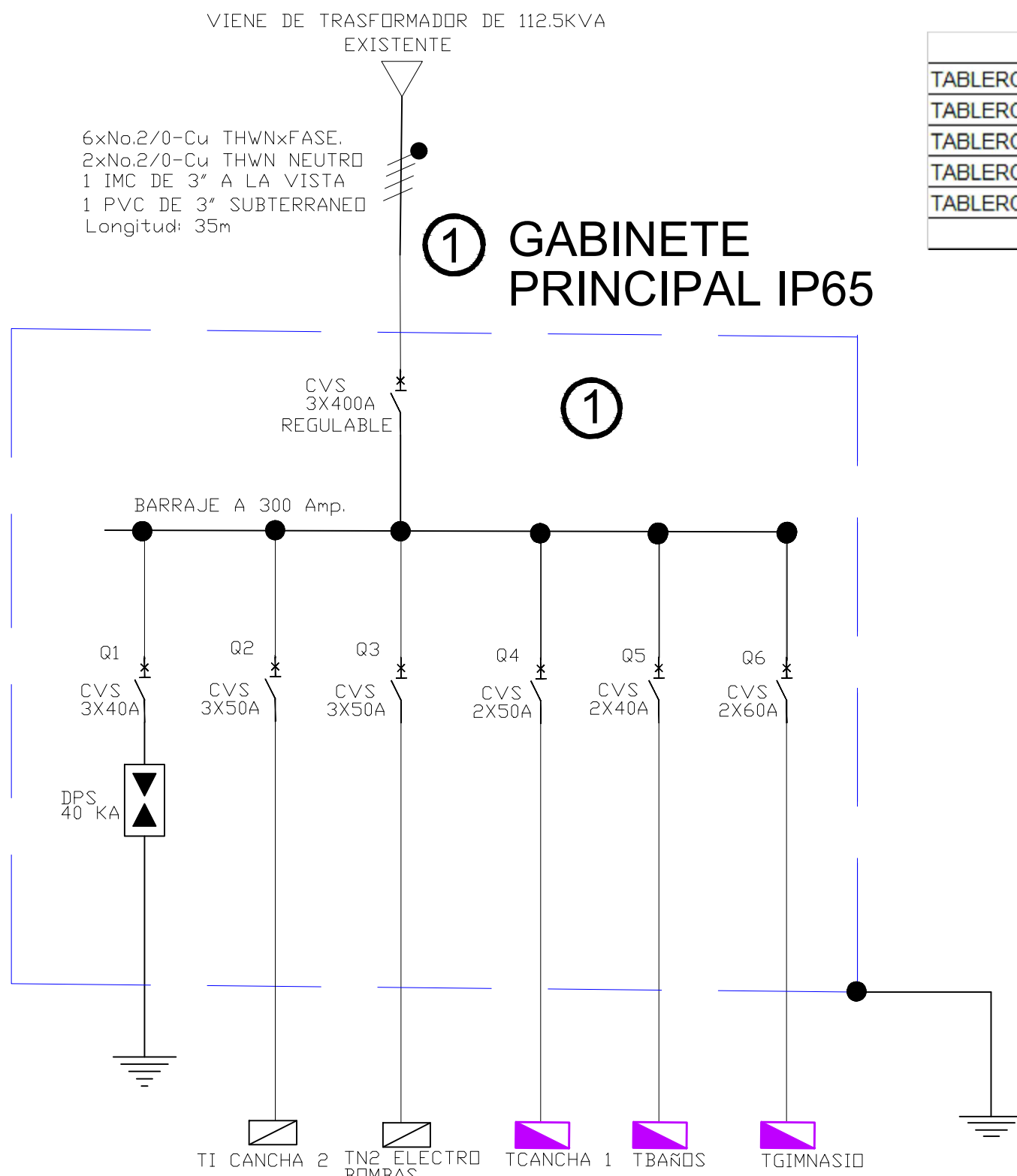


① GABINETE PRINCIPAL IP65



| CIRCUITO                      | CONDUCTOR | K(v/ampx100m) | DISTANCIA(m) | D. MAX.(W) | CORRIENTE(amp) |
|-------------------------------|-----------|---------------|--------------|------------|----------------|
| TABLERO ILUMINACIÓN CANCHA 2. | 4         | 0,0021        | 90,0         | 9.663      | 25,39          |
| TABLERO ELECTROBOMBAS         | 4         | 0,0021        | 90,0         | 7.460      | 19,60          |
| TABLERO ILUMINACIÓN CANCHA 1. | 6         | 0,0052        | 50,0         | 3.750      | 17,05          |
| TABLERO GIMNASIO              | 4         | 0,0021        | 10,0         | 15.000     | 68,18          |
| TABLERO BAÑOS                 | 8         | 0,0049        | 10,0         | 3.000      | 13,64          |
| TOTAL                         |           |               |              | 38.873     |                |

| TRANSFORMADOR                |                                       |
|------------------------------|---------------------------------------|
| CARGA TOTAL INSTALADA        | 43.193 VA                             |
| CORRIENTE                    | 296                                   |
| TRANSFORMADOR                | 112,5 KVA                             |
| ACOMETIDA                    | 2XNo 2/0 (F) + 2XCu No2/0 (N) Cu THHN |
| PROTECCION                   | 3 X400 AMP                            |
| KVA RESERVA DE TRANSFORMADOR | 69.307 KVA                            |

② TABLERO DE ILUMINACIÓN

| CTO       |                        |                        |                        |                             |                             |                   |                           |                                     | TOMAS |     | POTENCIA | VOLTAJE | CORRIENTE | PROTECCION | CONDUCTOR           | DUCTO              | OBSERVACIONES                                 |
|-----------|------------------------|------------------------|------------------------|-----------------------------|-----------------------------|-------------------|---------------------------|-------------------------------------|-------|-----|----------|---------|-----------|------------|---------------------|--------------------|-----------------------------------------------|
|           | LUMINARIA LED RD (18w) | LUMINARIA LED RD (24w) | LUMINARIA LED RD (30w) | LUMINARIA LED HIGH BAY 100W | LUMINARIA LED HIGH BAY 110W | LED TORTUGA (12w) | LED HEMERGENCIA R3 (2X1w) | LED HEMERGENCIA AVISO SALIDA (1,8w) | 127   | 220 | (VA)     | (Volt)  | (Amp)     | ITM        | (AWG)               | (AWG)              |                                               |
| TH-C1     |                        |                        |                        |                             |                             |                   |                           |                                     | 4     |     | 400      | 127     | 3,1       | 1 X 20 A   | No 12 LSHF          | PVC 1/2"           | Toma Cancha                                   |
