

Belgrano Cargas Y Logística

Provisión de equipos para automatización de pasos a nivel

Líneas San Marín y Belgrano

Esquemas funcionales PaN Pellegrini

| REVISIONES | | | |
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| n° | fecha | descripción | |
| A0 | 17/10/2019 | CREACIÓN DEL DOCUMENTO | |
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| SIEMENS <i>Belgrano</i> <small>MOBILITY S.A. JULIAN SEGUNDO AGÜERO, 2830 MUNRO, BUENOS AIRES</small> | | | |
| TITULO ESQUEMAS FUNCIONALES PaN PELLEGRINI | | | |
| DESCRIPCIÓN CARATULA DEL DOCUMENTO | | | |
| CLIENTE BELGRANO CARGAS Y LOGISTICA | | | |
| DIB | LC | FECHA | 17/10/2019 |
| REV | GM | FECHA DE EMISIÓN | 17/10/2019 |
| LIB | RA | N° DE DOCUMENTO | (3)59053C-S0150-A0 |
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| 1 | | 23 | |

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TITULO
ESQUEMAS FUNCIONALES PaN PELLEGRINI

CLIENTE
BELGRANO CARGAS Y LOGISTICA

1 2 3 4 5 6 7 8

A

A

B

B

C

C

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D

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E

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F

1 2 3 4 5 6 7 8

PaN Pelegrini
PK 209+300

MDZ

BS AS

MECANISMO "A"

2 1

WA-2

WA-1

SC1

204T

tx

203T

tx

107T

tx

1T

tx

106T

tx

105T

tx

tx

tx

104T

ABRIGO

W700

W600

W500

W400

W300

W200

W100

WSC2

WSC1

SUMINISTRO
DE 220 MONOFAS CC
POR BCyL

MECANISMO "B"

1 2

WB-1

WB-2

SC2

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| DESCRIPCIÓN | | |
| TRACK LAYOUT (ESQUEMÁTICO) | | |
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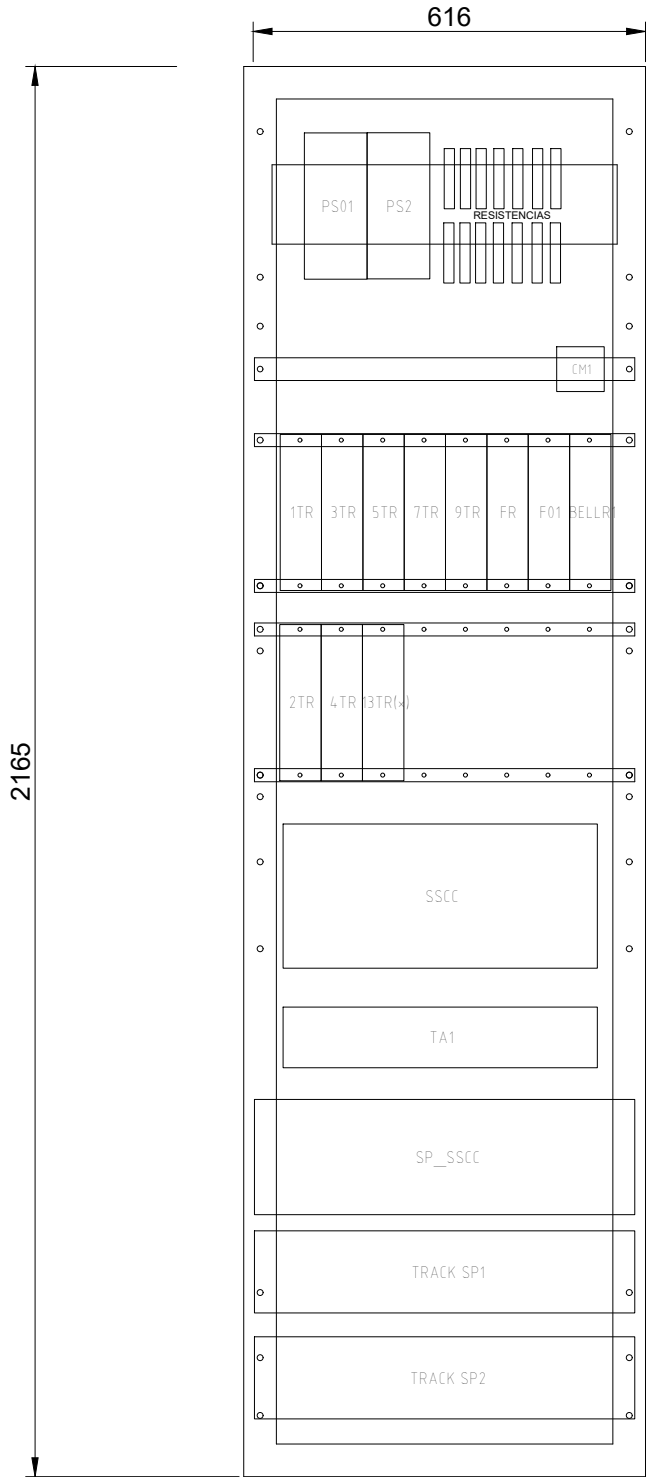
SIEMENS *Belgrano*
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JULIAN SEGUNDO AGÜERO, 2830
MUNRO, BUENOS AIRES
CARGAS Y LOGÍSTICA

TITULO
ESQUEMAS FUNCIONALES PaN PELLEGRINI

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VISTA GENERAL DEL RACK



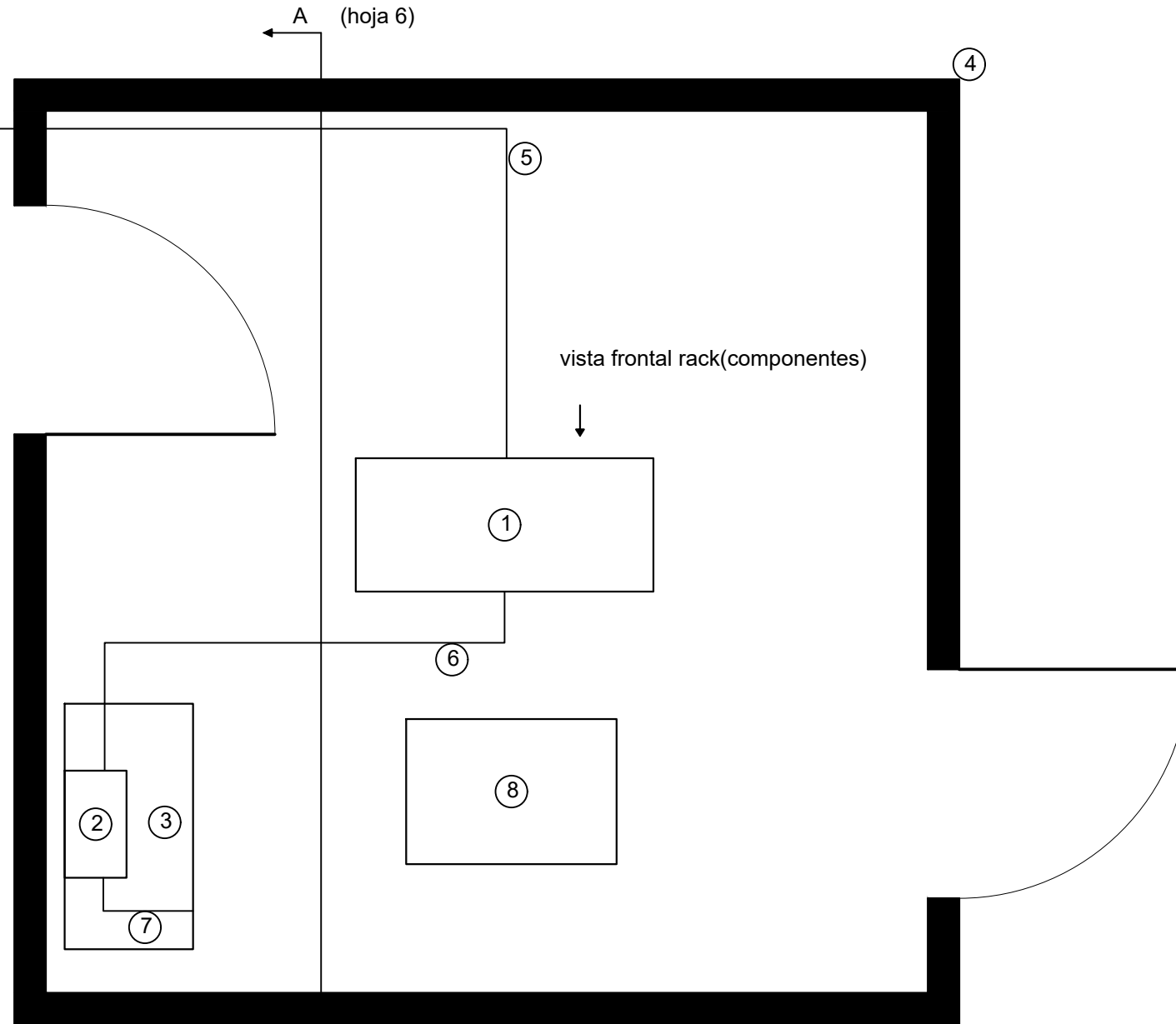
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| TOPOGRÁFICO RACK | | |
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VISTA EN PLANTA DEL ABRIGO DE CONTROL

