

DIAGRAMA UNIFILAR EDIFICIO DE OPERACIONES

DESDE TBB EN EDIFICIO DE SUBSTACION FASE 1

TGBT  
3x100A

TP01  
3x50A

TP02  
3x40A

TP03  
3x20A

TP01  
3x20A

TP01  
3x50A

TP02  
3x40A

TP03  
3x20A

C01.01  
1x20A

C01.02  
1x20A

C01.03  
1x20A

C01.04  
3x20A

C01.05  
3x20A

C01.06  
3x20A

C01.07  
3x20A

C01.08  
3x20A

C02.01  
1x20A

C02.02  
1x20A

C02.03  
1x20A

C02.04  
1x20A

C02.05  
1x20A

C02.06  
1x20A

C02.07  
1x20A

C02.08  
1x20A

C02.09  
1x20A

UPS  
3x20

C03.01  
1x20A

C03.02  
1x20A

C03.03  
1x20A

C03.04  
1x20A

C03.05  
1x20A

C03.06  
1x20A

C04.01  
1x10A

C04.02  
1x10A

C04.03  
1x10A

C04.04  
3x20A

TP01  
3x20A

<b>TABLERO ELECTICO</b>																	
<b>Tipo de Tablero:</b>	N-CAB	<b>Instalación:</b>	Auto soportado	<b>C. Interrupción [kA]:</b>	10	<b>Fases:</b>	Proyecto:	PTAR POPAYAN									
<b>Polo(s):</b>	1ø	<b>Cerramiento NEMA:</b>	3R	<b>Color:</b>	BLANCO	<b>Alimentador Principal:</b>	Calibre	Alastarte	Ond X base	Condut.	Entrada	CASITA					
<b>Voltaje del Tablero [V]:</b>	240	<b>Corriente de Barras [A]:</b>	100	<b>Interruptor principal 3P [A]:</b>	100	1Ø AWG	THHN	1	3	Lateral	Nombre del Tablero:	TOBT					
Menu Principial																	
Carga Conectada	VA	Tuberia		Cont. por fase	Conductor		Interrupidor		N°	Interrupidor							
		Material	Diametro [pul]		Asistente	Calibre	Tipo	[in] [A] 3P		N°	In [A] 3P	Tipo	Calibre	Asistente			
TPD1	5480	Aluminio	1 1/2"	1	THHN	6 AWG	MCB	50	1	20	MCB	12 AWG	THHN	1			
	6200								2								
	6500								3								
	3840								4								
	3840								5								
TPID2	3840	Aluminio	1"	1	THHN	8 AWG	MCB	40	6	20	MCB	12 AWG	THHN	1			
	3840								7								
									8								
									9								
									10								
RESERVA									11								
									12								
									13								
									14								
									15								
									16								
									17								
									18								
RESERVA																	

[illegible]

