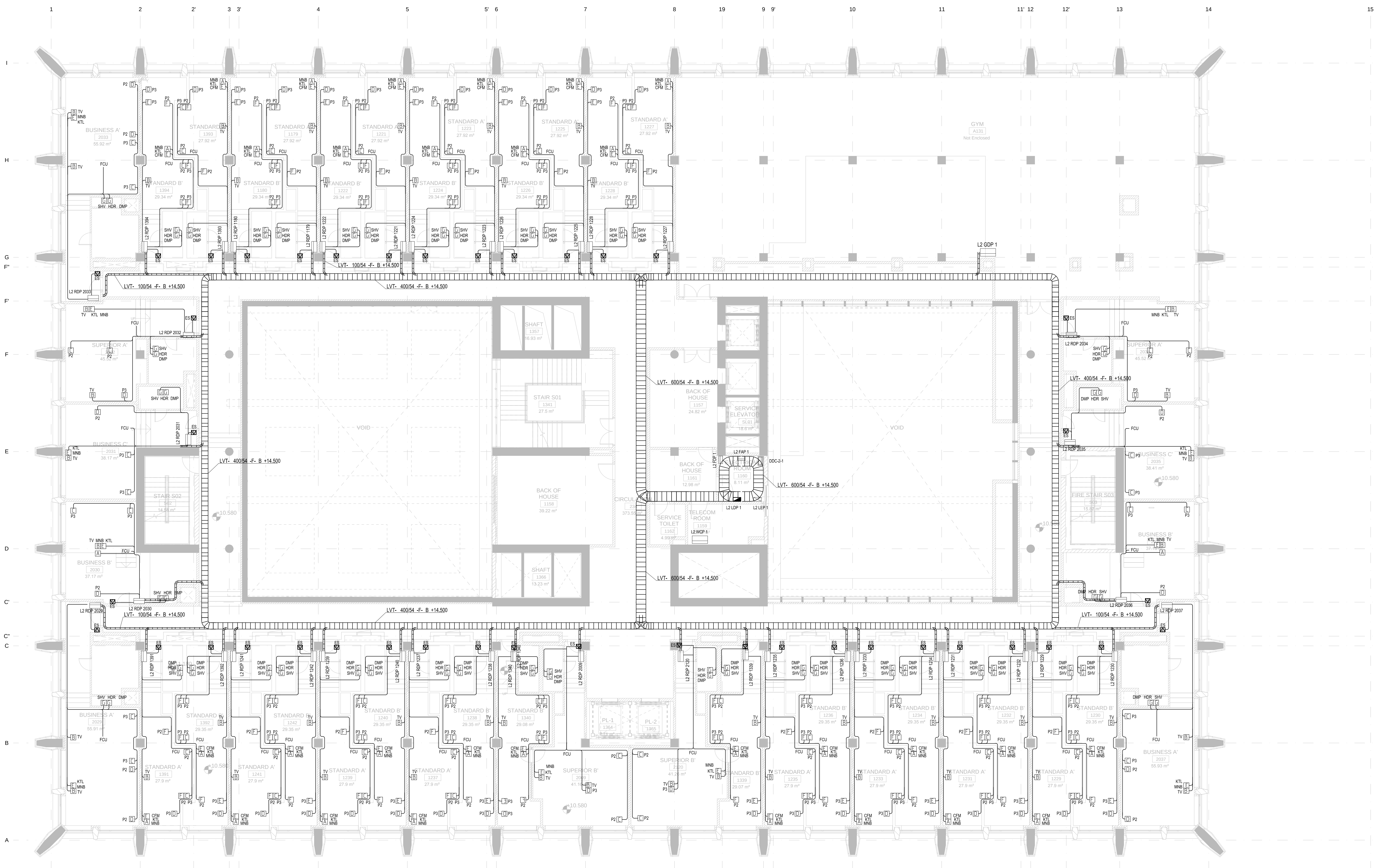
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RBTH-AE-EL-TD-L3-0015	TD0

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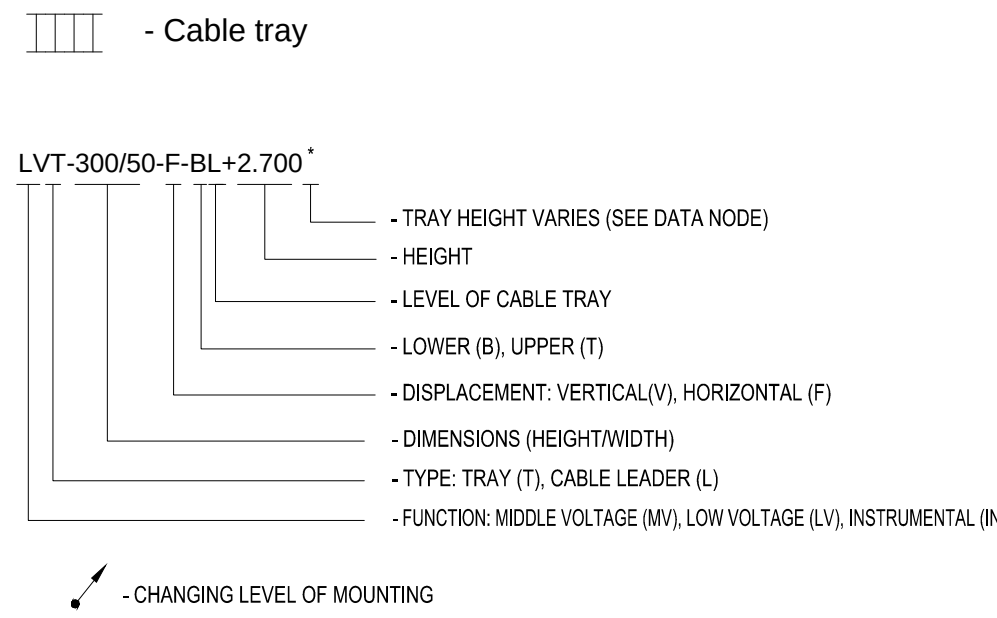
Electronic drawings once printed, are uncontrolled and may become outdated.

TIME/STAMP



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBILISI, GEORGIA

LEGENDS:



SYMBOL	DESCRIPTION
[A]	SOCKET BLOCK TYPE A (1-TEL, DATA, 2 POWER 1P+N+PE)
[B]	SOCKET BLOCK TYPE B (1-TV, 1 DATA, 2 POWER 1P+N+PE)
[C]	SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P+N+PE)
[D]	SOCKET BLOCK TYPE D (1-MIX, 1-TEL, DATA, 3 POWER 1P+N+PE)
[E]	SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
[F]	SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, 1P 20)
[G]	SOCKET BLOCK TYPE G (1 POWER 1P+N+PE, 1P 40)

NOTES:

- EQUIPMENT AND WAY OF INSTALLATION MUST CONFIRM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT.
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DOCUMENT REVIEW STATUS

- ☐ A REVIEWED
Work may proceed
- ☐ B REVIEWED WITH COMMENTS
Review and re-submit. Work may proceed subject to incorporation of comments
- ☐ C REJECTION
Review and re-submit. Work may not proceed
- ☐ D REJECTED
- ☐ E REVIEW NOT REQUIRED
Work may proceed

REVISIONS	No	Date	Description	Drawn	Checked	Approved
TD0	4/12/2015		TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)	APPROVED BY LDE
AECOM	
NAME	SCALE
	1:100
DRAWING STATUS	PAPER SIZE
	A0

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR		
DRAWN BY	CHECKED BY	APPROVED BY
NAME S.	NAME R.F.	NAME A.S.
DATE 30/12/2015	DATE 1/12/2015	DATE 2/12/2015

DRAWING TITLE
Radisson Blu Telegraph Hotel
Electrical
Power Layout at Level L2

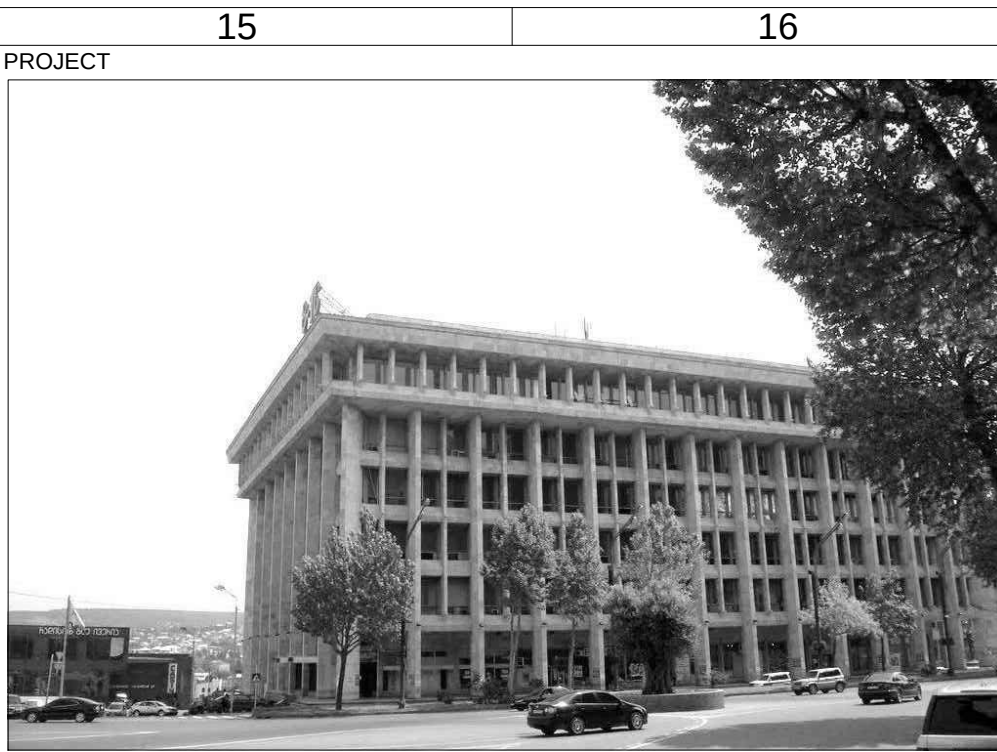
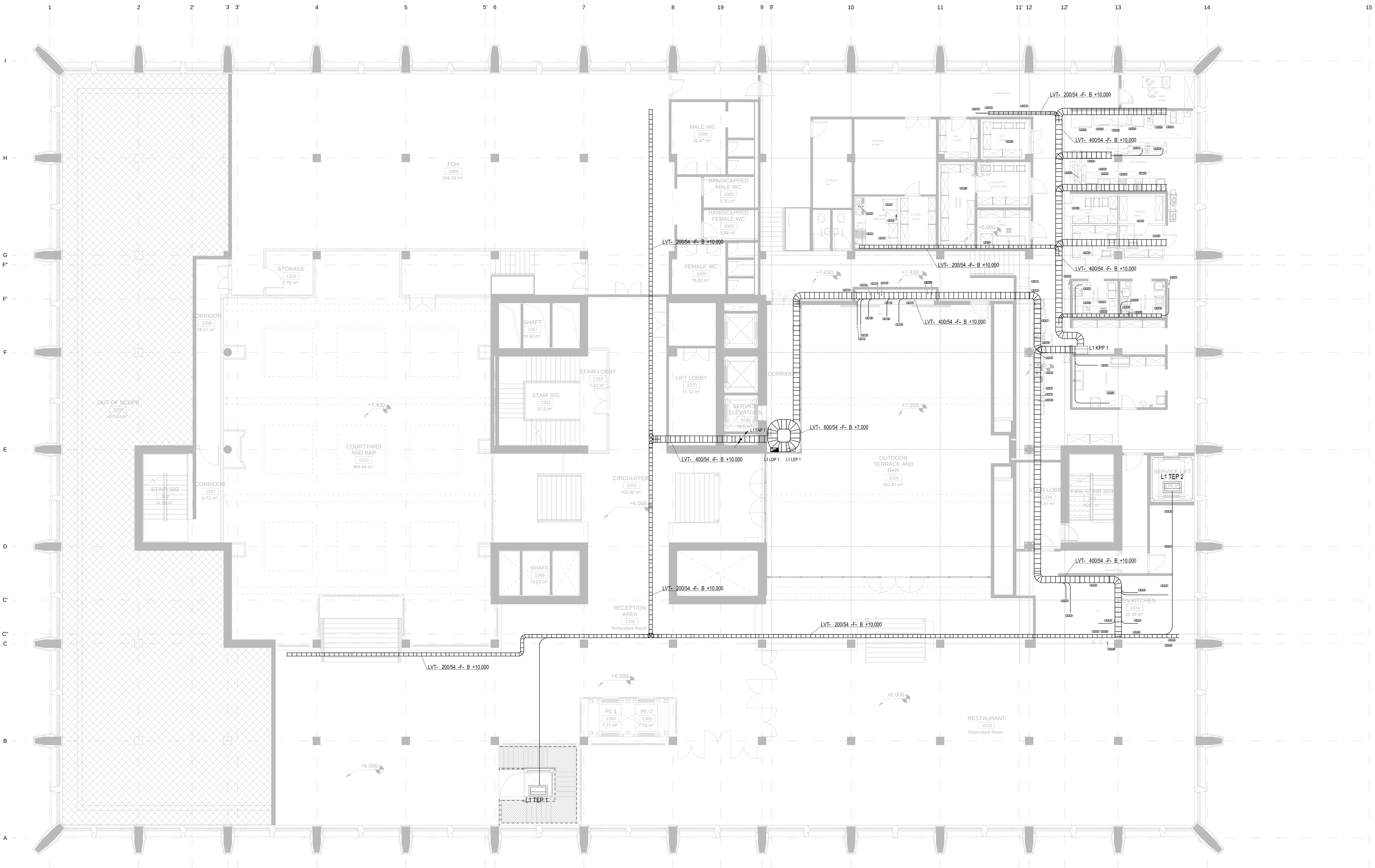
DRAWING NUMBER	REVISION
RBTH-AE-EL-TD-L2-0016	TD0

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Electronic drawings once printed, are uncontrolled and may become outdated.

TIME/STAMP



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBILISI, GEORGIA

- LEGENDS:
- Cable tray
 - TRAY HEIGHT VARIES (SEE DATA NODE)
 - HEIGHT
 - LEVEL OF CABLE TRAY
 - LOWER (B), UPPER (U)
 - DISPLACEMENT VERTICAL (V), HORIZONTAL (H)
 - DIMENSIONS (HEIGHT/WIDTH)
 - TYPE, TRAY (T), CABLE LEADER (L)
 - FUNCTION, MIDDLE VOLTAGE (MV), LOW VOLTAGE (LV), INSTRUMENTAL (IN)
 - CHANGING LEVEL OF MOUNTING

- NOTES:
- EQUIPMENT AND WAY OF INSTALLATION MUST CONFIRM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT.
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 - USE CABLE WITH COPPER WIRE IN PVC NON SPREADING FIRE INSULATION.
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 - FOR LEGENDS AND DETAILS SEE LAYOUT GENERAL NOTES.
 - SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
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DOCUMENT REVIEW STATUS				
☐ A	REVIEWED	Work may proceed		
☐ B	REVIEWED WITH COMMENTS	Revised and re-submitted. Work may proceed subject to incorporation of comments		
☐ C	REJECTED	Revised and re-submitted. Work may not proceed		
☐ D	REJECTED			
☐ E	REVIEW NOT REQUIRED	Work may proceed		

REVISIONS				
No	Date	Description	Drawn	Checked
TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)		APPROVED BY LDE	
NAME		DATE	
SCALE		PAPER SIZE	
1:100		A0	

DRAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR

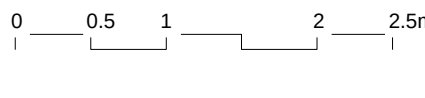
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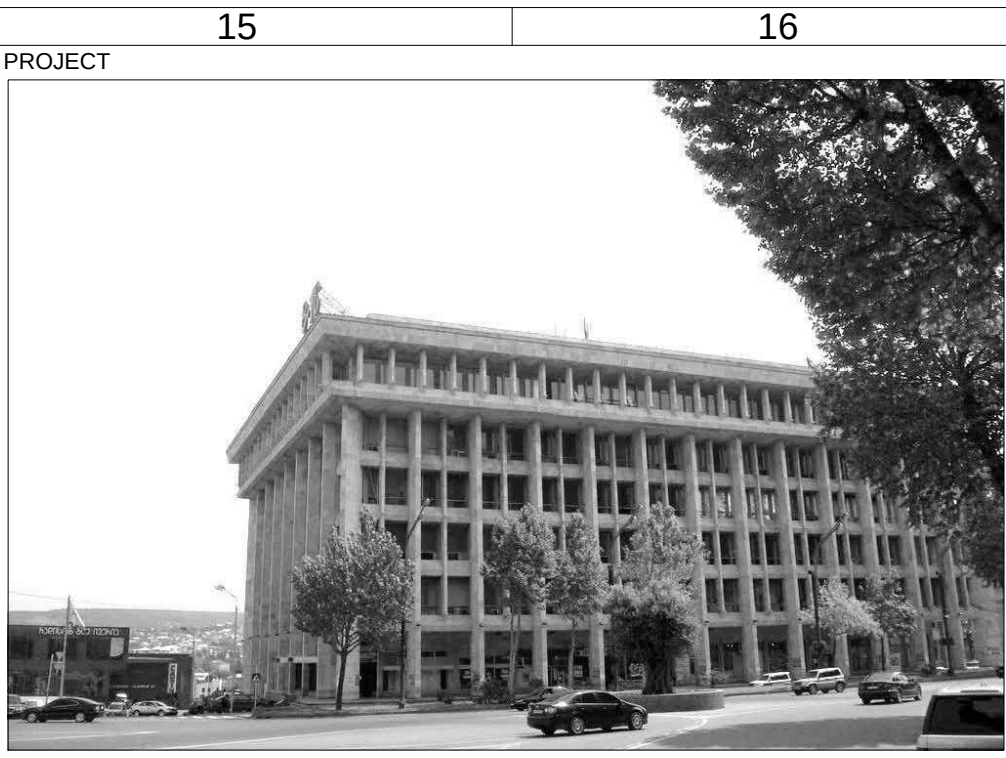
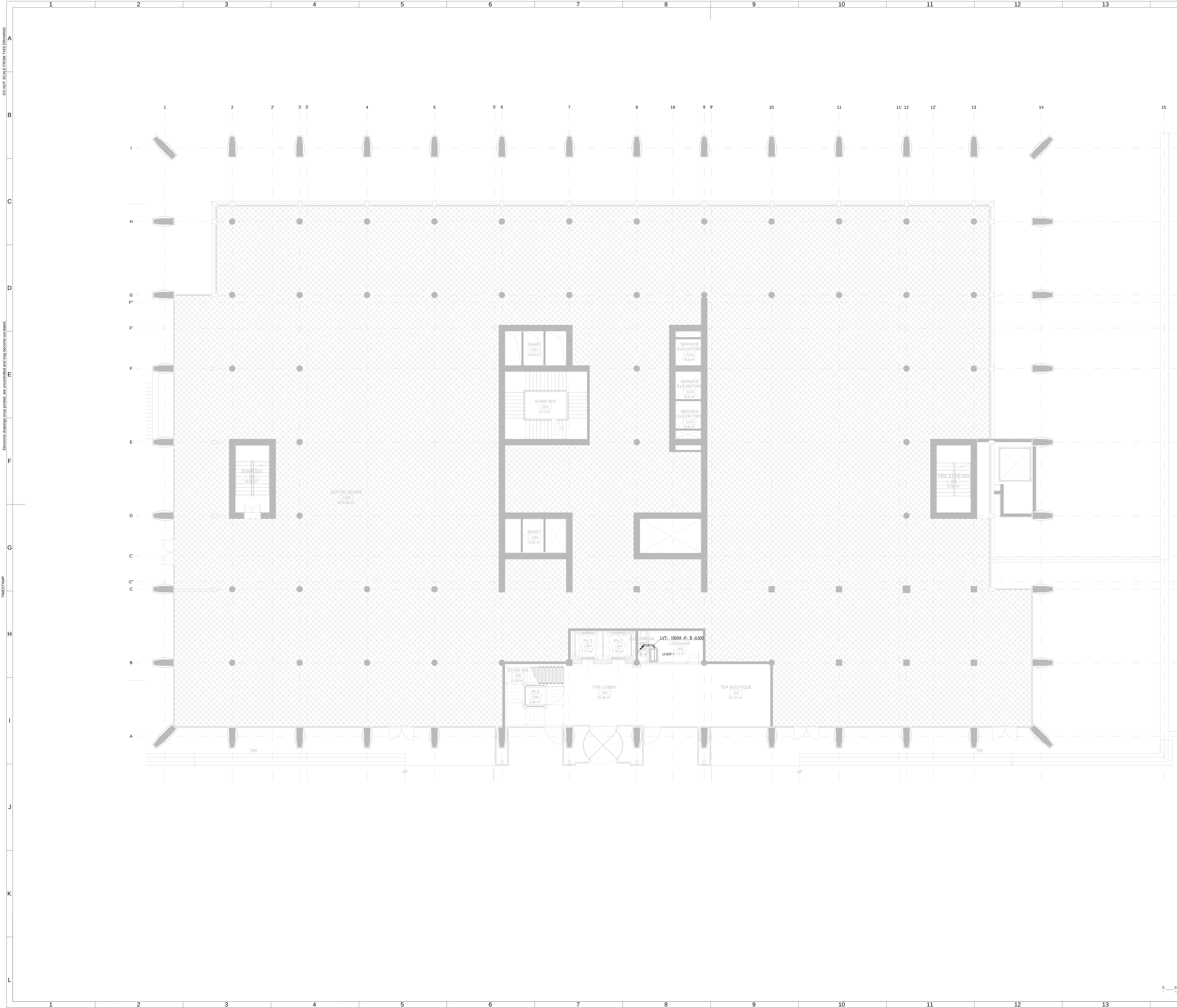
DRAWN BY		CHECKED BY		APPROVED BY	
NAME		NAME		NAME	
I.S.		R.F.		A.S.	
DATE: 30/12/2015		DATE: 1/12/2015		DATE: 2/12/2015	

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Power Layout at Level L0

DRAWING NUMBER		REVISION	
RBTH-AE-EL-TD-L1-0017		TD0	





Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, Tbilisi, GEORGIA

LEGENDS:

- Cable tray
- TRAY HEIGHT VARIES (SEE DATA NODE)
- HEIGHT
- LEVEL OF CABLE TRAY
- LOWER (B), UPPER (T)
- DISPLACEMENT VERTICAL (V), HORIZONTAL (F)
- DIMENSIONS (HEIGHT/WIDTH)
- TYPE TRAY (T), CABLE LEADER (L)
- FUNCTION: MIDDLE VOLTAGE (MV), LOW VOLTAGE (LV), INSTRUMENTAL (IN)
- CHANGING LEVEL OF MOUNTING

NOTES:

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- USE CABLE WITH COPPER WIRE IN PVC NON SPREADING FIRE INSULATION.
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DOCUMENT REVIEW STATUS

- ☐ A REVIEWED
Work may proceed
- ☐ B REVIEWED WITH COMMENTS
Revised and re-submitted. Work may proceed subject to incorporation of comments
- ☐ C REJECTED
Revised and re-submitted. Work may not proceed
- ☐ D REJECTED
- ☐ E REVIEW NOT REQUIRED
Work may proceed

REVISIONS		Description	Drawn	Checked	Approved
No	Date				
TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)		APPROVED BY LDE	
NAME	SCALE	DATE	PAPER SIZE
	1:100		A0

DRAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR

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NAME	NAME	NAME
I.S.	R.F.	A.S.
DATE: 30/12/2015	DATE: 1/12/2015	DATE: 2/12/2015

DRAWING TITLE

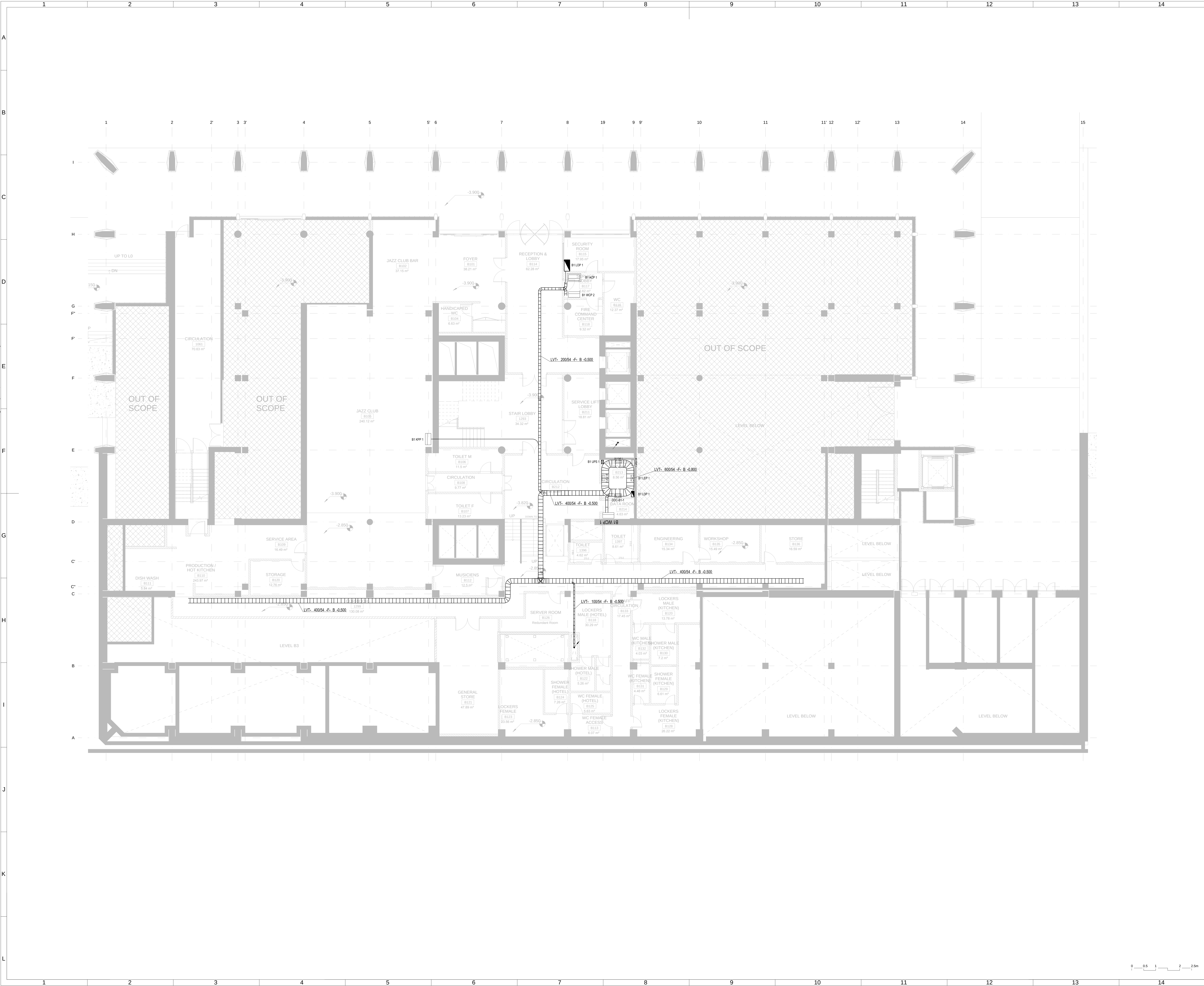
Radisson Blu Telegraph Hotel
Electrical
Power Layout at Level L0

DRAWING NUMBER	REVISION
RBTH-AE-EL-TD-L0-0018	TD0

DO NOT SCALE FROM THIS DRAWING

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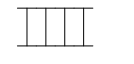
TIME/STAMP





Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, Tbilisi, Georgia

LEGENDS:

 - Cable tray

LVT-300/50-F-BL+2.700"

- TRAY HEIGHT VARIES (SEE DATA NODE)
- HEIGHT
- LEVEL OF CABLE TRAY
- LOWER (B), UPPER (T)
- DISPLACEMENT VERTICAL (V), HORIZONTAL (F)
- DIMENSIONS (HEIGHT/WIDTH)
- TYPE: TRAY (T), CABLE LEADER (L)
- FUNCTION: MOUL VOLTAGE (MV), LOW VOLTAGE (LV), INSTRUMENTAL (IN)

 - CHANGING LEVEL OF MOUNTING

NOTES:

- EQUIPMENT AND WAY OF INSTALLATION MUST CONFIRM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT.
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- SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
- ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

DOCUMENT REVIEW STATUS

☐ A	REVIEWED
Work may proceed	
☐ B	REVIEWED WITH COMMENTS
Review and re-submit. Work may proceed subject to incorporation of comments	
☐ C	REJECTED
Review and re-submit. Work may not proceed	
☐ D	REJECTED
Review and re-submit. Work may not proceed	
☐ E	REVIEW NOT REQUIRED
Work may proceed	

REVISIONS

No	Date	Description	Drawn	Checked	Approved
TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)



AECOM

APPROVED BY LDE

NAME: _____ SCALE: 1:100 DATE: _____ PAPER SIZE: A0

DRAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR



AECOM

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NAME: I.S.	NAME: R.F.	NAME: A.S.
DATE: 30/12/2015	DATE: 1/12/2015	DATE: 2/12/2015

DRAWING TITLE

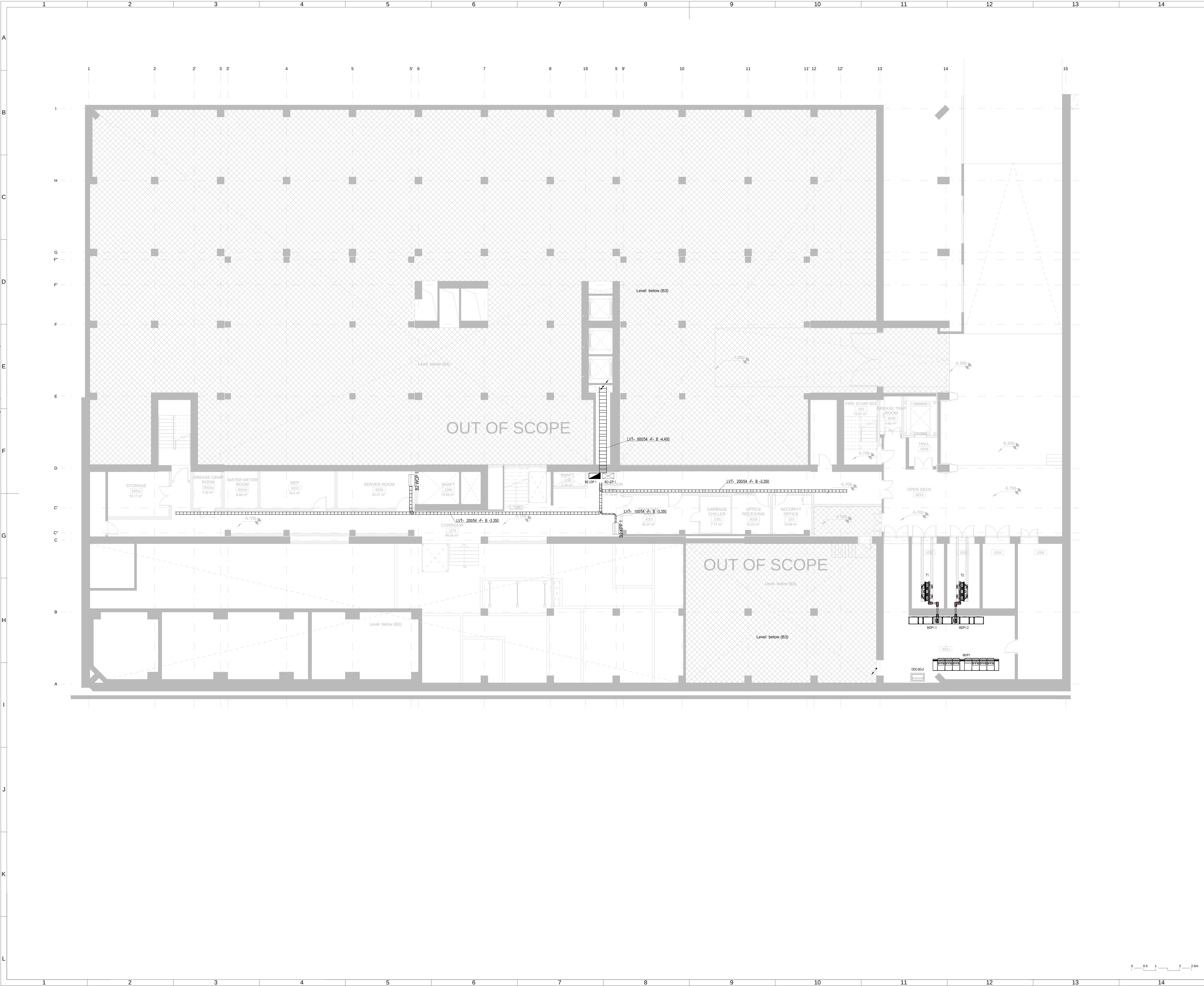
Radisson Blu Telegraph Hotel
Electrical
Power Layout at Level B1

DRAWING NUMBER	REVISION
RBTH-AE-EL-TD-B1-0019	TD0

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TIME/STAMP

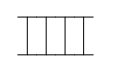


PROJECT



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, Tbilisi, GEORGIA

LEGENDS:

 - Cable tray

LVT-300/50-F-BL+2.700

- TRAY HEIGHT VARIES (SEE DATA NODE)
- HEIGHT
- LEVEL OF CABLE TRAY
- LOWER (B), UPPER (T)
- DISPLACEMENT VERTICAL (V), HORIZONTAL (F)
- DIMENSIONS (HEIGHT/WIDTH)
- TYPE: TRAY (T), CABLE LEADER (L)
- FUNCTION: MIDDLE VOLTAGE (MV), LOW VOLTAGE (LV), INSTRUMENTAL (IN)

 - CHANGING LEVEL OF MOUNTING

NOTES:

- EQUIPMENT AND WAY OF INSTALLATION MUST CONFIRM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT.
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- SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
- ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

DOCUMENT REVIEW STATUS

☐ A	REVIEWED Work may proceed
☐ B	REVIEWED WITH COMMENTS Revised and re-submit. Work may proceed subject to incorporation of comments
☐ C	REJECTION Revised and re-submit. Work may not proceed
☐ D	REJECTED
☐ E	REVIEW NOT REQUIRED Work may proceed

REVISIONS

No	Date	Description	Drawn	Checked	Approved
TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)

AECOM

APPROVED BY LDE

DATE

PAPER SIZE

A0

DRAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR

AECOM

DRAWN BY

NAME

I.S.

DATE

30/12/2015

CHECKED BY

NAME

R.F.

DATE

1/12/2015

APPROVED BY

NAME

A.S.