Tablero de distribución (*)



| REFERENCIAS | |
|-------------|--|
| 1 | RACK DE CONTROL PaN |
| 2 | CARGADOR 12V |
| 3 | BANCO DE BATERÍAS 12V |
| 4 | TÍPICO DE ABRIGO - (3)59053C-C0004-A0 |
| 5 | ALIMENTACIÓN PPAL |
| 6 | SALIDA DE CONSUMOS DEL CARGADOR 12 VDC |
| 7 | LÍNEA DE CARGA DE BATERÍAS |
| 8 | SALIDA DE CABLES A CAMPO |

(*) el tablero de distribución general podrá estar dentro del abrigo

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| ABRIGO - VISTA EN PLANTA | | |
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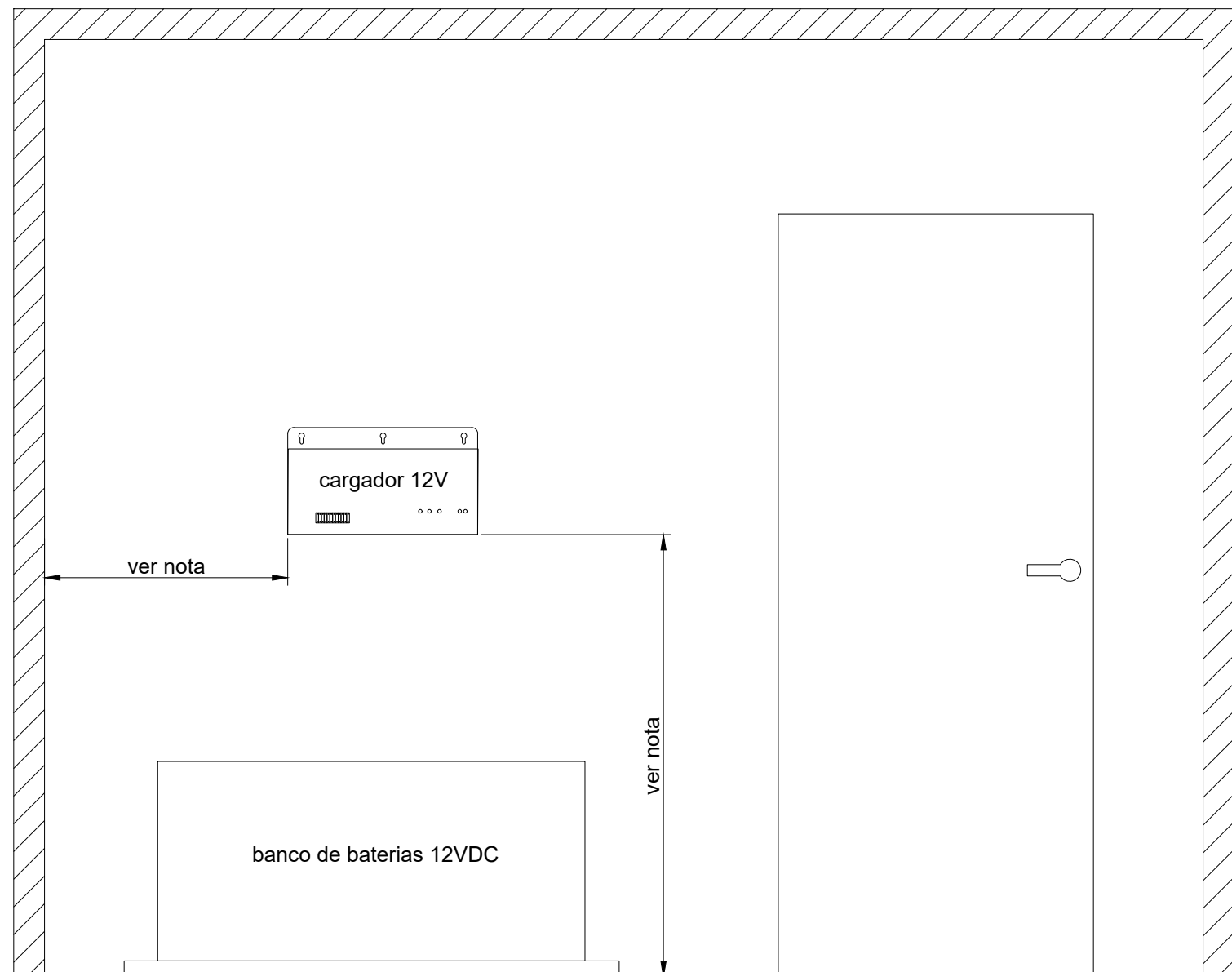


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VISTA A-A - INSTALACIÓN EN PARED DEL CARTGADOR 12VDC



Nota: Las posiciones finales de los equipos de referencia serán determinadas en la próxima revisión.

