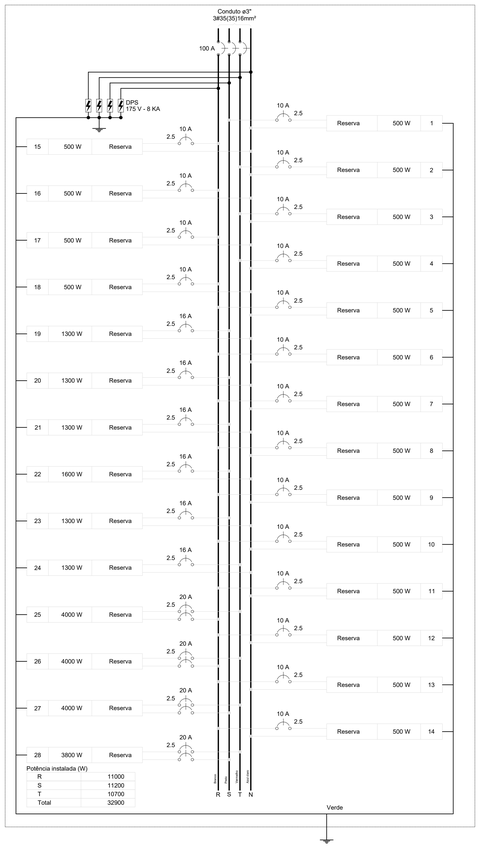
Quadro de Cargas (QD1)

Circuito	Descrição	Esquema	Método de inst.	Tensão (V)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Ip (A)	Seção (mm2)	Ic (A)	Icc (kA)	Disj (A)	dV parc (%)	dV total (%)	Status
1	Reserva	F+N+T	B1	127 V	500	500	S		500		1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
2	Reserva	F+N+T	B1	127 V	500	500	T			500	1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
3	Reserva	F+N+T	B1	127 V	500	500	T			500	1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
4	Reserva	F+N+T	B1	127 V	500	500	T			500	1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
5	Reserva	F+N+T	B1	127 V	500	500	R	500			1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
6	Reserva	F+N+T	B1	127 V	500	500	R	500			1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
7	Reserva	F+N+T	B1	127 V	500	500	R	500			1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
8	Reserva	F+N+T	B1	127 V	500	500	R	500			1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
9	Reserva	F+N+T	B1	127 V	500	500	R	500			1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
10	Reserva	F+N+T	B1	127 V	500	500	R	500			1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
11	Reserva	F+N+T	B1	127 V	500	500	R	500			1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
12	Reserva	F+N+T	B1	127 V	500	500	R	500			1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
13	Reserva	F+N+T	B1	127 V	500	500	R	500			1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
14	Reserva	F+N+T	B1	127 V	500	500	R	500			1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
15	Reserva	F+N+T	B1	127 V	500	500	R	500			1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
16	Reserva	F+N+T	B1	127 V	500	500	R	500			1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
17	Reserva	F+N+T	B1	127 V	500	500	R	500			1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
18	Reserva	F+N+T	B1	127 V	500	500	R	500			1.00	1.00	3.9	3.9	2.5	24.0	3	10	0.00	0.00	OK
19	Reserva	F+N+T	B1	127 V	1300	1300	S		1300		1.00	1.00	10.2	10.2	2.5	24.0	3	16	0.00	0.00	OK
20	Reserva	F+N+T	B1	127 V	1300	1300	S		1300		1.00	1.00	10.2	10.2	2.5	24.0	3	16	0.00	0.00	OK
21	Reserva	F+N+T	B1	127 V	1300	1300	S		1300		1.00	1.00	10.2	10.2	2.5	24.0	3	16	0.00	0.00	OK
22	Reserva	F+N+T	B1	127 V	1600	1600	S		1600		1.00	1.00	12.6	12.6	2.5	24.0	3	16	0.00	0.00	OK
23	Reserva	F+N+T	B1	127 V	1300	1300	S		1300		1.00	1.00	10.2	10.2	2.5	24.0	3	16	0.00	0.00	OK
24	Reserva	F+N+T	B1	127 V	1300	1300	T			1300	1.00	1.00	10.2	10.2	2.5	24.0	3	16	0.00	0.00	OK
25	Reserva	F+F+T	B1	220 V	4000	4000	R+T	2000		2000	1.00	1.00	18.2	18.2	2.5	24.0	4.5	20	0.00	0.00	OK
26	Reserva	F+F+T	B1	220 V	4000	4000	R+T	2000		2000	1.00	1.00	18.2	18.2	2.5	24.0	4.5	20	0.00	0.00	OK
27	Reserva	F+F+T	B1	220 V	4000	4000	S+T		2000	2000	1.00	1.00	18.2	18.2	2.5	24.0	4.5	20	0.00	0.00	OK
28	Reserva	F+F+T	B1	220 V	3800	3800	S+T		1900	1900	1.00	1.00	17.3	17.3	2.5	24.0	4.5	20	0.00	0.00	OK
TOTAL					32900	32900	R+S+T	11000	11200	10700											