DATE

2/12/2015

DRAWING TITLE

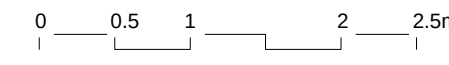
Radisson Blu Telegraph Hotel
Electrical
Power Layout at Level B2

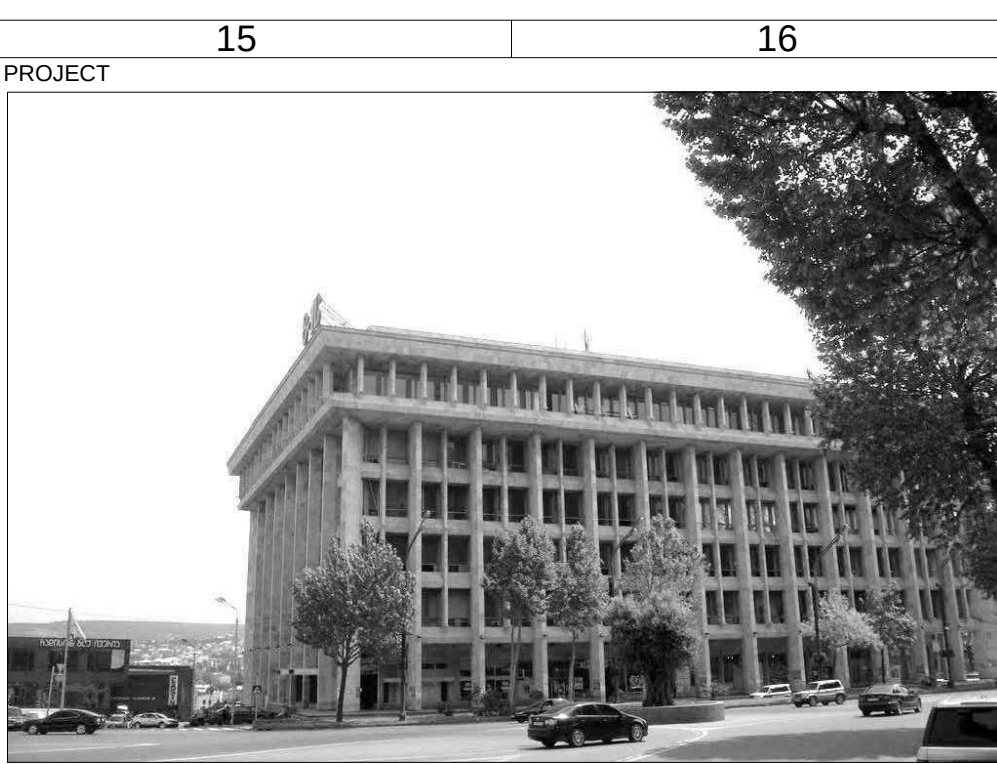
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REVISION

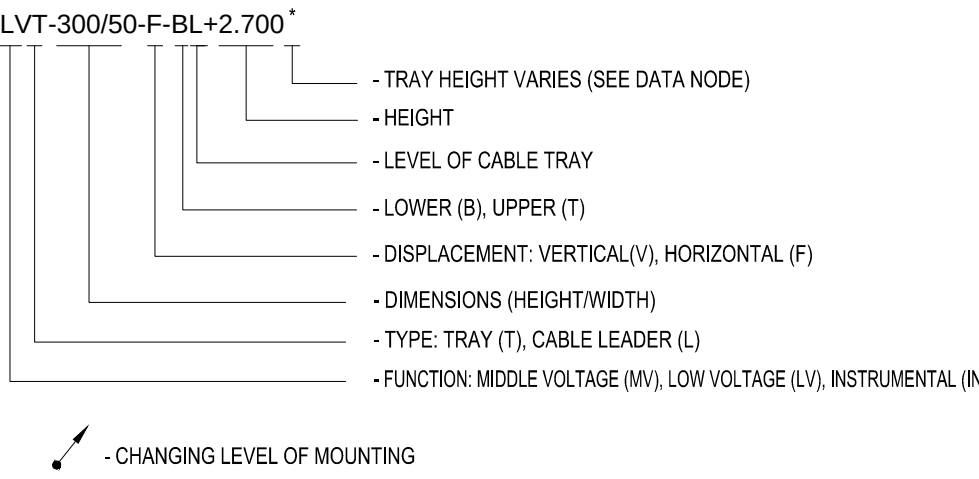
TD0





LEGENDS:

III - Cable tray



NOTES:

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DOCUMENT REVIEW STATUS

- ☐ **A** REVIEWED
Work may proceed
- ☐ **B** REVIEWED WITH COMMENTS
Revise and re-submit. Work may proceed subject
incorporation of comments
- ☐ **C** OBJECTION
Revise and re-submit. Work may not proceed
- ☐ **D** REJECTED
- ☐ **E** REVIEW NOT REQUIRED
Work may proceed

[illegible]

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)



APPROVED BY LDE

NAME _____

SCALE

A0

RAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR



DRAWN BY

NAME
S.
DATE 30/12/2015

NAME
R.F.
DATE 1/12/20

NAME
A.S.
DATE 2/12/20

DRAWING TITLE

Radisson Blu Telegraph Hotel

Electrical

Power Layout at Level B3

DRAWING NUMBER

RBTH-AE-EL-TD-B3-0021

REVISIC

TDR

[illegible]

A0 - FASAD SPOTLIGHT
A1 - PENDANT LUMINAIRE FOR CORRIDORS
A11 - DOWNLIGHTS FOR CORRIDORS
A12 - DOWNLIGHTS FOR RESTAURANT
A13 - DOWNLIGHTS FOR STAIRS
AG5 - RECESSED LINEAR
A14 - DOWNLIGHTS FOR COURTAINS

EQUIPMENT AND WAY OF INSTALLATION MUST CONFORM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT.

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USE CABLE WITH COPPER WIRE IN PVC NON SPREADING FIRE INSULATION.

TOP CONNECTION TO THE PANEL SHOULD BE ARRANGED.

FOR LEGENDS AND DETAILS SEE LAYOUT "GENERAL NOTES".

SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.

ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

☐ **A** REVIEWED
Work may proceed

☐ **B** REVIEWED WITH COMMENTS
Revise and re-submit. Work may proceed subject to incorporation of comments

☐ **C** OBJECTION
Revise and re-submit. Work may not proceed

☐ **D** REJECTED

☐ **E** REVIEW NOT REQUIRED
Work may proceed

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)



NAME

SCALE

PAPER

1-100

40

RAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR



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CHECKED B

APPROVED BY _____

NAME _____

NAME

NAME

DRAWING TITLE

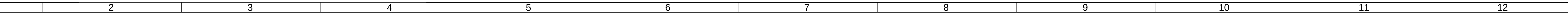
Radisson Blu Telegraph Hotel
Electrical
Lighting Layout at Level L7

DRAWING NUMBER

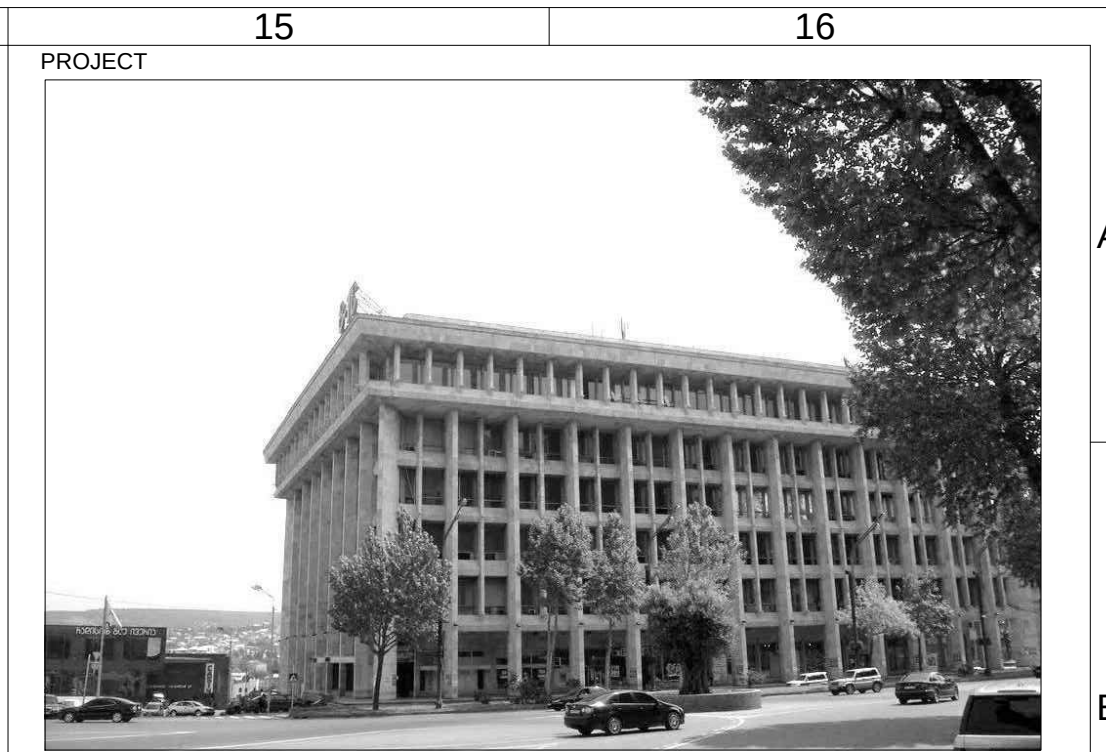
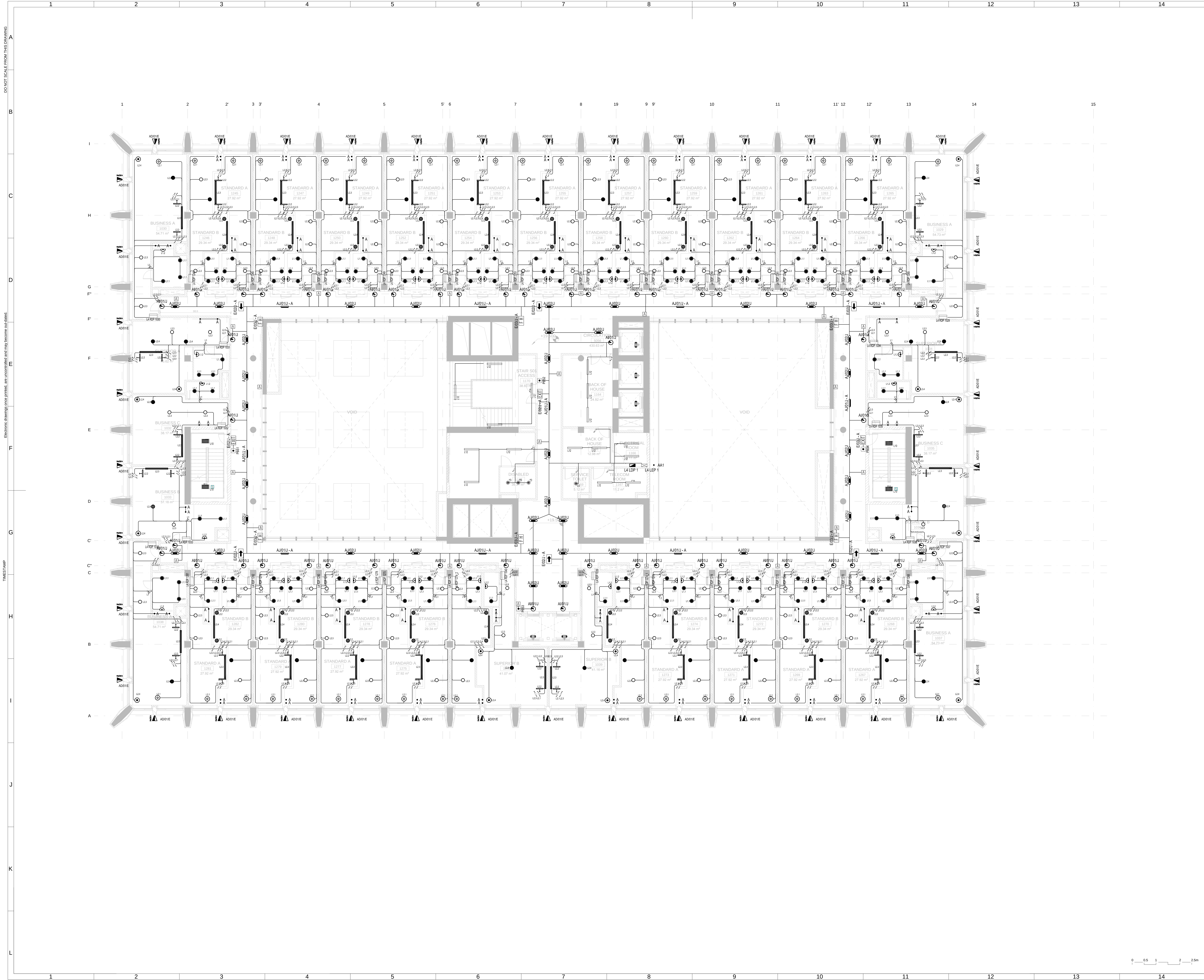
RBTH-AF-EI-TD-17-0022

REVISI

TD



APPROVED BY LDE



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBLISI, GEORGIA

- LEGENDS:**
- PENDANT LUMINAIRE: 10W, LED
 - PENDANT LUMINAIRE: 10W, LED, WITH BATTERY
 - DOWNLIGHT LUMINAIRE: 10W, LED
 - SPOTLIGHT: 20W, 40°
 - CROWN LIGHTING: 2W, LED
 - EVACUATION LIGHTING FIXTURE FOR ONE LUMINESCENT LAMP 11 W, IP54, CONSIGNMENT WITH LAMP
 - DIRECTION OF MOVING LIGHTING FIXTURE FOR ONE LUMINESCENT LAMP 11 W, IP54, CONSIGNMENT WITH LAMP
 - EVACUATION LIGHTING FIXTURE FOR ONE LUMINESCENT LAMP 11 W, IP54, CONSIGNMENT WITH LAMP
 - WALL LUMINAIRE 11.5X18W WARM WHITE CT2000K DALI DIMMABLE
 - RECESSED SURFACE MOUNTED INDOOR LUMINAIRE OR TRACK
 - CONCEALED LINEAR LUMINAIRE
 - FIXED LUMINAIRE
 - CEILING LIGHTING FITTING, LED-CL, INFINITE, IP44
 - CEILING LIGHTING FITTING, LED-CL, TRIMLESS IP44
 - LIGHTING FITTINGS FOR CORRIDOR
 - 2X18W SURFACE MOUNTED LIGHTING FIXTURE, IP54
 - 2X20W RECESSED MOUNTED DECORATIVE DOWNLIGHT, IP50
 - 4X18W RECESSED MOUNTED, FIT LIGHTING FIXTURE, IP50
 - PENDANT LUMINAIRE: TUNGSTEN HALOGEN 20W E27 PHILIPS ECOA A60/300 GLOBE DIMMABLE
 - WALL MOUNTED RECESSED LIGHTING FIXTURE
 - 2X18W SURFACE MOUNTED SINGLE PARABOLIC WITH ALUMINUM REFLECTOR FLUORESCENT LIGHTING FIXTURE, IP50
 - 1X18W SURFACE MOUNTED DOWNLIGHT, IP44
 - CEILING LIGHTING FITTING, LED-CL, INFINITE, IP50
 - 2X18W SURFACE MOUNTED LED GR111 GU10 15W 24° 230V WARM WHITE CT2700K DIMMABLE
 - SURFACE MOUNTED CEILING LUMINAIRE - ADJUSTABLE LED GR111 GU10 15W 30° 230V WARM WHITE CT2700K DIMMABLE
 - RECESSED CEILING LUMINAIRE - ADJUSTABLE LED GR111 GU10 15W 30° 230V WARM WHITE
 - EMERGENCY WIT
 - MOTION SENSOR
 - SURFACE MOUNTED ONE WAY ONE GANG SWITCH, IP44
 - SURFACE MOUNTED ONE WAY TWO GANG SWITCH, IP44
 - SURFACE MOUNTED ONE WAY ONE GANG SWITCH, IP20
 - SURFACE MOUNTED ONE WAY TWO GANG SWITCH, IP20
 - BUTTON BLOCK FOR LIGHTING
 - CHANGING LEVEL OF MOUNTING
- ABBREVIATIONS:**
- AD - PASSED SPOTLIGHT
 - A1 - PENDANT LUMINAIRE FOR CORRIDORS
 - A2 - DOWNLIGHTS FOR CORRIDORS
 - A3 - DOWNLIGHTS FOR RESTAURANT
 - A4 - DOWNLIGHTS FOR STAIRS
 - AB - RECESSED LUMINAIRE
 - AA - DOWNLIGHTS FOR COURTYARDS
- NOTES:**
- EQUIPMENT AND WAY OF INSTALLATION MUST CONFIRM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT.
 - ALL EQUIPMENT (PANELS, SWITCHES, ACTUATORS, WIRING, ETC.) MUST HAVE PERMANENT MARKING ACCORDING TO THE NUMBERING IN THE DRAWING.
 - USE CABLE WITH COPPER WIRE IN PVC NON SPREADING FIRE INSULATION.
 - TOP CONNECTION TO THE PANEL SHOULD BE ARRANGED.
 - FOR LEGENDS AND DETAILS SEE LAYOUT GENERAL NOTES.
 - SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
 - ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

DOCUMENT REVIEW STATUS

☐	A	REVIEWED	Work may proceed
☐	B	REVIEWED WITH COMMENTS	Revised and re-submitted. Work may proceed subject to incorporation of comments
☐	C	REJECTED	Revised and re-submitted. Work may not proceed
☐	D	REJECTED	
☐	E	REVIEW NOT REQUIRED	Work may proceed

REVISIONS

No	Date	Description	Drawn	Checked	Approved
1/01	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)

APPROVED BY LDE

AECOM

NAME: SCALE: 1:100 DATE: PAPER SIZE: A0

DRAWING STATUS

**PHASE II
TENDER DOCUMENTS**

CONSULTANT / SUB-CONTRACTOR

AECOM

DRAWN BY: CHECKED BY: APPROVED BY:

NAME: I.S. R.F. A.S.

DATE: 30/12/2015 DATE: 1/12/2015 DATE: 2/12/2015

DRAWING TITLE

**Radisson Blu Telegraph Hotel
Electrical
Lighting Layout at Level L4**

DRAWING NUMBER: RBTH-AE-EL-TD-L4-0025 REVISION: TD0



LEGENDS:

- [illegible]

ABBREVIATIONS

- A0 - FASAD SPOTLIGHT
A3 - PENDANT LUMINAIRE FOR CORRIDORS
A11 - DOWNLIGHTS FOR CORRIDORS
A12 - DOWNLIGHTS FOR RESTAURANT
A13 - DOWNLIGHTS FOR STAIRS
AG5 - RECESSED LINEAR
A14 - DOWNLIGHTS FOR COURTYAINS

NOTES:

- EQUIPMENT AND WAY OF INSTALLATION MUST CONFIRM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT.
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- FOR LEGENDS AND DETAILS SEE LAYOUT 'GENERAL NOTES'.
- SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
- ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

DOCUMENT REVIEW STATUS

- ☐ **A** REVIEWED
Work may proceed
- ☐ **B** REVIEWED WITH COMMENTS
Revise and re-submit. Work may proceed subject to incorporation of comments
- ☐ **C** COLLECTION
Revise and re-submit. Work may not proceed
- ☐ **D** REJECTED
- ☐ **E** REVIEW NOT REQUIRED
Work may proceed

[illegible]

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)



NAME _____

SCALE

PAPER

RAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR



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DRAWING TITLE

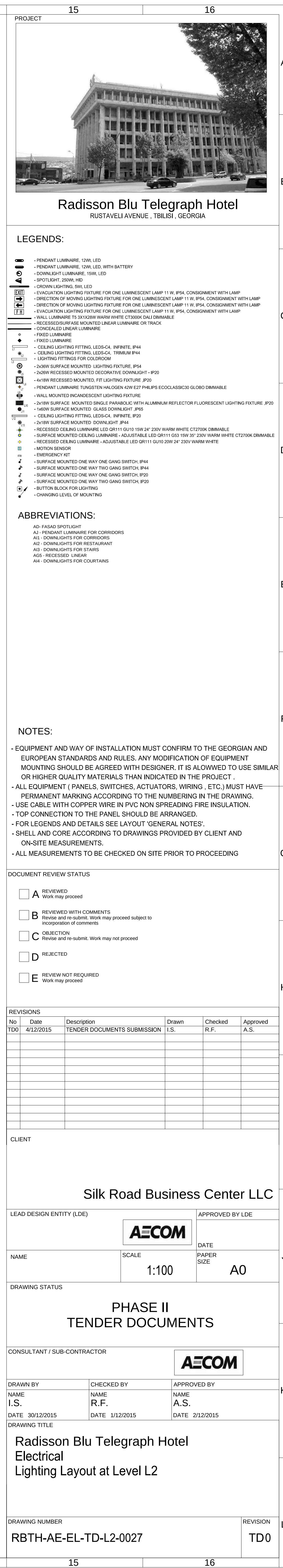
Radisson Blu Telegraph Hotel
Electrical
Lighting Layout at Level L3

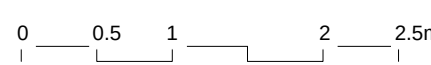
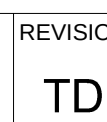
DRAWING NUMBER

REVISION

TDO









- PENDANT LUMINAIRE, 12W, LED
- PENDANT LUMINAIRE, 12W, LED, WITH BATTERY
- DOWNLIGHT LUMINAIRE, 15W, LED
- SPOT LIGHT, 200W, HD
- CROWN LIGHTING, 5W, LED
- EVALUATION LIGHTING FEATURE FOR ONE LUMINESCENT LAMP 11 W, IP54, CONSIGNMENT WITH LAMP
- DIRECTION OF MOVING LIGHTING FEATURE FOR ONE LUMINESCENT LAMP 11 W, IP54, CONSIGNMENT WITH LAMP
- EVALUATION LIGHTING FEATURE FOR ONE LUMINESCENT LAMP 11 W, IP54, CONSIGNMENT WITH LAMP
- EVALUATION LIGHTING FEATURE FOR ONE LUMINESCENT LAMP 11 W, IP54, CONSIGNMENT WITH LAMP
- WALL LUMINAIRE TS 2X16X196 WARM WHITE CT5000, DALI DIMMABLE

[illegible]

AD - FASAD SPOTLIGHT
AJ - PENDANT LUMINAIRE FOR CORRIDORS
AI1 - DOWNLIGHTS FOR CORRIDORS
AI2 - DOWNLIGHTS FOR RESTAURANT
AI3 - DOWNLIGHTS FOR STAIRS
AG5 - RECESSED LINEAR
AM4 - DOWNLIGHTS FOR COURTYAINS

EQUIPMENT AND WAY OF INSTALLATION MUST CONFORM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT.

ALL EQUIPMENT (PANELS, SWITCHES, ACTUATORS, WIRING, ETC.) MUST HAVE PERMANENT MARKING ACCORDING TO THE NUMBERING IN THE DRAWING. USE CABLE WITH COPPER WIRE IN PVC NON SPREADING FIRE INSULATION.

TOP CONNECTION TO THE PANEL SHOULD BE ARRANGED.

FOR LEGENDS AND DETAILS SEE LAYOUT 'GENERAL NOTES'.

SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.

ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

☐ **A** REVIEWED
Work may proceed

☐ **B** REVIEWED WITH COMMENTS
Revise and re-submit. Work may proceed subject to incorporation of comments.

☐ **C** OBJECTION
Revise and re-submit. Work may not proceed

☐ **D** REJECTED

☐ **E** REVIEW NOT REQUIRED
Work may proceed

CLIENT

Silk Road Business Center LLC

		DATE
		NAME SCALE PAPER SIZE 1:100 A0

PHASE II
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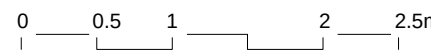
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DRAWN BY	CHECKED BY	APPROVED BY	
NAME S.	NAME R.F.	NAME A.S.	
DATE 30/12/2015	DATE 1/12/2015	DATE 2/12/2015	

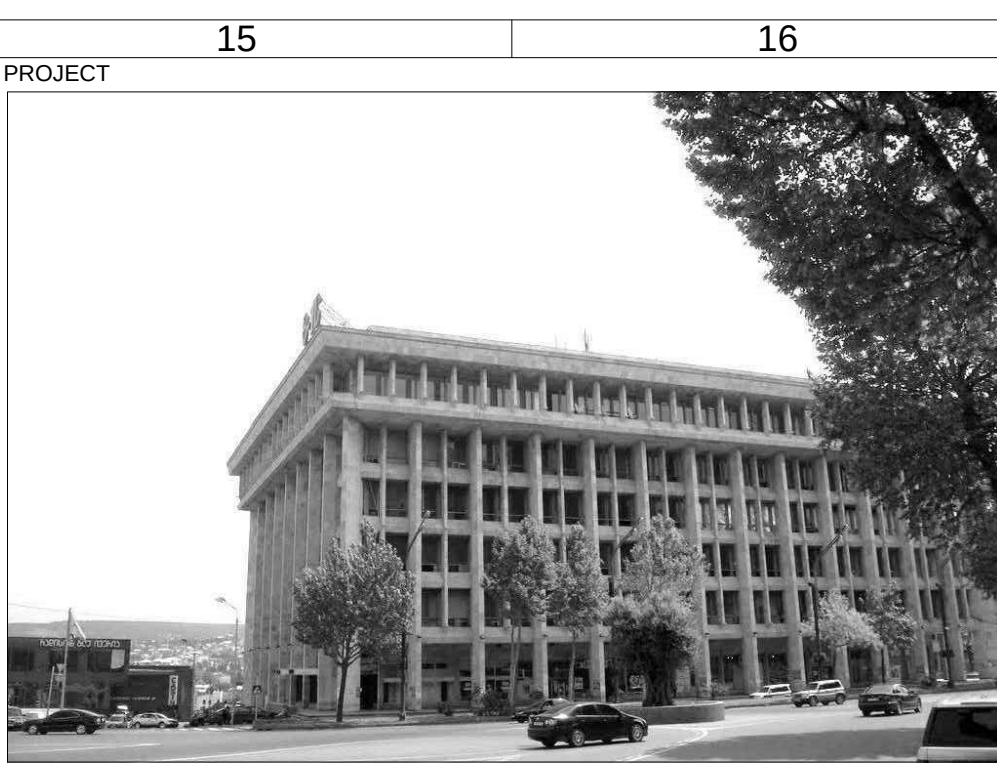
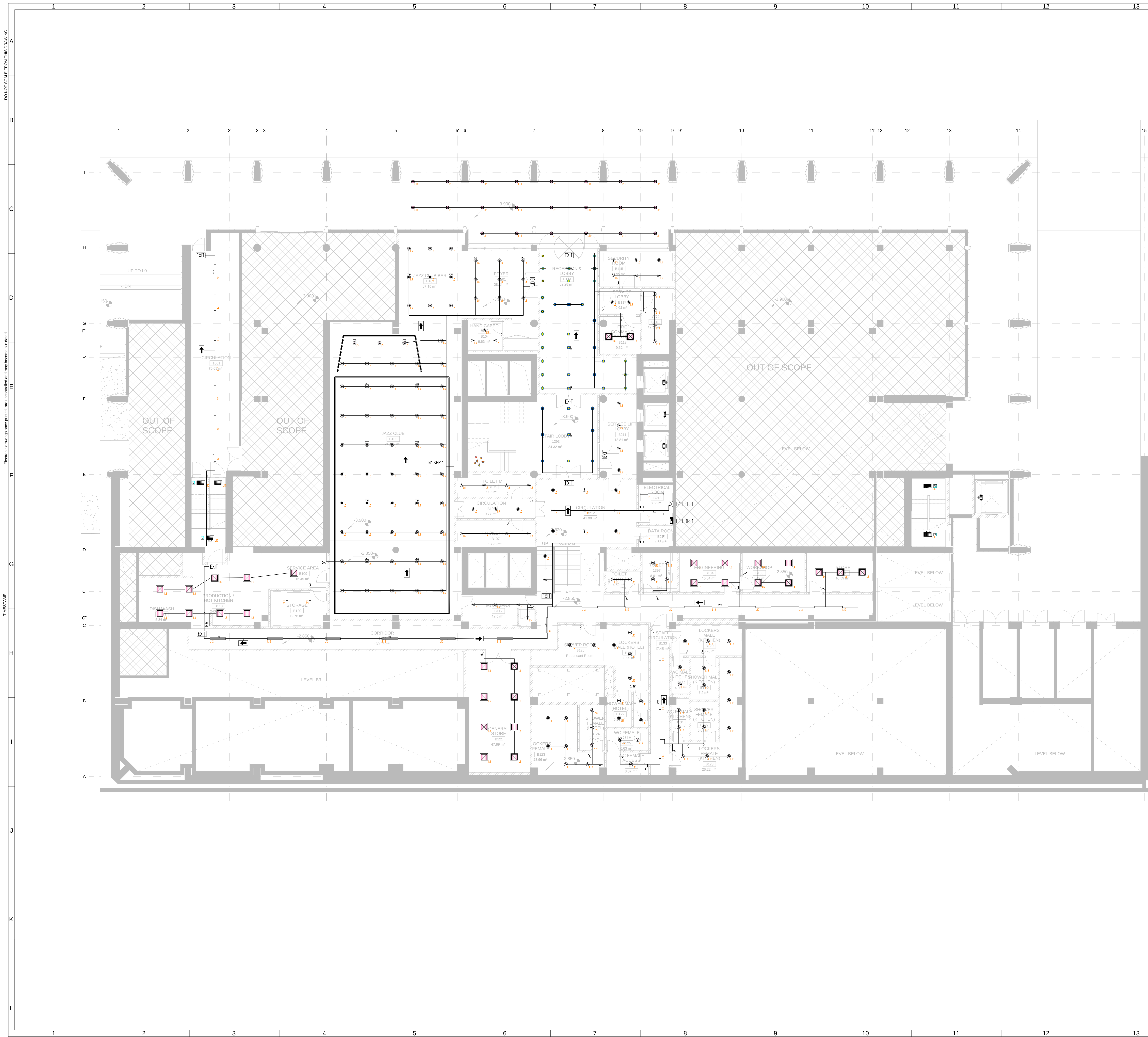
Radisson Blu Telegraph Hotel

Electrical

Lighting Layout at Level L0

DRAWING NUMBER	REVISION
RBTH-AE-EL-TD-L0-0029	TD





Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBILISI, GEORGIA

LEGENDS:

- PENDANT LUMINAIRE: 12W, LED
- DOWNLIGHT LUMINAIRE: 12W, LED
- DOWNLIGHT LUMINAIRE: 15W, LED
- SPOTLIGHT: 20W, LED
- DOWNLIGHT LUMINAIRE: 24W, LED
- EVACUATION LIGHTING FITTING FOR ONE LUMINESCENT LAMP 11 W, IP44, CONSIGNMENT WITH LAMP
- DIRECTION OF MOVING LIGHTING FITTING FOR ONE LUMINESCENT LAMP 11 W, IP44, CONSIGNMENT WITH LAMP
- DIRECTION OF MOVING LIGHTING FITTING FOR ONE LUMINESCENT LAMP 11 W, IP44, CONSIGNMENT WITH LAMP
- EVACUATION LIGHTING FITTING FOR ONE LUMINESCENT LAMP 11 W, IP44, CONSIGNMENT WITH LAMP
- WALL LUMINAIRE: 1X 1X 1200MM WARM WHITE C7000K DALI DIMMABLE
- RECESSED SURFACE MOUNTED LINEAR LUMINAIRE OR TRACK
- CONCEALED LINEAR LUMINAIRE
- FIXED LUMINAIRE
- CEILING LIGHTING FITTING, LED-CL, INFINITE, IP44
- CEILING LIGHTING FITTING, LED-CL, 11W/1M IP44
- LIGHTING FITTINGS FOR CORRIDOR
- 2X 3W SURFACE MOUNTED LIGHTING FITTING, IP50
- 2X 3W RECESSED MOUNTED DECORATIVE DOWNLIGHT, IP30
- 4X 1W RECESSED MOUNTED, FIT LIGHTING FITTING, IP30
- PENDANT LUMINAIRE: TUNGSTEN HALOGEN 40W E27 PHILIPS ECOLA830 GLOBO DIMMABLE
- WALL MOUNTED RECESSED LIGHTING FITTING, IP30
- 2X 1W SURFACE MOUNTED SINGLE PARABOLIC WITH ALUMINUM REFLECTOR FLUORESCENT LIGHTING FITTING, IP30
- 100W SURFACE MOUNTED DOWNLIGHT, IP44
- CEILING LIGHTING FITTING, LED-CL, INFINITE, IP30
- 2X 1W SURFACE MOUNTED DOWNLIGHT, IP44
- RECESSED CEILING LUMINAIRE LED 11 GU10 15W 24° 230V WARM WHITE CT2700K DIMMABLE
- SURFACE MOUNTED CEILING LUMINAIRE - ADJUSTABLE LED 11 GU10 15W 30° 230V WARM WHITE CT2700K DIMMABLE
- RECESSED CEILING LUMINAIRE - ADJUSTABLE LED 11 GU10 15W 30° 230V WARM WHITE
- MOTION SENSOR
- EMERGENCY WIT
- SURFACE MOUNTED ONE WAY ONE GANG SWITCH, IP44
- SURFACE MOUNTED ONE WAY TWO GANG SWITCH, IP44
- SURFACE MOUNTED ONE WAY ONE GANG SWITCH, IP30
- SURFACE MOUNTED ONE WAY TWO GANG SWITCH, IP30
- BUTTON BLOCK FOR LIGHTING
- CHANGING LEVEL OF MOUNTING

ABBREVIATIONS:

- A0 - PASSED SPOTLIGHT
- A1 - PENDANT LUMINAIRE FOR CORRIDORS
- A2 - DOWNLIGHTS FOR CORRIDORS
- A3 - DOWNLIGHTS FOR RESTAURANT
- A4 - DOWNLIGHTS FOR STAIRS
- A5 - RECESSED LAMP
- A6 - DOWNLIGHTS FOR COURTYAINS

NOTES:

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DOCUMENT REVIEW STATUS

- ☐ A REVIEWED
Work may proceed
- ☐ B REVIEWED WITH COMMENTS
Review and re-submit. Work may proceed subject to incorporation of comments
- ☐ C REVIEWED WITH COMMENTS
Review and re-submit. Work may not proceed
- ☐ D REJECTED
- ☐ E REVIEW NOT REQUIRED
Work may proceed

REVISIONS		Description		Drawn	Checked	Approved
No	Date	TENDER DOCUMENTS SUBMISSION		I.S.	R.F.	A.S.
1	4/12/2015					

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)		APPROVED BY LDE	
NAME	SCALE	DATE	PAPER SIZE
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DRAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR

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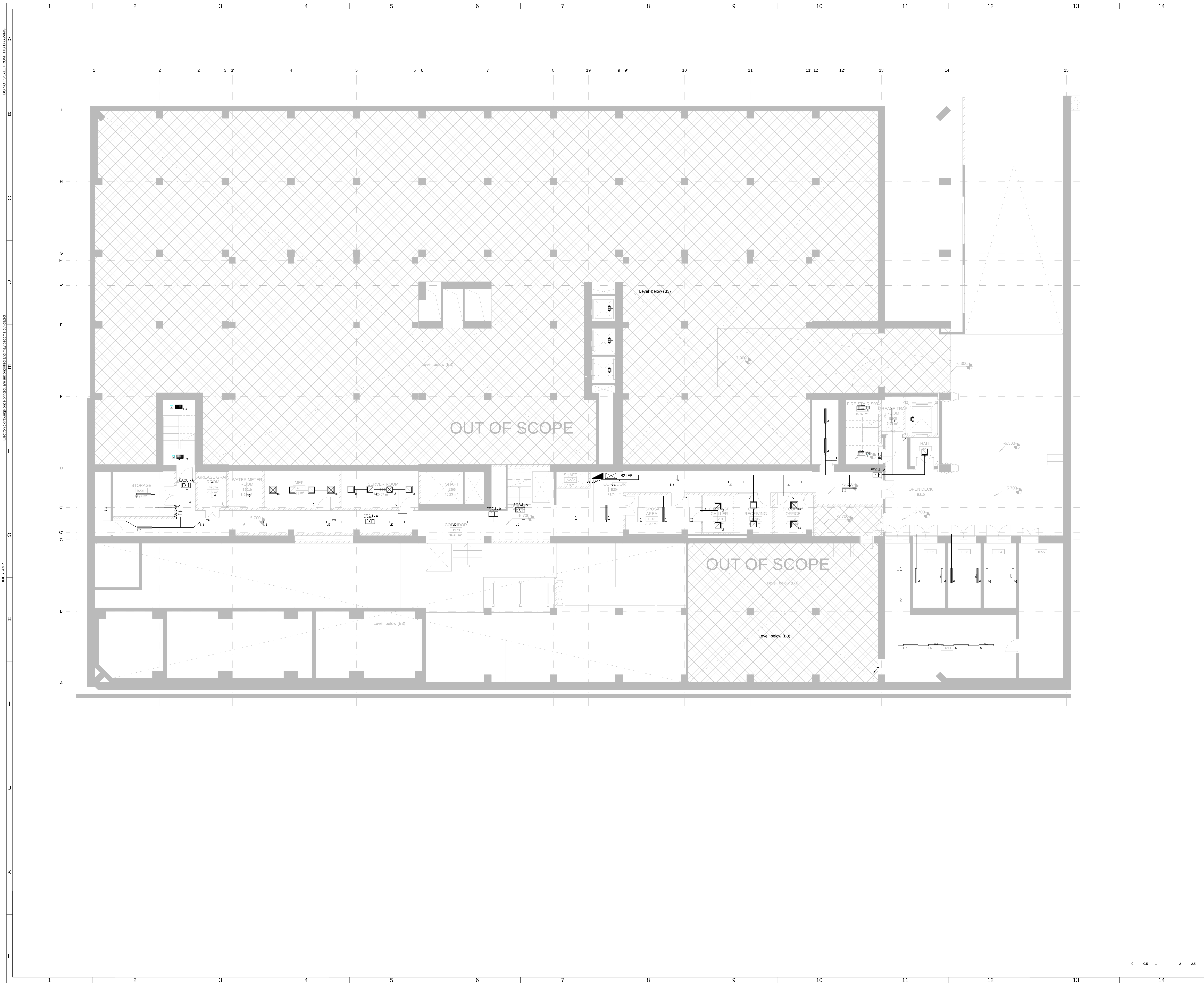
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NAME	NAME	NAME
I.S.	R.F.	A.S.
DATE	DATE	DATE
30/12/2015	1/12/2015	2/12/2015

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Lighting Layout at Level B1

DRAWING NUMBER	REVISION
RBTH-AE-EL-TD-B1-0030	TD0

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Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBLISI, GEORGIA

LEGENDS:

- PENDANT LUMINAIRE: 12W, LED
- PENDANT LUMINAIRE: 12W, LED, WITH BATTERY
- DOWNLIGHT LUMINAIRE: 15W, LED
- SPOTLIGHT: 20W, 40°
- DOWN LIGHTING: 24W, LED
- EVACUATION LIGHTING FIXTURE FOR ONE LUMINESCENT LAMP 11 W, IP54, CONSIGNMENT WITH LAMP
- DIRECTION OF MOVING LIGHTING FIXTURE FOR ONE LUMINESCENT LAMP 11 W, IP54, CONSIGNMENT WITH LAMP
- DIRECTION OF MOVING LIGHTING FIXTURE FOR ONE LUMINESCENT LAMP 11 W, IP54, CONSIGNMENT WITH LAMP
- EVACUATION LIGHTING FIXTURE FOR ONE LUMINESCENT LAMP 11 W, IP54, CONSIGNMENT WITH LAMP
- WALL LUMINAIRE: 15 W, 1X1200 WARM WHITE C7200X DALI DIMMABLE
- RECESSED SURFACE MOUNTED LINEAR LUMINAIRE OR TRACK
- CONCEALED LINEAR LUMINAIRE
- FIXED LUMINAIRE
- CEILING LIGHTING FITTING, LEDSCL, INFINITE, IP44
- CEILING LIGHTING FITTING, LEDSCL, TRIMMABLE IP44
- LIGHTING FITTINGS FOR COLOURSCOP
- 2X3W SURFACE MOUNTED LIGHTING FIXTURE, IP54
- 2X3W RECESSED MOUNTED DECORATIVE DOWNLIGHT, IP20
- 4X1W RECESSED MOUNTED, RPT LIGHTING FIXTURE, IP20
- PENDANT LUMINAIRE: TUNGSTEN HALOGEN 40W E27 PHILIPS EDOCA ASSOCI GLOBE DIMMABLE
- WALL MOUNTED RECESSED LIGHTING FIXTURE
- 2X1W SURFACE MOUNTED SINGLE PARABOLIC WITH ALUMINIUM REFLECTOR FLUORESCENT LIGHTING FIXTURE, IP20
- 100W SURFACE MOUNTED DOWNLIGHT, IP44
- CEILING LIGHTING FITTING, LEDSCL, INFINITE, IP20
- 2X1W SURFACE MOUNTED LED QR111 GU10 15W 24° 230V WARM WHITE C7270X DIMMABLE
- SURFACE MOUNTED CEILING LUMINAIRE - ADJUSTABLE LED QR111 GU10 15W 30° 230V WARM WHITE C7270X DIMMABLE
- RECESSED CEILING LUMINAIRE - ADJUSTABLE LED QR111 GU10 20W 30° 230V WARM WHITE
- MOTION SENSOR
- EMERGENCY KIT
- SURFACE MOUNTED ONE WAY ONE GANG SWITCH, IP44
- SURFACE MOUNTED ONE WAY TWO GANG SWITCH, IP44
- SURFACE MOUNTED ONE WAY ONE GANG SWITCH, IP20
- SURFACE MOUNTED ONE WAY TWO GANG SWITCH, IP20
- BUTTON BLOCK FOR LIGHTING
- CHANGING LEVEL OF MOUNTING

ABBREVIATIONS:

- A0 - PARASO SPOTLIGHT
- A1 - PENDANT LUMINAIRE FOR CORRIDORS
- A1 - DOWNLIGHTS FOR CORRIDORS
- A2 - DOWNLIGHTS FOR RESTAURANT
- A3 - DOWNLIGHTS FOR STAIRS
- A5 - RECESSED LUMIN
- A4 - DOWNLIGHTS FOR COURTYARDS

NOTES:

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DOCUMENT REVIEW STATUS

☐ A	REVIEWED
Work may proceed	
☐ B	REVIEWED WITH COMMENTS
Revised and re-submitted. Work may proceed subject to incorporation of comments	
☐ C	REJECTED
Revised and re-submitted. Work may not proceed	
☐ D	REJECTED
☐ E	REVIEW NOT REQUIRED
Work may proceed	

REVISIONS

No	Date	Description	Drawn	Checked	Approved
TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)



AECOM

APPROVED BY LDE

NAME: SCALE: 1:100 DATE: PAPER SIZE: A0

DRAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR



AECOM

APPROVED BY

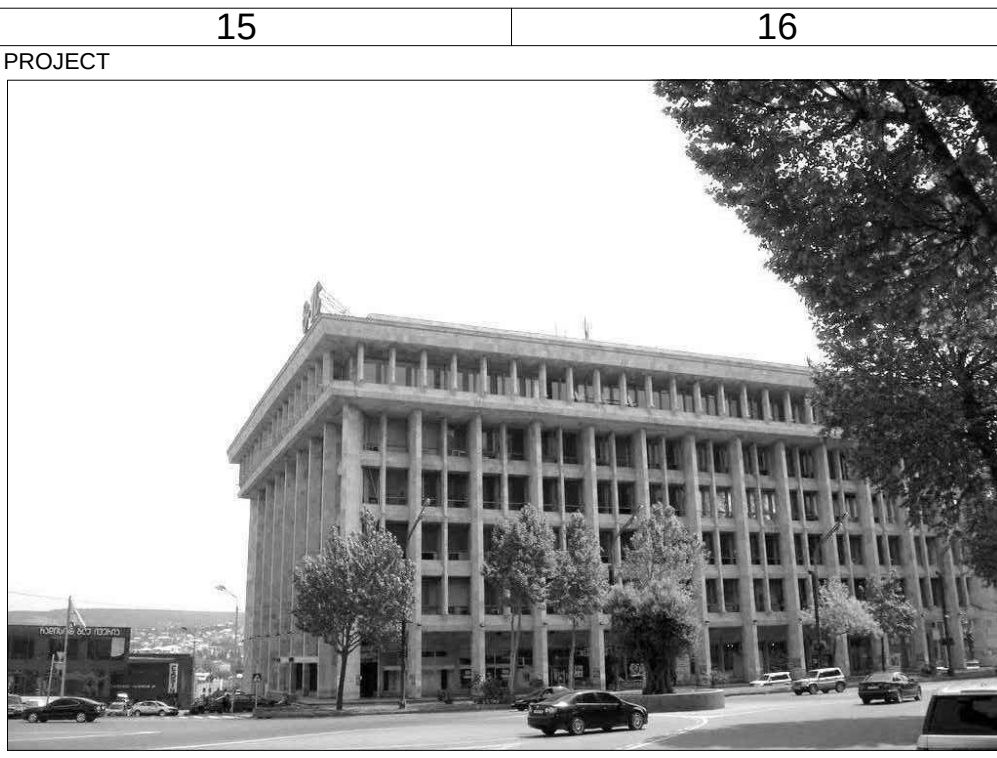
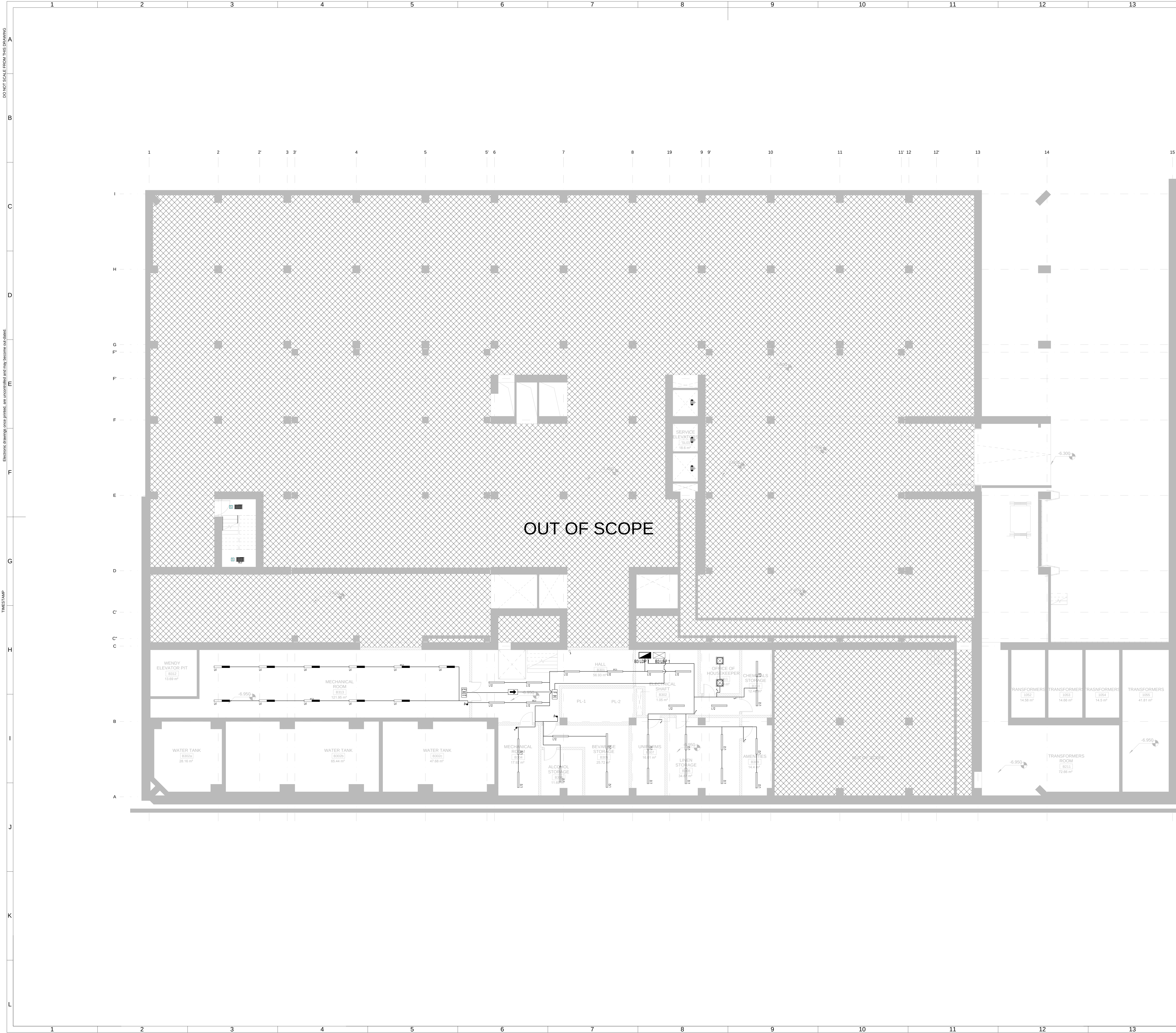
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DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Lighting Layout at Level B2

DRAWING NUMBER
RBTH-AE-EL-TD-B2-0031

REVISION
TD0



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE , TBILISI , GEORGIA

- LEGENDS:
- PENDANT LUMINAIRE 12W, LED
 - PENDANT LUMINAIRE 12W, LED, WITH BATTERY
 - DOWNLIGHT LUMINAIRE 15W, LED
 - SPOTLIGHT 250W, 40°
 - DOWN LIGHTING 24, LED
 - EVACUATION LIGHTING FIXTURE FOR ONE LUMINESCENT LAMP 11 W, IP44, CONFORMANT WITH LAMP
 - DIRECTION OF MOVING LIGHTING FIXTURE FOR ONE LUMINESCENT LAMP 11 W, IP44, CONFORMANT WITH LAMP
 - DIRECTION OF MOVING LIGHTING FIXTURE FOR ONE LUMINESCENT LAMP 11 W, IP44, CONFORMANT WITH LAMP
 - EVACUATION LIGHTING FIXTURE FOR ONE LUMINESCENT LAMP 11 W, IP44, CONFORMANT WITH LAMP
 - WALL LUMINAIRE 15 X 100W WARM WHITE CT3000K DALI DIMMABLE
 - RECESSED SURFACE MOUNTED LINEAR LUMINAIRE OR TRACK
 - CONCEALED LINEAR LUMINAIRE
 - FIXED LUMINAIRE
 - CEILING LIGHTING FITTING, LED-SCA, INFINITE, IP44
 - CEILING LIGHTING FITTING, LED-SCA, TRIUMPH IP44
 - LIGHTING FITTINGS FOR CLOSET/CLO
 - 250W SURFACE MOUNTED LIGHTING FIXTURE, IP54
 - 250W RECESSED MOUNTED DECORATIVE DOWNLIGHT, IP20
 - 40W RECESSED MOUNTED, FIT LIGHTING FIXTURE, IP20
 - PENDANT LUMINAIRE TUNGSTEN HALOGEN 40W E27 PHILIPS ECOGLASS/ECO GLOBO DIMMABLE
 - WALL MOUNTED NON-RECESSED LIGHTING FIXTURE
 - 100W SURFACE MOUNTED SINGLE PARABOLIC WITH ALUMINUM REFLECTOR FLUORESCENT LIGHTING FIXTURE, IP20
 - CEILING LIGHTING FITTING, LED-SCA, INFINITE, IP20
 - 25W SURFACE MOUNTED DOWNLIGHT, IP44
 - RECESSED CEILING LUMINAIRE LED QRT11 Q10 15W 24° 230V WARM WHITE CT2700K DIMMABLE
 - SURFACE MOUNTED CEILING LUMINAIRE - ADJUSTABLE LED QRT11 Q50 15W 30° 230V WARM WHITE CT2700K DIMMABLE
 - RECESSED CEILING LUMINAIRE - ADJUSTABLE LED QRT11 Q10 15W 24° 230V WARM WHITE
 - MOTION SENSOR
 - EMERGENCY WIT
 - SURFACE MOUNTED ONE WAY ONE GANG SWITCH, IP44
 - SURFACE MOUNTED ONE WAY TWO GANG SWITCH, IP44
 - SURFACE MOUNTED ONE WAY ONE GANG SWITCH, IP20
 - SURFACE MOUNTED ONE WAY TWO GANG SWITCH, IP20
 - BUTTON BLOCK FOR LIGHTING
 - CHANGING LEVEL OF MOUNTING
- ABBREVIATIONS:
- A0 - FASAO SPOTLIGHT
 - A1 - PENDANT LUMINAIRE FOR CORRIDORS
 - A2 - DOWNLIGHTS FOR CORRIDORS
 - A3 - DOWNLIGHTS FOR RESTAURANT
 - A4 - DOWNLIGHTS FOR STAIRS
 - A5 - RECESSED LUMIN
 - A6 - DOWNLIGHTS FOR COURTYAINS

- NOTES:
- EQUIPMENT AND WAY OF INSTALLATION MUST CONFIRM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT.
 - ALL EQUIPMENT (PANELS, SWITCHES, ACTUATORS, WIRING, ETC.) MUST HAVE PERMANENT MARKING ACCORDING TO THE NUMBERING IN THE DRAWING.
 - USE CABLE WITH COPPER WIRE IN PVC NON SPREADING FIRE INSULATION.
 - TOP CONNECTION TO THE PANEL SHOULD BE ARRANGED.
 - FOR LEGENDS AND DETAILS SEE LAYOUT GENERAL NOTES.
 - SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
 - ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

DOCUMENT REVIEW STATUS				
☐	A	REVIEWED	Work may proceed	
☐	B	REVIEWED WITH COMMENTS	Revised and re-submit. Work may proceed subject to incorporation of comments	
☐	C	REJECTION	Revised and re-submit. Work may not proceed	
☐	D	REJECTED		
☐	E	REVIEW NOT REQUIRED	Work may proceed	

REVISIONS				
No	Date	Description	Drawn	Checked
TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.

CLIENT				

Silk Road Business Center LLC				
LEAD DESIGN ENTITY (LDE)			APPROVED BY LDE	

DRAWING STATUS				

CONSULTANT / SUB-CONTRACTOR				

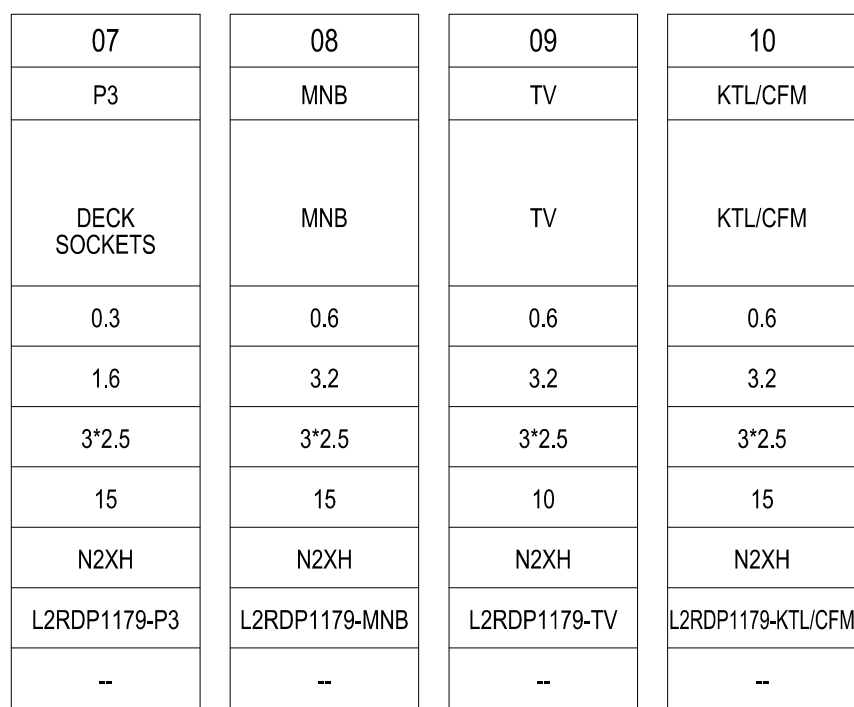
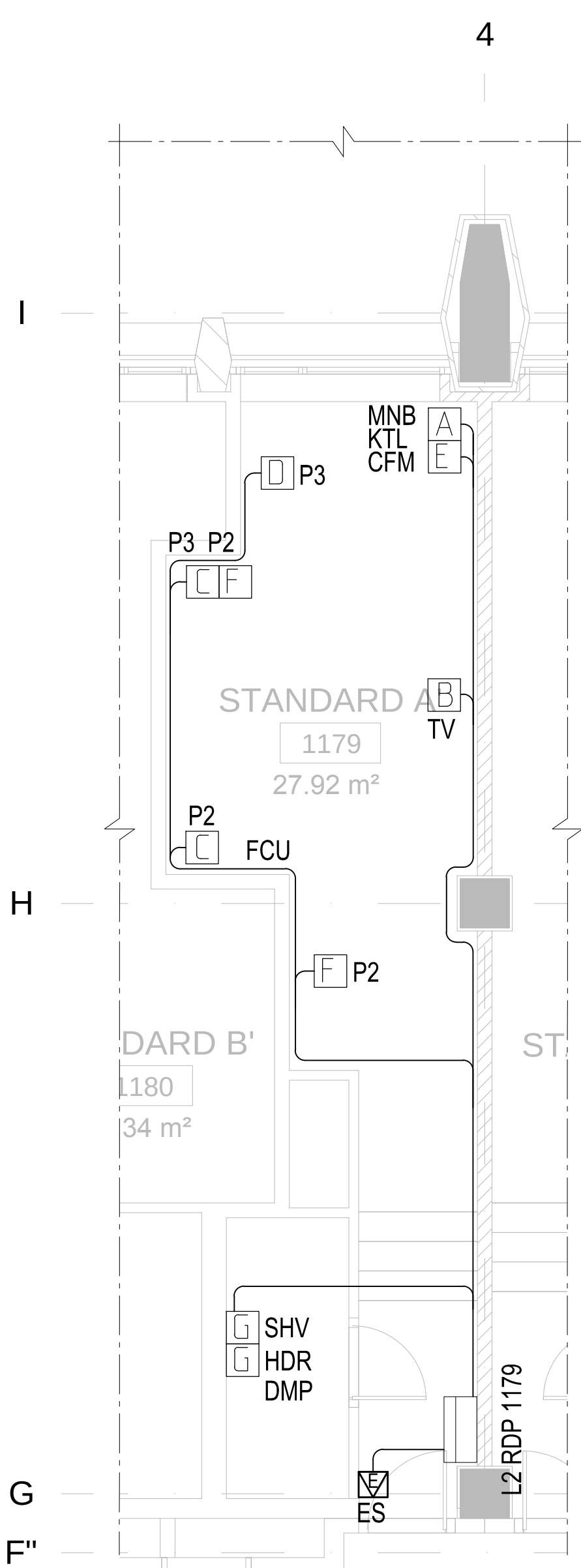
DRAWN BY			CHECKED BY		APPROVED BY	

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Lighting Layout at Level B3

DRAWING NUMBER			REVISION	

Sockets layout Level L2



List of elements

Pos.	Description	Qnt.	Notes
	Panel Pragma type IP40, wall mounting, inbuilt, include		Schneider
QS01	Switch load 3P, 230V, 25A	1	Schneider
QS01	Switch load with fuse 1P, 230V, 25A	1	Schneider
EVS	Surge suppressor, 2p, characteristic "C"	1	Schneider
OF01, OF08	Differential Circuit breaker 230V In=CD430nA, 2p	2	Schneider
OF04, OF07	Circuit breaker 230V In=CB6A, 1p	4	Schneider
OF09, OF12	Circuit breaker 230V In=CB6A, 1p	4	Schneider
ES	Energy Saver 230V In=CS0A, 1p	1	



LEGENDS

SYMBOL	DESCRIPTION
	RECESSED DOWNLIGHT
	LED STRIP LIGHTING, 25 W/m
	LED TABLE LUMINAIRE, 10 W
	FLOOR LAMP
	WALL SCONCE LIGHTING
	DESK LAMP
	PENDANT LAMP
	DOWNLIGHT
	READING / DECORATIVE LAMP INTEGRATED WITH SWITCH
	* A LIGHT FOR CLOSED SHELVES
	* ENERGY-POCKET
	ONE-POLE SWITCH
	TWO-POLE SWITCH
	TWO-WAY SWITCH
	SOCKET BLOCK TYPE A (1-TL/DA, 2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE B (1-TV, 1-DATA, 2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE C (1-TL, 2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE D (1-MDH, 1-TL/DA, 3 POWER 1P+N+PE)
	SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, IP 20)
	SOCKET BLOCK TYPE G (1 POWER 1P+N+PE, IP 44)

ABBREVIATIONS

CFM - Coarse Machine
CLM - Cleaners Softies
CMP - Demister Pad
FCU - Fancall Unit

HDR - Hair Dryer
MR - Make-up Mirror
MSP - Mirror
MVB - Minibar
SHV - Shower

NOTES:

EQUIPMENT AND WAY OF INSTALLATION MUST CONFORM TO THE EUROPEAN AND
EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT
ACCOUNTING SHOULD BE APPROVED BY THE CONTRACTOR. IT IS FORBIDDEN TO USE SIM-
OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT .

- ALL EQUIPMENT (PANELS, SWITCHES, ACTUATORS, WIRING, ETC.) MUST HAVE A
PERMANENT MARKING ACCORDING TO THE NUMBERING IN THE DRAWING .

- USE CABLE WITH COPPER WIRING WITH RED INSULATION FOR POWER AND BLUE INSULATION
- TOP CONNECTION TO THE PANEL SHOULD BE ARRANGED.

- WIRING LUMPS WITH BATTERY SHOULD IN TYPICAL UNITS.

- FOR LEGENDS AND DETAILS SEE LAYOUT "GENERAL NOTES".

- SHELL SHALL BE EXPOSED ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND
SITE MEASUREMENTS.

- ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

DOCUMENT REVIEW STATUS

☐ **A** REVIEWED
Work may proceed

☐ **B** REVIEWED WITH COMMENTS
Revise and re-submit. Work may proceed subject to incorporation of comments

☐ **C** OBJECTION
Revise and re-submit. Work may not proceed

☐ **D** REJECTED

☐ **E** REVIEW NOT REQUIRED
Work may proceed

[illegible]

LIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)



APPROVED BY LDE

NAME _____

SCALING

PAPER
SIZE

A0

RAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR



DRAWN BY

CHECKED BY _____

APPROVED BY _____

NAME _____
C _____NAME
D.F.NAME
A.C.

DATE 30/12/201

Radisson Blu Telegraph Hotel
Electrical
Standard A room.
Typical Power Distribution

DRAWING NUMBER
RBTH-AE-EL-TD-GEN-0033

REVISIC

TDM

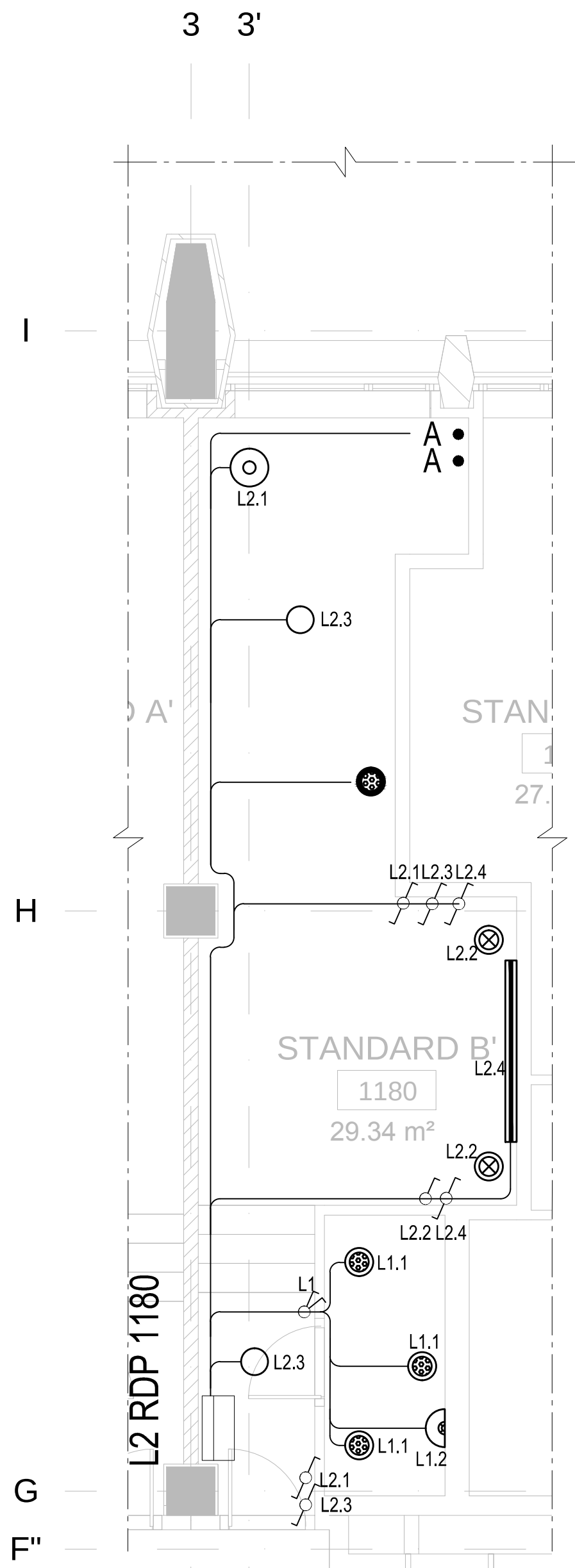


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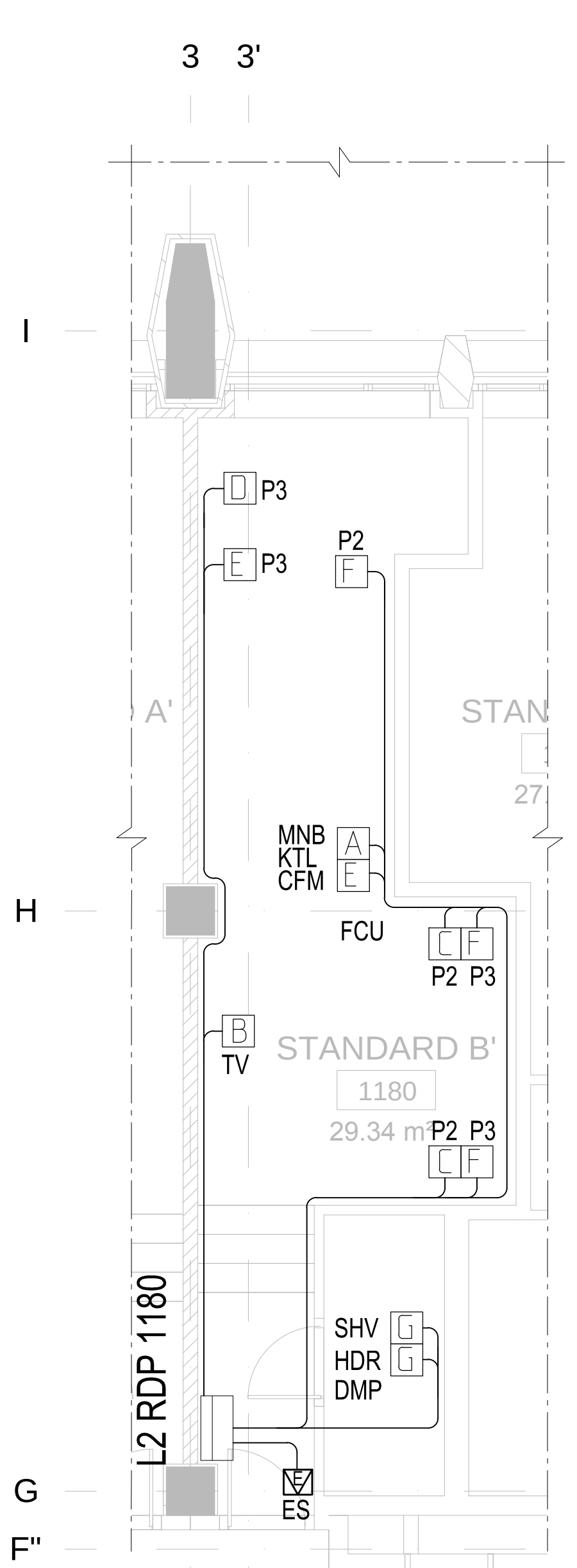
Electronic drawings only printed, are uncontrolled and may become outdated.

TIME&TAMP

Lighting layout Level L2



Sockets layout Level L2



List of elements

Pos.	Description	Qty.	Notes
	Panel Pragma type, IP40, wall mounting, inbuilt, include :		Schneider
QS01	Switch load 3P, 230V, 25A	1	Schneider
QSF01	Switch load with fuse 1P, 230V, 25A	1	Schneider
EVS	Surge suppressor, 2p, characteristic "C"	1	Schneider
QF01, QF08	Differential Circuit breaker 230V In=C20A/30mA, 2p	2	Schneider
QF04...QF07	Circuit breaker 230V In=C16A, 1p	4	Schneider
QF09...QF12	Circuit breaker 230V In=C16A, 1p	4	Schneider
ES	Energy Saver 230V In=C20A, 1p	1	



Radisson Blu Telegraph Hotel
RUSTAVEL AVENUE , TBILISI , GEORGIA

LEGENDS:

SYMBOL	DESCRIPTION
●	RECEDED DOWNLIGHT
■■■■■■■■■■	LED STRIP LIGHTING, 25 W/m
●	LED TABLE LUMINAIRE, 10 W
○	FLOOR LAMP
⌒	WALL SCONCE LIGHTING
●	DESK LAMP
⊙	PENDANT LAMP
○	DOWNLIGHT
⌒	READING / DECORATIVE LAMP INTEGRATED WITH SWITCH
• A	LIGHT FOR CLOSED SHELVES
■	ENERGY-POCKET
/	ONE-POLE SWITCH
/	TWO-POLE SWITCH
/	TWO-WAY SWITCH
A	SOCKET BLOCK TYPE A (1-TEL, DATA, 2 POWER 1P+N+PE)
B	SOCKET BLOCK TYPE B (1-TV, 1-DATA, 2 POWER 1P+N+PE)
C	SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P+N+PE)
D	SOCKET BLOCK TYPE D (1-MDH, 1-TEL, DATA, 3 POWER 1P+N+PE)
E	SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
F	SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, IP 20)
G	SOCKET BLOCK TYPE G (1 POWER 1P+N+PE, IP 44)

ABBREVIATIONS:

CFM - Coffee Machine	HDR - Hair Drayer
CLN - Cleaners Sockets	MIR - Make-up Mirror
DMP-Demister Pad	KTL - Kettle
FCU - Fancoil Unit	MNB - Minibar
	SHV - Shower

NOTES:

- EQUIPMENT AND WAY OF INSTALLATION MUST CONFIRM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT.
- ALL EQUIPMENT (PANELS, SWITCHES, ACTUATORS, WIRING, ETC.) MUST HAVE PERMANENT MARKING ACCORDING TO THE NUMBERING IN THE DRAWING.
- USE CABLE WITH COPPER WIRE IN PVC NON SPREADING FIRE INSULATION.
- TOP CONNECTION TO THE PANEL SHOULD BE ARRANGED.
- WIRING LAMPS WITH BATTERY SHOWN IN TYPICAL UNITS.
- FOR LEGENDS AND DETAILS SEE LAYOUT "GENERAL NOTES".
- SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
- ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

DOCUMENT REVIEW STATUS

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☐ E	REVIEW NOT REQUIRED Work may proceed

No	Date	Description	Drawn	Checked	Approved
TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)	APPROVED BY LDE
AECOM	
NAME	SCALE
	DATE
	PAPER SIZE
	A0

DRAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR

AECOM

DRAWN BY	CHECKED BY	APPROVED BY
NAME	NAME	NAME
I.S.	R.F.	A.S.
DATE 30/12/2015	DATE 1/12/2015	DATE 2/12/2015

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Standard B room.
Typical Power Distribution

DRAWING NUMBER	REVISION
RBTH-AE-EL-TD-GEN-0034	TD0

0 0.5 1 2 2.5m

ABBREVIATIONS:

CFM - Coffee Machine	HDR - Hair Dryer
CLN - Cleaners Sockets	MIP - Make-up Mirror
DCM - Dimple Pad	KL - Kettle
FCU - Fancol Unit	MWB - Minibar
	SVS - Shower

NOTES:

EQUIPMENT AND LIST OF INSTALLATION MUST CONFORM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIM OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT .

- ALL EQUIPMENT (PANELS, SWITCHES, ACTUATORS, WIRING, ETC) MUST HAVE A PERMANENTLY ATTACHED LABEL WITH THE FOLLOWING INFORMATION.
- USE CABLE WITH COPPER WIRE IN PVC NON SPREADING FIRE INSULATION.
- TOP CONNECTION TO THE PANEL SHOULD BE ARRANGED.
- WIRING LAMPS WITH BATTERY SHOWN IN TYPICAL UNITS.
- FOR LEGENDS AND DETAILS SEE LAYOUT "GENERAL NOTES".
- SHELL AND CORD CONNECTION TO DRAWINGS PROVIDED BY CLIENT AND ON SITE MEASUREMENTS.
- ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

[illegible]

LIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE) 	APPROVED BY LDE DATE
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NAME	SCALE	DATE PAPER SIZE A0
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RAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR 

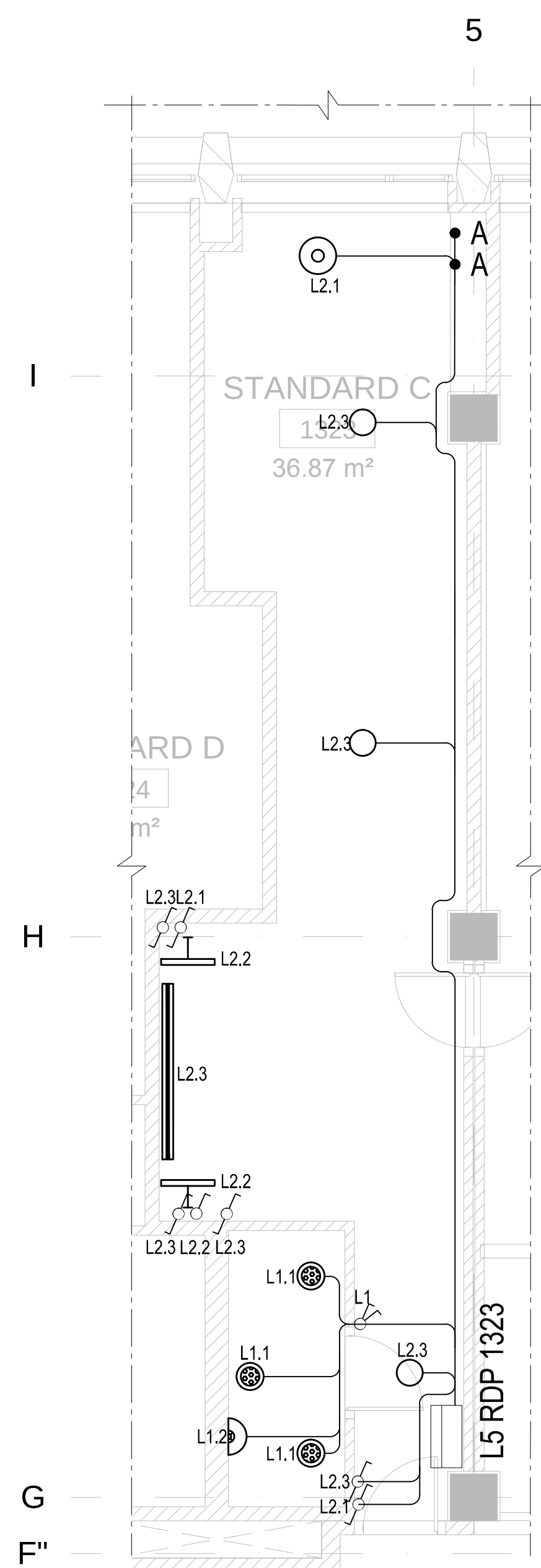
DRAWN BY	CHECKED BY	APPROVED BY
NAME S.	NAME R.F.	NAME A.S.
DATE 30/12/2015	DATE 1/12/2015	DATE 2/12/2015

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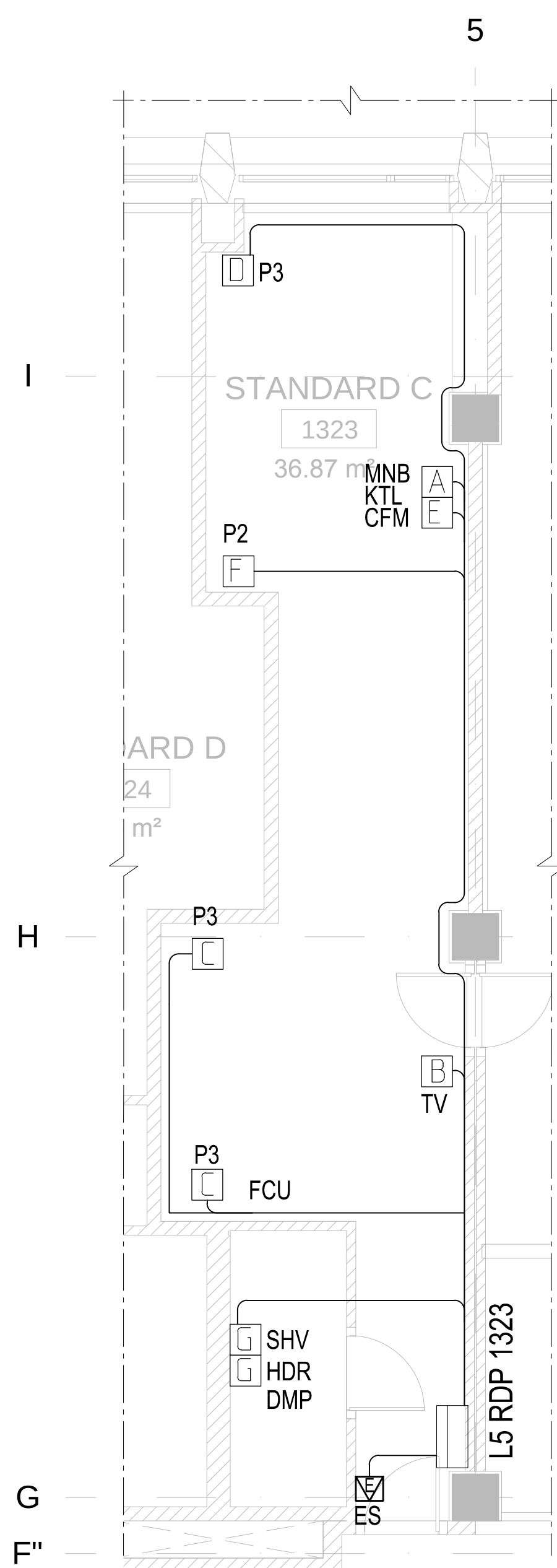
Radisson Blu Telegraph Hotel
Electrical
Standard C room.
Typical Power Distribution

DRAWING NUMBER	REVISION
RBTH-AE-EL-TD-GEN-0035	TD

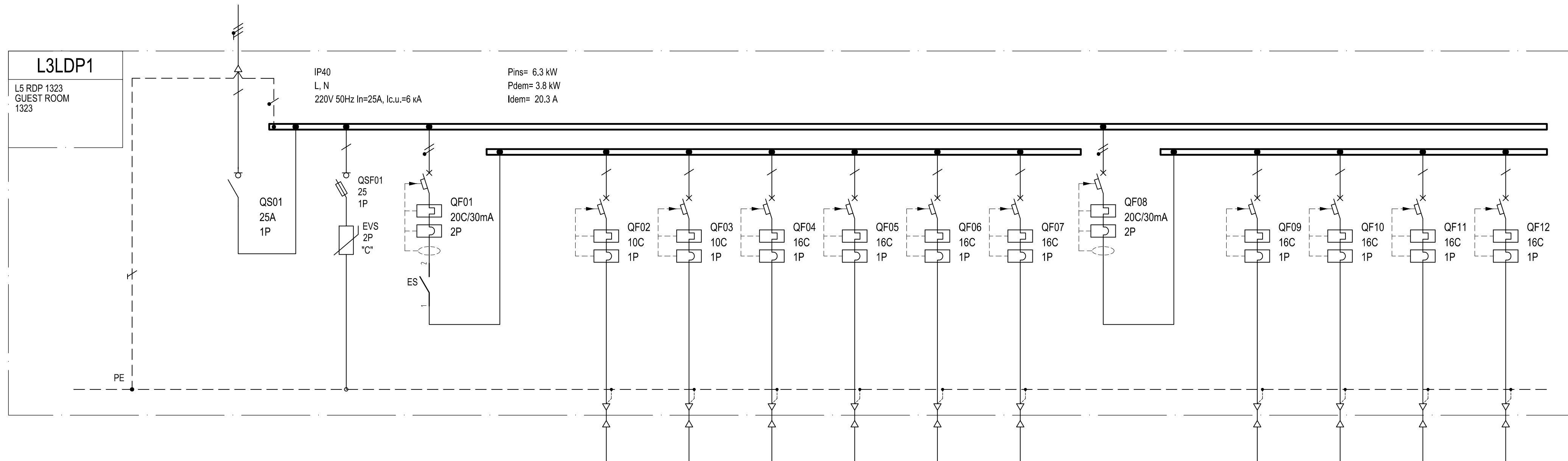
Lighting layout Level L5



Sockets layout Level L5



IP40
L, N
220V 50Hz



CIRCUIT NUMBER	..	..
CONSUMER NUMBER	..	..
DESTINATION	SUPPLY FROM LFD01	OVERVOLTAGE PROTECTION
POWER, kW	..	..
CURRENT, A	..	..
CABLE SIZE, mm ²	..	..
CABLE LENGTH, m	..	..
CABLE TYPE	..	..
CABLE TAG	..	..
TYPICAL DIAGRAM NUMBER	..	..

01	02	03	04	05	06
L1	L2	P1	P1	P2	FCU
BATHROOM LIGHTING	ROOM LIGHTING	HDR	SHV	BED SOCKETS	FCU
0.3	0.3	1.5	1.5	0.3	0.3
1.6	1.6	8	8	1.6	1.6
3*1.5	3*1.5	3*2.5	3*2.5	3*2.5	3*2.5
10	20	10	10	20	10
N2XH	N2XH	N2XH	N2XH	N2XH	N2XH
LSRDP1323-1	LSRDP1323-2	LSRDP1323-P1	LSRDP1323-P1	LSRDP1323-P2	LSRDP1323-FCU
--	--	--	--	--	--

07	08	09	10
P3	MMB	TV	KTLCFM
DECK SOCKETS	MMB	TV	KTLCFM
0.3	0.6	0.6	0.6
1.6	3.2	3.2	3.2
32.5	32.5	32.5	32.5
15	15	10	15
N20H	N20H	N20H	N20H
LSRDP1323-P3	LSRDP1323-MMB	LSRDP1323-TV	LSRDP1323-KTLCFM
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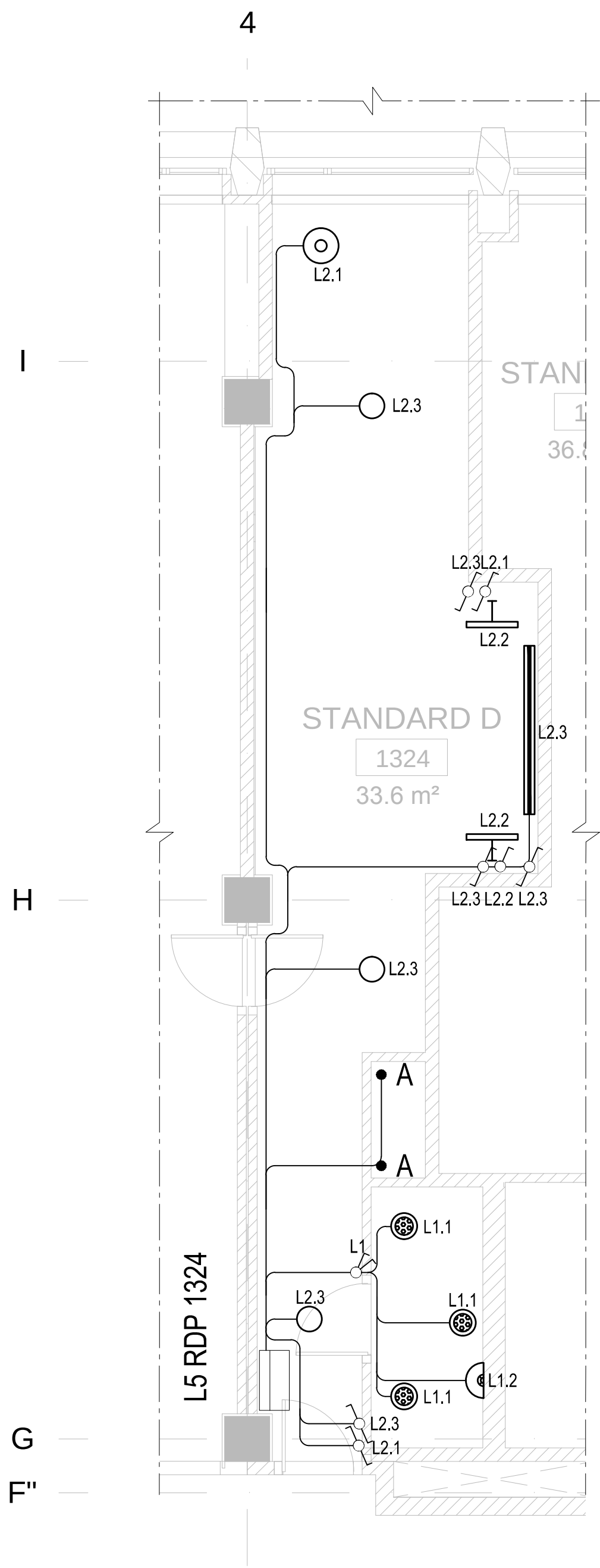
List of elements

Pos.	Description	Qnt.	Notes
	<u>Panel Pragma type IP40, wall mounting, inlet, include:</u>		
QSO1	Switch load 3P, 230V, 25A	1	Schneider
QSO1	Switch load with fuse 1P, 230V, 25A	1	Schneider
EVS	Surge suppressor, 2p, characteristic "C"	1	Schneider
QF01, QF08	Differential Circuit breaker 230V In=C30A/30mA, 2p	2	Schneider
QF04...QF07	Circuit breaker 230V In=C16A, 1p	4	Schneider
QF09...QF12	Circuit breaker 230V In=C16A, 1p	4	Schneider
ES	Energy Saver 3P In=C30A, 1p	1	

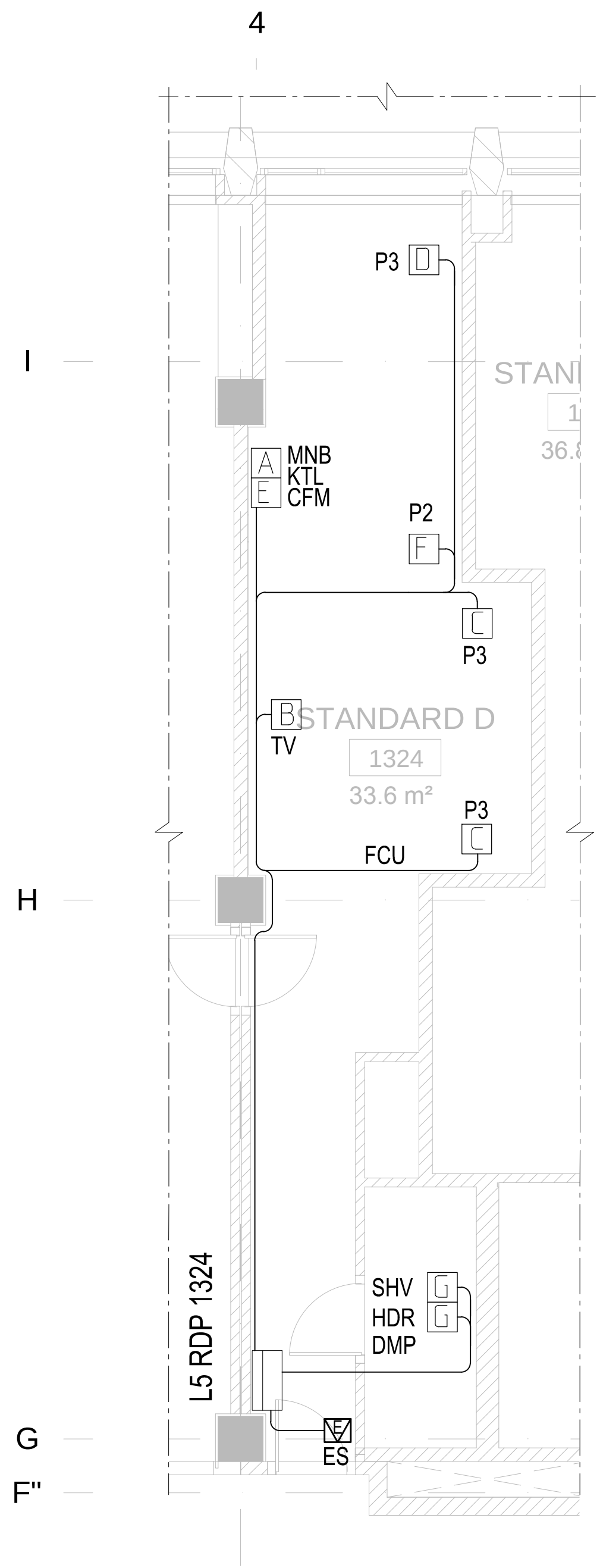
REVISI

TDR

Lighting layout Level L5



Sockets layout Level L5



List of elements

Pos.	Description	Qnt.	Notes
	Panel Pragma type, IP40, wall mounting, insult. include.		Schneider
QS01	Switch load 3P, 230V, 25A	1	Schneider
QS01	Switch load with fuse 1P, 230V, 25A	1	Schneider
EVS	Surge suppressor, 2p, characteristic "C"	1	Schneider
QF01, QF08	Differential Circuit breaker 230V In=C20A/30mA, 3p	2	Schneider
QF04, QF07	Circuit breaker 230V In=C16A, 1p	4	Schneider
QF09, QF12	Circuit breaker 230V In=C16A, 1p	4	Schneider
ES	Energy Saver 230V In=C30A, 1p	1	



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBLISI, GEORGIA

LEGENDS:

SYMBOL	DESCRIPTION
●	RECEDED DOWNLIGHT
■■■■■■■■■■	LED STRIP LIGHTING, 25 W/m
●	LED TABLE LUMINAIRE, 10 W
○	FLOOR LAMP
⌒	WALL SCONCE LIGHTING
●	DESK LAMP
⊙	PENDANT LAMP
○	DOWNLIGHT
⌒	READING / DECORATIVE LAMP INTEGRATED WITH SWITCH
• A	LIGHT FOR CLOSED SHELVES
■	ENERGY-POCKET
/	ONE-POLE SWITCH
/	TWO-POLE SWITCH
/	TWO-WAY SWITCH
A	SOCKET BLOCK TYPE A (1-TEL, DATA, 2 POWER 1P+N+PE)
B	SOCKET BLOCK TYPE B (1-TV, 1-DATA, 2 POWER 1P+N+PE)
C	SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P+N+PE)
D	SOCKET BLOCK TYPE D (1-MDH, 1-TEL, DATA, 3 POWER 1P+N+PE)
E	SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
F	SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, IP 20)
G	SOCKET BLOCK TYPE G (1 POWER 1P+N+PE, IP 44)

ABBREVIATIONS:

CFM - Coffee Machine	HDR - Hair Dryer
CLN - Cleaners Sockets	MIR - Make-up Mirror
DMP-Demister Pad	KTL - Kettle
FCU - Fancoil Unit	MNB - Minibar
	SHV - Shower

- NOTES:
- EQUIPMENT AND WAY OF INSTALLATION MUST CONFIRM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT.
 - ALL EQUIPMENT (PANELS, SWITCHES, ACTUATORS, WIRING, ETC.) MUST HAVE PERMANENT MARKING ACCORDING TO THE NUMBERING IN THE DRAWING.
 - USE CABLE WITH COPPER WIRE IN PVC NON SPREADING FIRE INSULATION.
 - TOP CONNECTION TO THE PANEL SHOULD BE ARRANGED.
 - WIRING LAMPS WITH BATTERY SHOWN IN TYPICAL UNITS.
 - FOR LEGENDS AND DETAILS SEE LAYOUT "GENERAL NOTES".
 - SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
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DOCUMENT REVIEW STATUS

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No	Date	Description	Drawn	Checked	Approved
TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)	APPROVED BY LDE
AECOM	
NAME	SCALE
	DATE
	PAPER SIZE
	A0

DRAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR	AECOM
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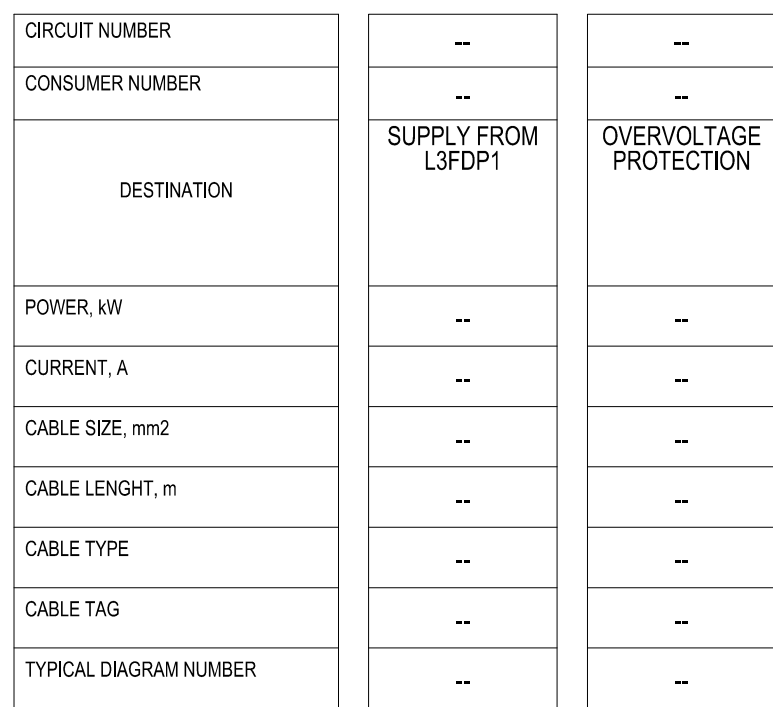
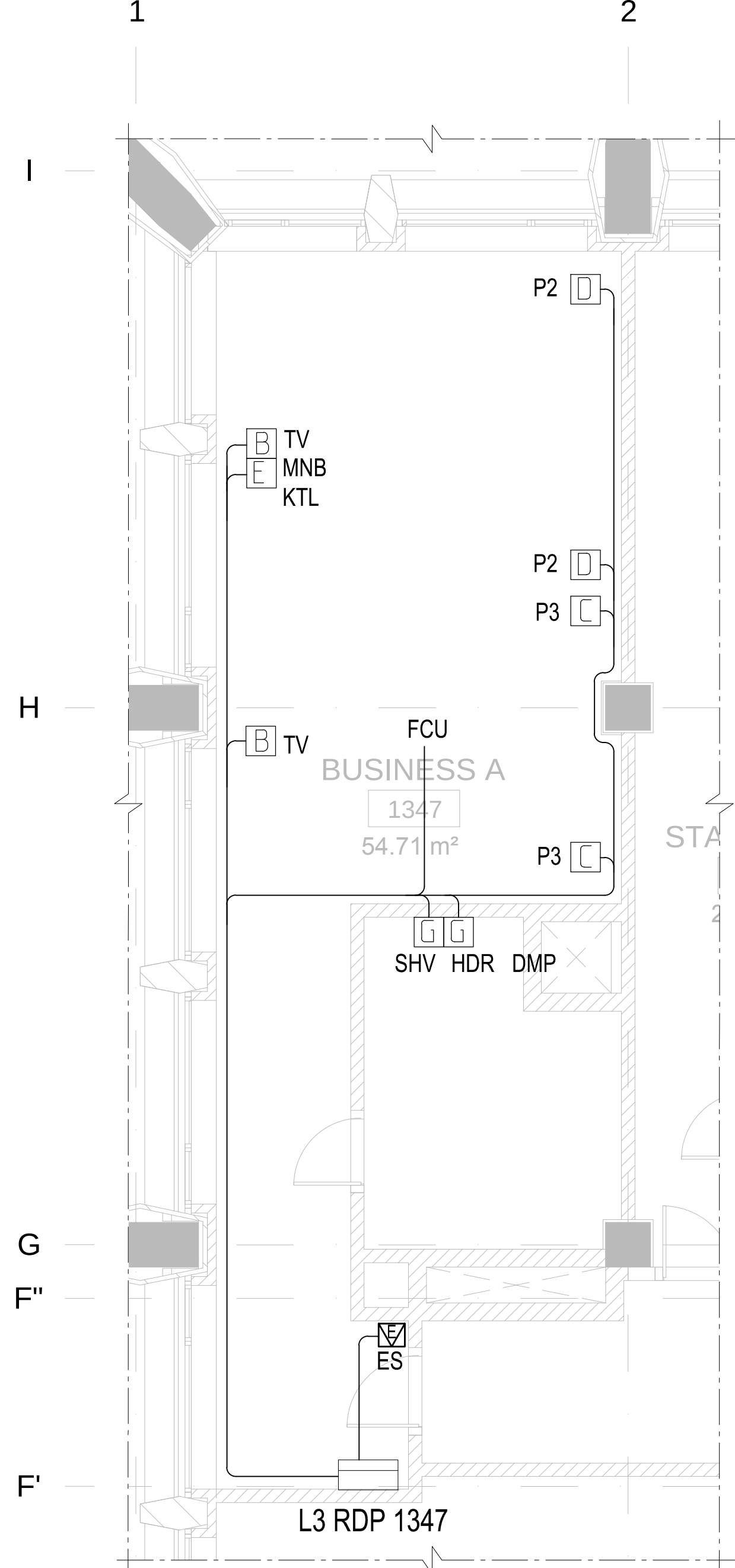
DRAWN BY	CHECKED BY	APPROVED BY
NAME	NAME	NAME
I.S.	R.F.	A.S.
DATE 30/12/2015	DATE 1/12/2015	DATE 2/12/2015

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Standard D room.
Typical Power Distribution

DRAWING NUMBER	REVISION
RBTH-AE-EL-TD-GEN-0036	TD0

0 0.5 1 2 2.5m



01	02	03	04	05	06
L1	L2	P1	P1	P2	FOU
BATHROOM	ROOM LIGHTING	HDR	SHV	BED SOCKETS	FOU
0.3	0.3	1.5	1.5	0.3	0.3
1.6	1.6	8	8	1.6	1.6
3*1.5	3*1.5	3*2.5	3*2.5	3*2.5	3*2.5
15	25	15	15	25	15
N2XH	N2XH	N2XH	N2XH	N2XH	N2XH
L3RD1347-1	L3RD1347-2	L3RD1347-1	L3RD1347-1	L3RD1347-P2	L3RD1347-FOU
--	--	--	--	--	--

07	08	09	10
P3	MNB	TV	KTLCFM
DECK SOCKETS	MNB	TV	KTLCFM
0.3	0.6	0.6	0.6
1.6	3.2	3.2	3.2
32.5	32.5	32.5	32.5
20	20	15	20
N2XH	N2XH	N2XH	N2XH
L3RD1347-P3	L3RD1347-MNB	L3RD1347-TV	L3RD1347-KTLCFM
--	--	--	--

List of elements

Pos.	Description	Qnt.	Notes
	Panel Pragma type IP40, wall mounting, inbuilt, include:		Schneider
QSO1	Switch load 3P, 230V, 25A	1	Schneider
QSO1F1	Switch load with fuse 1P, 230V, 25A	1	Schneider
EVS	Surge suppressor, 2p, characteristic "C"	1	Schneider
QF01, QF08	Differential Circuit breaker 230V In=C20A/30mA, 2p	2	Schneider
QF04, QF07	Circuit breaker 230V In=C16A, 1p	4	Schneider
QF09, QF12	Circuit breaker 230V In=C16A, 1p	4	Schneider
ES	Energy Saver 230V In=C30A, 1p	1	



LEGENDS:

SYMBOL	DESCRIPTION
	RECESED DOWNLIGHT
	LED STRIP LIGHTING, 25 W/m
	LED TABLE LUMINAIRE, 10 W
	FLOOR LAMP
	WALL SCONCE LIGHTING
	DESK LAMP
	PENDANT LAMP
	DOWNLIGHT
	READING / DECORATIVE LAMP INTEGRATED WITH SWITCH
	* A LIGHT FOR CLOSED SHELVES
	■ ENERGY-POCKET
	/ ONE-POLE SWITCH
	/ TWO-POLE SWITCH
	/ TWO-WAY SWITCH
	SOCKET BLOCK TYPE A (1-TEL/DATA, 2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE B (1-TV, 1-DATA, 2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE D (1-MDH, 1-TEL/DATA, 3 POWER 1P+N+PE)
	SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, IP 20)
	SOCKET BLOCK TYPE G (1 POWER 1P+N+PE, IP 44)

ABBREVIATIONS:

CFM - Coffee Machine	HDR - Hair Dryer
CLN - Cleaners Sockets	MIR - Make-up Mirror
DMP-Demister Pad	KTL - Kettle
FCU - Fancoil Unit	MNB - Minibar

NOTES:

- EQUIPMENT AND WAY OF INSTALLATION MUST CONFORM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT.
- ALL EQUIPMENT (PANELS, SWITCHES, ACTUATORS, WIRING, ETC.) MUST HAVE PERMANENT MARKING ACCORDING TO THE NUMBERING IN THE DRAWING.
 - USE CABLE WITH P.V.C. NOT SPREADING FIRE INSULATION.
 - TOP CONNECTION TO THE PANEL SHOULD BE ARRANGED.
 - WIRING LAMPS WITH BATTERY SHOWN IN TYPICAL UNITS.
 - FOR LEGENDS AND DETAILS SEE LAYOUT 'GENERAL NOTES'.
 - SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
 - ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

DOCUMENT REVIEW STATUS

☐ **A** REVIEWED
Work may proceed

☐ **B** REVIEWED WITH COMMENTS
Revise and re-submit. Work may proceed subject to incorporation of comments

☐ **C** OBJECTION
Revise and re-submit. Work may not proceed

☐ **D** REJECTED

☐ **E** REVIEW NOT REQUIRED
Work may proceed

[illegible]

LIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)



APPROVED BY LDE

NAME _____

SCALE

PAPER
SIZE

A0

RAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR



DRAWN BY

CHECKED BY	
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APPROVED BY _____

NAME _____

NAME _____

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Business A room.
Typical Power Distribution

DRAWING NUMBER
RBTH-AE-EL-TD-GEN-0037

REVISION

TDC

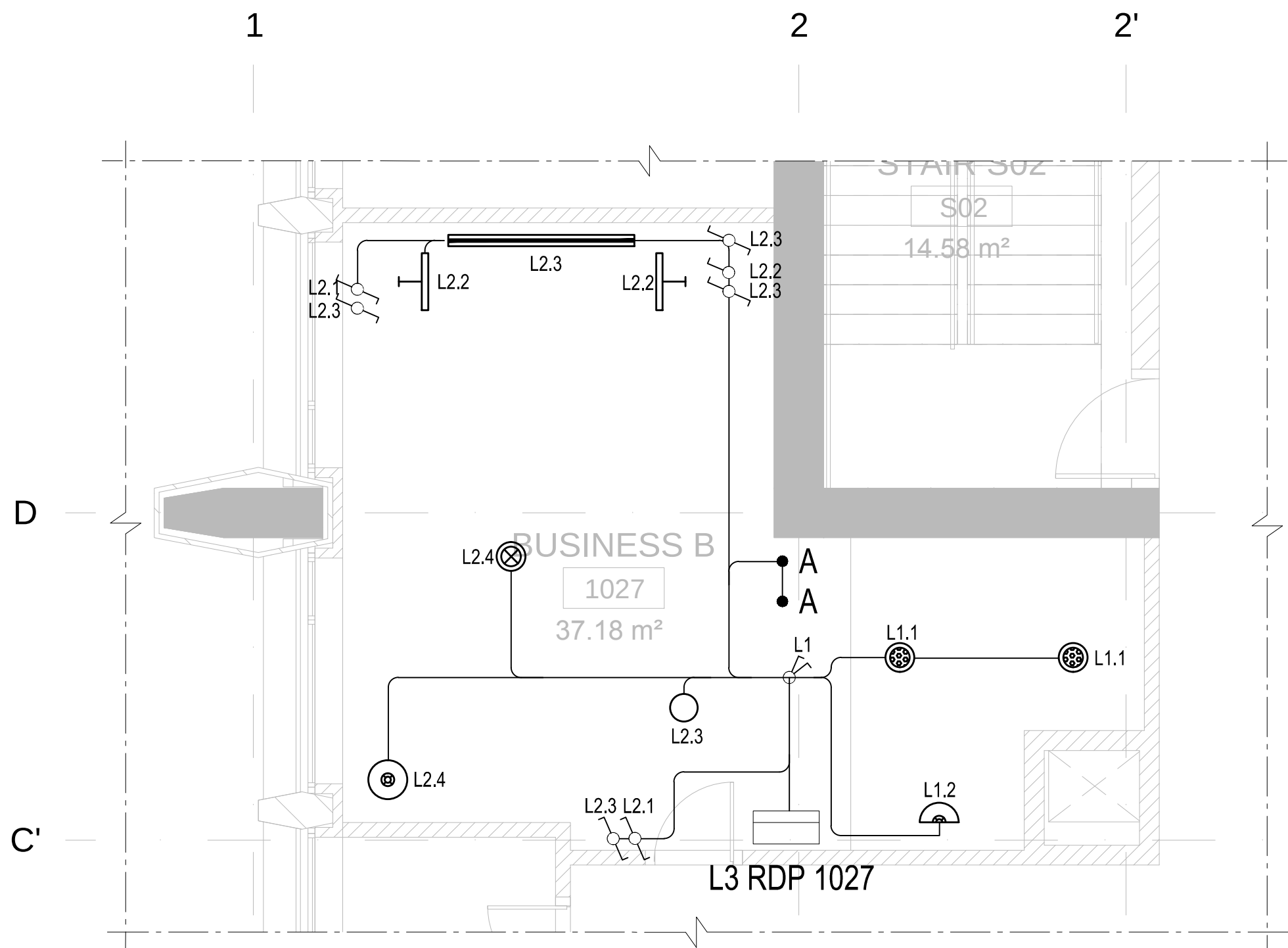


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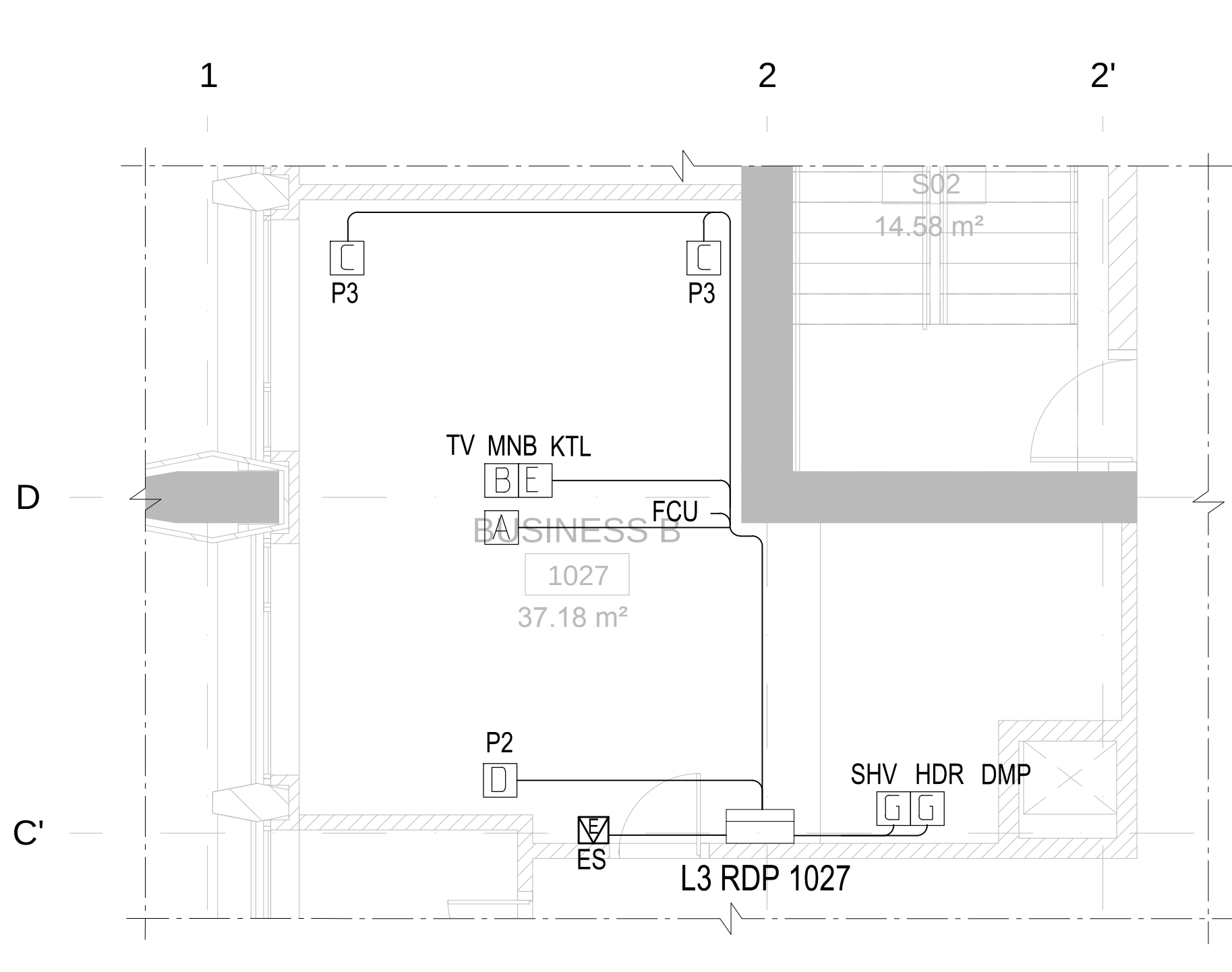
Electronic drawings only printed, are uncontrolled and may become outdated.