Este plano es indicativo, no está a escala

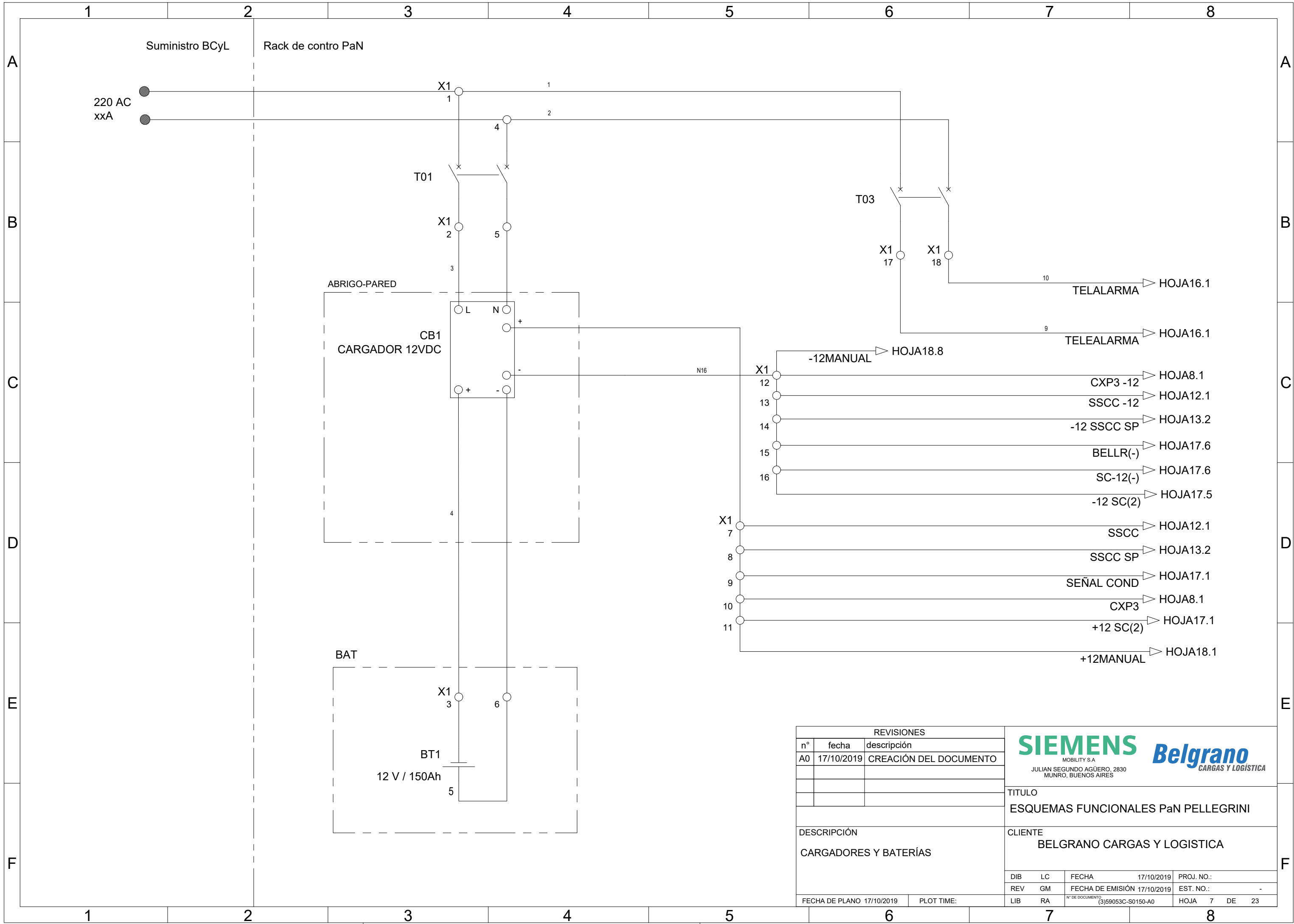
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| VISTA CARGADOR | | |
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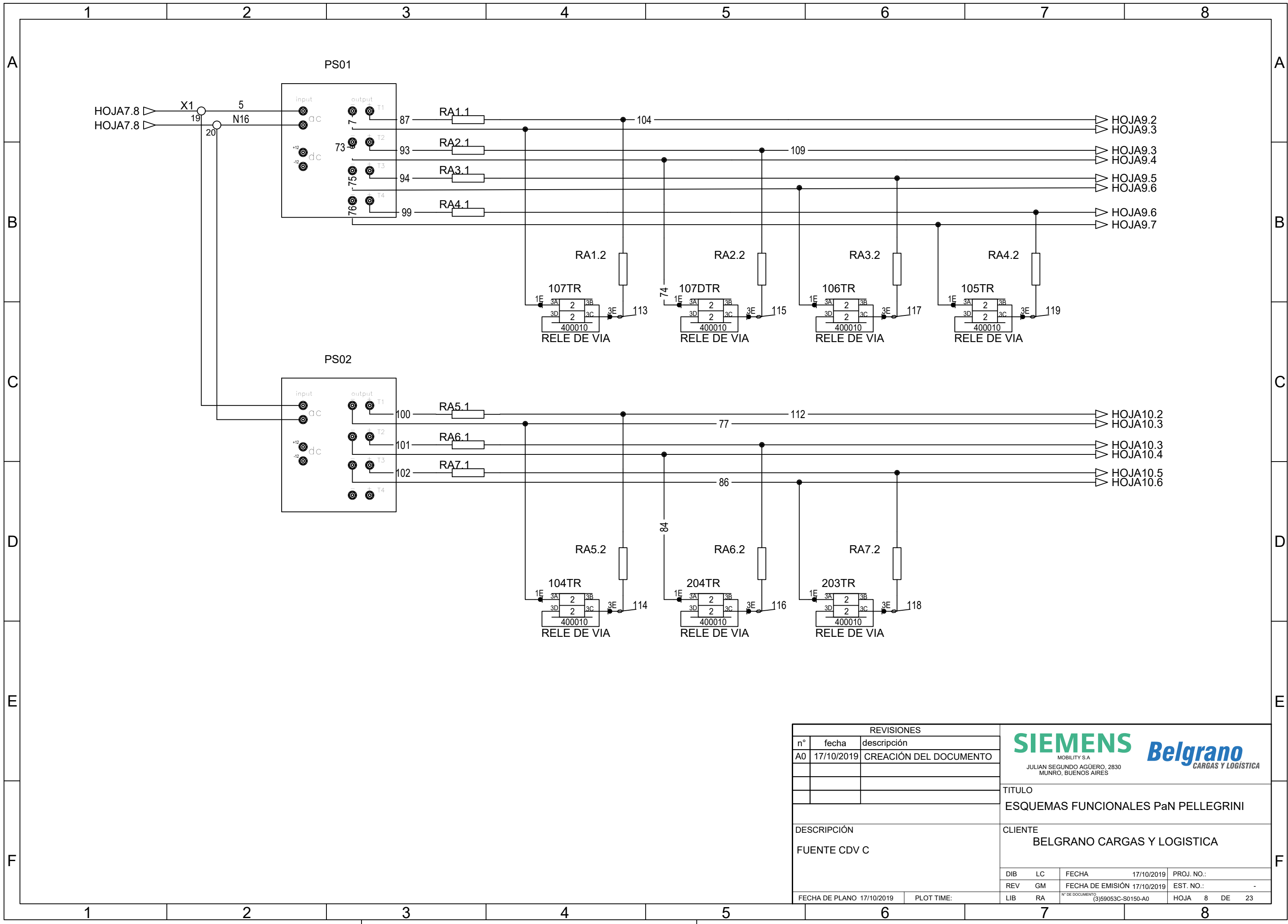
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| DESCRIPCIÓN | | |
| CARGADORES Y BATERÍAS | | |
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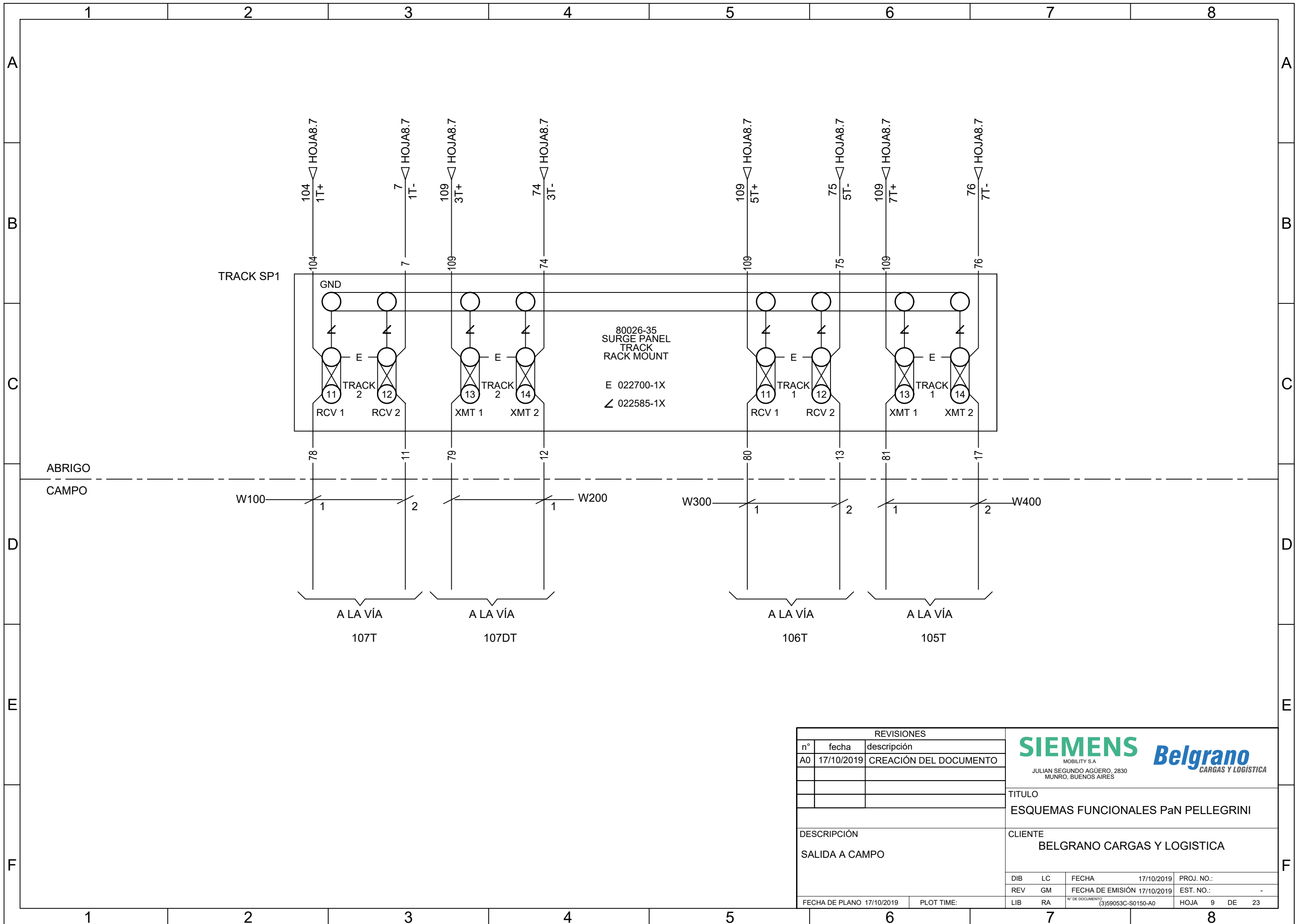
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| DESCRIPCIÓN | | |
| FUENTE CDV C | | |
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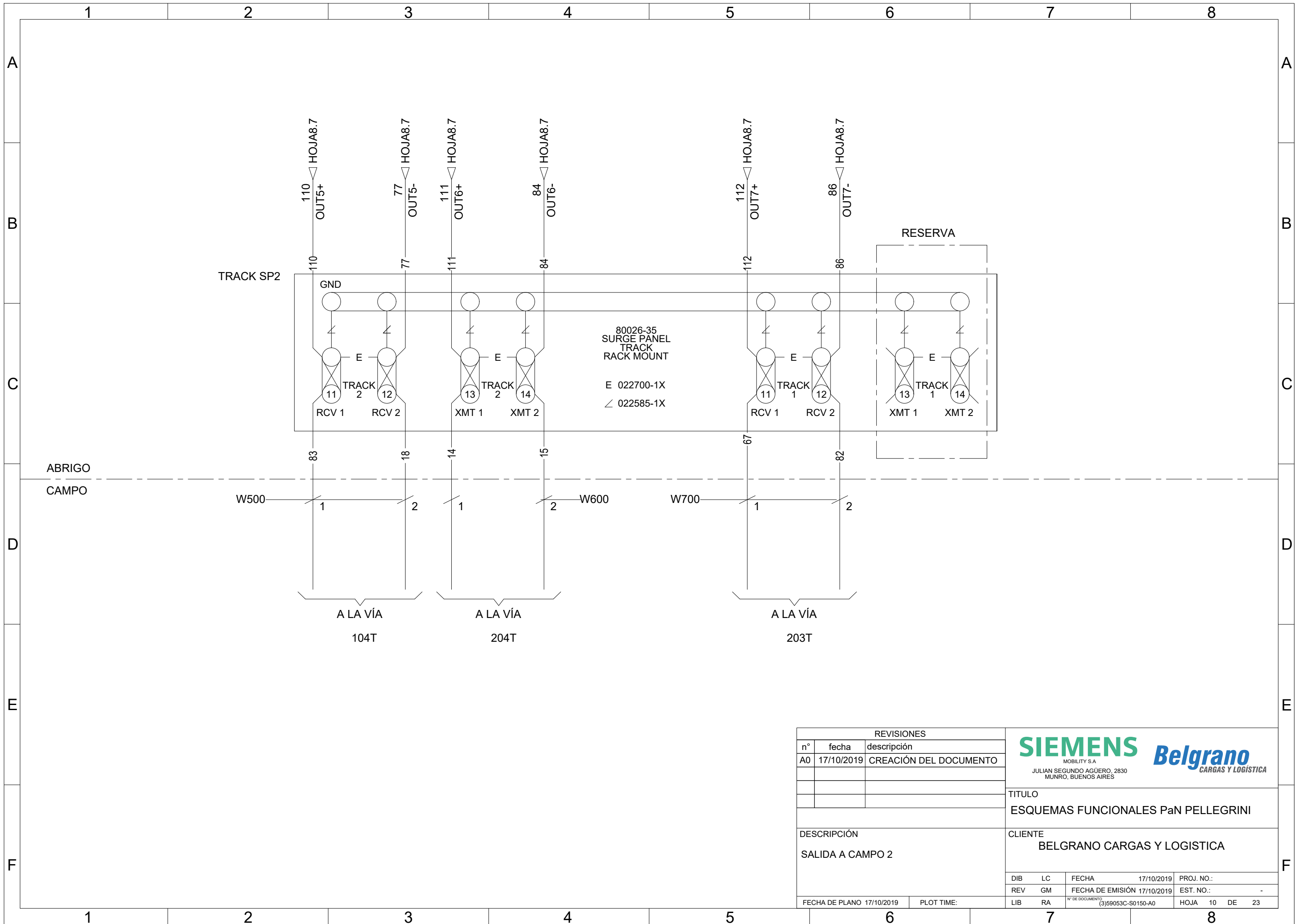