| TH-C2     |                        |                        |                        |                             |                             |                   |                           |                                     | 4     |     | 400      | 127     | 3,1       | 1 X 20 A   | No 12 LSHF          | PVC 1/2"           | Toma Vestidores                               |
| TH-C3-5   |                        |                        |                        |                             |                             | 4                 |                           |                                     |       | 220 | 440      | 220     | 2,0       | 1 X 16 A   | No 12 LSHF          | EMT (1"-3/4")      | Luces Cancha                                  |
| TH-C4-6   |                        |                        |                        |                             |                             | 4                 |                           |                                     |       | 220 | 440      | 220     | 2,0       | 1 X 16 A   | No 12 LSHF          | EMT (1"-3/4")      | Luces Cancha                                  |
| TH-C7-9   |                        |                        |                        |                             |                             | 4                 |                           |                                     |       | 220 | 440      | 220     | 2,0       | 1 X 16 A   | No 12 LSHF          | EMT (1"-3/4")      | Luces Cancha                                  |
| TH-C8-10  |                        |                        |                        |                             |                             |                   |                           |                                     |       | 220 | 440      | 220     | 2,0       | 1 X 16 A   | No 12 LSHF          | EMT (1"-3/4")      | Luces Cancha                                  |
| TH-C11-13 |                        |                        |                        |                             |                             | 4                 |                           |                                     |       |     | 440      | 220     | 2,0       | 1 X 16 A   | No 12 LSHF          | EMT (1"-3/4")      | Luces Cancha                                  |
| TH-C12-14 |                        |                        |                        |                             |                             | 3                 |                           |                                     |       |     | 330      | 220     | 1,5       | 1 X 16 A   | No 12 LSHF          | EMT (1"-3/4")      | Luces Acceso 2.                               |
| TH-C15-17 |                        |                        |                        |                             |                             | 4                 |                           |                                     |       |     | 440      | 220     | 2,0       | 1 X 16 A   | No 12 LSHF          | EMT (1"-3/4")      | Luces Gradas                                  |