Quadro de Demanda (QD1)

Tipo de carga	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
Uso Específico	32.90	100.00	32.90
		TOTAL	32.90

QD1



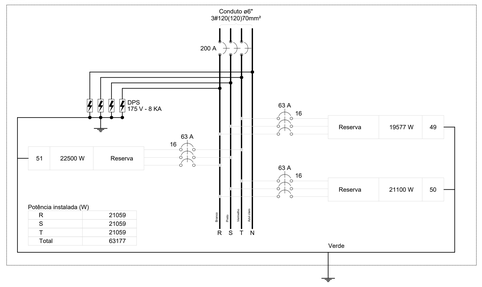
Quadro de Cargas (QD2)

Circuito	Descrição	Esquema	Método de inst.	Tensão (V)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Ip (A)	Seção (mm2)	Ic (A)	Icc (kA)	Disj (A)	dV parc (%)	dV total (%)	Status
49	Reserva	3F+T	B1	220 V	19577	19577	R+S+T	6526	6526	6526	1.00	1.00	51.4	51.4	16	68.0	3	63	0.00	0.00	OK
50	Reserva	3F+T	B1	220 V	21100	21100	R+S+T	7033	7033	7033	1.00	1.00	55.4	55.4	16	68.0	3	63	0.00	0.00	OK
51	Reserva	3F+T	B1	220 V	22500	22500	R+S+T	7500	7500	7500	1.00	1.00	59.0	59.0	16	68.0	3	63	0.00	0.00	OK
TOTAL					63177	63177	R+S+T	21059	21059	21059											

Quadro de Demanda (QD2)

Tipo de carga	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
Uso Específico	63.18	100.00	63.18
		TOTAL	63.18

QD2



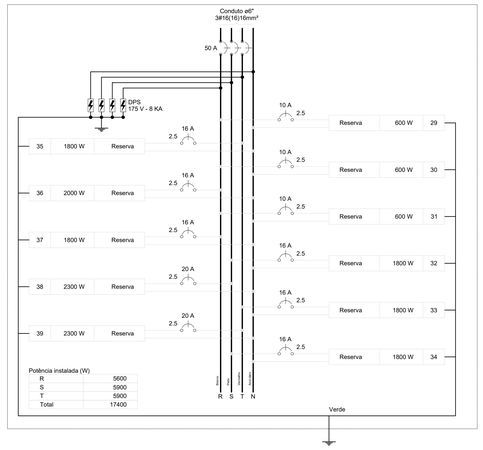
Quadro de Cargas (QD3)

Circuito	Descrição	Esquema	Método de inst.	Tensão (V)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Ip (A)	Seção (mm2)	Ic (A)	Icc (kA)	Disj (A)	dV parc (%)	dV total (%)	Status
29	Reserva	F+N+T	B1	127 V	600	600	R	600			1.00	1.00	4.7	4.7	2.5	24.0	3	10	0.00	0.00	OK
30	Reserva	F+N+T	B1	127 V	600	600	R	600			1.00	1.00	4.7	4.7	2.5	24.0	3	10	0.00	0.00	OK
31	Reserva	F+N+T	B1	127 V	600	600	R	600			1.00	1.00	4.7	4.7	2.5	24.0	3	10	0.00	0.00	OK
32	Reserva	F+N+T	B1	127 V	1800	1800	S		1800		1.00	1.00	14.2	14.2	2.5	24.0	3	16	0.00	0.00	OK
33	Reserva	F+N+T	B1	127 V	1800	1800	T			1800	1.00	1.00	14.2	14.2	2.5	24.0	3	16	0.00	0.00	OK
34	Reserva	F+N+T	B1	127 V	1800	1800	S		1800		1.00	1.00	14.2	14.2	2.5	24.0	3	16	0.00	0.00	OK
35	Reserva	F+N+T	B1	127 V	1800	1800	T			1800	1.00	1.00	14.2	14.2	2.5	24.0	3	16	0.00	0.00	OK
36	Reserva	F+N+T	B1	127 V	2000	2000	R	2000			1.00	1.00	15.7	15.7	2.5	24.0	3	16	0.00	0.00	OK
37	Reserva	F+N+T	B1	127 V	1800	1800	R	1800			1.00	1.00	14.2	14.2	2.5	24.0	3	16	0.00	0.00	OK
38	Reserva	F+N+T	B1	127 V	2300	2300	S		2300		1.00	1.00	18.1	18.1	2.5	24.0	3	20	0.00	0.00	OK
39	Reserva	F+N+T	B1	127 V	2300	2300	T			2300	1.00	1.00	18.1	18.1	2.5	24.0	3	20	0.00	0.00	OK
TOTAL					17400	17400	R+S+T	5600	5900	5900											