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| SALIDA A CAMPO | | |
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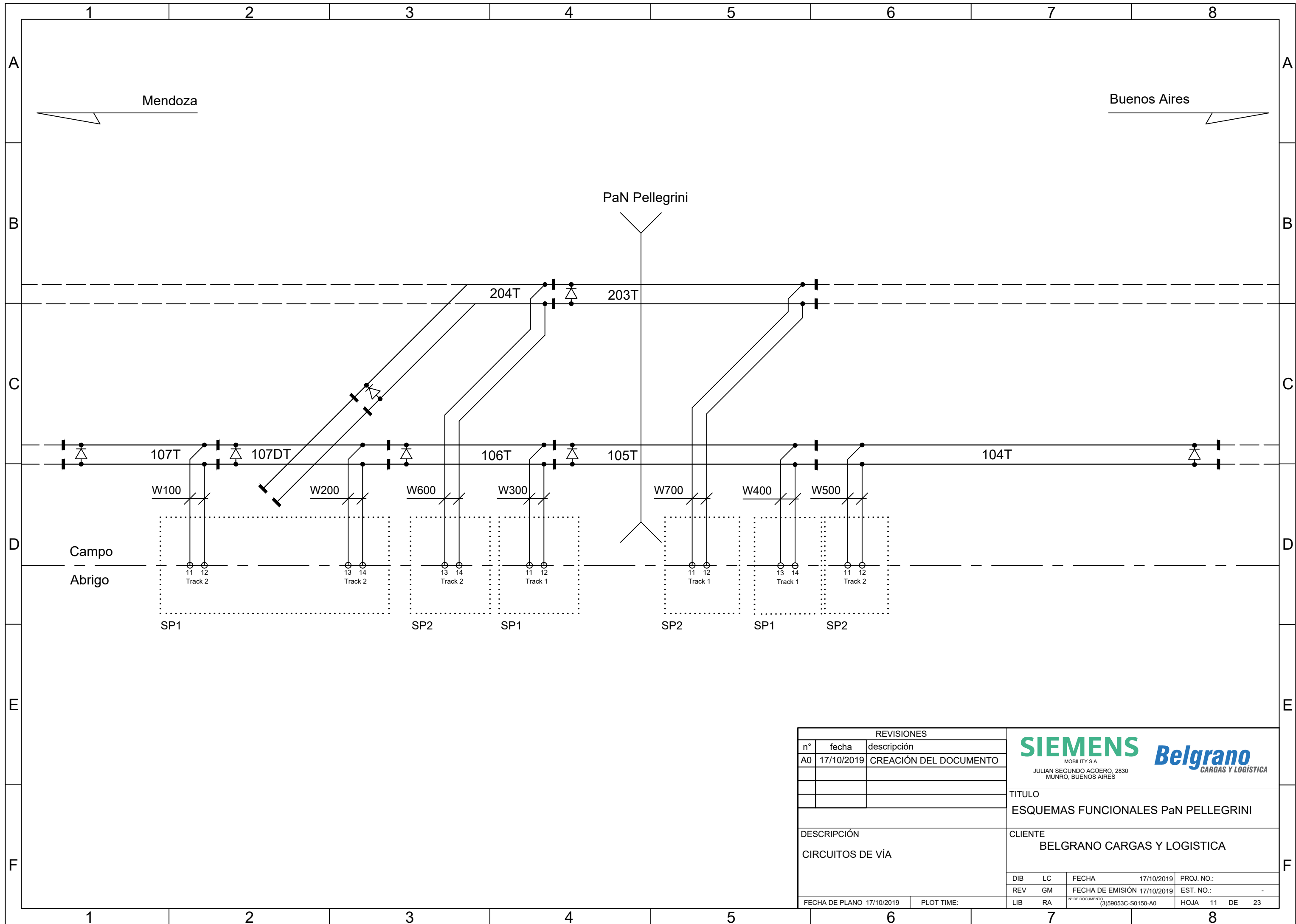
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| DESCRIPCIÓN | | |
| SALIDA A CAMPO 2 | | |
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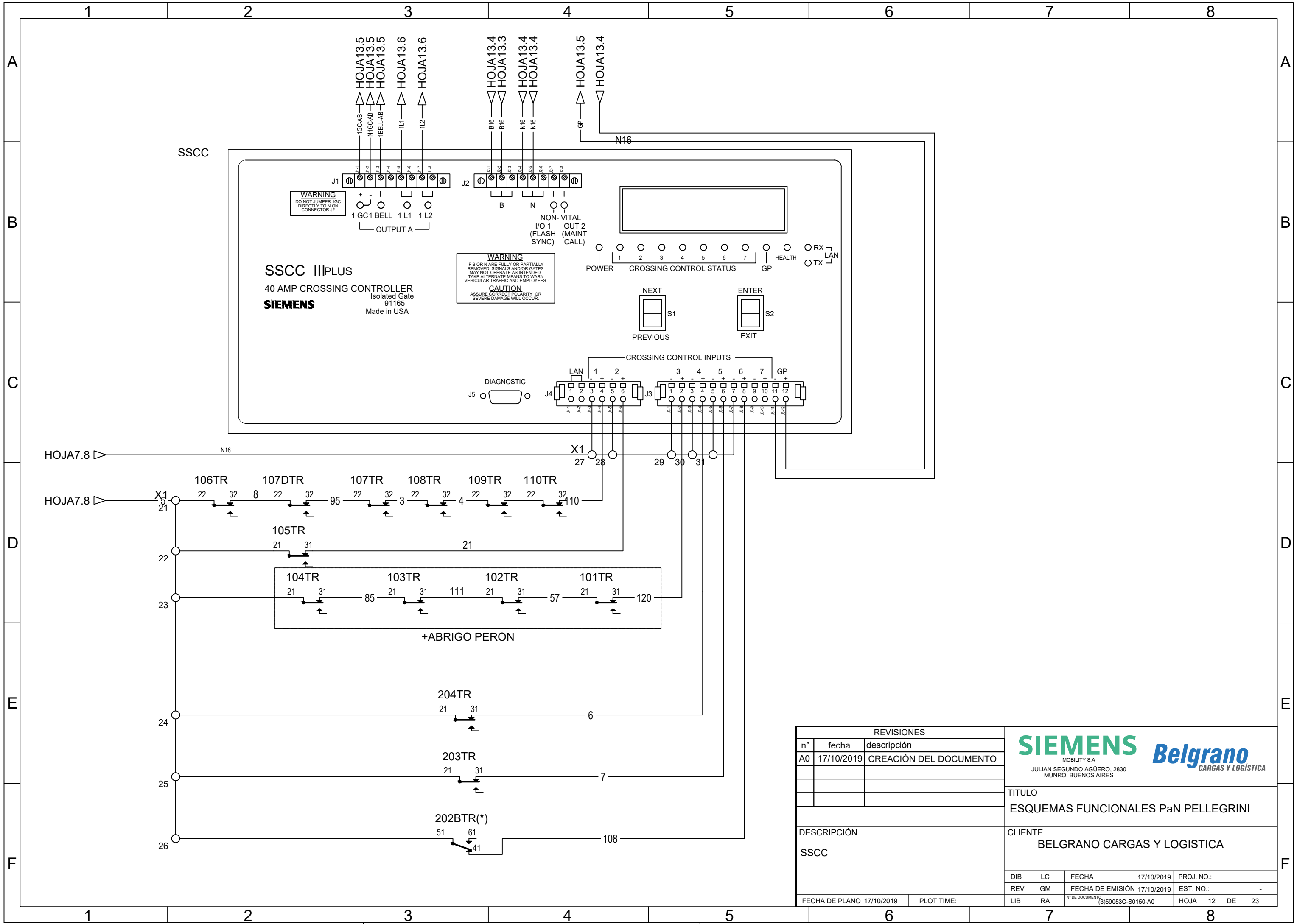
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| DESCRIPCIÓN | | |
| CIRCUITOS DE VÍA | | |
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WARNING
DO NOT JUMPER IGC DIRECTLY TO N ON CONNECTOR J2