TIME&TAMP

Lighting layout Level L3

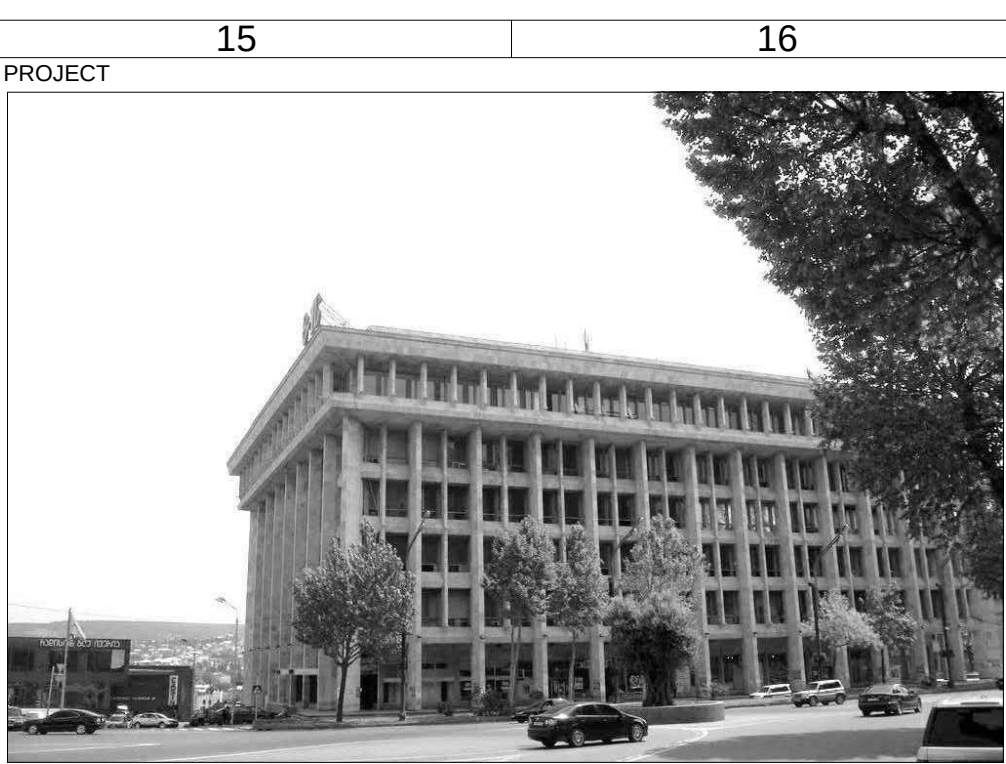


Sockets layout Level L3



List of elements

Pos.	Description	Qnt.	Notes
	Panel Pragma type IP40, wall mounting, inbuilt, include:		Schneider
QS01	Switch load 3P, 230V, 25A	1	Schneider
QSF01	Switch load with fuse 1P, 230V, 25A	1	Schneider
EVS	Surge suppressor, 2p, characteristic "C"	1	Schneider
QF01, QF08	Differential Circuit breaker 230V/In=C20A/30mA, 2p	2	Schneider
QF04...QF07	Circuit breaker 230V In=C16A, 1p	4	Schneider
QF09...QF12	Circuit breaker 230V In=C16A, 1p	4	Schneider
ES	Energy Sever 230V In=C30A, 1p	1	



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBILISI, GEORGIA

LEGENDS:

SYMBOL	DESCRIPTION
●	RECEDED DOWNLIGHT
■■■■■■■■	LED STRIP LIGHTING, 25 W/m
●	LED TABLE LUMINAIRE, 10 W
○	FLOOR LAMP
○	WALL SCONCE LIGHTING
●	DESK LAMP
○	PENDANT LAMP
○	DOWNLIGHT
⌞	READING / DECORATIVE LAMP INTEGRATED WITH SWITCH
• A	LIGHT FOR CLOSED SHELVES
■	ENERGY-POCKET
/	ONE-POLE SWITCH
/	TWO-POLE SWITCH
/	TWO-WAY SWITCH
[A]	SOCKET BLOCK TYPE A (1-TEL,DATA, 2 POWER 1P+N+PE)
[B]	SOCKET BLOCK TYPE B (1-1TV, 1-DATA, 2 POWER 1P+N+PE)
[C]	SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P+N+PE)
[D]	SOCKET BLOCK TYPE D (1-MDH, 1-TEL,DATA, 3 POWER 1P+N+PE)
[E]	SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
[F]	SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, IP 20)
[G]	SOCKET BLOCK TYPE G (1 POWER 1P+N+PE, IP 44)

ABBREVIATIONS:

CPM - Coffee Machine	HDR - Hair Drayer
CLN - Cleaners Sockets	MIR - Make-up Mirror
DMP-Demister Pad	KTL - Kettle
FCU - Fancoil Unit	MNB - Minibar
	SHV - Shower

- NOTES:
- EQUIPMENT AND WAY OF INSTALLATION MUST CONFIRM TO THE GEORGIAN AND EUROPEAN STANDARDS AND RULES. ANY MODIFICATION OF EQUIPMENT MOUNTING SHOULD BE AGREED WITH DESIGNER. IT IS ALLOWED TO USE SIMILAR OR HIGHER QUALITY MATERIALS THAN INDICATED IN THE PROJECT.
 - ALL EQUIPMENT (PANELS, SWITCHES, ACTUATORS, WIRING, ETC.) MUST HAVE PERMANENT MARKING ACCORDING TO THE NUMBERING IN THE DRAWING.
 - USE CABLE WITH COPPER WIRE IN PVC NON SPREADING FIRE INSULATION.
 - TOP CONNECTION TO THE PANEL SHOULD BE ARRANGED.
 - WIRING LAMPS WITH BATTERY SHOWN IN TYPICAL UNITS.
 - FOR LEGENDS AND DETAILS SEE LAYOUT "GENERAL NOTES".
 - SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
 - ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

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☐ D	REJECTED
☐ E	REVIEW NOT REQUIRED Work may proceed

No	Date	Description	Drawn	Checked	Approved
TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)		APPROVED BY LDE	
NAME	SCALE	DATE	PAPER SIZE
			A0

DRAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR	

DRAWN BY	CHECKED BY	APPROVED BY
NAME I.S.	NAME R.F.	NAME A.S.
DATE 30/12/2015	DATE 1/12/2015	DATE 2/12/2015

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Business B room.
Typical Power Distribution

DRAWING NUMBER	REVISION
RBTH-AE-EL-TD-GEN-0038	TD0

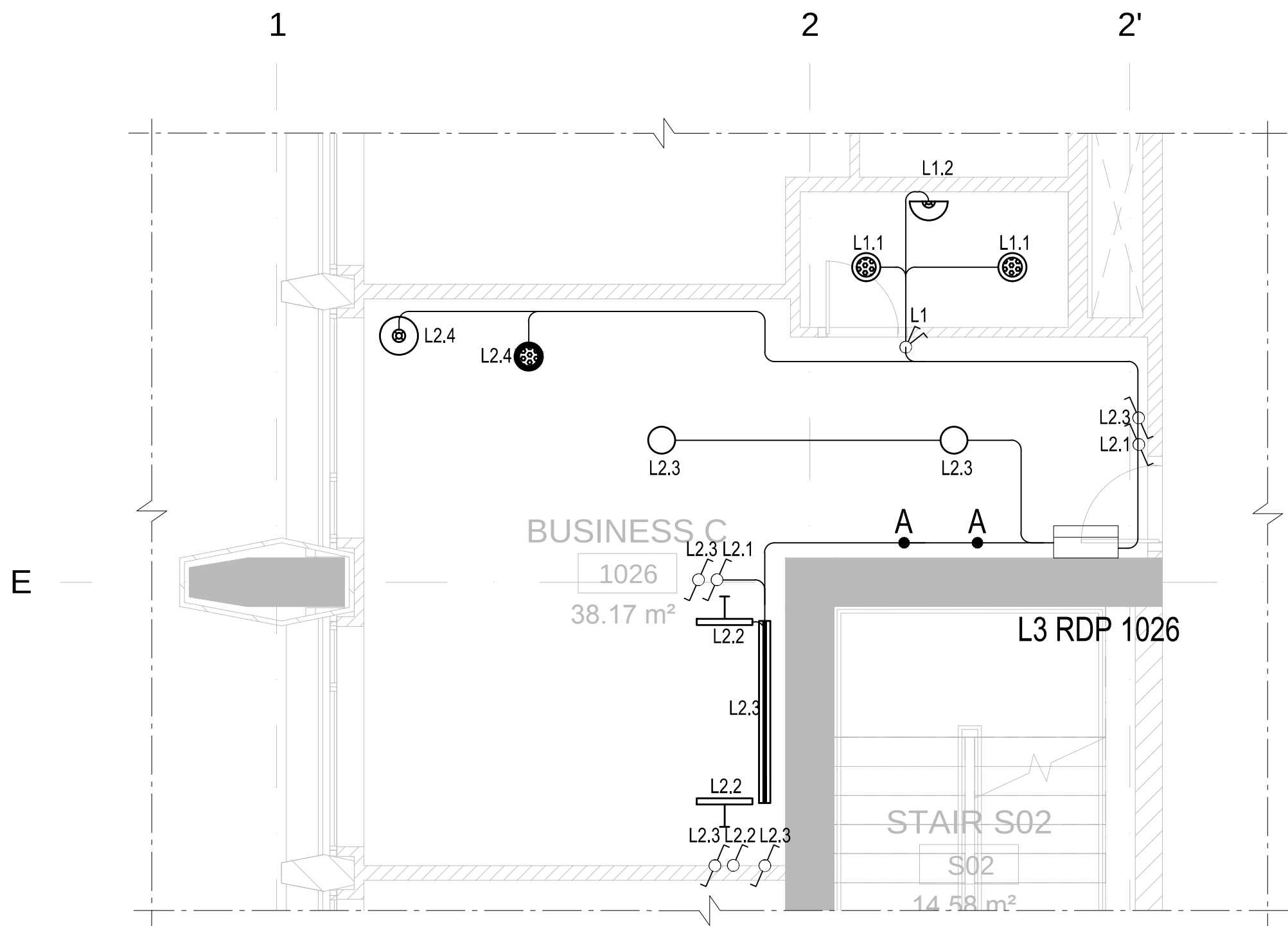
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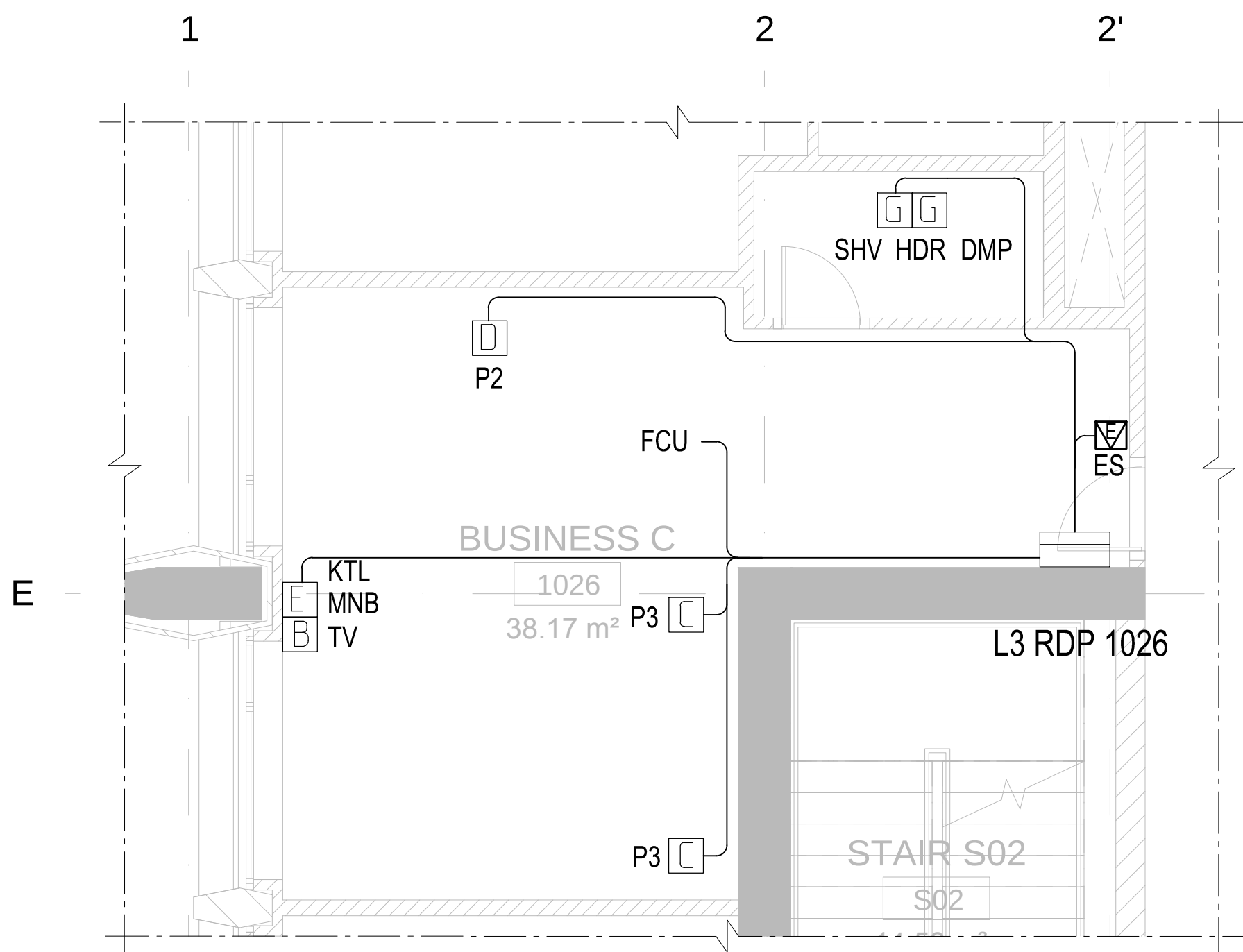
Electronic drawings only printed, are uncontrolled and may become out-dated.

TIME&TAMP

Lighting layout Level L3

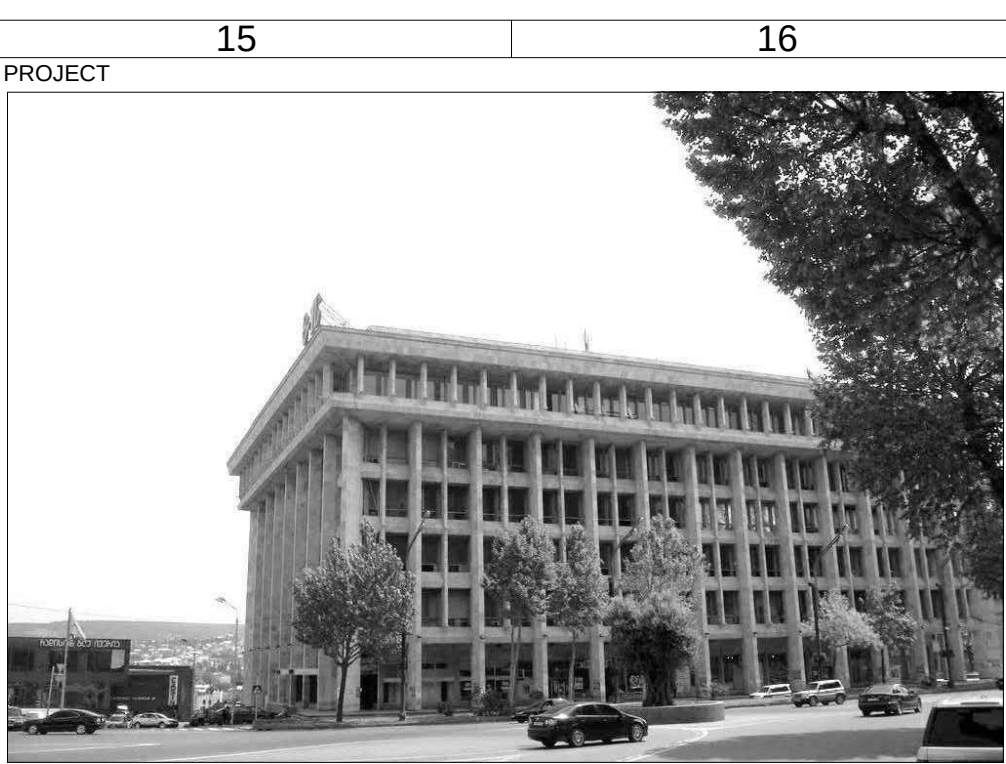


Sockets layout Level L3



List of elements

Pos.	Description	Qty.	Notes
	Panel Pragma type IP40, wall mounting, ribult, include:		Schneider
QS01	Switch load 3P, 230V, 25A	1	Schneider
QSF01	Switch load with fuse 1P, 230V, 25A	1	Schneider
EVS	Surge suppressor, 2p, characteristic "C"	1	Schneider
QF01_QF08	Differential Circuit breaker 230V In=C20A30mA 2p	2	Schneider
QF04_QF07	Circuit breaker 230V In=C16A, 1p	4	Schneider
QF09_QF12	Circuit breaker 230V In=C16A, 1p	4	Schneider
ES	Energy Saver 230V In=C30A, 1p	1	



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBLISI, GEORGIA

LEGENDS:

SYMBOL	DESCRIPTION
●	RECESED DOWNLIGHT
■■■■■■■■■■	LED STRIP LIGHTING, 25 W/m
⊙	LED TABLE LUMINAIRE, 10 W
⊙	FLOOR LAMP
⊙	WALL SCONCE LIGHTING
●	DESK LAMP
⊙	PENDANT LAMP
○	DOWNLIGHT
⊥	READING / DECORATIVE LAMP INTEGRATED WITH SWITCH
• A	LIGHT FOR CLOSED SHELVES
⊞	ENERGY-POCKET
/	ONE-POLE SWITCH
/	TWO-POLE SWITCH
/	TWO-WAY SWITCH
[A]	SOCKET BLOCK TYPE A (1-TEL,DATA, 2 POWER 1P+N+PE)
[B]	SOCKET BLOCK TYPE B (1-TV, 1-DATA, 2 POWER 1P+N+PE)
[C]	SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P+N+PE)
[D]	SOCKET BLOCK TYPE D (1-MD,H, 1-TEL,DATA, 3 POWER 1P+N+PE)
[E]	SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
[F]	SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, IP 20)
[G]	SOCKET BLOCK TYPE G (1 POWER 1P+N+PE, IP 44)

ABBREVIATIONS:

CFM - Coffee Machine	HDR - Hair Dryer
CLN - Cleaners Sockets	MIR - Make-up Mirror
DMP-Demister Pad	KTL - Kettle
FCU - Fancoil Unit	MNB - Minibar
	SHV - Shower

NOTES:

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- WIRING LAMPS WITH BATTERY SHOWN IN TYPICAL UNITS.
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TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)

APPROVED BY LDE

NAME SCALE DATE PAPER SIZE A0

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR

AECOM

DRAWN BY CHECKED BY APPROVED BY

NAME NAME NAME

I.S. R.F. A.S.

DATE 30/12/2015 DATE 1/12/2015 DATE 2/12/2015

DRAWING TITLE

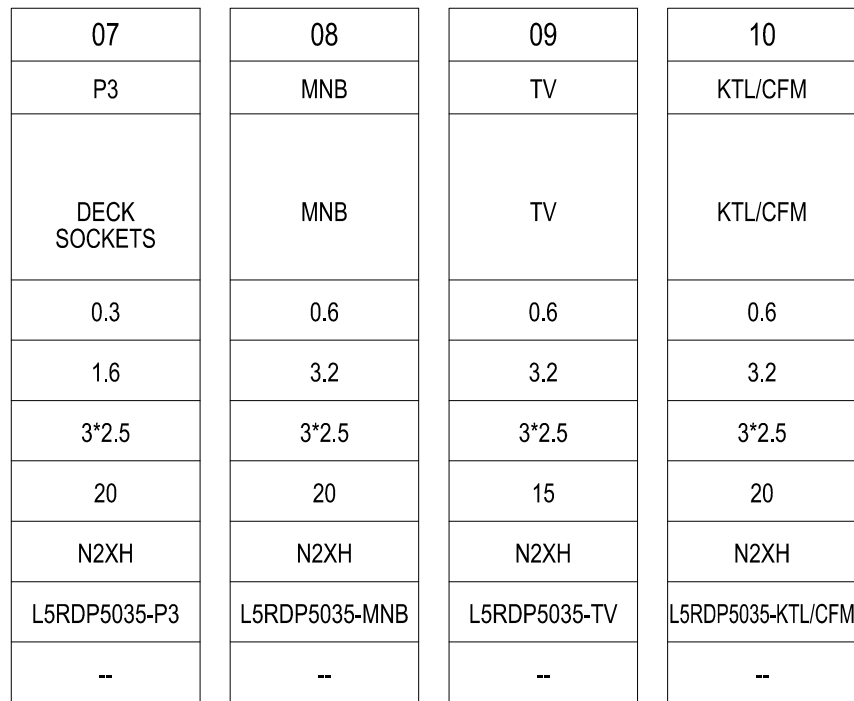
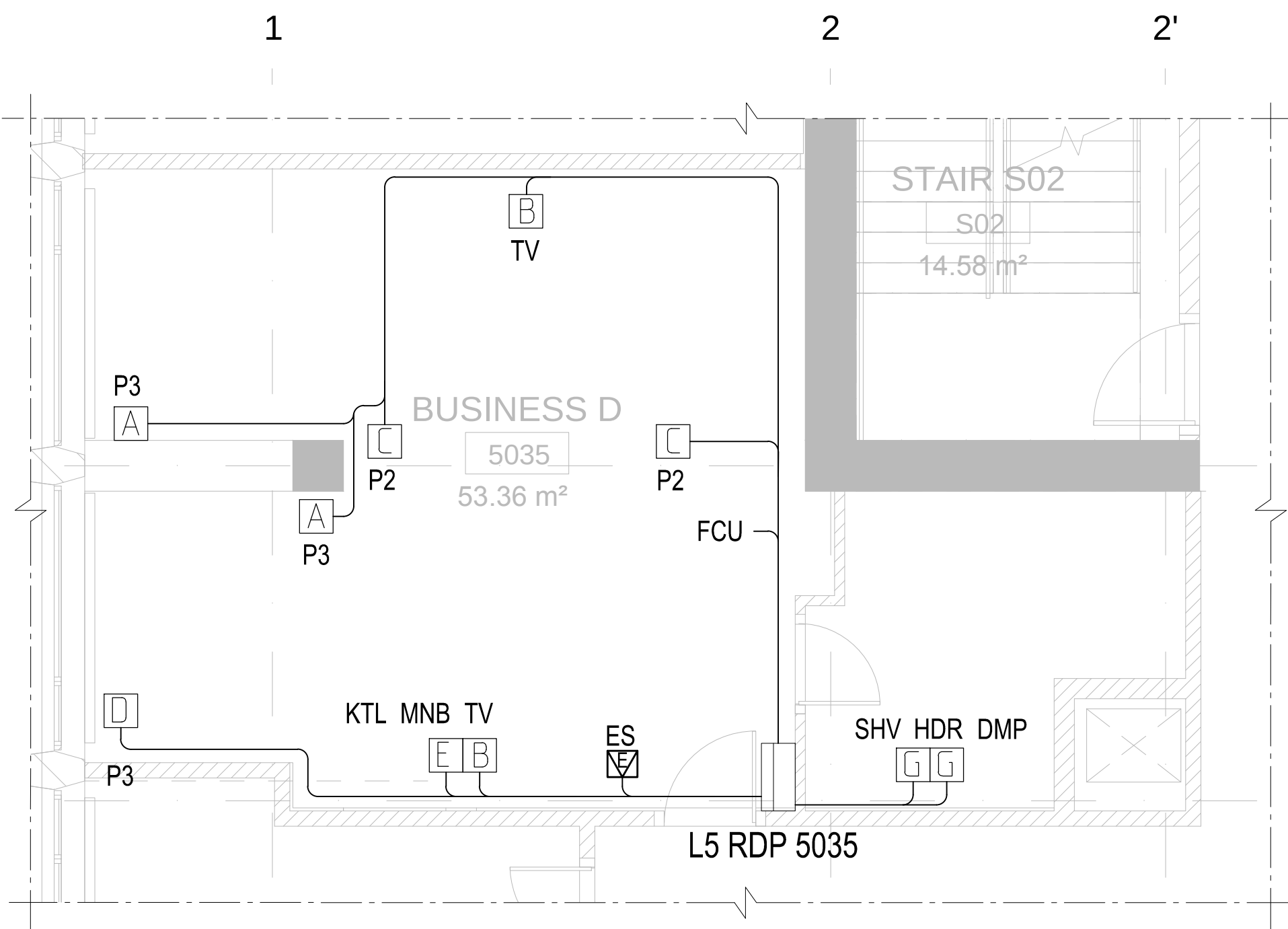
Radisson Blu Telegraph Hotel
Electrical
Business C room.
Typical Power Distribution

DRAWING NUMBER REVISION

RBTH-AE-EL-TD-GEN-0039 TD0

0 0.5 1 2 2.5m

Sockets layout Level L5



Pos.	Description	Qnt.	Notes
	Panel Pragma type IP40, wall mounting, inbuilt, include :		Schneider
QS01	Switch load 3P, 230V, 25A	1	Schneider
QS01F	Switch load with fuse 1P, 230V, 25A	1	Schneider
EVS	Surge suppressor, 2p, characteristic "C"	1	Schneider
OF01, OF08	Differential Circuit breaker 230V In=C20A30mA, 2p	2	Schneider
OF04, OF07	Circuit breaker 230V In=C16A, 1p	4	Schneider
OF06, OF12	Circuit breaker 230V In=C16A, 1p	4	Schneider
ES	Energy Saver 230V In=C30A, 1p	1	

List of elements



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBILISI, GEORGIA

LEGENDS

SYMBOL	DESCRIPTION
	RECESSED DOWNLIGHT
	LED STRIP LIGHTING, 25 W/m
	LED TABLE LUMINAIRE, 10 W
	FLOOR LAMP
	WALL SCONCE LIGHTING
	DESK LAMP
	PENDANT LAMP
	DOWNLIGHT
	READING / DECORATIVE LAMP INTEGRATED WITH SWITCH
	■ A LIGHT FOR CLOSED SHELVES
	■ B ENERGY-POCKET
	/ C ONE-POLE SWITCH
	/ D TWO-POLE SWITCH
	/ E TWO-WAY SWITCH
	[A] SOCKET BLOCK TYPE A (1-TEL/DATA, 2 POWER 1P+N+PE)
	[B] SOCKET BLOCK TYPE B (1-T/V, 1-DATA, 2 POWER 1P+N+PE)
	[C] SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P+N+PE)
	[D] SOCKET BLOCK TYPE D (1-MDH, 1-TEL/DATA, 3 POWER 1P+N+PE)
	[E] SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
	[F] SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, IP 20)
	[G] SOCKET BLOCK TYPE G (1 POWER 1P+N+PE, IP 44)

ABBREVIATIONS

CFM - Coffee Machine	HDR - Hair Dryer
CLN - Cleaners Sockets	MIR - Make-up Mirror
DMP-Demister Pad	KTL - Kettle
FCU - Fancoil Unit	MNB - Minibar

NOTES:

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REVISIONS

[illegible]

LIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)



APPROVED BY LDE

NAME _____

SCALE

DATE _____
PAPER SIZE **A0**

RAWING STATUS

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CONSULTANT / SUB-CONTRACTOR



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CHECKED B

APPROVED BY _____

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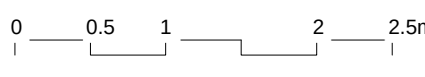
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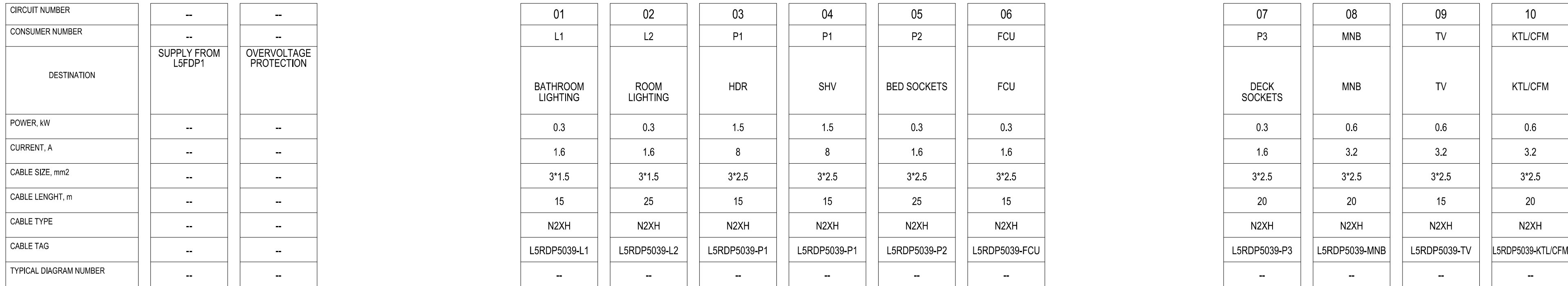
Radisson Blu Telegraph Hotel
Electrical
Business D room.
Typical Power Distribution

DRAWING NUMBER
RBTH-AE-EL-TD-GEN-0040

REVISION

TDO





LEGENDS:	
SYMBOL	DESCRIPTION
	RECESSED DOWNLIGHT
	LED STRIP LIGHTING, 25 W/m
	LED TABLE LUMINAIRE, 10 W
	FLOOR LAMP
	WALL SCONCE LIGHTING
	DESK LAMP
	PENDANT LAMP
	DOWNLIGHT
	READING / DECORATIVE LAMP INTEGRATED WITH SWITCH
	LIGHT FOR CLOSED SHELVES
	ENERGY-POCKET
	ONE-POLE SWITCH
	TWO-POLE SWITCH
	TWO-WAY SWITCH
	SOCKET BLOCK TYPE A (1-TEL/DATA, 2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE B (1-TV, 1-DATA, 2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE D (1-MDH, 1-TEL/DATA, 3 POWER 1P+N+PE)
	SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, IP 20)
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[illegible]

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)		APPROVED BY LDE
		
		DATE
NAME	SCALE	PAPER SIZE
		A0

DRAWING STATUS

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NAME S.	NAME R.F.	NAME A.S.
DATE 30/12/2015	DATE 1/12/2015	DATE 2/12/2015

Radisson Blu Telegraph Hotel
Electrical
Business E room.
Typical Power Distribution