Quadro de Demanda (QD3)

Tipo de carga	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
Uso Específico	17.40	100.00	17.40
		TOTAL	17.40

QD3



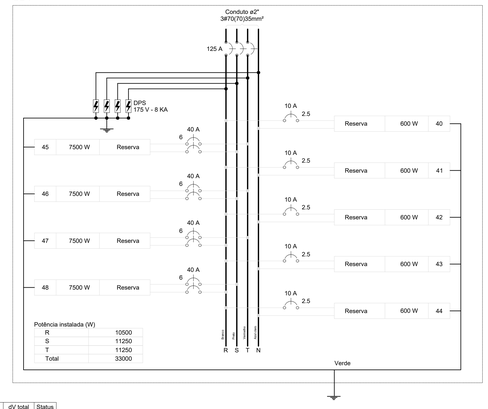
Quadro de Cargas (QD4)

Circuito	Descrição	Esquema	Método de inst.	Tensão (V)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Ip (A)	Seção (mm2)	Ic (A)	Icc (kA)	Disj (A)	dV parc (%)	dV total (%)	Status
40	Reserva	F+N+T	B1	127 V	600	600	R	600			1.00	1.00	4.7	4.7	2.5	24.0	3	10	0.00	0.00	OK
41	Reserva	F+N+T	B1	127 V	600	600	R	600			1.00	1.00	4.7	4.7	2.5	24.0	3	10	0.00	0.00	OK
42	Reserva	F+N+T	B1	127 V	600	600	R	600			1.00	1.00	4.7	4.7	2.5	24.0	3	10	0.00	0.00	OK
43	Reserva	F+N+T	B1	127 V	600	600	R	600			1.00	1.00	4.7	4.7	2.5	24.0	3	10	0.00	0.00	OK
44	Reserva	F+N+T	B1	127 V	600	600	R	600			1.00	1.00	4.7	4.7	2.5	24.0	3	10	0.00	0.00	OK
45	Reserva	F+F+T	B1	220 V	7500	7500	S+T		3750	3750	1.00	1.00	34.1	34.1	6	41.0	5	40	0.00	0.00	OK
46	Reserva	F+F+T	B1	220 V	7500	7500	S+T		3750	3750	1.00	1.00	34.1	34.1	6	41.0	5	40	0.00	0.00	OK
47	Reserva	F+F+T	B1	220 V	7500	7500	R+T	3750		3750	1.00	1.00	34.1	34.1	6	41.0	5	40	0.00	0.00	OK
48	Reserva	F+F+T	B1	220 V	7500	7500	R+S	3750	3750		1.00	1.00	34.1	34.1	6	41.0	5	40	0.00	0.00	OK
TOTAL					33000	33000	R+S+T	10500	11250	11250											

Quadro de Demanda (QD4)

Tipo de carga	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
Uso Específico	33.00	100.00	33.00
		TOTAL	33.00

QD4



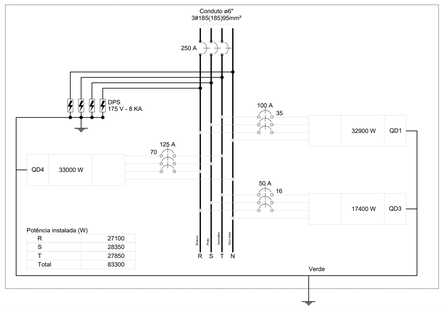
Quadro de Cargas (QD5)

Circuito	Descrição	Esquema	Método de inst.	Tensão (V)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Ip (A)	Seção (mm2)	Ic (A)	Icc (kA)	Disj (A)	dV parc (%)	dV total (%)	Status
QD1		3F+N+T	D	220/127 V	32900	32900	R+S+T	11000	11200	10700	1.00	1.00	93.9	93.9	35	103.0	5	50	1.39	3.11	OK
QD3		3F+N+T	D	220/127 V	17400	17400	R+S+T	5600	5900	5900	1.00	1.00	46.5	46.5	16	67.0	5	50	2.49	4.21	OK
QD4		3F+N+T	D	220/127 V	33000	33000	R+S+T	10500	11250	11250	1.00	1.00	102.3	102.3	70	151.0	40	125	0.44	2.17	OK
TOTAL					83300	83300	R+S+T	27100	28350	27850											