<b>TABLERO ELÉCTRICO</b>																																																																																																																																																																																																																																																																																																																																																																																																															
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Polo(s):	18	Cerramiento NEMA:	3R	Color:			BLANCO	Alimentador Principal:			Calibre AWG Alambre Cnd X fase Conduit Entrada Nombre del Tabloero:	CASITA			TP02																																																																																																																																																																																																																																																																																																																																																																																																
Voltaje del Tablero [V]:	240	Corriente de Barras [A]:			100	Interruptor principal 3P [A]:			40	8 AWG THHN			1	1	Superior																																																																																																																																																																																																																																																																																																																																																																																																
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<table border="1"> <thead> <tr> <th colspan="2">Carga Conectada</th><th>VA</th><th>Materia</th><th>Diametro [pul]</th><th>Cond por fase</th><th>Conductor</th><th>Asiante</th><th>Calbre</th><th>Tipc</th><th>In [A] 3P</th><th>Nº</th><th colspan="2">Interruptor</th><th>Nº</th><th>In [A] 3P</th><th>Tipc</th><th>Calbre</th><th>Asiante</th><th>Cond por fase</th><th>Diametro [pul]</th><th>Materia</th><th>VA</th><th>Carga Conctada</th></tr> </thead> <tbody> <!-- Phase 1 --> <tr><td>C-02.01</td><td></td><td>320</td><td>Aluminio</td><td>3/4</td><td>1</td><td>THHN</td><td>12 AWG</td><td>MCB</td><td>20</td><td>1</td><td></td><td></td><td></td><td>2</td><td>20</td><td>MCB</td><td>12 AWG</td><td>THHN</td><td>1</td><td>3/4</td><td>Aluminio</td><td>1260</td><td>C-02.07</td></tr> <tr><td>C-02.02</td><td></td><td>320</td><td>Aluminio</td><td>3/4</td><td>1</td><td>THHN</td><td>12 AWG</td><td>MCB</td><td>20</td><td>3</td><td></td><td></td><td></td><td>4</td><td>20</td><td>MCB</td><td>12 AWG</td><td>THHN</td><td>1</td><td>3/4</td><td>Aluminio</td><td>1260</td><td>C-02.08</td></tr> <tr><td>C-02.03</td><td></td><td>320</td><td>Aluminio</td><td>3/4</td><td>1</td><td>THHN</td><td>12 AWG</td><td>MCB</td><td>20</td><td>5</td><td></td><td></td><td></td><td>6</td><td>20</td><td>MCB</td><td>12 AWG</td><td>THHN</td><td>1</td><td>3/4</td><td>Aluminio</td><td>1260</td><td>C-02.09</td></tr> <tr><td>C-02.04</td><td></td><td>1260</td><td>Aluminio</td><td>3/4</td><td>1</td><td>THHN</td><td>12 AWG</td><td>MCB</td><td>20</td><td>7</td><td></td><td></td><td></td><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1000</td><td></td></tr> <tr><td>C-02.05</td><td></td><td>1260</td><td>Aluminio</td><td>3/4</td><td>1</td><td>THHN</td><td>12 AWG</td><td>MCB</td><td>20</td><td>9</td><td></td><td></td><td></td><td>10</td><td>20</td><td>MCB</td><td>12 AWG</td><td>THHN</td><td>1</td><td>3/4</td><td>Aluminio</td><td>1000</td><td>UPS</td></tr> <tr><td>C-02.06</td><td></td><td>1260</td><td>Aluminio</td><td>3/4</td><td>1</td><td>THHN</td><td>12 AWG</td><td>MCB</td><td>20</td><td>11</td><td></td><td></td><td></td><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1000</td><td></td></tr> <!-- Reserve Section --> <tr><td colspan="2">RESERVA</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>13</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>15</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> 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AWG	THHN	1	3/4	Aluminio	1260	C-02.07	C-02.02		320	Aluminio	3/4	1	THHN	12 AWG	MCB	20	3				4	20	MCB	12 AWG	THHN	1	3/4	Aluminio	1260	C-02.08	C-02.03		320	Aluminio	3/4	1	THHN	12 AWG	MCB	20	5				6	20	MCB	12 AWG	THHN	1	3/4	Aluminio	1260	C-02.09	C-02.04		1260	Aluminio	3/4	1	THHN	12 AWG	MCB	20	7				8								1000		C-02.05		1260	Aluminio	3/4	1	THHN	12 AWG	MCB	20	9				10	20	MCB	12 AWG	THHN	1	3/4	Aluminio	1000	UPS	C-02.06		1260	Aluminio	3/4	1	THHN	12 AWG	MCB	20	11				12								1000		RESERVA														13																								14																								15																								16																								17																								18												VA	A	% POT.																							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TABLERO ELECTRO																	
Tipo de Tablero: <b>NLAS</b>		Instalación: <b>Auto soportado</b>		C. Interrupción [kA]: <b>10</b>		Fase: <b>3</b>		Proyecto: <b>PTAR POPAYAN</b>									
Poles: <b>12</b>		Cerramiento NEMA: <b>3R</b>		Color: <b>BLANCO</b>		Alimentador Principal: <b>Instalación:</b>											
Voltaje del Tablero [V]: <b>240</b>		Corriente de Barras [kA]: <b>100</b>		Interruptr principal 3P [A]: <b>20</b>		Calibre <b>Aislante</b>		Cond X fase <b>Entrada</b>									
						<b>12 AWG THHN</b>		<b>3/4 Superior</b>									
						<b>1</b>		<b>3/4</b>									
								Nombre del Tablero: <b>CASETA</b>									
								<b>TP03</b>									
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1. VER CONFORMACIÓN GENERAL DE LA ETAPA 1 EN PLANO GEN-7.

TIENE: GRAMA UNIFILAR Y TABLEROS EDIFICIO DE OPERACIONES	ESCALA:  SIN ESCALA	FECHA: OCTUBRE 2021	
		PLANO No: ELE-6	ARCHIVO DWG: 1.DISEÑO ELECTRIC



ORDEN DE SERVICIO No.175  
OBJETO DE CONTRATO:  
REDISEÑO PTAR EN NUEVA  
UBICACIÓN

CONTRATISTA:

**SILMAS S.A.S.**  
Soluciones de Ingeniería, Transporte, Medio Ambiente y Sanitaria S.A.S.

LOCALIZACIÓN:

POPAYÁN, COLOMBIA

DISEÑO: ALEXANDER RUIZ CORREDOR  
CN205-8345

REVISO:  
JAIRO CABRALES SOLANO  
MAT 205-6788 CN

SUPERVISOR:  
HERNAN SOLANO SOLANO  
MAT 19202138951 CAUCA

CONTIENE:

DIAGRAMA UNIFILAR Y TABLEROS  
EDIFICIO DE OPERACIONES

ESCALA:

SIN ESCALA

FECHA:	OCTUBRE 2021
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PLANO No: ELE-6	ARCHIVO DWG: 1.DISEÑO ELECTRICO.dwg
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