RAWING NUMBER	REVISION
RBTH-AE-EL-TD-GEN-0041	TD

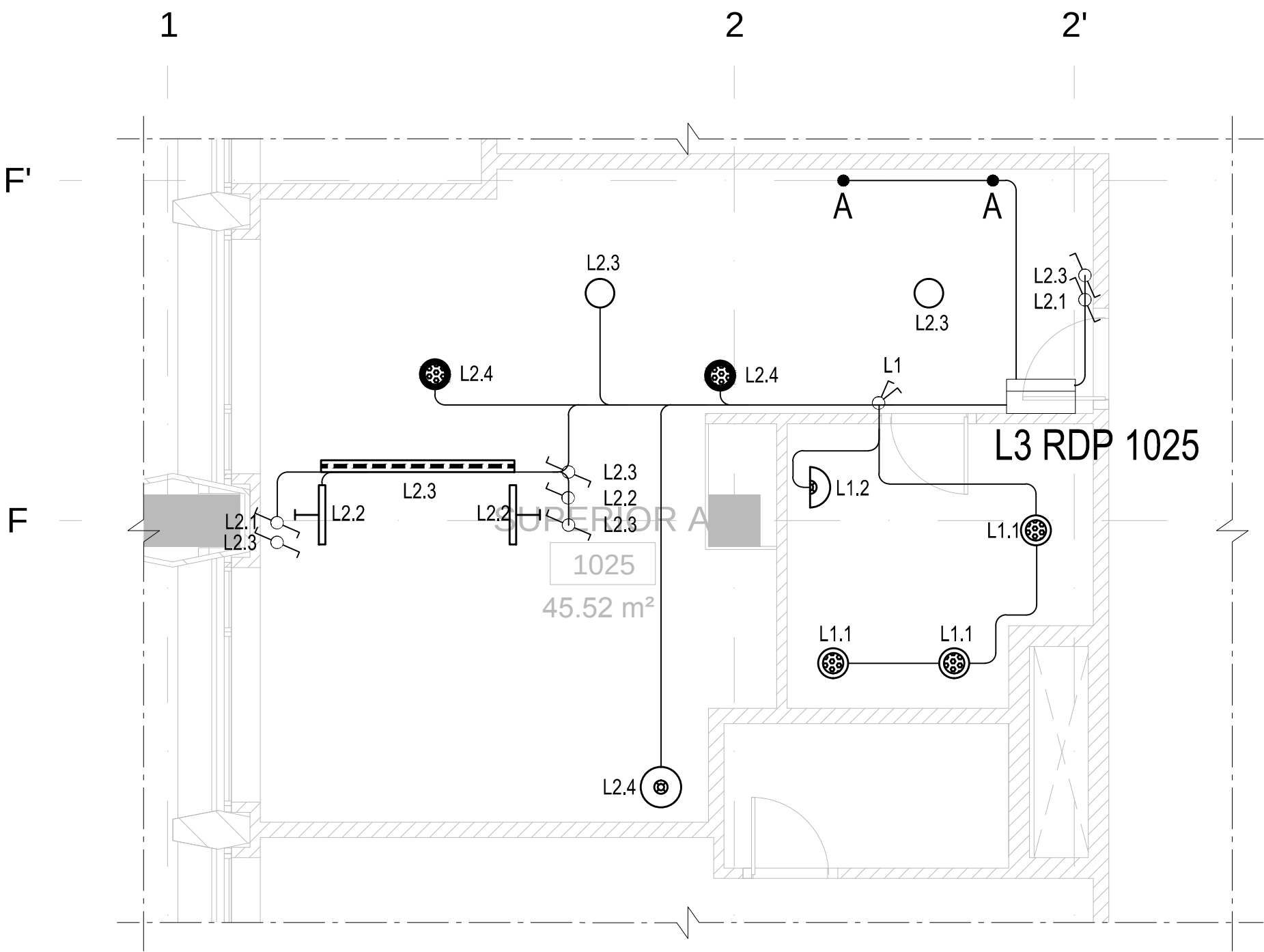


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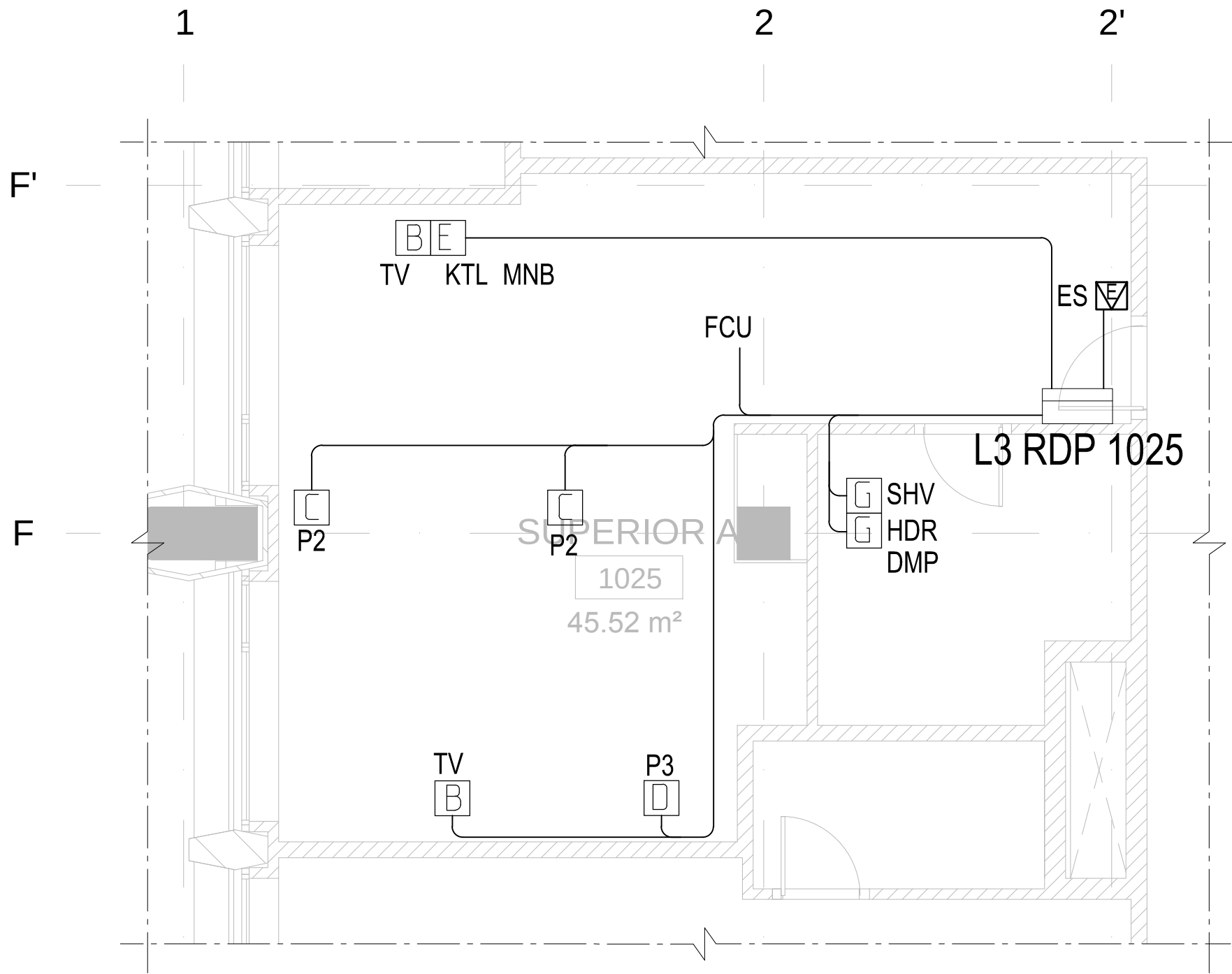
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TIME/STAMP

Lighting layout Level L3



Sockets layout Level L3



List of elements

Pos.	Description	Qnt.	Notes
	Panel Pragma type: IP40, wall mounting, inbuilt, include:		Schneider
QS01	Switch load 3P, 230V, 25A	1	Schneider
QS01	Switch load with fuse 1P, 230V, 25A	1	Schneider
EVS	Surge suppressor, 2p, characteristic "C"	1	Schneider
QF01_QF08	Differential Circuit breaker 230V In=C20A30mA, 2p	2	Schneider
QF04_QF07	Circuit breaker 230V In=C16A, 1p	4	Schneider
QF09_QF12	Circuit breaker 230V In=C16A, 1p	4	Schneider
ES	Energy Saver 230V In=C30A, 1p	1	



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBLISI, GEORGIA

LEGENDS:

SYMBOL	DESCRIPTION
●	RECEDED DOWNLIGHT
—	LED STRIP LIGHTING, 25 W/m
●	LED TABLE LUMINAIRE, 10 W
○	FLOOR LAMP
○	WALL SCONCE LIGHTING
●	DESK LAMP
○	PENDANT LAMP
○	DOWNLIGHT
—	READING / DECORATIVE LAMP INTEGRATED WITH SWITCH
• A	LIGHT FOR CLOSED SHELVES
■	ENERGY-POCKET
⌋	ONE-POLE SWITCH
⌋	TWO-POLE SWITCH
⌋	TWO-WAY SWITCH
A	SOCKET BLOCK TYPE A (1-TEL, DATA, 2 POWER 1P+N+PE)
B	SOCKET BLOCK TYPE B (1-TV, 1-DATA, 2 POWER 1P+N+PE)
C	SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P+N+PE)
D	SOCKET BLOCK TYPE D (1-MDH, 1-TEL, DATA, 3 POWER 1P+N+PE)
E	SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
F	SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, IP 20)
G	SOCKET BLOCK TYPE G (1 POWER 1P+N+PE, IP 44)

ABBREVIATIONS:

CPM - Coffee Machine	HDR - Hair Dryer
CLN - Cleaners Sockets	MIR - Make-up Mirror
DMP-Demister Pad	KTL - Kettle
FCU - Fancoil Unit	MNB - Minibar
	SHV - Shower

- NOTES:
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TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

SILK ROAD BUSINESS CENTER LLC	
LEAD DESIGN ENTITY (LDE)	APPROVED BY LDE
NAME	SCALE
	DATE
	PAPER SIZE
	A0

DRAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR

DRAWN BY	CHECKED BY	APPROVED BY
NAME	NAME	NAME
I.S.	R.F.	A.S.
DATE	DATE	DATE
30/12/2015	1/12/2015	2/12/2015

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Superior A room.
Typical Power Distribution

DRAWING NUMBER	REVISION
RBTH-AE-EL-TD-GEN-0042	TD0

0 0.5 1 2 2.5m

8 19



8 19



	Cont	Notes
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QF09...QF12	Circuit breaker 230V In=C16A, 1p	4	Schneider
ES	Emergency Stop 230V In=C20A, 1p	1	

	LED STRIP LIGHTING, 25 W/m
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CFM - Coffee Machine	HDR - Hair Dryer
CLN - Cleaners Sockets	MIR - Make-up Mirror
DMP - Demister Pad	CTL - Kettle
FCU - Fancoil Unit	MNB - Minibar

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00	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.



0435

NAME	SCALE	PAPER SIZE	40
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PHASE II

PHASE II
TENDER DOCUMENTS

NAME C	NAME B F	NAME A G
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Radisson Blu Telegraph Hotel

Radisson Blu Telegraph Hotel
Electrical
Superior B room.
Typical Power Distribution

BBTH-AE-EI-TD-GEN-0043

TD

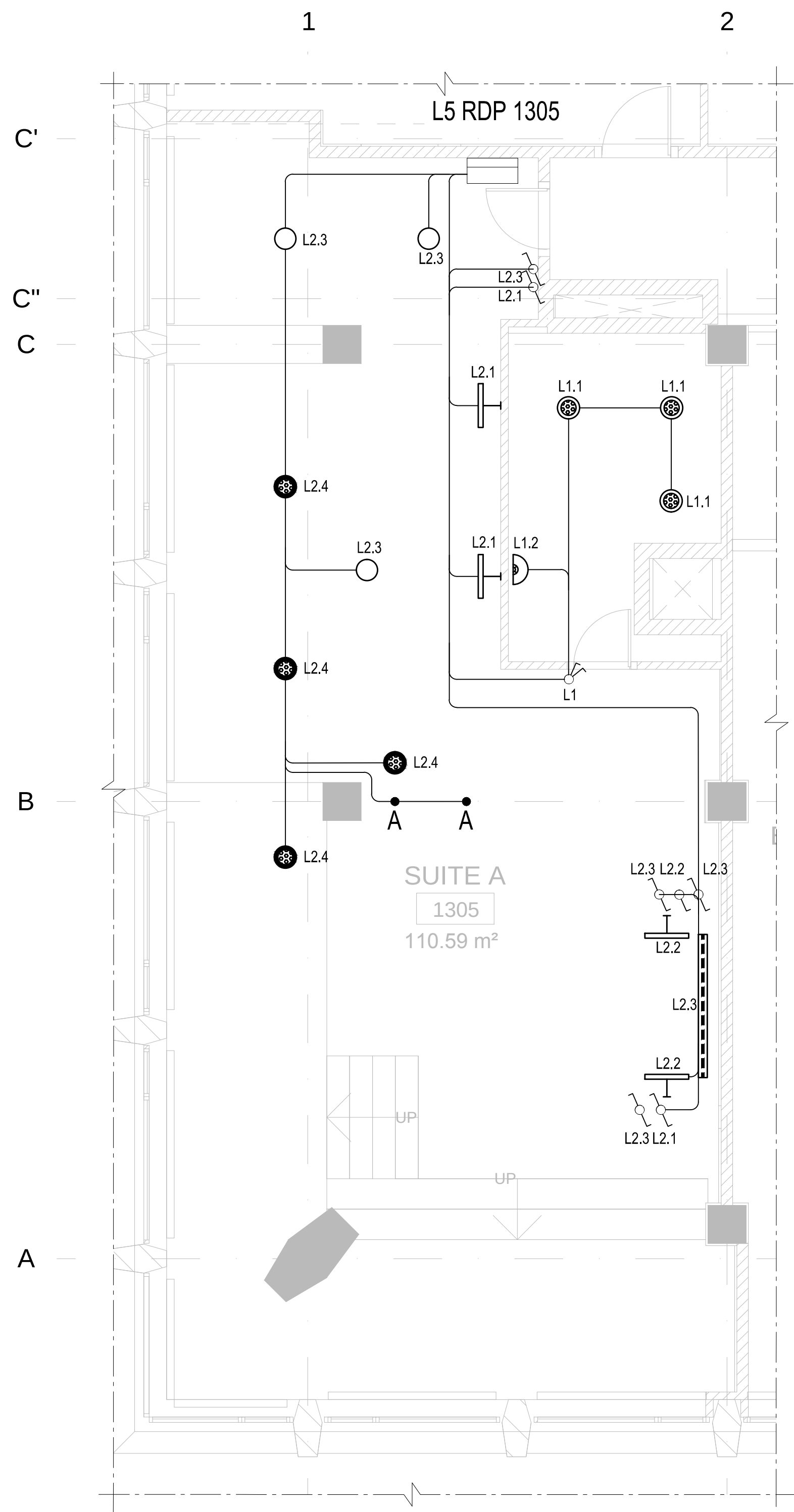
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DO NOT SCALE FROM THIS DRAWING

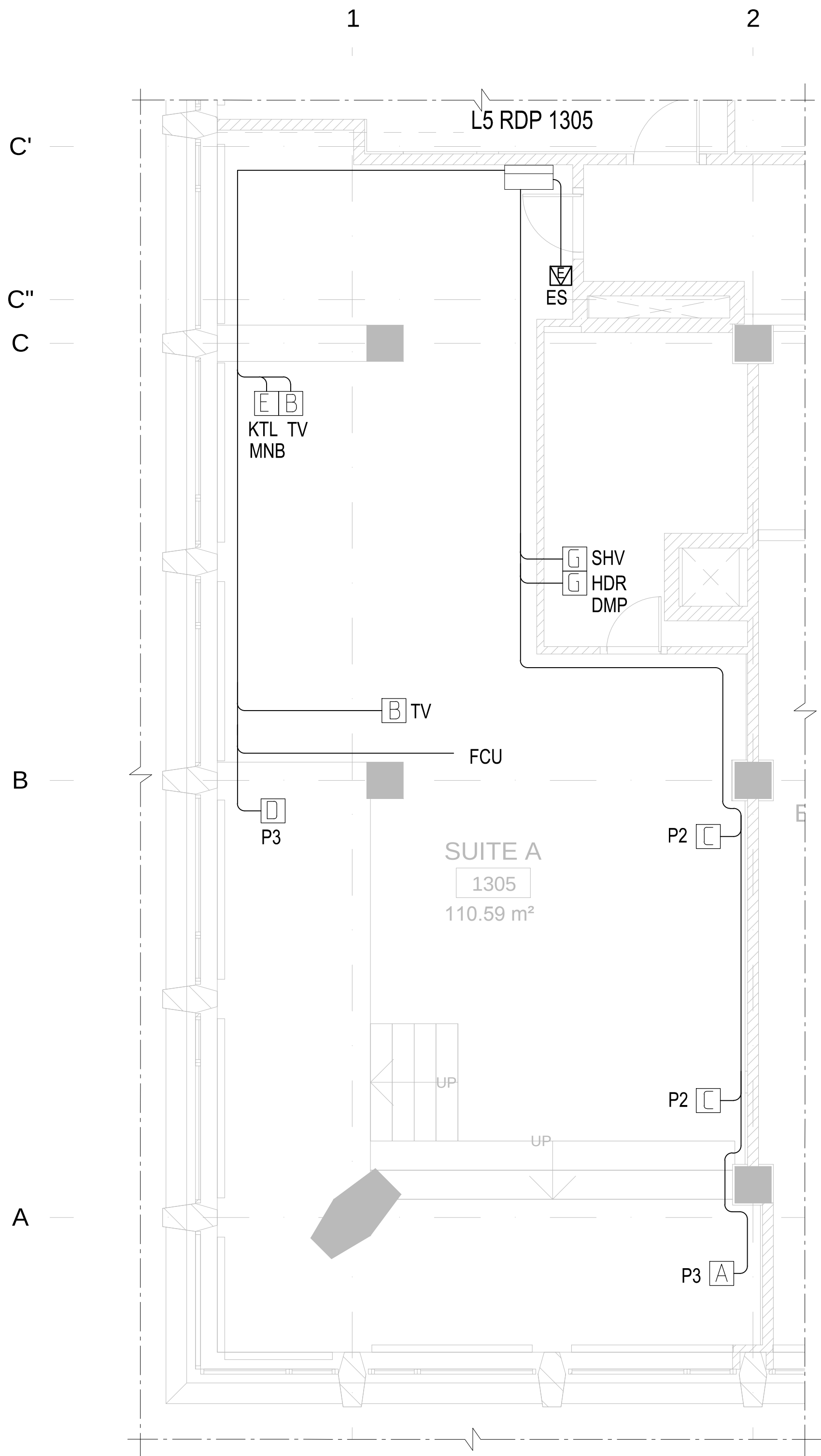
Electronic drawings only printed, are uncontrolled and may become outdated.

TIME/STAMP

Lighting layout Level L5



Sockets layout Level L5



List of elements

Pos.	Description	Qty.	Notes
	Panel Pragma type IP40, wall mounting, inbuilt, include :		Schneider
QS01	Switch load 3P, 230V, 25A	1	Schneider
QS01	Switch load with fuse 1P, 230V, 25A	1	Schneider
EVS	Surge suppressor, 2p, characteristic "C"	1	Schneider
QF01, QF08	Differential Circuit breaker 230V In=C20A30mA, 2p	2	Schneider
QF04...QF07	Circuit breaker 230V In=C16A, 1p	4	Schneider
QF09...QF12	Circuit breaker 230V In=C16A, 1p	4	Schneider
ES	Energy Saver 230V In=C30A, 1p	1	



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE , TBILISI , GEORGIA

LEGENDS:

SYMBOL	DESCRIPTION
●	RECEDED DOWNLIGHT
—	LED STRIP LIGHTING, 25 W/m
⊙	LED TABLE LUMINAIRE, 10 W
⊙	FLOOR LAMP
⌒	WALL SCONCE LIGHTING
●	DESK LAMP
⊙	PENDANT LAMP
○	DOWNLIGHT
⌒	READING / DECORATIVE LAMP INTEGRATED WITH SWITCH
• A	LIGHT FOR CLOSED SHELVES
⊞	ENERGY-POCKET
⌒	ONE-POLE SWITCH
⌒	TWO-POLE SWITCH
⌒	TWO-WAY SWITCH
⌒	SOCKET BLOCK TYPE A (1-TEL,DATA, 2 POWER 1P+N+PE)
⌒	SOCKET BLOCK TYPE B (1-1-TV, 1-DATA, 2 POWER 1P+N+PE)
⌒	SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P+N+PE)
⌒	SOCKET BLOCK TYPE D (1-MDH, 1-TEL,DATA, 3 POWER 1P+N+PE)
⌒	SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
⌒	SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, IP 20)
⌒	SOCKET BLOCK TYPE G (1 POWER 1P+N+PE, IP 44)

ABBREVIATIONS:

CPM - Coffee Machine	HDR - Hair Dryer
CLN - Cleaners Sockets	MIR - Make-up Mirror
DMP-Demister Pad	KTL - Kettle
FCU - Fancoil Unit	MNB - Minibar
	SHV - Shower

- NOTES:
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 - USE CABLE WITH COPPER WIRE IN PVC NON SPREADING FIRE INSULATION.
 - TOP CONNECTION TO THE PANEL SHOULD BE ARRANGED.
 - WIRING LAMPS WITH BATTERY SHOWN IN TYPICAL UNITS.
 - FOR LEGENDS AND DETAILS SEE LAYOUT GENERAL NOTES.
 - SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
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DOCUMENT REVIEW STATUS

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No	Date	Description	Drawn	Checked	Approved
TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)	APPROVED BY LDE
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NAME	SCALE
	DATE
	PAPER SIZE
	A0

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CONSULTANT / SUB-CONTRACTOR

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NAME	NAME	NAME
I.S.	R.F.	A.S.
DATE	DATE	DATE
30/12/2015	1/12/2015	2/12/2015

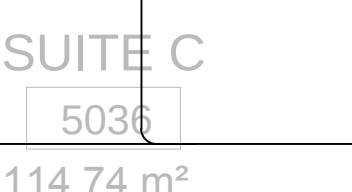
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Radisson Blu Telegraph Hotel
Electrical
Suite A room.
Typical Power Distribution

DRAWING NUMBER	REVISION
RBTH-AE-EL-TD-GEN-0044	TD0

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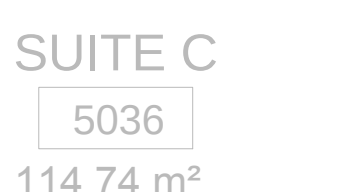
2 2'



L5 RDP 5036

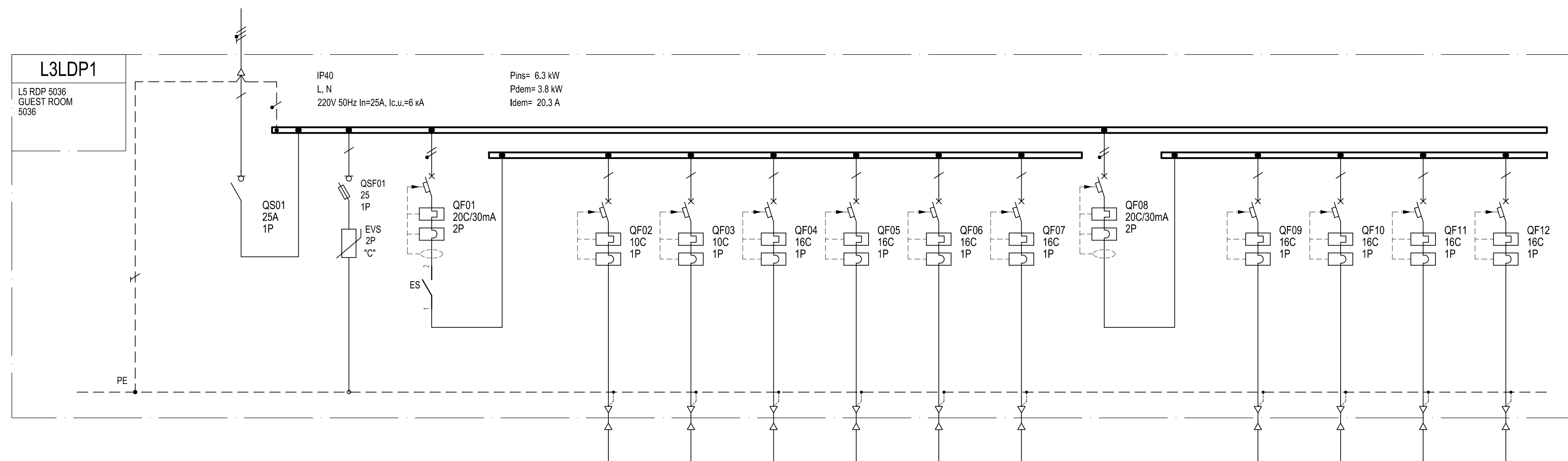
STAIR S02

2 2'



L5 RDP 5036

STAIR S02



01	02	03	04	05	06
L1	L2	P1	P1	P2	FCU
BATHROOM LIGHTING	ROOM LIGHTING	HDR	SHV	BED SOCKETS	FCU
0.3	0.3	1.5	1.5	0.3	0.3
1.6	1.6	8	8	1.6	1.6
3*1.5	3*1.5	3*2.5	3*2.5	3*2.5	3*2.5
15	25	15	15	25	15
N2XH	N2XH	N2XH	N2XH	N2XH	N2XH
LSRDP0306-L1	LSRDP0306-L2	LSRDP0306-P1	LSRDP0306-P1	LSRDP0306-P2	LSRDP0306-FCU
--	--	--	--	--	--

07	08	09	10
P3	MNB	TV	KTLCFM
DECK SOCKETS	MNB	TV	KTLCFM
0.3	0.6	0.6	0.6
1.6	3.2	3.2	3.2
32.5	32.5	32.5	32.5
20	20	15	20
N20H	N20H	N20H	N20H
LSRD0306-P3	LSRD0306-MNB	LSRD0306-TV	LSRD0306-KTLCFM
--	--	--	--

Pos.	Description	Qnt.	Notes
	Panel Pragma type, IP40, wall mounting, inbuilt, include:		Schneider
Q501	Switch load 3P, 230V, 25A	1	Schneider
Q501F	Switch load with fuse 1P, 230V, 25A	1	Schneider
EVS	Surge suppressor, 2p, characteristic "C"	1	Schneider
QF01, QF08	Differential Circuit breaker 230V In=C20A30mA, 2p	2	Schneider
QF04, QF07	Circuit breaker 230V In=C16A, 1p	4	Schneider
QF09, QF12	Circuit breaker 230V In=C16A, 1p	4	Schneider
ES	Energy Saver 230V In=C30A, 1p	1	

Pos.	Description	Qnt.	Notes
	Panel Pragma type, IP40, wall mounting, inbuilt, include:		Schneider
Q501	Switch load 3P, 230V, 25A	1	Schneider
Q501F	Switch load with fuse 1P, 230V, 25A	1	Schneider
EVS	Surge suppressor, 2p, characteristic "C"	1	Schneider
QF01, QF08	Differential Circuit breaker 230V In=C20A30mA, 2p	2	Schneider
QF04, QF07	Circuit breaker 230V In=C16A, 1p	4	Schneider
QF09, QF12	Circuit breaker 230V In=C16A, 1p	4	Schneider
ES	Energy Saver 230V In=C30A, 1p	1	



SYMBOL	DESCRIPTION
	RECESSED DOWNLIGHT
	LED STRIP LIGHTING, 25 W/m
	LED TABLE LUMINAIRE, 10 W
	FLOOR LAMP
	WALL SCONCE LIGHTING
	DESK LAMP
	PENDANT LAMP
	DOWNLIGHT
	READING / DECORATIVE LAMP INTEGRATED WITH SWITCH
	* A LIGHT FOR CLOSED SHELVES
	ENERGY-POCKET
	ONE-POLE SWITCH
	TWO-POLE SWITCH
	THREE-WAY SWITCH
	SOCKET BLOCK TYPE A (1-TEL/DATA, 2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE B (1-TV, 1-DATA, 2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE D (1-MDH, 1-TEL/DATA, 3 POWER 1P+N+PE)
	SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
	SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, IP 20)
	SOCKET BLOCK TYPE G (1 POWER 1P+N+PE, IP 44)

CFM - Coffee Machine	HDR - Hair Dryer
CLN - Cleaners Sockets	MIR - Make-up Mirror
DMP - Demister Pad	CTL - Kettle
FCU - Fancoil Unit	MNB - Minibar

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☐ **E** REVIEW NOT REQUIRED
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CLIENT

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RAWN BY

AME

.S.

DATE 30/12/2015

RAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Suite C room.
Typical Power Distribution

DRAWING NUMBER
RBTH-AE-EL-TD-GEN-0046

REVISION

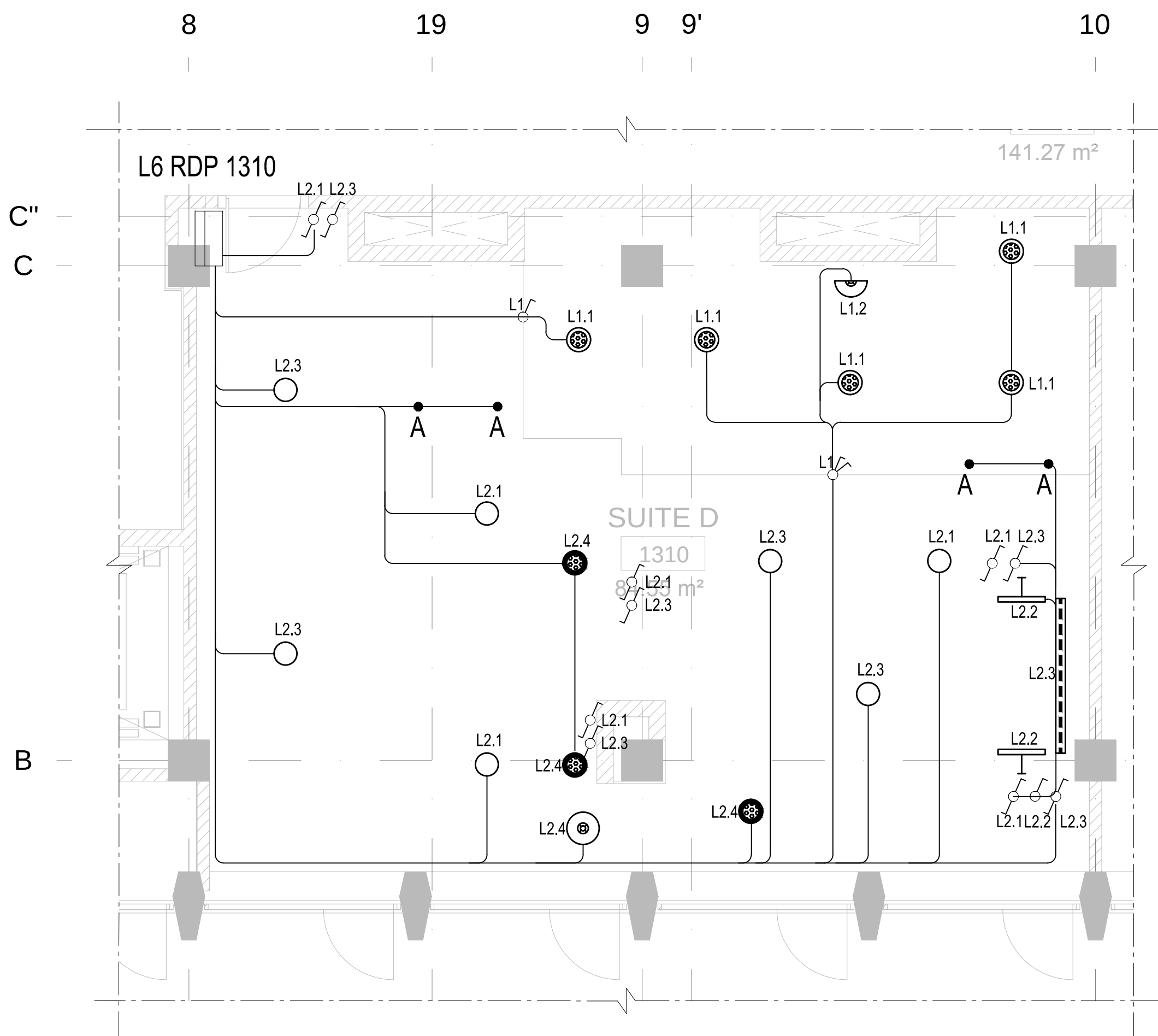
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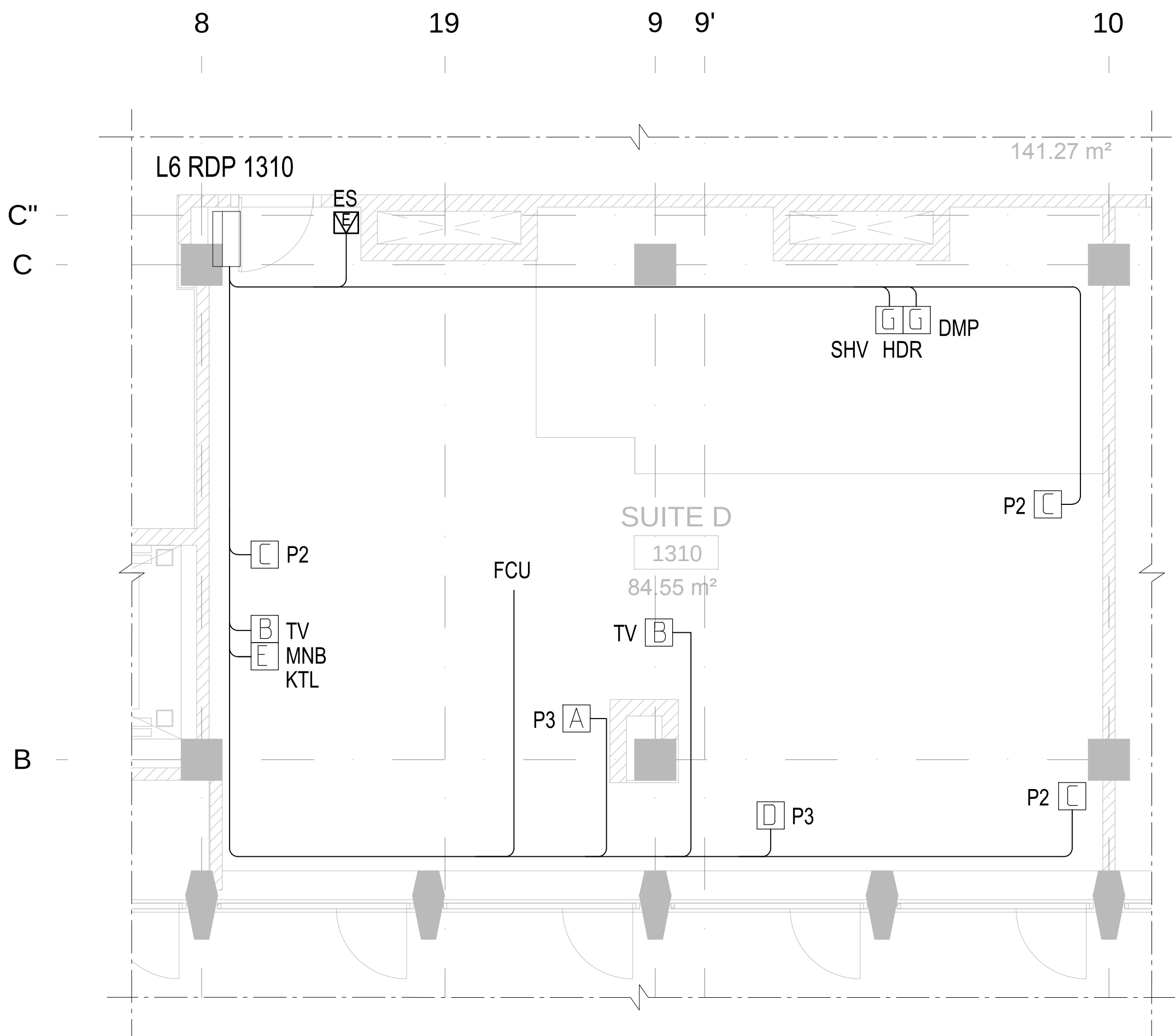
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TIME/STAMP