Quadro de Demanda (QD5)

Tipo de carga	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
Uso Específico	83.30	100.00	83.30
		TOTAL	83.30

QD5



Quadro de Cargas (AL1)

Circuito	Descrição	Esquema	Método de inst.	Tensão (V)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Ip (A)	Seção (mm2)	Ic (A)	Icc (kA)	Disj (A)	dV parc (%)	dV total (%)	Status
QM1		3F+N+T	D	220/127 V	83300	83300	R+S+T	27100	28350	27850	1.00	1.00	242.6	242.6	185	258.0	60	250	0.08	0.08	OK
TOTAL					83300	83300	R+S+T	27100	28350	27850											

Quadro de Demanda (AL1)

Tipo de carga	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
Uso Específico	83.30	100.00	83.30
		TOTAL	83.30

Quadro de Cargas (AL2)

Circuito	Descrição	Esquema	Método de inst.	Tensão (V)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Ip (A)	Seção (mm2)	Ic (A)	Icc (kA)	Disj (A)	dV parc (%)	dV total (%)	Status
QM2		3F+N+T	D	220/127 V	63177	63177	R+S+T	21059	21059	21059	1.00	1.00	165.8	165.8	120	203.0	60	200	0.08	0.08	OK
TOTAL					63177	63177	R+S+T	21059	21059	21059											

Quadro de Demanda (AL2)

Tipo de carga	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
Uso Específico	63.18	100.00	63.18
		TOTAL	63.18

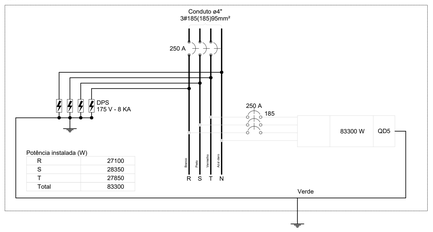
Quadro de Cargas (QM1)

Circuito	Descrição	Esquema	Método de inst.	Tensão (V)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Ip (A)	Seção (mm2)	Ic (A)	Icc (kA)	Disj (A)	dV parc (%)	dV total (%)	Status
QD5		3F+N+T	D	220/127 V	83300	83300	R+S+T	27100	28350	27850	1.00	1.00	242.6	242.6	185	258.0	60	250	1.65	1.73	OK
TOTAL					83300	83300	R+S+T	27100	28350	27850											

Quadro de Demanda (QM1)

Tipo de carga	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
Uso Específico	83.30	100.00	83.30
		TOTAL	83.30

QM1



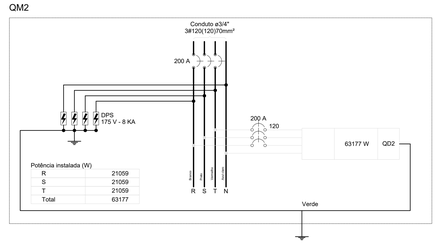
Quadro de Cargas (QM2)

Circuito	Descrição	Esquema	Método de inst.	Tensão (V)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Ip (A)	Seção (mm2)	Ic (A)	Icc (kA)	Disj (A)	dV parc (%)	dV total (%)	Status
QD2		3F+N+T	D	220/127 V	63177	63177	R+S+T	21059	21059	21059	1.00	1.00	165.8	165.8	120	203.0	60	200	1.81	1.89	OK
TOTAL					63177	63177	R+S+T	21059	21059	21059											

Quadro de Demanda (QM2)

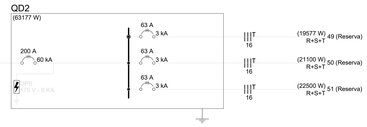
Tipo de carga	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
Uso Específico	63.18	100.00	63.18
		TOTAL	63.18