SSCC IIPLUS
40 AMP CROSSING CONTROLLER
Isolated Gate
91165
SIEMENS
Made in USA

WARNING
IF B OR N ARE FULLY OR PARTIALLY REMOVED, SIGNALS AND/OR GATES MAY NOT OPERATE AS INTENDED. TAKE ALTERNATE MEANS TO WARN VEHICULAR TRAFFIC AND EMPLOYEES.
CAUTION
ASSURE CORRECT POLARITY OR SEVERE DAMAGE WILL OCCUR.

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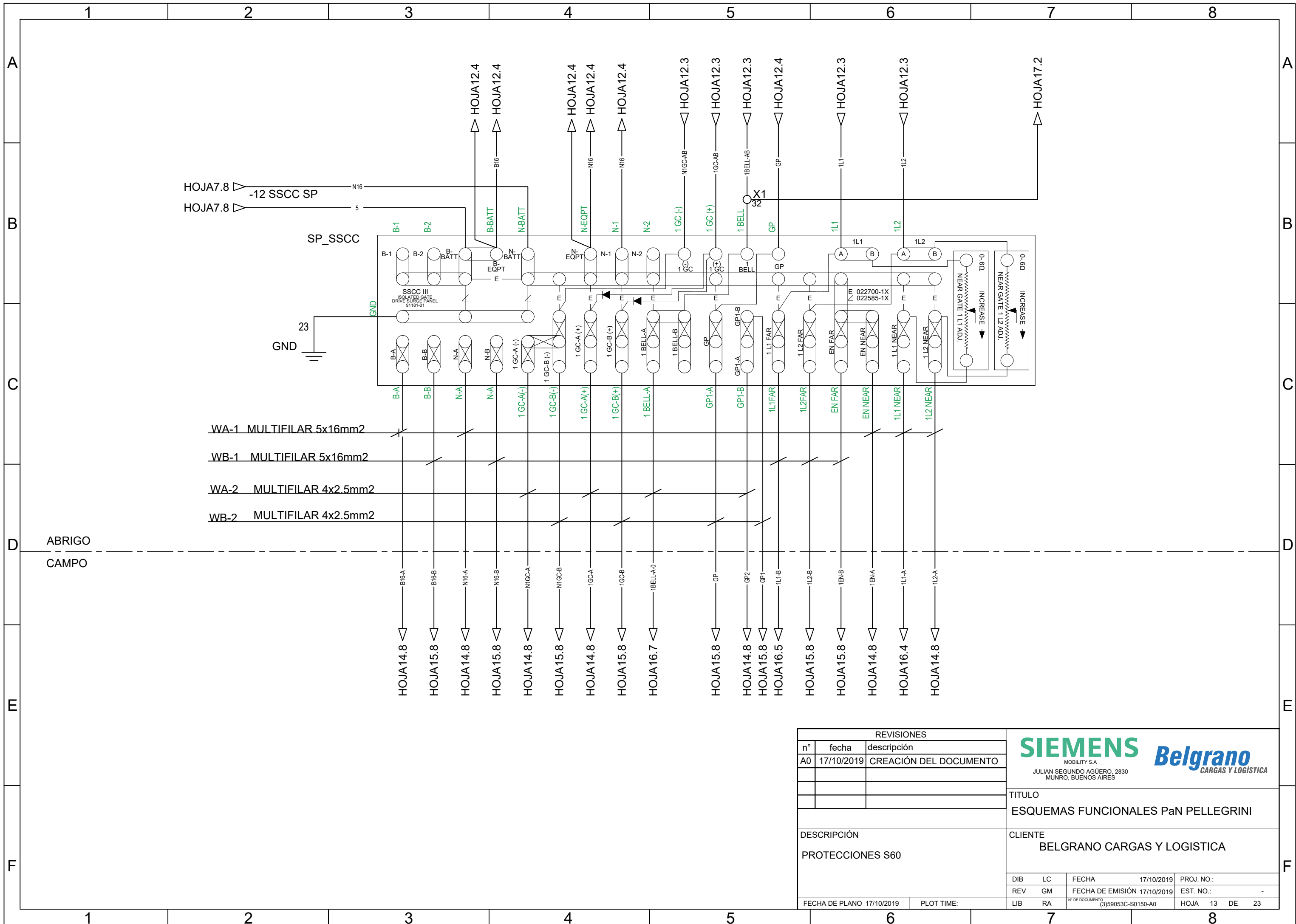
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DESCRIPCIÓN
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| PROTECCIONES S60 | | |
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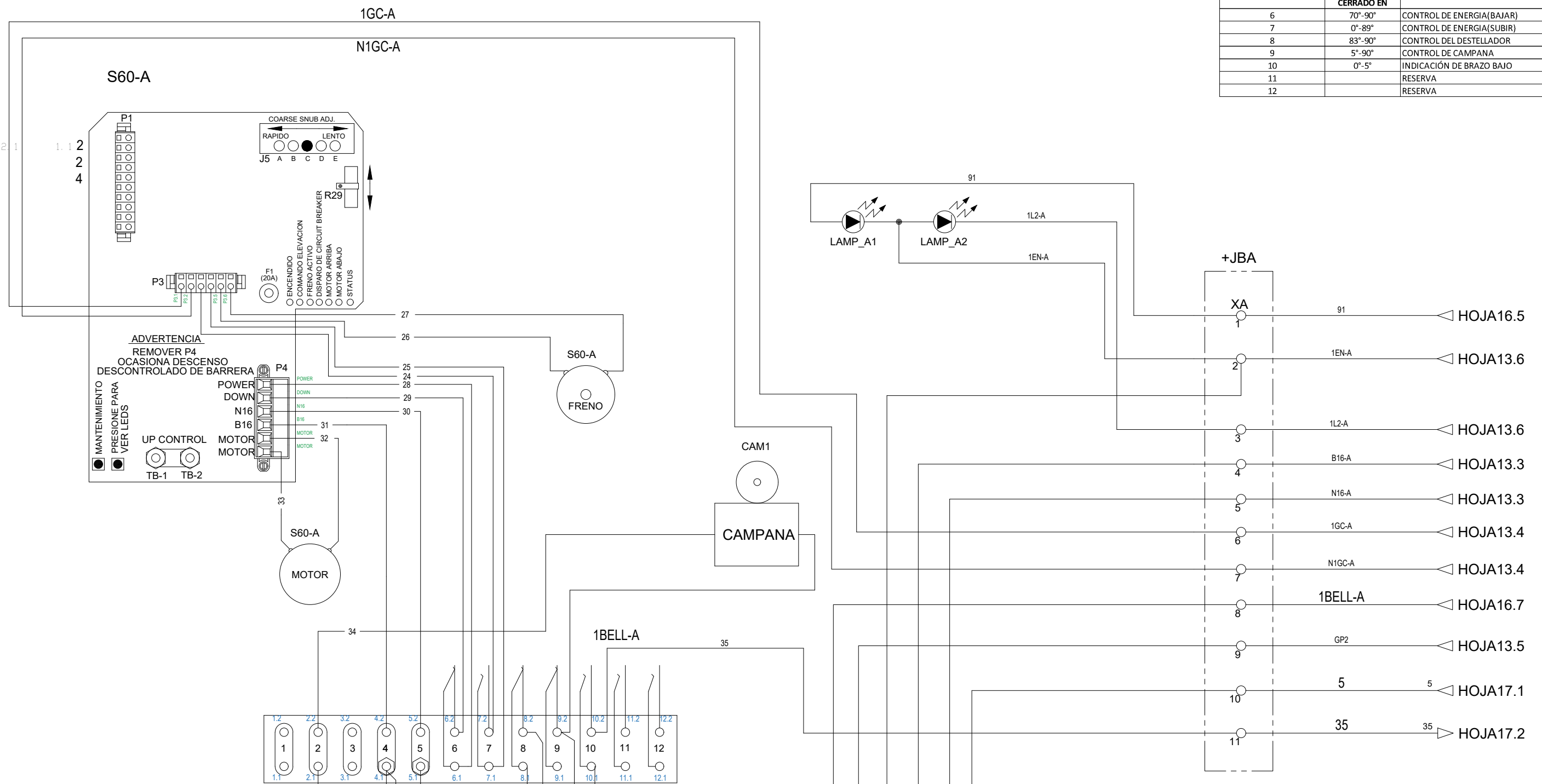
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| ACCIONAMIENTO DE BARRERA "S60" | | |
|--------------------------------|---------------------|---------------------------|
| CONTACTO | CONTACTO CERRADO EN | FUNCIÓN DEL CONTACTO |
| 6 | 70°-90° | CONTROL DE ENERGIA(BAJAR) |
| 7 | 0°-89° | CONTROL DE ENERGIA(SUBIR) |
| 8 | 83°-90° | CONTROL DEL DESTELLADOR |
| 9 | 5°-90° | CONTROL DE CAMPANA |
| 10 | 0°-5° | INDICACIÓN DE BRAZO BAJO |
| 11 | | RESERVA |
| 12 | | RESERVA |