Lighting layout Level L6



Sockets layout Level L6



List of elements

Pos.	Description	Qty.	Notes
	Panel Pragma type, IP40, wall mounting, inbuilt, include:		Schneider
QS01	Switch load 3P, 230V, 25A	1	Schneider
QS01	Switch load with fuse 1P, 230V, 25A	1	Schneider
EVS	Surge suppressor, 2p, characteristic "C"	1	Schneider
QF01, QF08	Differential Circuit breaker 230V In=C20A30mA, 2p	2	Schneider
QF04...QF07	Circuit breaker 230V In=C16A, 1p	4	Schneider
QF09...QF12	Circuit breaker 230V In=C16A, 1p	4	Schneider
ES	Energy Saver 230V In=C30A, 1p	1	



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBLISI, GEORGIA

LEGENDS:

SYMBOL	DESCRIPTION
●	RECEDED DOWNLIGHT
—	LED STRIP LIGHTING, 25 W/m
●	LED TABLE LUMINAIRE, 10 W
⊙	FLOOR LAMP
⊙	WALL SCONCE LIGHTING
●	DESK LAMP
⊙	PENDANT LAMP
○	DOWNLIGHT
⊥	READING / DECORATIVE LAMP INTEGRATED WITH SWITCH
• A	LIGHT FOR CLOSED SHELVES
⊞	ENERGY-POCKET
⌚	ONE-POLE SWITCH
⌚	TWO-POLE SWITCH
⌚	TWO-WAY SWITCH
A	SOCKET BLOCK TYPE A (1-TEL, 2 POWER 1P+N+PE)
B	SOCKET BLOCK TYPE B (1-TV, 1-DATA, 2 POWER 1P+N+PE)
C	SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P+N+PE)
D	SOCKET BLOCK TYPE D (1-MDH, 1-TEL, 3 POWER 1P+N+PE)
E	SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
F	SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, IP 20)
G	SOCKET BLOCK TYPE G (1 POWER 1P+N+PE, IP 44)

ABBREVIATIONS:

CPM - Coffee Machine	HDR - Hair Dryer
CLN - Cleaners Sockets	MIR - Make-up Mirror
DMP-Demister Pad	KTL - Kettle
FCU - Fancoil Unit	MNB - Minibar
	SHV - Shower

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TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

Silk Road Business Center LLC

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AECOM	
NAME	SCALE
	DATE PAPER SIZE A0

DRAWING STATUS

PHASE II
TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR	AECOM
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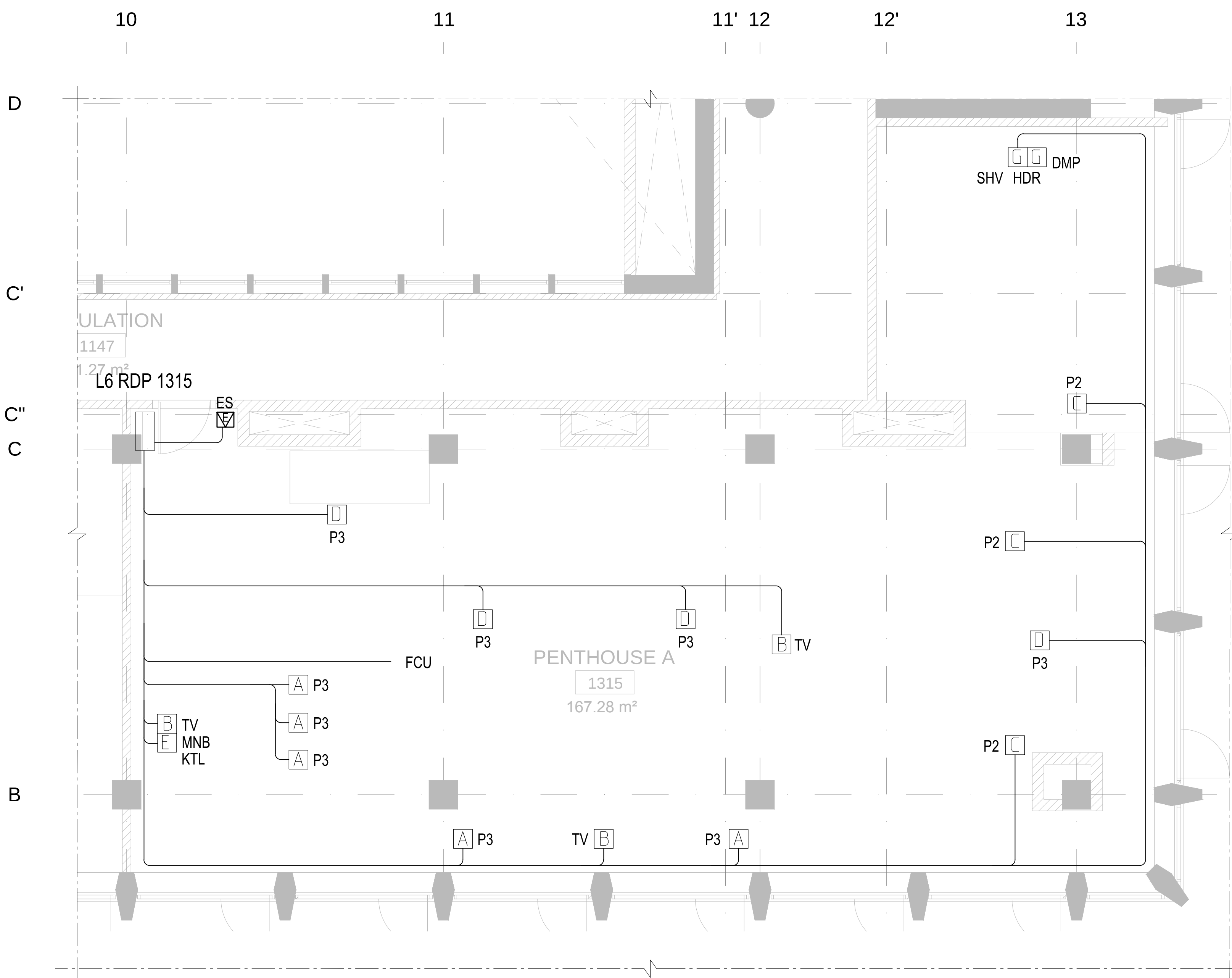
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NAME I.S.	NAME R.F.	NAME A.S.
DATE 30/12/2015	DATE 1/12/2015	DATE 2/12/2015

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Suite D room.
Typical Power Distribution

DRAWING NUMBER	REVISION
RBTH-AE-EL-TD-GEN-0047	TD0

0 0.5 1 2 2.5m



07	08	09	10
P3	MNB	TV	KTLCFM
DECK SOCKETS	MNB	TV	KTLCFM
0.3	0.6	0.6	0.6
1.6	3.2	3.2	3.2
32.5	32.5	32.5	32.5
35	35	30	35
N2XH	N2XH	N2XH	N2XH
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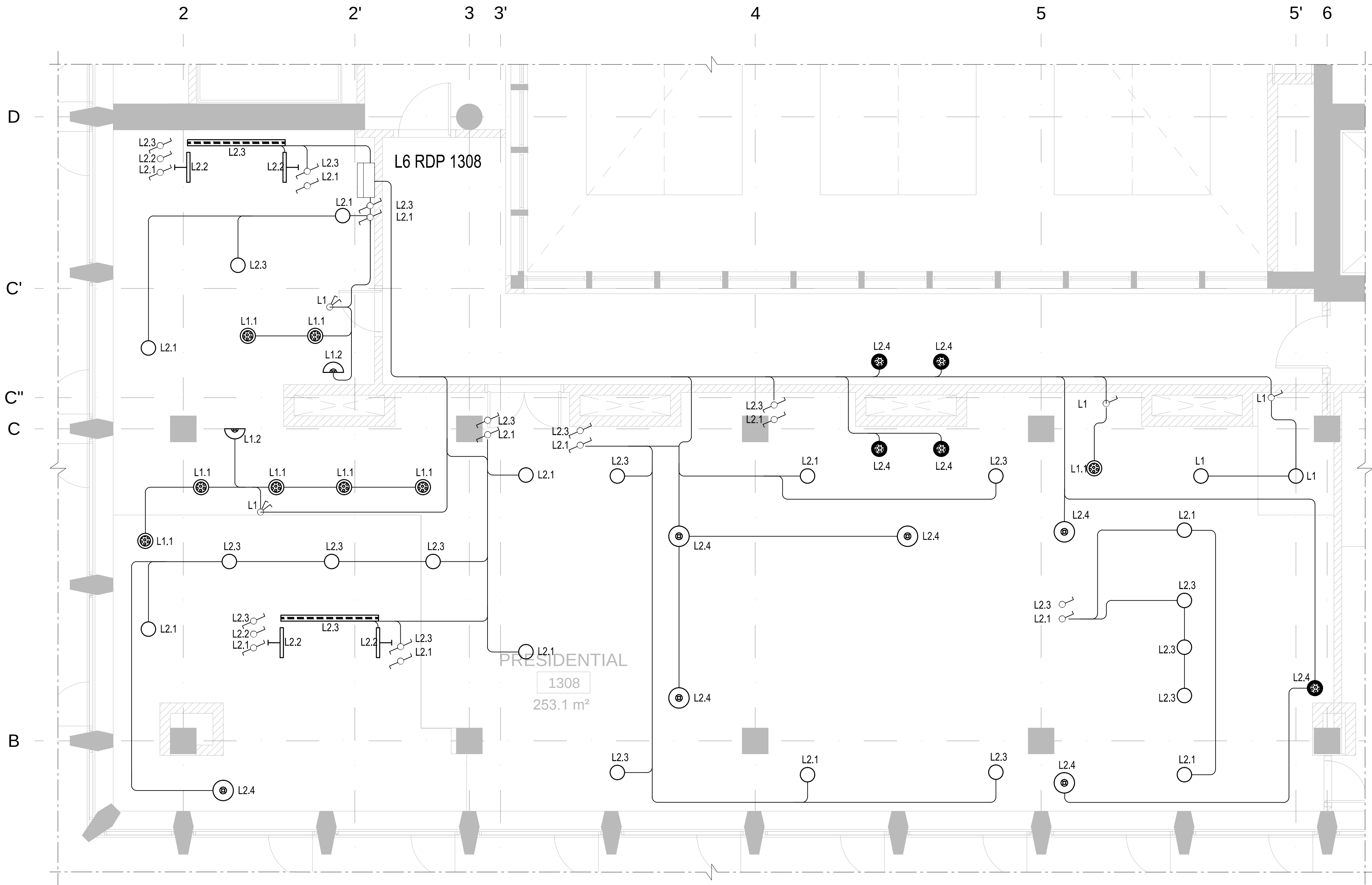
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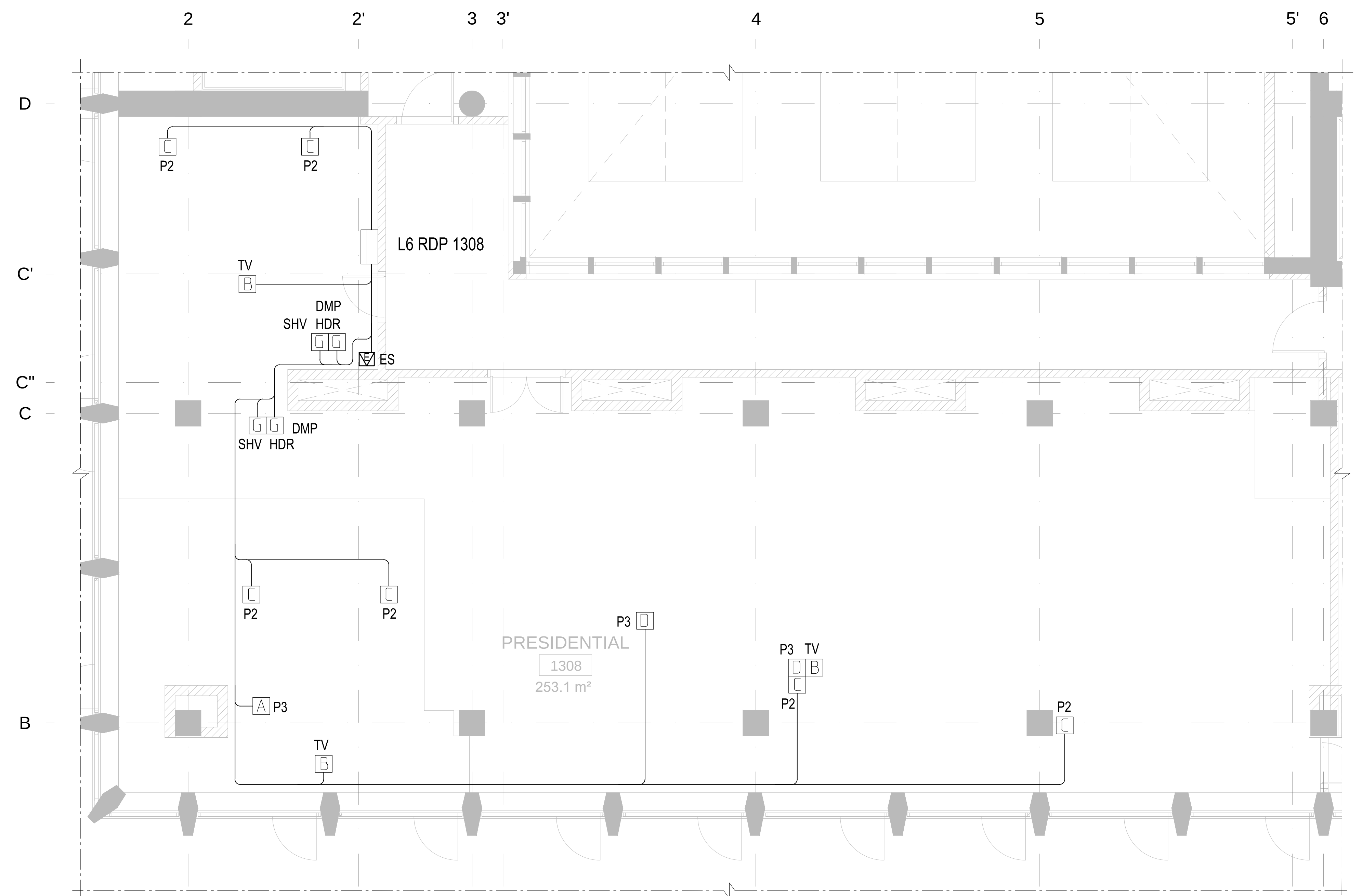
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TIME/STAMP

Lighting layout Level L6



Sockets layout Level L6



List of elements

Pos.	Description	Qty.	Notes
	Panel (Prags type, IP40, wall mounting, inbuilt, include:		Schneider
QSO1	Switch load 3P, 230V, 25A	1	Schneider
QSF01	Switch load with fuse 1P, 230V, 25A	1	Schneider
EVS	Surge suppressor, 2p, characteristic "C"	1	Schneider
QF01, QF08	Differential Circuit breaker 230V In=C20A30mA, 2p	2	Schneider
QF04...QF07	Circuit breaker 230V In=C16A, 1p	4	Schneider
QF09...QF12	Circuit breaker 230V In=C16A, 1p	4	Schneider
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LEGENDS:

SYMBOL	DESCRIPTION
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—	LED STRIP LIGHTING, 25 W/m
⊙	LED TABLE LUMINAIRE, 10 W
⊙	FLOOR LAMP
⊙	WALL SCONCE LIGHTING
●	DESK LAMP
⊙	PENDANT LAMP
○	DOWNLIGHT
⊕	READING / DECORATIVE LAMP INTEGRATED WITH SWITCH
• A	LIGHT FOR CLOSED SHELVES
⊕	ENERGY-POCKET
⊕	ONE-POLE SWITCH
⊕	TWO-POLE SWITCH
⊕	TWO-WAY SWITCH
⊕	SOCKET BLOCK TYPE A (1-TEL, DATA, 2 POWER 1P+N+PE)
⊕	SOCKET BLOCK TYPE B (1-1TV, 1-DATA, 2 POWER 1P+N+PE)
⊕	SOCKET BLOCK TYPE C (1-TEL, 2 POWER 1P+N+PE)
⊕	SOCKET BLOCK TYPE D (1-MDH, 1-TEL, DATA, 3 POWER 1P+N+PE)
⊕	SOCKET BLOCK TYPE E (2 POWER 1P+N+PE)
⊕	SOCKET BLOCK TYPE F (1 POWER 1P+N+PE, IP 20)
⊕	SOCKET BLOCK TYPE G (1 POWER 1P+N+PE, IP 44)

ABBREVIATIONS:

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REVISIONS	No	Date	Description	Drawn	Checked	Approved
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CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)

APPROVED BY LDE

DATE

PAPER SIZE

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DRAWING STATUS

PHASE II

TENDER DOCUMENTS

CONSULTANT / SUB-CONTRACTOR

AECOM

DRAWN BY

CHECKED BY

APPROVED BY

NAME

DATE

DATE

DRAWING TITLE

Radisson Blu Telegraph Hotel

Electrical

Presidential room.

Typical Power Distribution

DRAWING NUMBER

REVISION

RBTH-AE-EL-TD-GEN-0050

TD0

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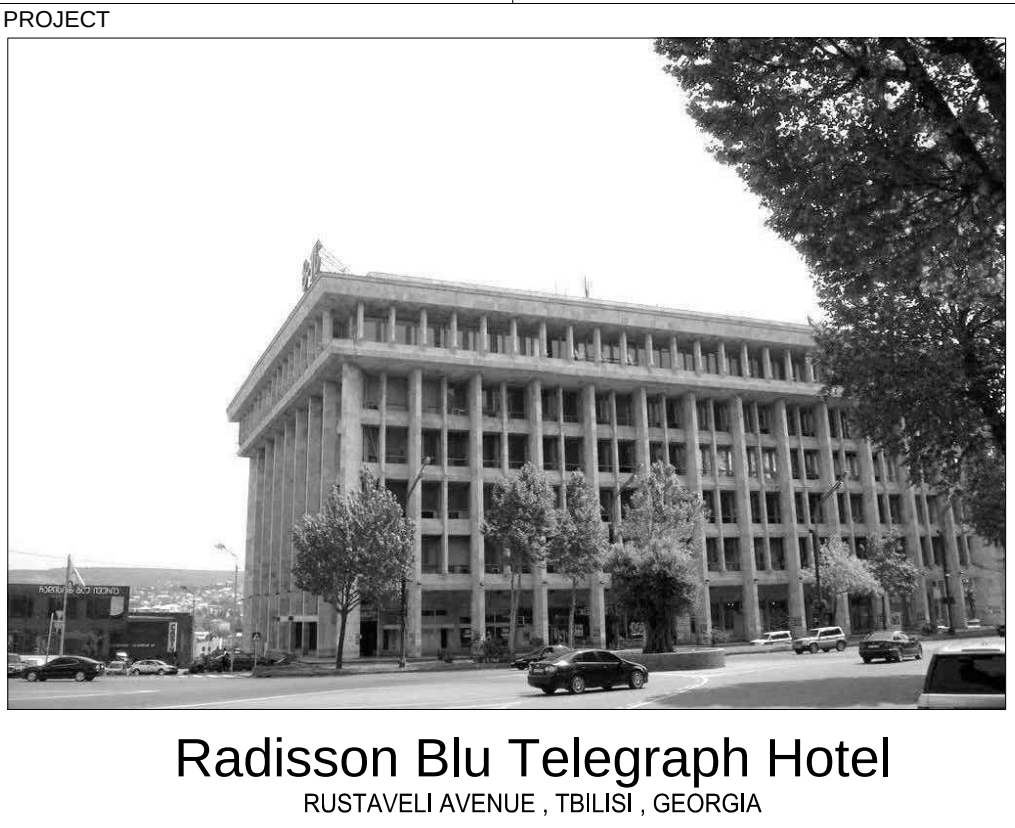
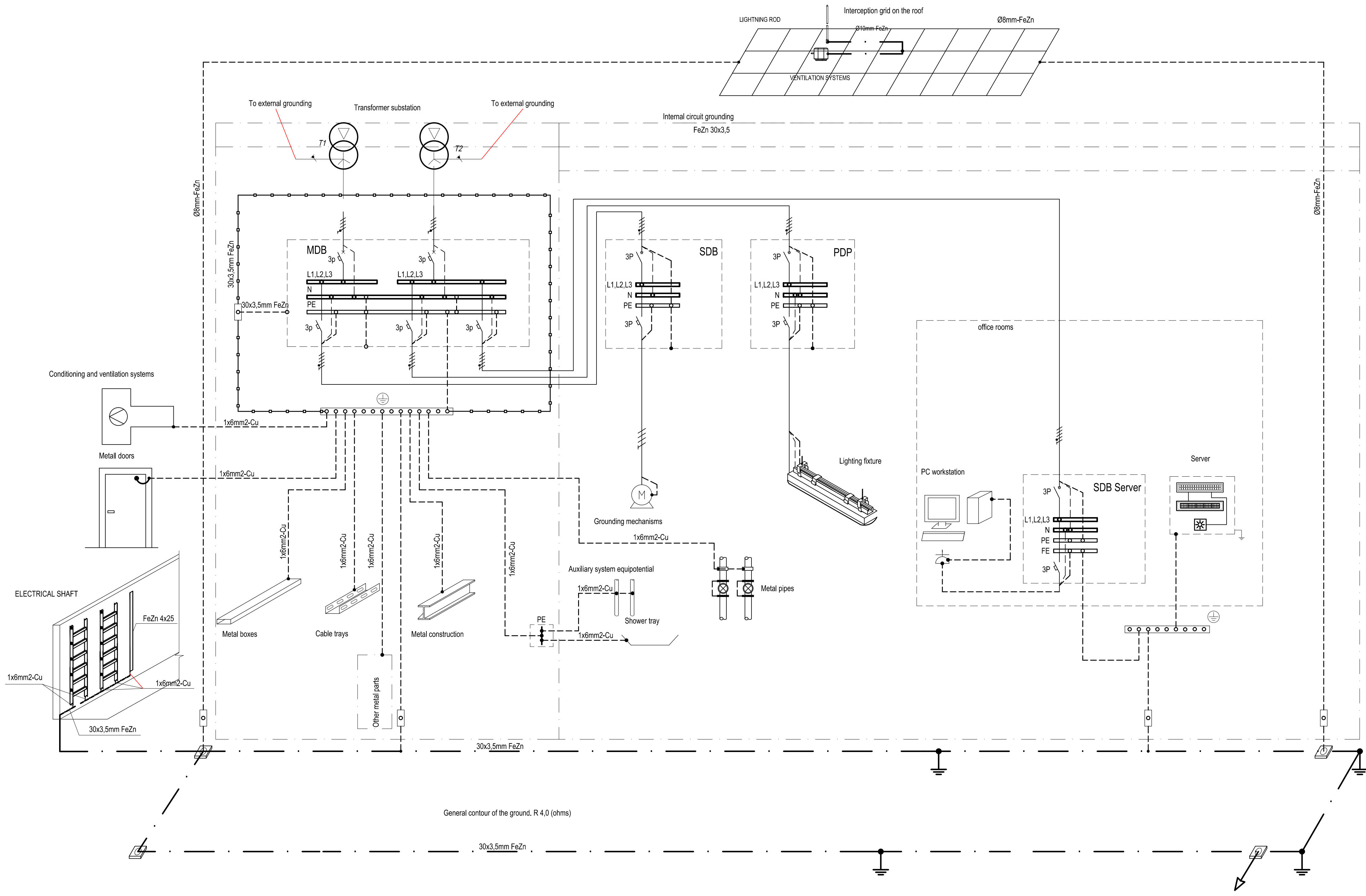
15

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TIME/STAMP

Electrical
Lightning and Grounding schematic diagram



- LEGENDS:
- TESTING MANHOLE
 - GROUNDING LOOP (FeZn 5x40mm)
 - GROUNDING ROD (SOLID COPPER Ø20)
 - FEEDER LINE COMING FROM FLOR BELOW
 - GALVANIZED STEEL CONNECTOR
 - TESTING MANHOLE (OUTSIDE INSTALLATION)
 - SPLIT BOLTED CONNECTION
 - GALVANIZED STEEL BAR 4x40
 - GROUNDING ROD (GALVANIZED STEEL, Ø20mm, h=5m)
 - LIGHTNING ARRESTER / LIGHTNING CONDUCTOR
 - CONNECTION POINT
 - GALVANIZED STEEL WIRE D=8mm
 - EQUAL POTENTIAL GROUNDING BAR
 - CABLE 1x6mm²-Cu
 - 30x3,5mm FeZn
- ABBREVIATIONS:
- MDB - MAIN DISTRIBUTION PANEL
 - SDB, PDP - POWER DISTRIBUTION PANEL

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 - USE CABLE WITH COPPER WIRE IN PVC NON SPREADING FIRE INSULATION.
 - TOP CONNECTION TO THE PANEL SHOULD BE ARRANGED.
 - WIRING LAMPS WITH BATTERY SHOWN IN TYPICAL UNITS.
 - FOR LEGENDS AND DETAILS SEE LAYOUT 'GENERAL NOTES'.
 - SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
 - ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING
 - ALL STEEL PIPES OF ALL PURPOSES AND METALLIC SHIELDS OF ELECTRICAL CABLES SHALL BE CONNECTED TO THE MAIN GROUNDING LOOP.
 - ALL METAL PARTS THAT MAY BE ENERGIZED DURING EMERGENCY MODE MUST BE EARTHED. MUST BE EARTHED.
 - MAIN GROUNDING PLATES ARE INSTALLED IN EACH ELECTRICAL ROOM
 - FOR LEGENDS AND DETAILS SEE LAYOUT 'GENERAL NOTES'.
 - SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
 - ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

DOCUMENT REVIEW STATUS				
☐ A	REVIEWED	Work may proceed		
☐ B	REVIEWED WITH COMMENTS	Review and re-submit. Work may proceed subject to incorporation of comments		
☐ C	OBJECTION	Review and re-submit. Work may not proceed		
☐ D	REJECTED			
☐ E	REVIEW NOT REQUIRED	Work may proceed		

REVISIONS				
No.	Date	Description	Drawn	Checked
TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)

APPROVED BY LDE

NAME

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DATE

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DATE

DATE

DATE

30/12/2015

1/12/2015

2/12/2015

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Lightning and Grounding schematic diagram

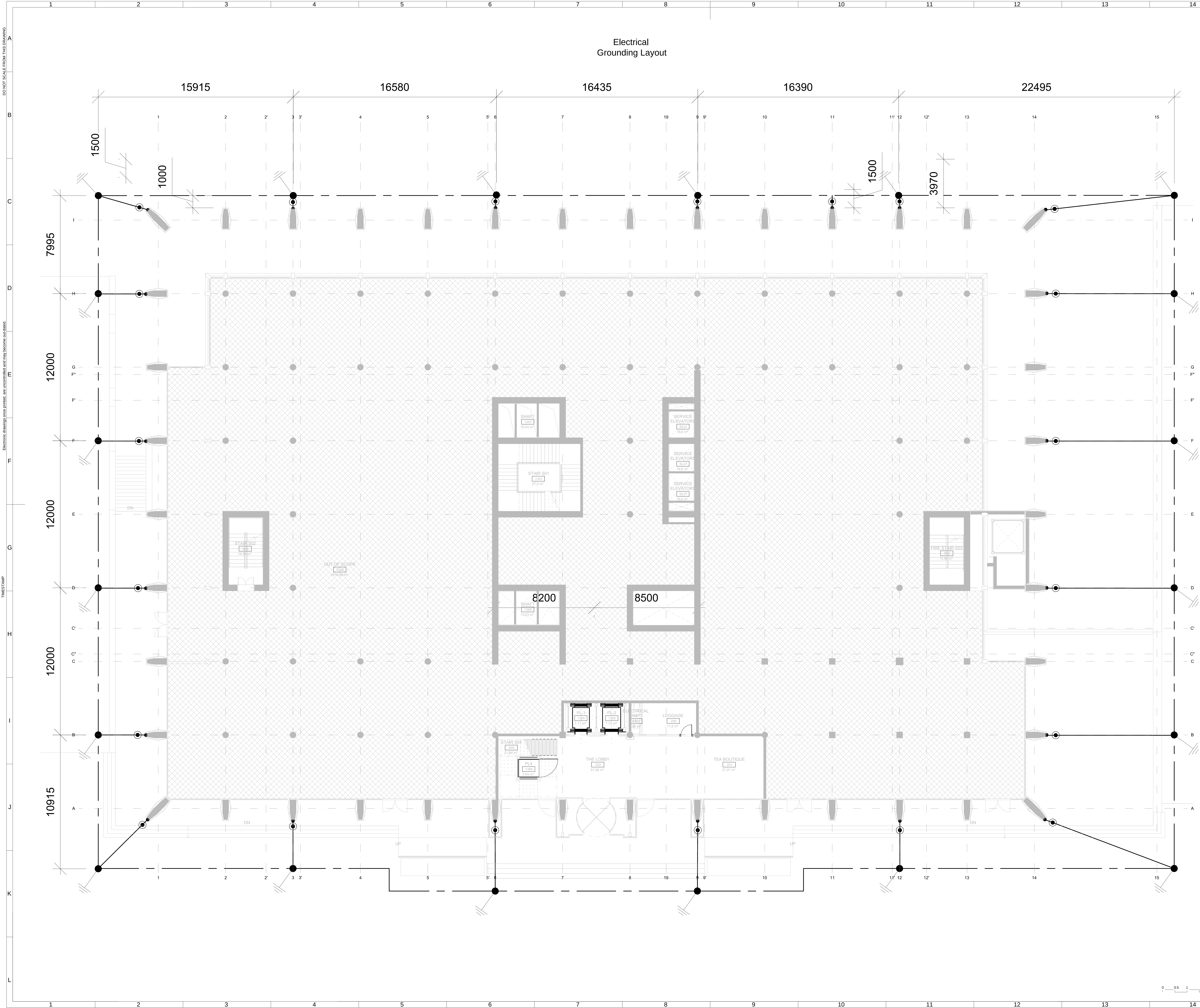
DRAWING NUMBER

RBTH-AE-EL-TD-GEN-0051

REVISION

TD0

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Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE / TBILISI, GEORGIA

LEGENDS:

- TESTING MANHOLE
- GROUNDING LOOP (FeZn 5x40mm)
- GROUNDING ROD (SOLID COPPER Ø20)
- FEEDER LINE COMING FROM FLOOR BELOW
- GALVANIZED STEEL CONNECTOR
- TESTING MANHOLE (OUTSIDE INSTALLATION)
- SPLIT BOLTED CONNECTION
- GALVANIZED STEEL BAR 4x40
- GROUNDING ROD (GALVANIZED STEEL, Ø20mm, l=5m)
- LIGHTNING ARRESTER / LIGHTNING CONDUCTOR
- CONNECTION POINT
- GALVANIZED STEEL WIRE D=8mm
- EQUAL POTENTIAL GROUNDING BAR
- CABLE 1x6mm²-Cu
- 30x3,5mm FeZn

ABBREVIATIONS:

MDB - MAIN DISTRIBUTION PANEL
SDB, PDP - POWER DISTRIBUTION PANEL

NOTES:

- ALL STEEL PIPES OF ALL PURPOSES AND METALLIC SHIELDS OF ELECTRICAL CABLES SHALL BE CONNECTED TO THE BUILDING GROUNDING LOOP AT THE POINT OF ENTRANCE TO THE BUILDING.
- ALL GROUNDING SYSTEM CONNECTIONS SHALL BE MADE BY EXOTHERMIC WELDING, CLIPPING, BOLTING OR ANOTHER APPROVED METHOD.
- FOR SECTIONAL CONNECTIONS IN GROUND IT IS NECESSARY TO USE PLASTIC CORROSION PROTECTION STRIP.
- ALL GROUNDING SYSTEM CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR INSPECTION AND MAINTENANCE.
- METAL STRUCTURE AND PARTS OF FIXED EQUIPMENT THAT ARE LIKELY TO BECOME ENERGIZED DURING ABNORMAL CONDITION SHALL BE BONDED AND GROUNDED.
- CONNECTIONS BETWEEN EQUIPMENT AND GROUNDING CONDUCTORS SHALL BE MADE BY LUGS ATTACHED TO EQUIPMENT BY MEANS OF BOLTS. ELEMENTS OF EQUIPMENT WHICH ARE NOT DESIGNED FOR GROUNDING COULD NOT BE USED.
- ALL GROUNDING CABLES IN LOCATIONS WHERE SUBJECT TO MECHANICAL DAMAGE, SHALL BE PROTECTED BY RIGID METALLIC CONDUIT.
- WHERE COPPER CONNECTORS ARE BOLTED TO STEEL SURFACES OF EQUIPMENT FRAMES OR ENCLOSURES, THE CONTACT SURFACES SHALL BE PERMANENTLY TINNED BEFORE ASSEMBLY AND SECURED WITH WASHERS AND NUTS.
- IN COPPER-TO-ALUMINUM AND COPPER-TO-GALVANIZED CONNECTIONS SHALL BE USED MATERIALS TO PREVENT GALVANIC CORROSION.
- CONSIDER THE LIST AND THE LIGHTING PROTECTION LAYOUT.
- WIRE LAYDOWN HAS TO BE PERFORMED UNDER THE COLUMN VENEERING.
- FOR LEGENDS AND DETAILS SEE LAYOUT TYPICAL DETAILS.
- SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
- ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

DOCUMENT REVIEW STATUS

REVISIONS	No	Date	Description	Drawn	Checked	Approved
TDU	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.	