| TH-C16    | 9                      | 4                      | 6                      |                             |                             |                   | 2                         | 2                                   | 1     |     | 467,8    | 127     | 3,7       | 1 X 20 A   | No 12 LSHF          | PVC 1/2"           | Luces Vestidores 2 Baños Damas                |
| TH-C17    | 9                      | 8                      | 6                      |                             |                             | 1                 |                           | 1                                   |       |     | 451,8    | 127     | 4,3       | 1 X20 A    | No 12 LSHF          | PVC 1/2"           | Luces Vestidores1 Baños Caballeros y Acceso 1 |
| TH-C18-20 |                        |                        |                        |                             |                             |                   |                           |                                     | 1     |     | 2000     | 220     | 13,6      | 2X30 A     | No 10 LSHF          | PVC 3/4"           | Toma 220 voltios Cancha.                      |
| TH-C19-21 |                        |                        |                        |                             |                             |                   |                           |                                     | 1     |     | 2047,8   | 220     | 13,4      | 2X30 A     | No 8 THHN/THWN      | PVC 1"             | Alimentador Tablero TN batería sanitaria.     |
| RESERVAS  |                        |                        |                        |                             |                             |                   |                           |                                     |       |     |          |         |           |            |                     |                    | Libres                                        |
| TOTAL     | 18                     | 12                     | 12                     | 0                           | 27                          |                   | 4                         | 2                                   | 8     | 2   | 10737,4  | 220     | 26,2      | 3X 56A     | 3X4+4+10T THHN/THWN | 1 1/2" (IMC / PVC) | Alimentador                                   |

③ TABLERO NORMAL BATERÍA SANITARIA Y ZONA DE VALORACIÓN DEPORTIVA

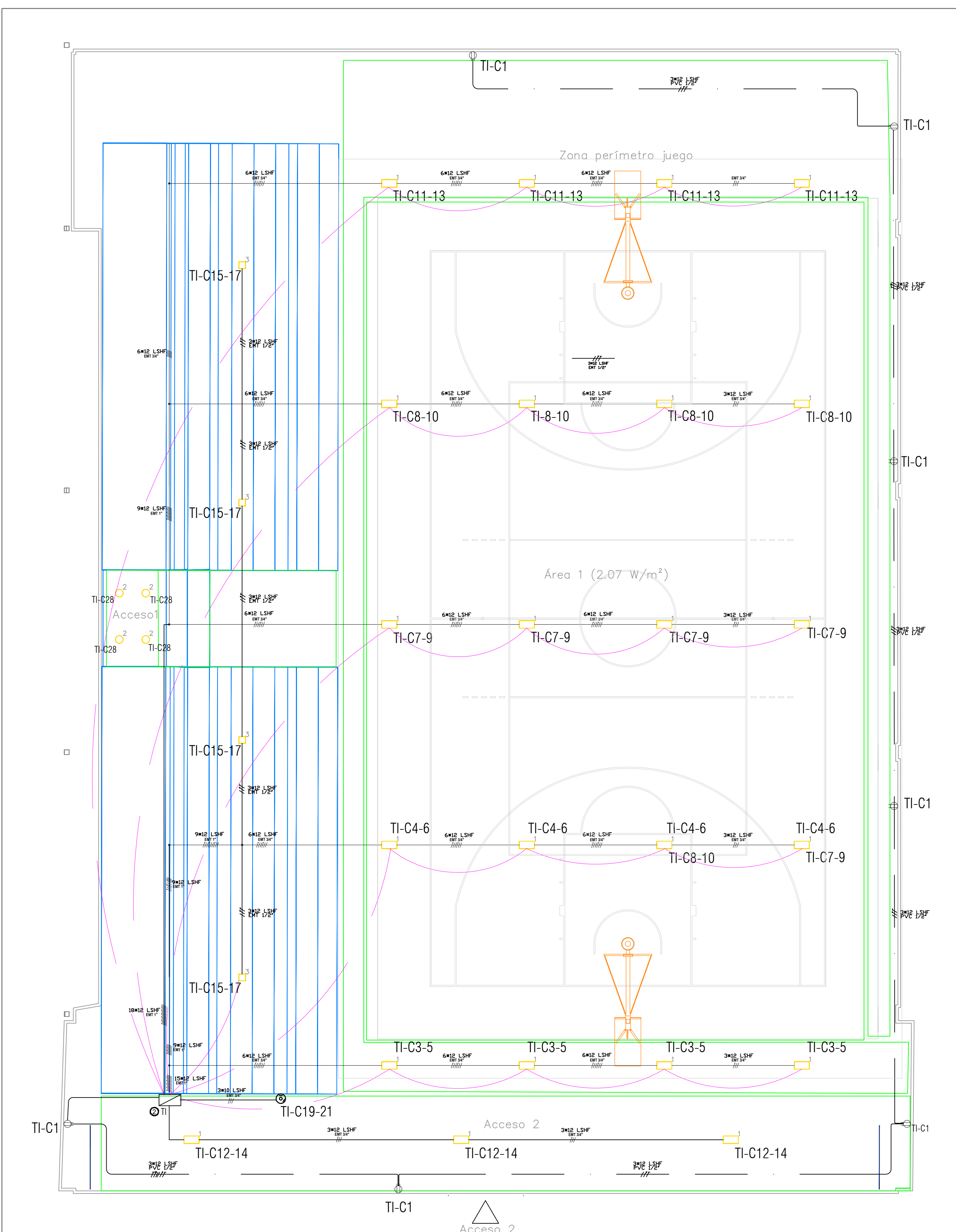
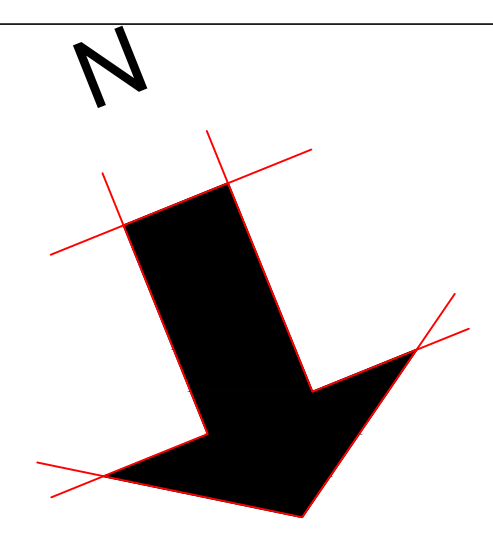
| CUADRO DE CARGAS TABLERO NORMAL BATERÍA SANITARIA |                        |                        |                        |                             |                             |                           |                                     |       |     |          |         |           |            |                     |          |                                          |
|---------------------------------------------------|------------------------|------------------------|------------------------|-----------------------------|-----------------------------|---------------------------|-------------------------------------|-------|-----|----------|---------|-----------|------------|---------------------|----------|------------------------------------------|
