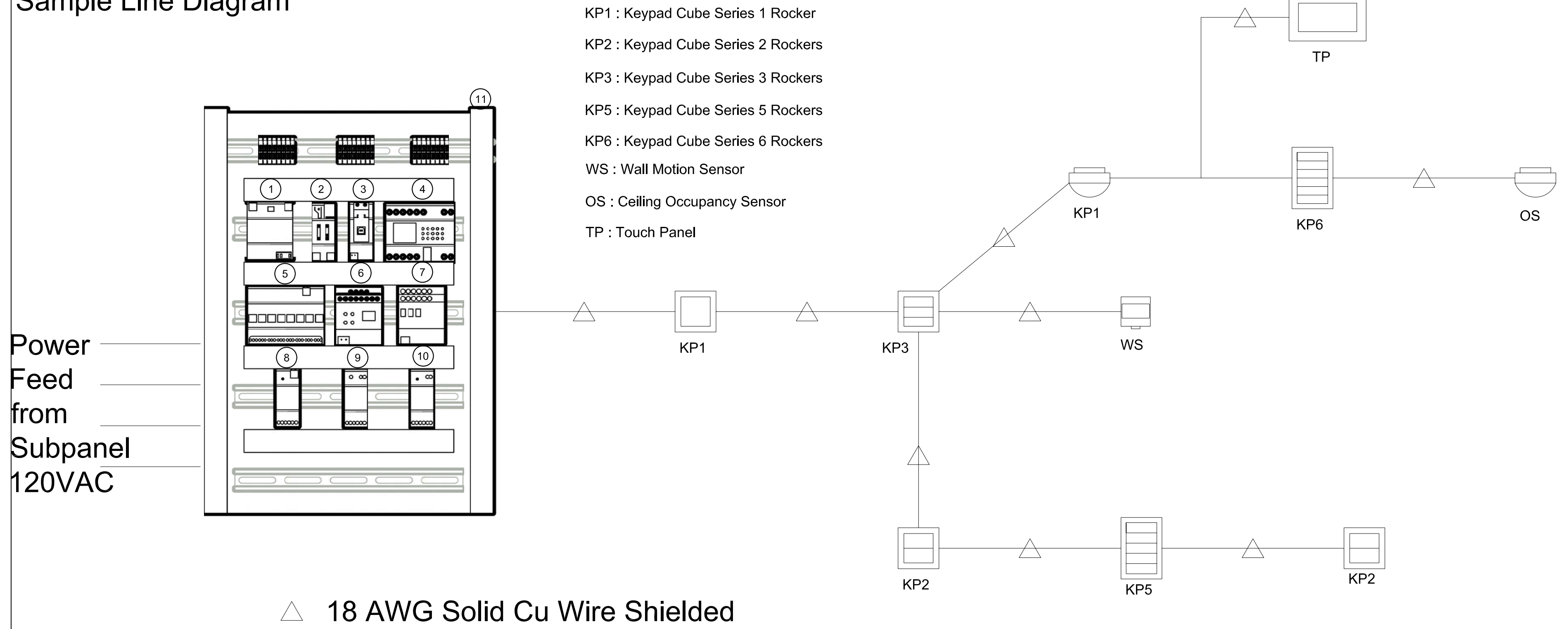


Sample Line Diagram



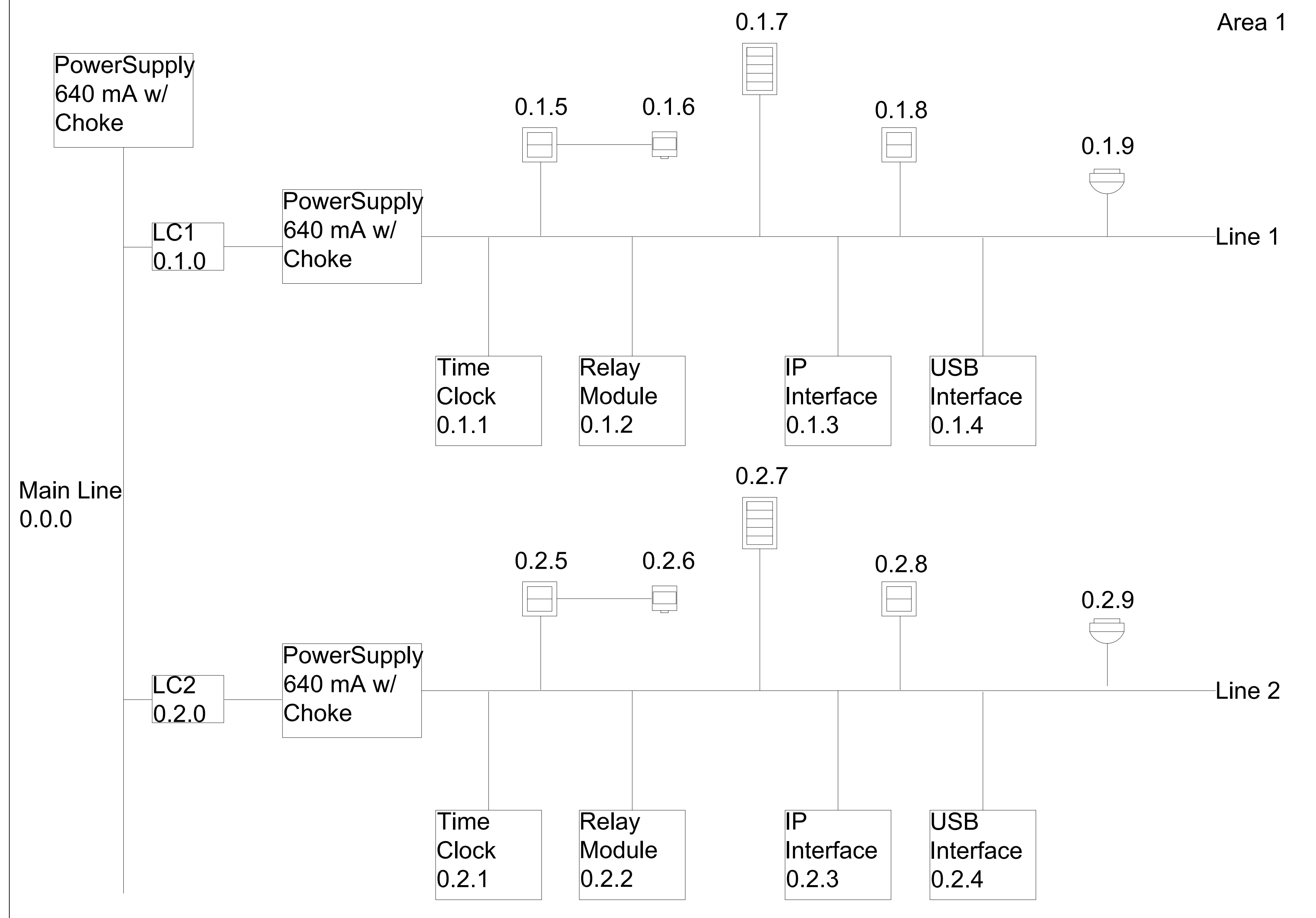
Bill of Materials

Number	Parts Number	Description	Quantity
1	ESCPSU640CHKS	Power Supply 120V/640mA Built In Choke	1
2	ESCIPIIS	IP Interface N148/21	1
3	ESCUSBIB	USB Data Interface	1
4	ESCTC16S	Astronomical Time Clock 16 Channel	1
5	ESCREL8S	Load Switch, 8x20 Amp Relays	1
6	ESCDALIB	DALI Gateway Module	1
7	ELM3CH010VDIMB	0-10V Dimming Module	1
8	ESCDIMCTRL2A	2 Channel Dimming Control Module	1
9	ESCDIMUD250WA	Universal Master Dimmer 250W	1
10	ESCDIMPB210WA	Power Booster Module 210W	1
11	EPB2042E	Lighting Control Enclosure 20"X42"	1

General Notes

General Notes

Topology Example



KNX/EIB TP1 Topology Explained

KNX Topology is flexible. It is in a form of a daisy chain, there is never a closed loop. Bus devices can exchange information with one another by means of telegram, each individual device gets an address.

Line:
 A Line consists of a maximum 64 bus devices (0.1.1 to 0.1.63). If more devices are needed, a Line Repeater (LR) is connected to the Line and another 64 bus devices can be connected. A line consists of a maximum 3 additional Line Repeaters. Therefore ultimately a total of 255 bus devices can be connected to one Line. Each Line Repeater requires an appropriate power supply and the actual number of devices is dependent on the power supply selected and the power input of the individual devices.

Area:
 An Area consists of more than 1 Lines. A total of 15 Lines can be connected to a Main Line (0.0.0) via a Line Coupler (LC). Therefore an Area can have LC1 (0.1.0) to LC15 (0.15.0). The Main Line and each Line Coupler requires an appropriate power supply unit.

Several Areas:
 If more than one Area is needed, Areas can be connected by means of a Backbone Line. A total of 15 Areas can be connected to a Backbone Line. Each Area requires a Backbone Coupler (BC) to be connected to the Backbone Line. The Backbone Line requires an appropriate power supply. Within a maximum of 15 Areas, more than 58,000 bus devices can be connected to the system.

No.	Revision/Issue	Date
1	Sui Shen	

Firm Name and Address
element controls
 2917 Vail Ave.
 Commerce, CA 90040

Project Name and Address

Project	Sheet
Date	
Scale	