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)

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I.S. **R.F.** **A.S.**

DATE **DATE** **DATE**

30/12/2015 **1/12/2015** **2/12/2015**

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Grounding Layout

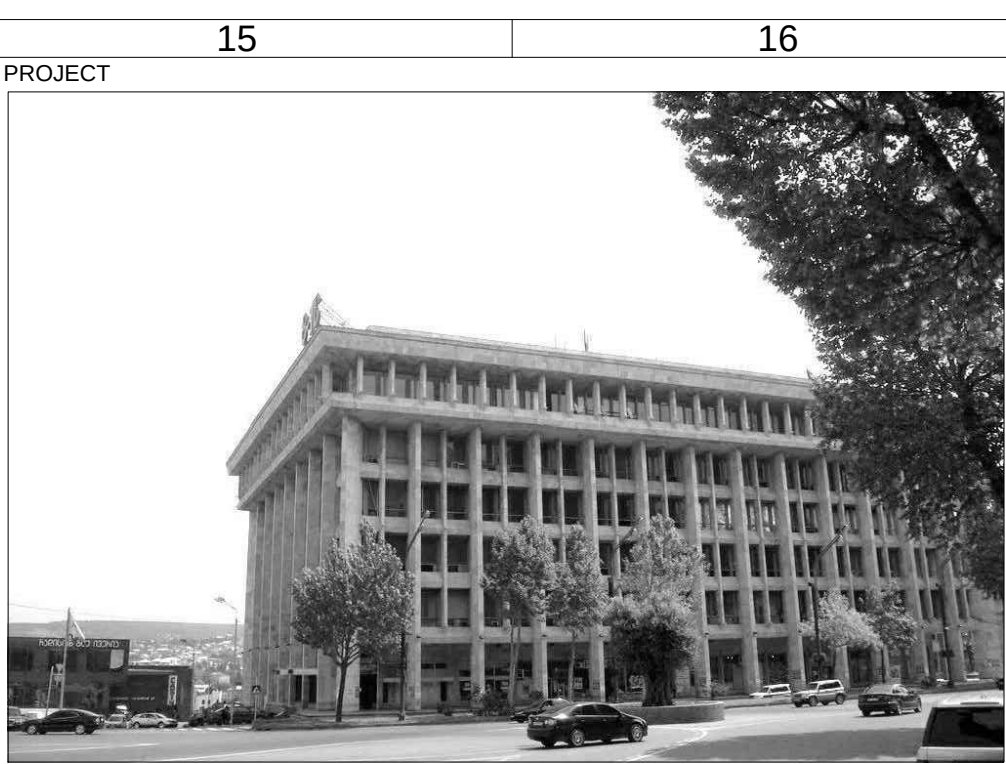
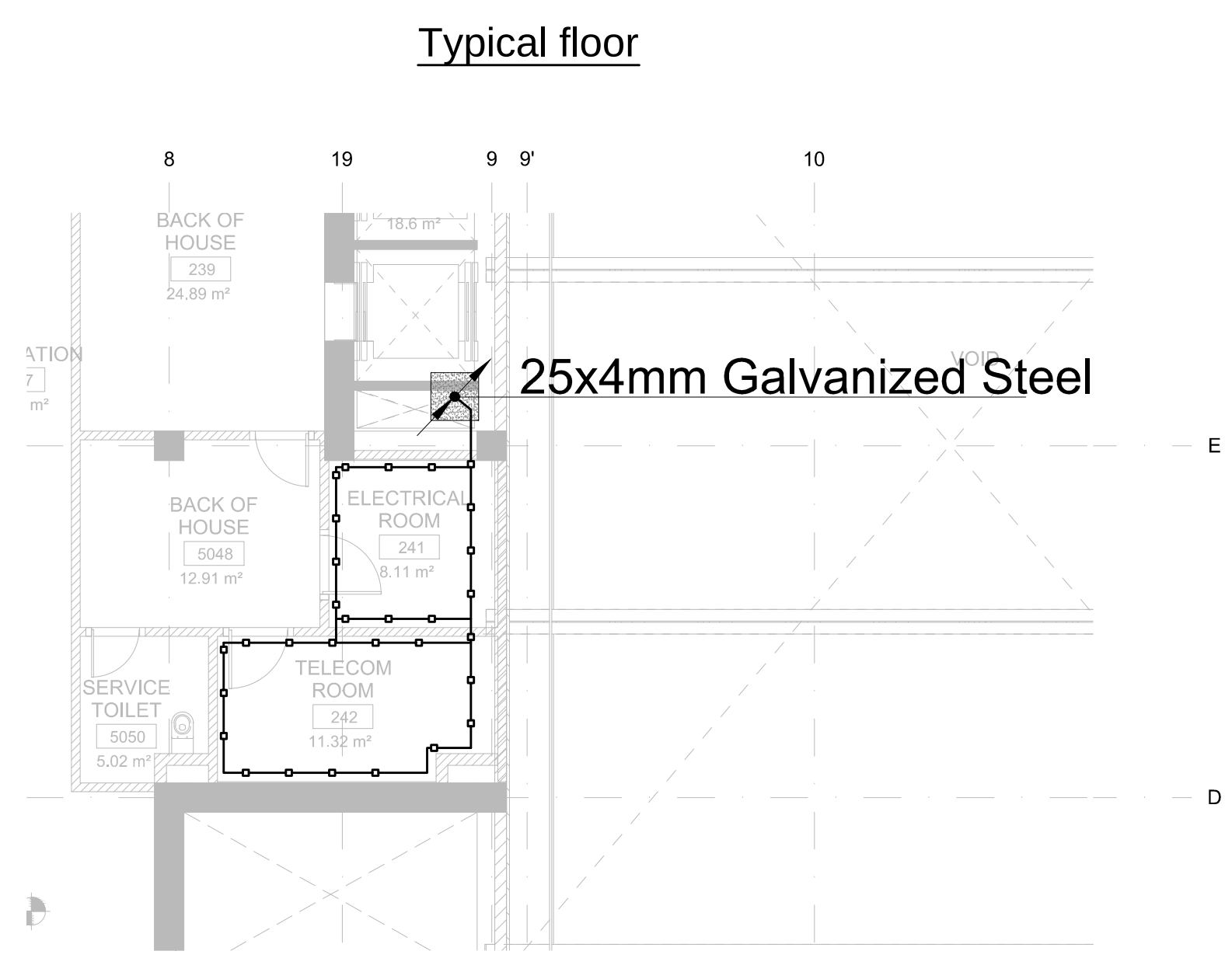
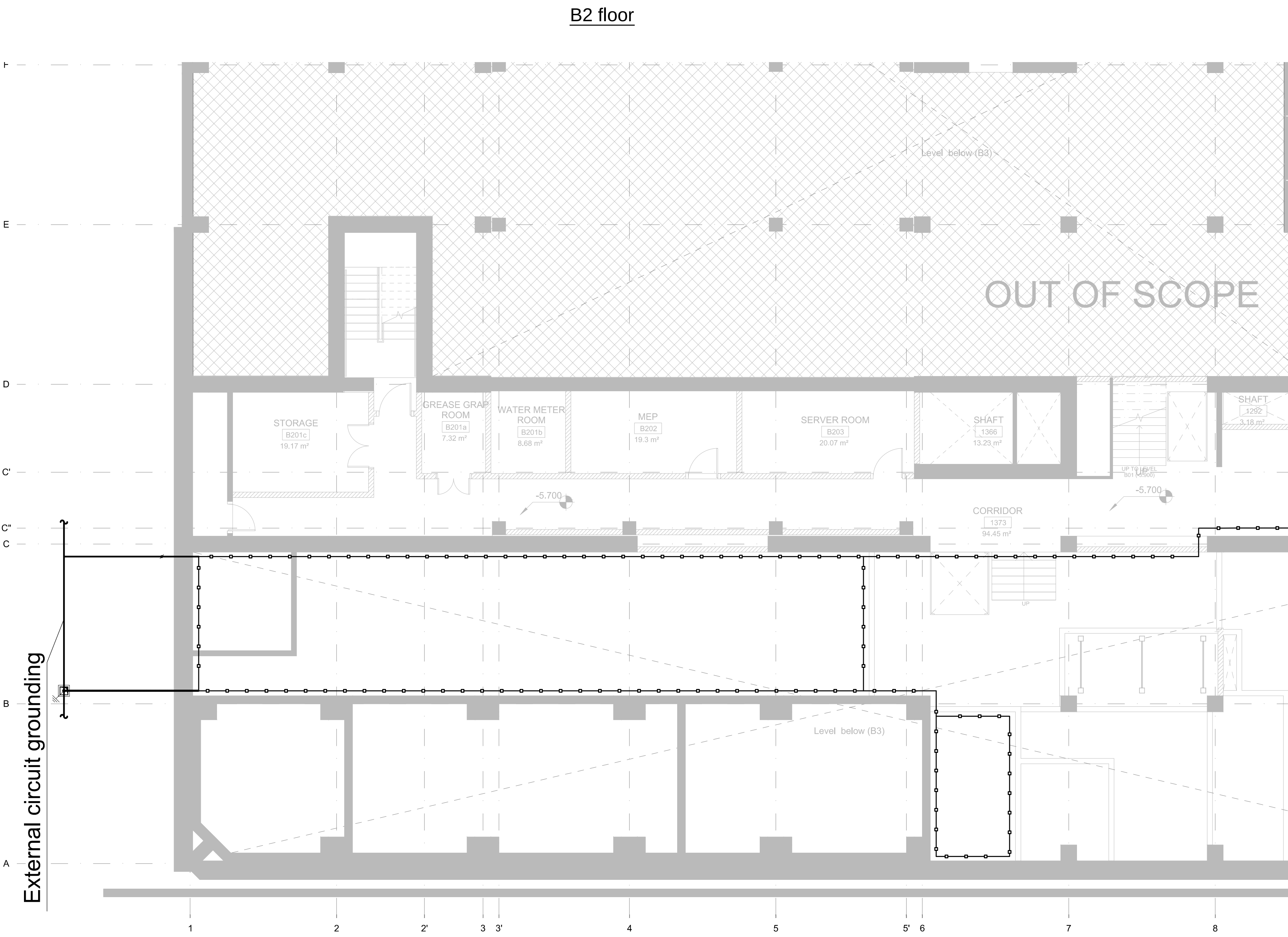
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Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, Tbilisi, GEORGIA

LEGENDS:

- TESTING MANHOLE
- GROUNDING LOOP (FeZn 5x40mm)
- GROUNDING ROD (SOLID COPPER Ø20)
- FEEDER LINE COMING FROM FLOOR BELOW
- GALVANIZED STEEL CONNECTOR
- TESTING MANHOLE (OUTSIDE INSTALLATION)
- SPLIT BOLTED CONNECTION
- GALVANIZED STEEL BAR 4x40
- GROUNDING ROD (GALVANIZED STEEL, Ø20mm, L=5m)
- LIGHTNING ARRESTER / LIGHTNING CONDUCTOR
- CONNECTION POINT
- GALVANIZED STEEL WIRE D=8mm
- EQUAL POTENTIAL GROUNDING BAR
- CABLE 1x6mm²-Cu
- 30x3,5mm FeZn

ABBREVIATIONS:

MDB - MAIN DISTRIBUTION PANEL
SDB, PDP - POWER DISTRIBUTION PANEL

NOTES:

- ALL STEEL PIPES OF ALL PURPOSES AND METALLIC SHIELDS OF ELECTRICAL CABLES SHALL BE CONNECTED TO THE BUILDING GROUNDING LOOP AT THE POINT OF ENTRANCE TO THE BUILDING.
- ALL GROUNDING SYSTEM CONNECTIONS SHALL BE MADE BY EXOTHERMIC WELDING, CLIPPING, BOLTING OR ANOTHER APPROVED METHOD.
- FOR SECTIONAL CONNECTIONS IN GROUND IT IS NECESSARY TO USE PLASTIC CORROSION PROTECTION STRIP.
- ALL GROUNDING SYSTEM CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR INSPECTION AND MAINTENANCE.
- METAL STRUCTURE AND PARTS OF FIXED EQUIPMENT THAT ARE LIKELY TO BECOME ENERGIZED DURING ABNORMAL CONDITION SHALL BE BONDED AND GROUNDED.
- CONNECTIONS BETWEEN EQUIPMENT AND GROUNDING CONDUCTORS SHALL BE MADE BY LUGS ATTACHED TO EQUIPMENT BY MEANS OF BOLTS. ELEMENTS OF EQUIPMENT WHICH ARE NOT DESIGNED FOR GROUNDING COULD NOT BE USED.
- ALL GROUNDING CABLES IN LOCATIONS WHERE SUBJECT TO MECHANICAL DAMAGE, SHALL BE PROTECTED BY RIGID METALLIC CONDUIT.
- WHERE COPPER CONNECTORS ARE BOLTED TO STEEL SURFACES OF EQUIPMENT FRAMES OR ENCLOSURES, THE CONTACT SURFACES SHALL BE PERMANENTLY TINNED BEFORE ASSEMBLY AND SECURED WITH WASHERS AND NUTS.
- IN COPPER-TO-ALUMINIUM AND COPPER-TO-GALVANIZED CONNECTIONS SHALL BE USED MATERIALS TO PREVENT GALVANIC CORROSION.
- CONSIDER THE LIST AND THE LIGHTING PROTECTION LAYOUT.
- INTERNAL CIRCUIT GROUNDING IS TO BE INSTALLED ON THE +1.100 LEVEL POINT.
- FOR LEGENDS AND DETAILS SEE LAYOUT 'GENERAL NOTES'.
- SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
- ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

DOCUMENT REVIEW STATUS

- ☐ A REVIEWED
Work may proceed
- ☐ B REVIEWED WITH COMMENTS
Revised and re-submit. Work may proceed subject to incorporation of comments
- ☐ C REJECTION
Revised and re-submit. Work may not proceed
- ☐ D REJECTED
- ☐ E REVIEW NOT REQUIRED
Work may proceed

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CLIENT

Silk Road Business Center LLC

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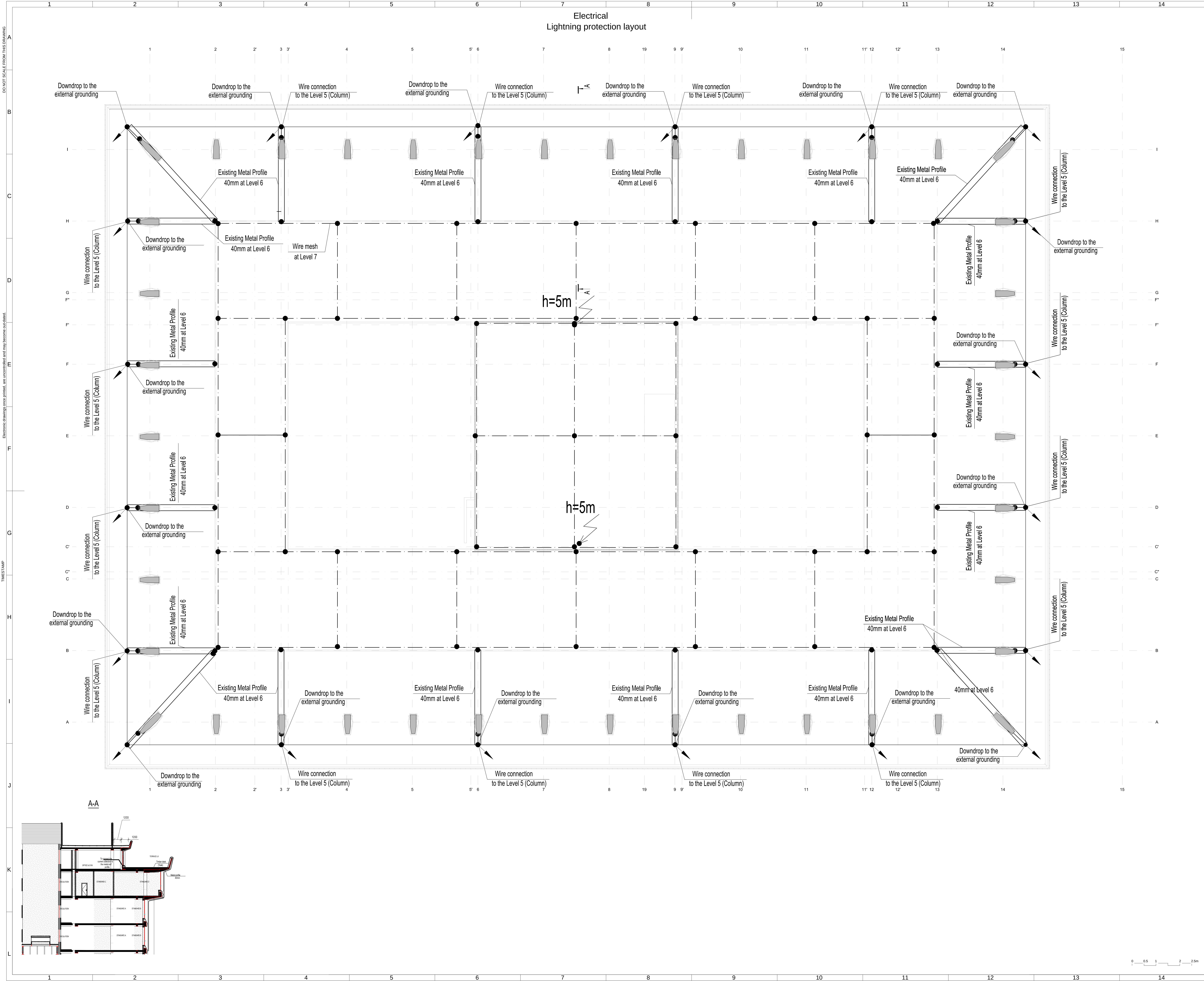
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NAME	NAME	NAME
I.S.	R.F.	A.S.
DATE: 30/12/2015	DATE: 1/12/2015	DATE: 2/12/2015

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Grounding in technical rooms

DRAWING NUMBER	REVISION
RBTH-AE-EL-TD-GEN-0053	TD0

0 0.5 1 2 2.5m



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBILISI, GEORGIA

LEGENDS:

- TESTING MANHOLE
- GROUNDING LOOP (FeZn 5x40mm)
- GROUNDING ROD (SOLID COPPER Ø20)
- FEEDER LINE COMING FROM FLOOR BELOW
- GALVANIZED STEEL CONNECTOR
- TESTING MANHOLE (OUTSIDE INSTALLATION)
- SPLIT BOLTED CONNECTION
- GALVANIZED STEEL BAR 4x4
- GROUNDING ROD (GALVANIZED STEEL Ø20mm, h=5m)
- LIGHTNING ARRESTER / LIGHTNING CONDUCTOR
- CONNECTION POINT
- GALVANIZED STEEL WIRE D=8mm
- EQUAL POTENTIAL GROUNDING BAR
- CABLE 1x6mm²-Cu
- 30x3,5mm FeZn

NOTES:

- ALL STEEL PIPES OF ALL PURPOSES AND METALLIC SHIELDS OF ELECTRICAL CABLES SHALL BE CONNECTED TO THE BUILDING GROUNDING LOOP AT THE POINT OF ENTRANCE TO THE BUILDING.
- ALL GROUNDING SYSTEM CONNECTIONS SHALL BE MADE BY EXOTHERMIC WELDING, CLIPPING, BOLTING OR ANOTHER APPROVED METHOD.
- FOR SECTIONAL CONNECTIONS IN GROUND IT IS NECESSARY TO USE PLASTIC CORROSION PROTECTION STRIP.
- ALL GROUNDING SYSTEM CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR INSPECTION AND MAINTENANCE.
- METAL STRUCTURE AND PARTS OF FIXED EQUIPMENT THAT ARE LIKELY TO BECOME ENERGIZED DURING ABNORMAL CONDITION SHALL BE BONDED AND GROUNDED.
- CONNECTIONS BETWEEN EQUIPMENT AND GROUNDING CONDUCTORS SHALL BE MADE BY LUGS ATTACHED TO EQUIPMENT BY MEANS OF BOLTS. ELEMENTS OF EQUIPMENT WHICH ARE NOT DESIGNED FOR GROUNDING COULD NOT BE USED.
- ALL GROUNDING CABLES IN LOCATIONS WHERE SUBJECT TO MECHANICAL DAMAGE, SHALL BE PROTECTED BY RIGID METALLIC CONDUIT.
- CORROSION.
- WHERE COPPER CONNECTORS ARE BOLTED TO STEEL SURFACES OF EQUIPMENT FRAMES OR ENCLOSURES, THE CONTACT SURFACES SHALL BE PERMANENTLY TINNED BEFORE ASSEMBLY AND SECURED WITH WASHERS AND NUTS.
- IN COPPER-TO-ALUMINIUM AND COPPER-TO-GALVANIZED CONNECTIONS SHALL BE USED MATERIALS TO PREVENT GALVANIC CORROSION.
- CONSIDER THE LIST AND THE GROUNDING.
- THIS SHEET IS TO BE VIEWED ALONG WITH LIGHTNING PROTECTION LAYOUT.
- FOR LEGENDS AND DETAILS SEE LAYOUT GENERAL NOTES.
- SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
- ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

DOCUMENT REVIEW STATUS

☐ A	REVIEWED
☐ B	REVIEWED WITH COMMENTS
☐ C	REJECTED
☐ D	REJECTED
☐ E	REVIEW NOT REQUIRED

REVISIONS

No	Date	Description	Drawn	Checked	Approved
TD0	4/12/2015	TENDER DOCUMENTS SUBMISSION	I.S.	R.F.	A.S.

CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)

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I.S. **R.F.** **A.S.**

DATE **DATE** **DATE**

30/12/2015 **1/12/2015** **2/12/2015**

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Lightning protection layout

DRAWING NUMBER **REVISION**

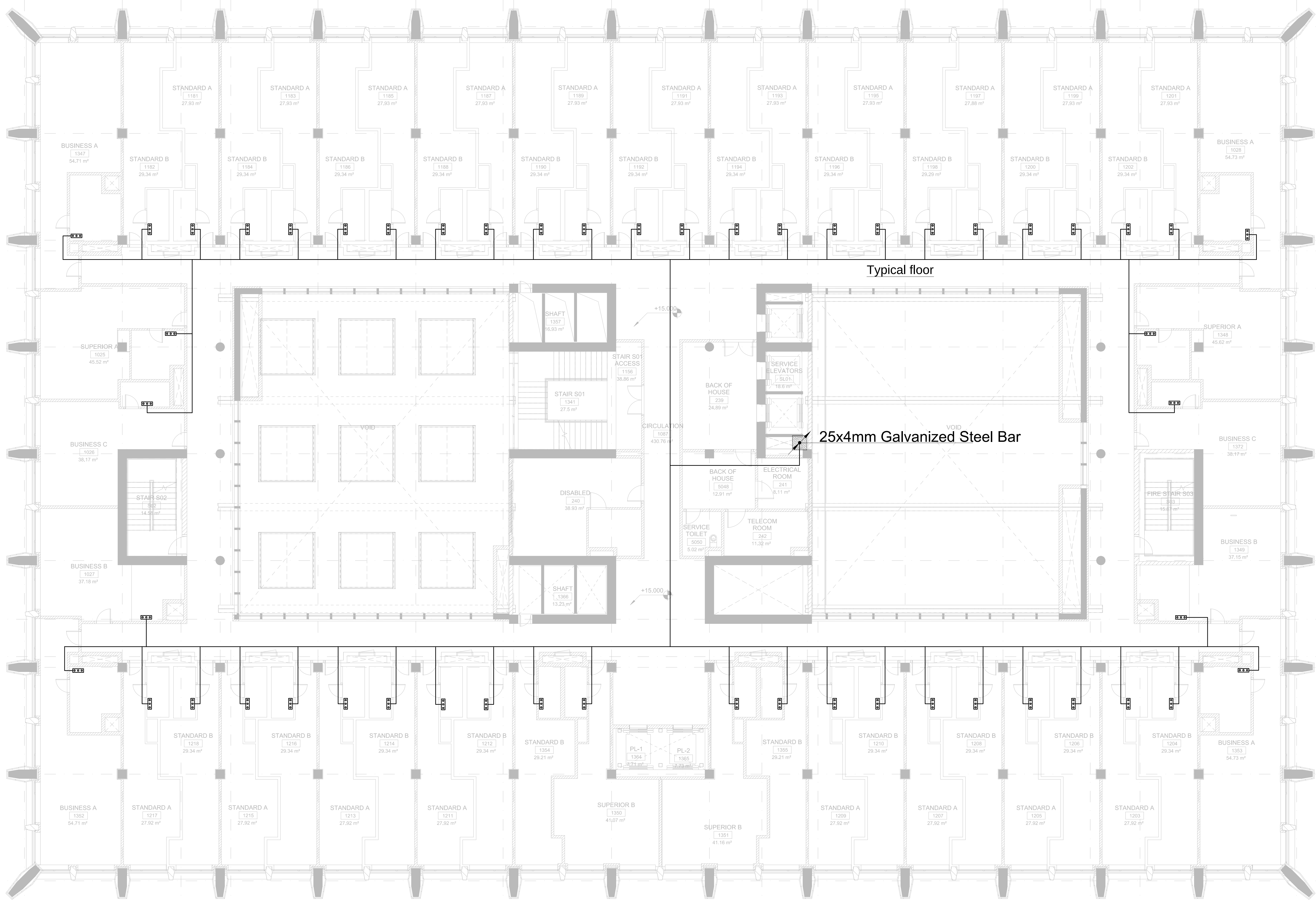
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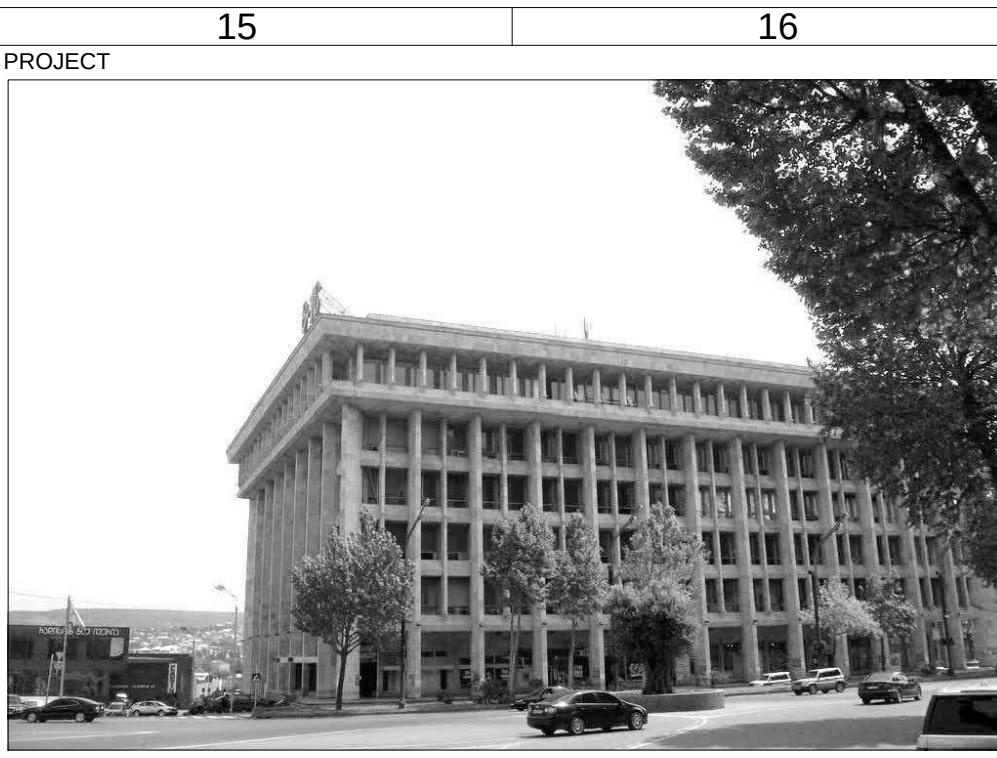
TIME/STAMP

Electrical
Potential equalization



Typical floor

25x4mm Galvanized Steel Bar



Radisson Blu Telegraph Hotel
RUSTAVELI AVENUE, TBLISI, GEORGIA

LEGENDS:

- TESTING MANHOLE
- GROUNDING LOOP (FeZn 5x40mm)
- GROUNDING ROD (SOLID COPPER Ø20)
- FEEDER LINE COMING FROM FLOR BELOW
- GALVANIZED STEEL CONNECTOR
- TESTING MANHOLE (OUTSIDE INSTALLATION)
- SPLIT BOLTED CONNECTION
- GALVANIZED STEEL BAR 4x40
- GROUNDING ROD (GALVANIZED STEEL Ø20mm, h=5m)
- MD6 - MAIN DISTRIBUTION PANEL
- SDB, PDP - POWER DISTRIBUTION PANEL
- LIGHTNING ARRESTER / LIGHTNING CONDUCTOR
- CONNECTION POINT
- GALVANIZED STEEL WIRE D=8mm
- EQUAL POTENTIAL GROUNDING BAR
- CABLE 1x6mm²-Cu
- 30x3,5mm FeZn

NOTES:

- CONNECTIONS BETWEEN EQUIPMENT AND POTENTIAL EQUALIZATION SYSTEM SHALL BE MADE BY LUGS ATTACHED TO EQUIPMENT BY MEANS OF BOLTS. ELEMENTS OF EQUIPMENT WHICH ARE NOT DESIGNED FOR GROUNDING COULD NOT BE USED.
- ALL GROUNDING SYSTEM CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR INSPECTION AND MAINTENANCE.
- ALL GROUNDING CABLES IN LOCATIONS WHERE SUBJECT TO MECHANICAL DAMAGE, SHALL BE PROTECTED BY RIGID METALLIC CONDUIT, CORROSION.
- WHERE COPPER CONNECTORS ARE BOLTED TO STEEL SURFACES OF EQUIPMENT FRAMES OR ENCLOSURES, THE CONTACT SURFACES SHALL BE PERMANENTLY TINNED BEFORE ASSEMBLY AND SECURED WITH WASHERS AND NUTS.
- IN COPPER-TO-ALUMINIUM AND COPPER-TO-GALVANIZED CONNECTIONS SHALL BE USED MATERIALS TO PREVENT GALVANIC CORROSION.
- THE GROUNDING WIRE IS TO BE LAID IN A TRAY. THE LATTER IS SPECIFIED IN POWER LAYOUT SHEETS.
- FOR LEGENDS AND DETAILS SEE LAYOUT GENERAL NOTES.
- SHELL AND CORE ACCORDING TO DRAWINGS PROVIDED BY CLIENT AND ON-SITE MEASUREMENTS.
- ALL MEASUREMENTS TO BE CHECKED ON SITE PRIOR TO PROCEEDING

DOCUMENT REVIEW STATUS

- ☐ A REVIEWED
Work may proceed
- ☐ B REVIEWED WITH COMMENTS
Revised and re-submitted. Work may proceed subject to incorporation of comments
- ☐ C REJECTION
Revised and re-submitted. Work may not proceed
- ☐ D REJECTED
- ☐ E REVIEW NOT REQUIRED
Work may proceed

REVISIONS

No	Date	Description	Drawn	Checked	Approved
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CLIENT

Silk Road Business Center LLC

LEAD DESIGN ENTITY (LDE)

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R.F.

DATE

1/12/2015

APPROVED BY

NAME

A.S.

DATE

2/12/2015

DRAWING TITLE

Radisson Blu Telegraph Hotel
Electrical
Potential equalization

DRAWING NUMBER

RBTH-AE-EL-TD-GEN-0055

REVISION

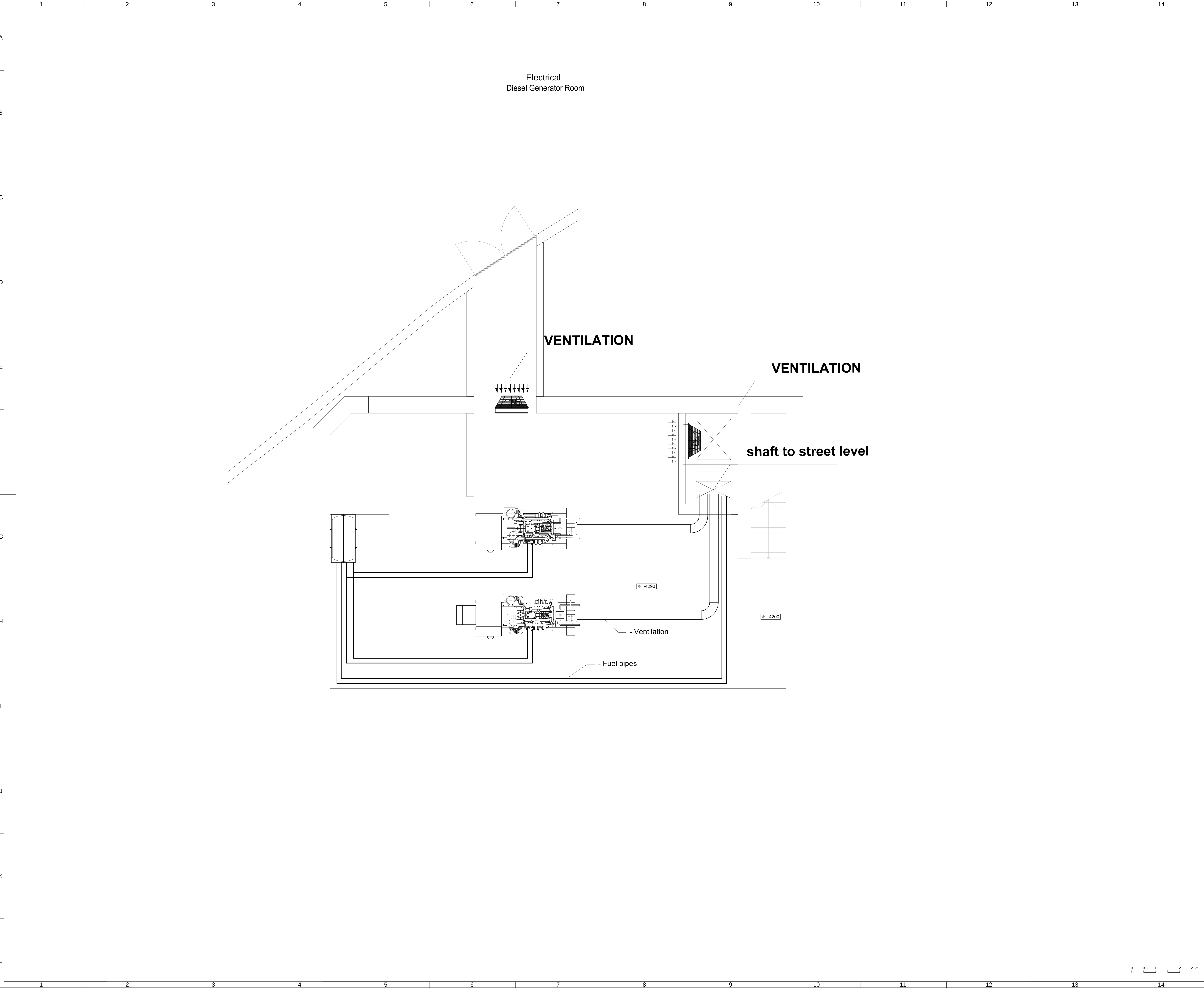
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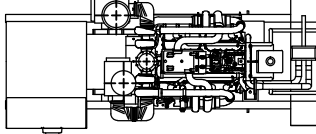
PROJECT



Radisson Blu Telegraph Hotel

RUSTAVELI AVENUE , TBILISI , GEORGIA

LEGENDS:

- Diesel Generator

- Diesel Tank

- Diesel cascade panel

NOTES:

- Shell and core according to drawings provided by client and on-site measurements.

- All measurements to be checked on site prior to proceeding

DOCUMENT REVIEW STATUS

☐ A REVIEWED
Work may proceed

☐ B REVIEWED WITH COMMENTS
Revised and re-submit. Work may proceed subject to incorporation of comments

☐ C REJECTION
Revisit and re-submit. Work may not proceed

☐ D REJECTED

☐ E REVIEW NOT REQUIRED
Work may proceed

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CLIENT

Silk Road Business Center LLC

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I.S.

R.F.

A.S.

DATE: 30/12/2015

DATE: 1/12/2015

DATE: 2/12/2015

DRAWING TITLE

Radisson Blu Telegraph Hotel

Electrical

Diesel Generator Room

DRAWING NUMBER

REVISION

RBTH-AE-EL-TD-GEN-0056

TD0

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