| CTO                                               |                        |                        |                        |                             |                             |                           |                                     | TOMAS |     | POTENCIA | VOLTAJE | CORRIENTE | PROTECCION | CONDUCTOR           | DUCTO    | OBSERVACIONES                            |
|                                                   | LUMINARIA LED RD (15w) | LUMINARIA LED RD (24w) | LUMINARIA LED RD (30w) | LUMINARIA LED HIGH BAY 100W | LUMINARIA LED HIGH BAY 110W | LED HEMERGENCIA R3 (2X1w) | LED HEMERGENCIA AVISO SALIDA (1,8w) | 127   | 220 | (VA)     | (Volt)  | (Amp)     | ITM        | (AWG)               | (AWG)    |                                          |
| TH-C1                                             | 14                     |                        |                        |                             |                             |                           |                                     | 4     |     | 652      | 127     | 5,1       | 1 X 20 A   | No 12 LSHF          | PVC 1/2" | Luces                                    |
| TH-C2                                             | 9                      |                        |                        |                             |                             |                           |                                     | 4     |     | 562      | 127     | 4,4       | 1 X 20 A   | No 12 LSHF          | PVC 1/2" | Luces                                    |
| TH-C3                                             |                        |                        | 6                      |                             |                             | 1                         | 1                                   | 3     |     | 451,8    | 220     | 2,2       | 1 X 20 A   | No 12 LSHF          | PVC 1/2" | Luces y Tomas                            |
| TH-C4-6                                           |                        |                        |                        |                             |                             |                           |                                     |       |     |          |         |           |            |                     |          | A.A Zona de Valoración Deportiva. Libres |
| TH-C7-9                                           |                        |                        |                        |                             |                             |                           |                                     |       |     | 1250     | 220     | 5,7       | 2 X20 A    | No 12 LSHF          | PVC 1/2" |                                          |
| RESERVAS                                          |                        |                        |                        |                             |                             |                           |                                     |       |     |          |         |           |            |                     |          |                                          |