ADVERTENCIA
 REMOVER P4
 OCASIONA DESCENSO
 DESCONTROLADO DE BARRERA

MANTENIMIENTO
 PRESIONE PARA
 VER LEDS

UP CONTROL
 TB-1 TB-2

POWER DOWN
 N16
 B16
 MOTOR
 MOTOR

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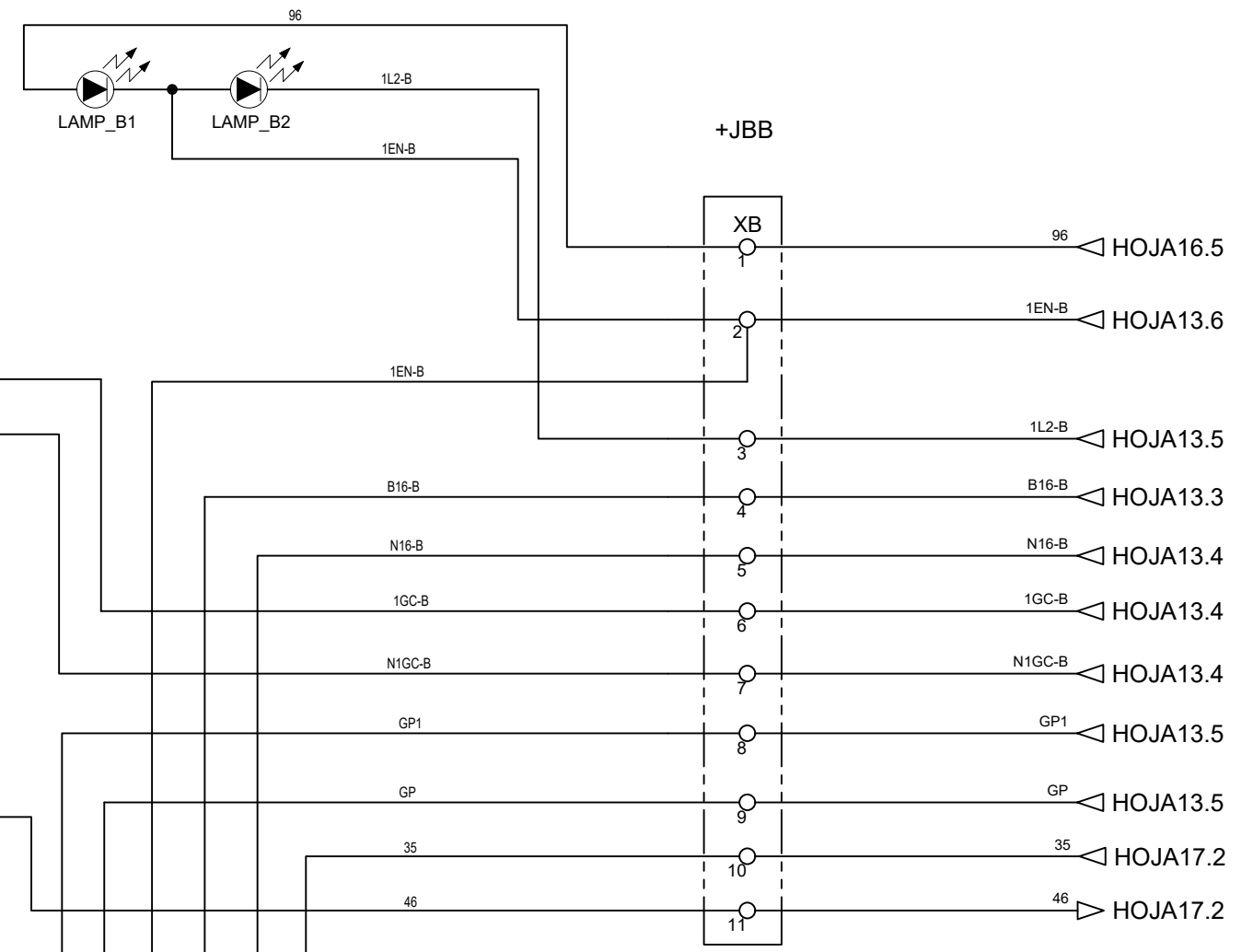
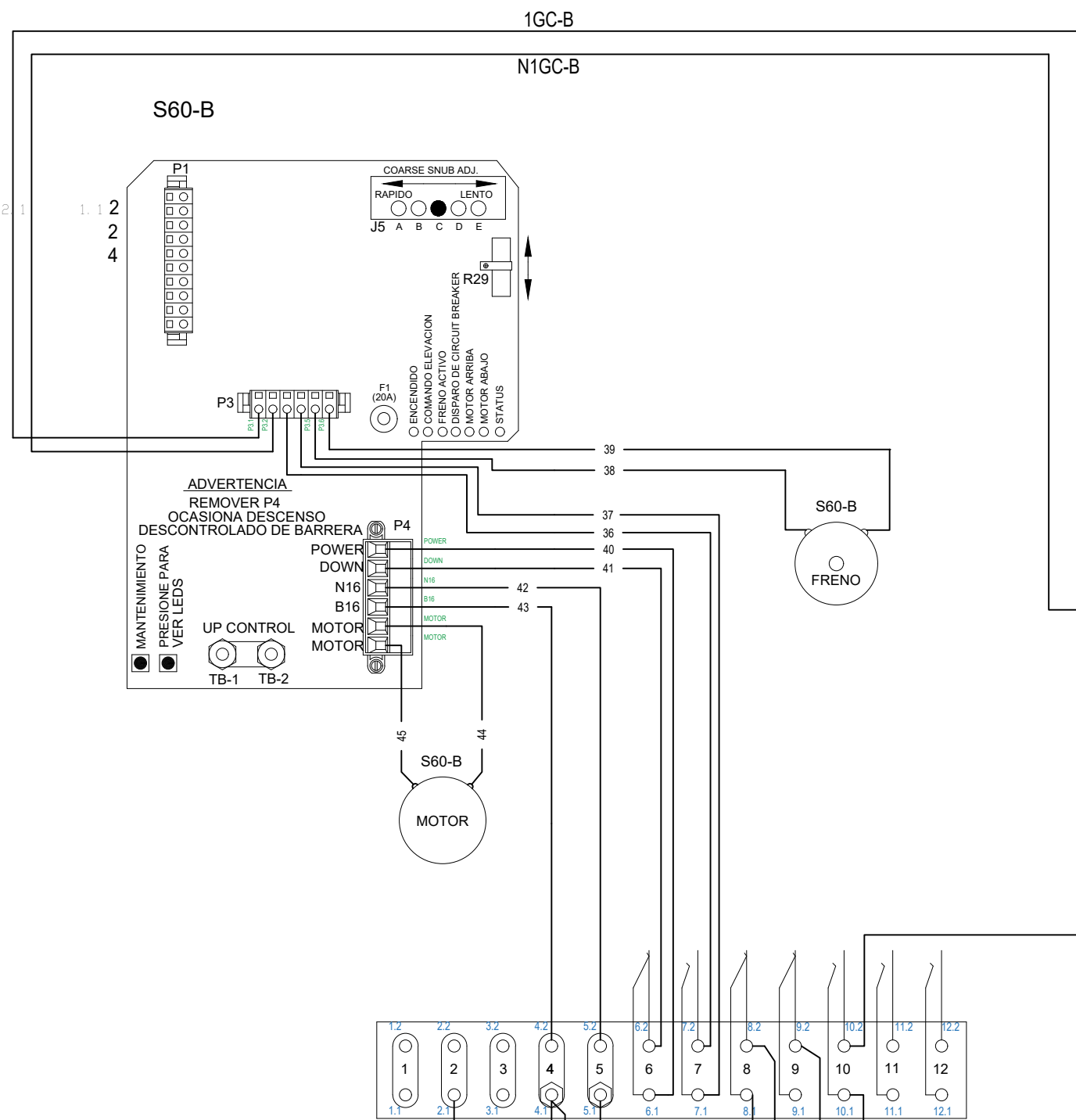
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| ACCIONAMIENTO DE BARRERA "S60" | | |
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| CONTACTO | CONTACTO CERRADO EN | FUNCIÓN DEL CONTACTO |
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| 8 | 83°-90° | CONTROL DEL DESTELLADOR |
| 9 | 5°-90° | CONTROL DE CAMPANA |
| 10 | 0°-5° | INDICACIÓN DE BRAZO BAJO |
| 11 | | RESERVA |
| 12 | | RESERVA |