QM2

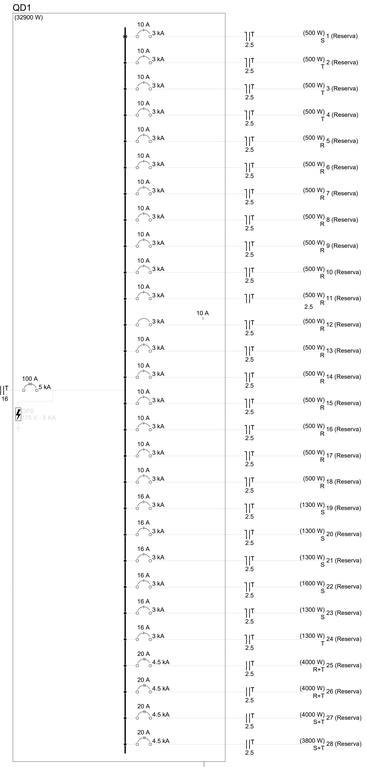


AL2

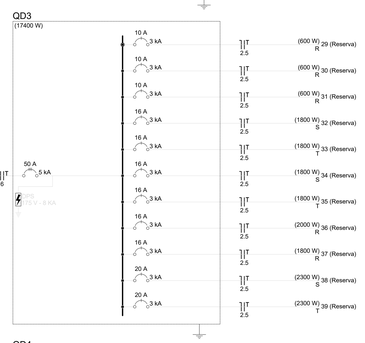
QD2



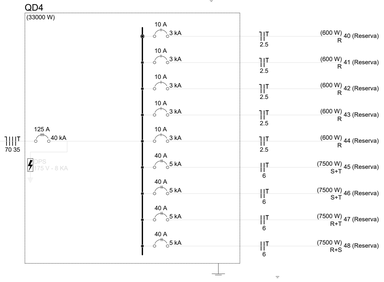
QD1



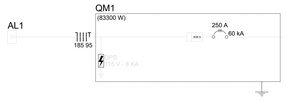
QD3



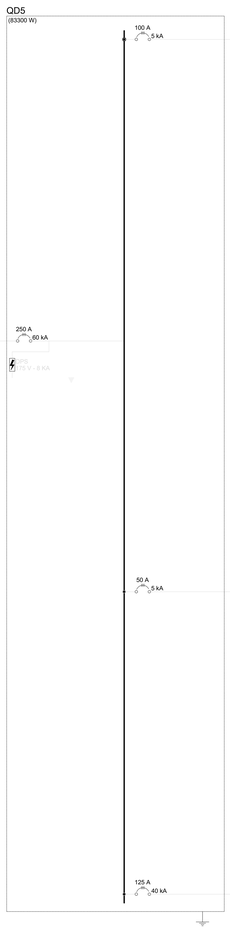
QD4



AL1



QD5



REVISÃO; DATA :	DESCRIÇÃO:	RESP.:
REV. 04 29/11/21	REVISÃO CONFORME ANÁLISE DA CEF	DAC
REV. 03 19/11/21	REVISÃO CONFORME ANÁLISE DA CEF	DAC
REV. 02 16/08/21	REVISÃO CONFORME ANÁLISE DA CEF	DAC
REV. 01 11/06/21	ALTERAÇÃO DE FASES	DAC
REV. 00 23/04/21	EMISSÃO INICIAL	DAC

Prefeitura Municipal de Pouso Alegre

PROJETO
DAC engenharia
Rua Miguel Vianna, nº 81, Sala 12
Bairro Morro Chic
CEP: 37500-080 – Itajubá / MG
Tel: (35) 3623-5720
www.dacengenharia.com.br

GERÊNCIA DE PROJETOS
DENIS DE SOUZA SILVA CREA: MG-127.216/D
COORDENAÇÃO DE PROJETOS
ALOISIO CAETANO FERREIRA CREA: MG-97.132/D
RESPONSÁVEL TÉCNICO
ENG°. CIVIL FLÁVIA C. BARBOSA CREA: MG-187.842/D
PROJETO
ENG. CIVIL THAIS VIVIANE COIMBRA
DESENHO
LUIZ TOSO

EMPREENDIMENTO
REFORMA DO ESPAÇO ESTAÇÃO CIDADANIA – CULTURA

ENDEREÇO
AVENIDA PINTO COBRA, 2015 – BAIRRO SANTA CECÍLIA
POUSO ALEGRE – MINAS GERAIS

DISCIPLINA: ELÉTRICO

FASE DO PROJETO: EXECUTIVO

ASSUNTO
PROJETO DE MELHORIA NAS INSTALAÇÕES ELÉTRICAS NO TEATRO DO CENTRO DE ARTES E ESPORTES UNIFICADO

FOLHA Nº 01/03

DATA INICIAL	ESCALA	REVISÃO	ARQUIVO
23/04/2021	INDICADA!	R04	DAC-PMPA-EEC-PE-ELE-R04.DWG