ADVERTENCIA
 REMOVER P4
 OCASIONA DESCENSO
 DESCONTROLADO DE BARRERA

MANTENIMIENTO
 PRESIONE PARA
 VER LEDS

UP CONTROL
 TB-1 TB-2

POWER DOWN
 N16
 B16
 MOTOR
 MOTOR

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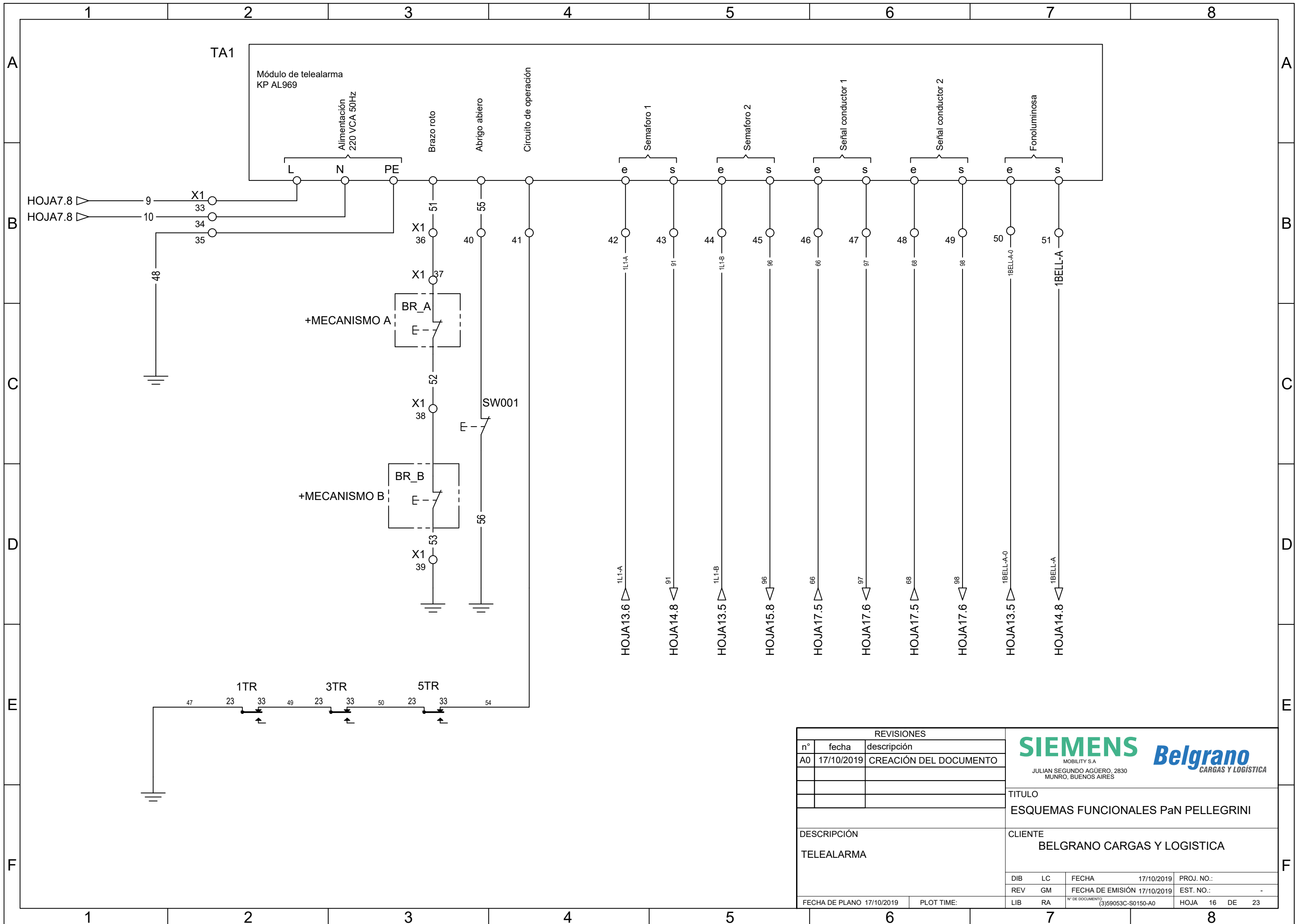
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Listado de componentes y cantidades

| COMPONENTE | CANTIDAD | CATALOGO | DESCRIPCIÓN |
|---|----------|-----------------|-------------|
| 202BTR(*) BELLR1 | 2 | 400000 | |
| F01 | 1 | 400700-7X | |
| 104TR 105TR 106TR 107DTR 107TR 203TR 204TR | 7 | 400010 | |
| TRACK SP1 TRACK SP2 | 2 | 8000-80026-0035 | |
| SP_SSCC | 1 | 9000-91170-0001 | |
| SSCC | 1 | 9000-91190-1101 | |
| PS01 PS02 | 2 | 4000-44350-006X | |
| RA1.2 RA2.2 RA3.2 RA4.2 RA5.2 RA6.2 RA7.2 | 7 | 029603-2X | |
| R7.1 RA1.1 RA2.1 RA3.1 RA4.1 RA5.1 RA6.1 RA7.1 | 8 | 029603-9X | |

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MOBILITY S.A.
JULIAN SEGUNDO AGÜERO, 2830
MUNRO, BUENOS AIRES

TITULO
ESQUEMAS FUNCIONALES PaN PELLEGRINI


CLIENTE
BELGRANO CARGAS Y LOGISTICA

| | | | | | |
|-----|----|------------------|--------------------|------------|----------|
| DIB | LC | FECHA | 17/10/2019 | PROJ. NO.: | |
| REV | GM | FECHA DE EMISIÓN | 17/10/2019 | EST. NO.: | - |
| LIB | RA | N° DE DOCUMENTO | (3)59053C-S0150-A0 | HOJA | 19 DE 23 |

FECHA DE PLANO 17/10/2019 PLOT TIME:

Listado de cables y tipos

| # multiconductor | tipo |
|------------------|-------------------------|
| W100 | Multiconductor 2 X 6mm2 |
| W200 | Multiconductor 2 X 6mm2 |
| W300 | Multiconductor 2 X 6mm2 |
| W400 | Multiconductor 2 X 6mm2 |
| W500 | Multiconductor 2 X 6mm2 |
| W600 | Multiconductor 2 X 6mm2 |
| W700 | Multiconductor 2 X 6mm2 |
| WA-1 | MULTIFILAR 5x16mm2 |
| WA-2 | MULTIFILAR 4x2.5mm2 |
| WB-1 | MULTIFILAR 5x16mm2 |
| WB-2 | MULTIFILAR 4x2.5mm2 |
| WSC1 | Multifilar 2 x 2.5mm2 |
| WSC2 | Multifilar 2 x 2.5mm2 |

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| DESCRIPCIÓN | | | |
| LISTADO DE CABLES Y TIPO | | | |
| FECHA DE PLANO 17/10/2019 | | | PLOT TIME: |
|  <small>MOBILITY S.A. JULIAN SEGUNDO AGÜERO, 2830 MUNRO, BUENOS AIRES</small> | | TITULO | |
| | | ESQUEMAS FUNCIONALES PaN PELLEGRINI | |
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| | | PROJ. NO.: | |
| | | EST. NO.: | - |
| | | HOJA | 20 DE 23 |

LISTADO DE CABLES DESDE HASTA

| #CABLE | COMPONENTE 1 | PIN1 | COMPONENTE 2 | PIN2 |
|--------|------------------|----------|--------------|----------|
| 1 | X1 | 1 | T03 | |
| 1 | X1 | 1 | T01 | |
| 1 | BELL-A TA1 | | X1 | 51 |
| 1 | BELL-A-0 TA1 | | X1 | 50 |
| 1 | BELL-A-0 SP_SSCC | 1 BELL-A | X1 | 50 |
| 1 | BELL-AB X1 | 32 | X1 | 54 |
| 1 | BELL-AB X1 | 32 | SP_SSCC | 1 BELL |
| 1 | BELL-AB X1 | 54 | BELLR1 | 3E |
| 1 | BELL-AB X1 | 54 | BELLR1 | 22 |
| 1 | BELL-AB SSCC | J1-3 | X1 | 32 |
| 1 | GC-AB SSCC | J1-1 | SP_SSCC | 1 GC (+) |
| 1 | L1 SSCC | J1-5 | SP_SSCC | 1L1 |
| 1 | L1-A TA1 | | X1 | 42 |
| 1 | L1-A SP_SSCC | 1L1 NEAR | X1 | 42 |
| 1 | L1-B TA1 | | X1 | 44 |
| 1 | L1-B SP_SSCC | 1L1FAR | X1 | 44 |
| 1 | L2 SSCC | J1-7 | SP_SSCC | 1L2 |
| 2 | X1 | 4 | T03 | |
| 2 | X1 | 4 | T01 | |
| 3 | T01 | | X1 | 2 |
| 3 | X1 | 2 | CB1 | L |
| 4 | CB1 | + | X1 | 3 |
| 4 | X1 | 3 | BT1 | |
| 5 | BT1 | | X1 | 6 |
| 5 | CB1 | - | X1 | 7 |
| 5 | CB1 | - | X1 | 6 |
| 5 | X1 | 7 | X1 | 21 |
| 5 | X1 | 7 | X1 | 8 |
| 5 | X1 | 8 | SP_SSCC | |
| 5 | X1 | 8 | X1 | 9 |
| 5 | X1 | 9 | X1 | 52 |
| 5 | X1 | 9 | X1 | 10 |
| 5 | X1 | 10 | X1 | 19 |
| 5 | X1 | 10 | X1 | 11 |
| 5 | X1 | 11 | X1 | 55 |
| 5 | X1 | 19 | PS01 | |
| 5 | X1 | 19 | PS02 | |
| 5 | X1 | 21 | 106TR | 22 |
| 5 | X1 | 21 | X1 | 22 |
| 5 | X1 | 22 | 105TR | 21 |
| 5 | X1 | 22 | X1 | 23 |
| 5 | X1 | 23 | X1 | 24 |
| 5 | X1 | 24 | 204TR | 21 |
| 5 | X1 | 24 | X1 | 25 |
| 5 | X1 | 25 | 203TR | 21 |
| 5 | X1 | 25 | X1 | 26 |
| 5 | X1 | 26 | 202BTR(*) | 51 |
| 5 | X1 | 52 | F01 | |
| 6 | 204TR | 31 | SSCC | J3-4 |
| 7 | PS01 | | 107TR | 1E |

| #CABLE | COMPONENTE 1 | PIN1 | COMPONENTE 2 | PIN2 |
|--------|--------------|------|--------------|------|
| 7 | 107TR | 1E | TRACK SP1 | |
| 7 | 203TR | 31 | SSCC | J3-6 |
| 8 | 106TR | 32 | 107DTR | 22 |
| 9 | T03 | | X1 | 17 |
| 9 | X1 | 17 | X1 | 33 |
| 9 | X1 | 33 | TA1 | |
| 10 | T03 | | X1 | 18 |
| 10 | X1 | 18 | X1 | 34 |
| 10 | X1 | 34 | TA1 | |
| 21 | 105TR | 31 | SSCC | J4-6 |
| 46 | F01 | | X1 | 53 |
| 47 | | | 1TR | 23 |
| 48 | | | X1 | 35 |
| 48 | X1 | 35 | TA1 | |
| 49 | 1TR | 33 | 3TR | 23 |
| 50 | 3TR | 33 | 5TR | 23 |
| 51 | TA1 | | X1 | 36 |
| 51 | X1 | 36 | X1 | 37 |
| 53 | X1 | 39 | | |
| 54 | TA1 | | X1 | 41 |
| 54 | 5TR | 33 | X1 | 41 |
| 55 | TA1 | | X1 | 40 |
| 55 | X1 | 40 | SW001 | |
| 56 | SW001 | | | |
| 60 | 204TR | 32 | 202BTR(*) | 21 |
| 61 | BELLR1 | 32 | F01 | 3E |
| 64 | 1TR | 41 | BELLR1 | 21 |
| 65 | 5TR | 41 | BELLR1 | 23 |
| 66 | TA1 | | X1 | 46 |
| 66 | BELLR1 | 31 | X1 | 46 |
| 68 | TA1 | | X1 | 48 |
| 68 | BELLR1 | 33 | X1 | 48 |
| 70 | 202BTR(*) | 31 | 202BTR(*) | 1E |
| 74 | 107DTR | 1E | TRACK SP1 | |
| 75 | PS01 | | 106TR | 1E |
| 75 | 106TR | 1E | TRACK SP1 | |
| 76 | PS01 | | 105TR | 1E |
| 76 | 105TR | 1E | TRACK SP1 | |
| 77 | PS02 | | 104TR | 1E |
| 77 | 104TR | 1E | TRACK SP2 | |
| 84 | PS02 | | PS02 | |
| 84 | PS02 | | 204TR | 1E |
| 84 | 204TR | 1E | TRACK SP2 | |
| 86 | PS02 | | 203TR | 1E |
| 86 | 203TR | 1E | TRACK SP2 | |
| 87 | PS01 | | RA1.1 | |
| 91 | TA1 | | X1 | 43 |
| 93 | PS01 | | RA2.1 | |
| 94 | PS01 | | RA3.1 | |
| 95 | 107DTR | 32 | 107TR | 22 |

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| LISTA DESDE HASTA | | |
| FECHA DE PLANO | 17/10/2019 | PLOT TIME: |




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| TITULO | | | |
| ESQUEMAS FUNCIONALES PaN PELLEGRINI | | | |
| CLIENTE | | | |
| BELGRANO CARGAS Y LOGISTICA | | | |
| DIB | LC | FECHA | 17/10/2019 |
| REV | GM | FECHA DE EMISIÓN | 17/10/2019 |
| LIB | RA | N° DE DOCUMENTO | (3)59053C-S0150-A0 |
| PROJ. NO.: | EST. NO.: | HOJA | 21 DE 23 |

LISTADO DE CABLES DESDE HASTA

| #CABLE | COMPONENTE 1 | PIN1 | COMPONENTE 2 | PIN2 |
|---------|--------------|--------|--------------|----------|
| 96 | TA1 | | X1 | 45 |
| 97 | TA1 | | X1 | 47 |
| 97 | X1 | 47 | X1 | 57 |
| 98 | TA1 | | X1 | 49 |
| 98 | X1 | 49 | X1 | 59 |
| 99 | PS01 | | RA4.1 | |
| 100 | PS02 | | RA5.1 | |
| 101 | PS02 | | RA6.1 | |
| 102 | PS02 | | RA7.1 | |
| 103 | PS02 | | R7.1 | |
| 104 | RA1.1 | | RA1.2 | |
| 104 | RA1.2 | | TRACK SP1 | |
| 108 | 202BTR(*) | 41 | SSCC | J3-8 |
| 109 | RA2.1 | | RA3.1 | |
| 109 | RA3.1 | | RA4.1 | |
| 109 | RA4.1 | | RA2.2 | |
| 109 | RA2.2 | | RA3.2 | |
| 109 | RA3.2 | | RA4.2 | |
| 109 | RA4.2 | | TRACK SP1 | |
| 109 | TRACK SP1 | | TRACK SP1 | |
| 109 | TRACK SP1 | | TRACK SP1 | |
| 112 | RA7.1 | | RA7.2 | |
| 112 | RA7.2 | | TRACK SP2 | |
| 112 | RA6.1 | | R7.1 | |
| 112 | R7.1 | | RA6.2 | |
| 112 | RA6.2 | | TRACK SP2 | |
| 112 | RA5.1 | | RA5.2 | |
| 112 | RA5.2 | | TRACK SP2 | |
| 113 | 107TR | 3E | RA1.2 | |
| 114 | 104TR | 3E | RA5.2 | |
| 115 | 107DTR | 3E | RA2.2 | |
| 116 | 204TR | 3E | RA6.2 | |
| 117 | 106TR | 3E | RA3.2 | |
| 118 | 203TR | 3E | RA7.2 | |
| 119 | 105TR | 3E | RA4.2 | |
| B16 | SP_SSCC | B-BATT | SSCC | J2-2 |
| B16 | SP_SSCC | B-BATT | SSCC | J2-1 |
| GP | SSCC | J3-12 | SP_SSCC | GP |
| N1GC-AB | SSCC | J1-2 | SP_SSCC | 1 GC (-) |
| N16 | T01 | | X1 | 5 |
| N16 | F01 | 1E | X1 | 56 |
| N16 | BELLR1 | 1E | X1 | 56 |
| N16 | X1 | 5 | CB1 | N |
| N16 | X1 | 12 | X1 | 20 |
| N16 | X1 | 12 | X1 | 13 |
| N16 | X1 | 12 | 202BTR(*) | 3E |
| N16 | X1 | 13 | X1 | 27 |
| N16 | X1 | 13 | X1 | 14 |
| N16 | X1 | 14 | SP_SSCC | N-BATT |
| N16 | X1 | 14 | X1 | 15 |

| #CABLE | COMPONENTE 1 | PIN1 | COMPONENTE 2 | PIN2 |
|--------|--------------|--------|--------------|-------|
| N16 | X1 | 15 | X1 | 56 |
| N16 | X1 | 15 | X1 | 16 |
| N16 | X1 | 16 | X1 | 60 |
| N16 | X1 | 20 | PS01 | |
| N16 | X1 | 20 | PS02 | |
| N16 | X1 | 27 | X1 | 28 |
| N16 | X1 | 28 | X1 | 29 |
| N16 | X1 | 29 | X1 | 30 |
| N16 | X1 | 30 | X1 | 31 |
| N16 | X1 | 31 | SSCC | J3-7 |
| N16 | X1 | 58 | X1 | 60 |
| N16 | SSCC | J3-1 | X1 | 29 |
| N16 | SSCC | J3-3 | X1 | 30 |
| N16 | SSCC | J3-5 | X1 | 31 |
| N16 | SSCC | J4-3 | X1 | 27 |
| N16 | SSCC | J4-5 | X1 | 28 |
| N16 | CB1 | N | X1 | 12 |
| N16 | SP_SSCC | N-1 | SSCC | J3-11 |
| N16 | SP_SSCC | N-EQPT | SSCC | J2-5 |
| N16 | SP_SSCC | N-EQPT | SSCC | J2-4 |

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TITULO
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CLIENTE
BELGRANO CARGAS Y LOGISTICA

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| DIS | LC | FECHA | 17/10/2019 | PROJ. NO.: | |
| REV | GM | FECHA DE EMISIÓN | 17/10/2019 | EST. NO.: | - |
| DIB | RA | N° DE DOCUMENTO | (3)59053C-S0150-A0 | HOJA | 22 DE 23 |

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