| TOTAL                                             | 23                     | 6                      | 6                      | 0                           | 0                           | 1                         | 1                                   | 11    | 1   | 2947,8   | 220     | 7,7       | 2X30A      | 2X0+4+10T THHN/THWN | PVC 1"   | Alimentador                              |

| DESCRIPCION DEL CIRCUITO      | CARGA (W) | TIPO DE CARGA | V (V) | CSA  | EF del Equipo | I (A)  | Tipo de conductor | Temp. Instalación del Conductor | CABLES Cond. del Conductor | No. Cond. en una Fase | NÚM. COND. CTOR | Temperatura ambiente | Factor de correct. de | REA Permisible del conductor 90° C | LONGITUD DEL CONDUCTOR (m) | REGULACION (E %) |
|-------------------------------|-----------|---------------|-------|------|---------------|--------|-------------------|---------------------------------|----------------------------|-----------------------|-----------------|----------------------|-----------------------|------------------------------------|----------------------------|------------------|
| TABLERO PRINCIPAL             | 101.250   | Trifásica     | 220   | 0,90 | 0,95          | 310,77 | Cobre             | 75                              | 2/0                        | 2                     | 175,00          | 31-35                | 0,94                  | 329,00                             | 35,00                      | 1,59             |
| TABLERO ILUMINACIÓN CANCHA 2. | 9.663     | Trifásica     | 220   | 0,90 | 0,95          | 111,4  | Cobre             | 75                              | 2/0                        | 1                     | 85,00           | 31-35                | 0,94                  | 79,90                              | 90,00                      | 2,22             |
| TABLERO ELECTROBOMBAS         | 7.460     | Trifásica     | 240   | 0,90 | 0,95          | 22,04  | Cobre             | 75                              | 2/0                        | 1                     | 85,00           | 31-35                | 0,94                  | 79,90                              | 90,00                      | 1,44             |
| TABLERO ILUMINACIÓN CANCHA 1. | 8.750     | Monofásica    | 220   | 0,90 | 0,95          | 31,00  | Cobre             | 75                              | 6                          | 1                     | 65,00           | 31-35                | 0,94                  | 61,10                              | 25,00                      | 1,88             |
| TABLERO GIMNASIO              | 15.000    | Monofásica    | 220   | 0,90 | 0,95          | 71,59  | Cobre             | 75                              | 4                          | 1                     | 85,00           | 31-35                | 0,94                  | 79,90                              | 10,00                      | 1,13             |
| TABLERO BAÑOS                 | 8.000     | Monofásica    | 220   | 0,90 | 0,95          | 14,32  | Cobre             | 75                              | 8                          | 1                     | 50,00           | 31-35                | 0,94                  | 47,00                              | 10,00                      | 0,54             |

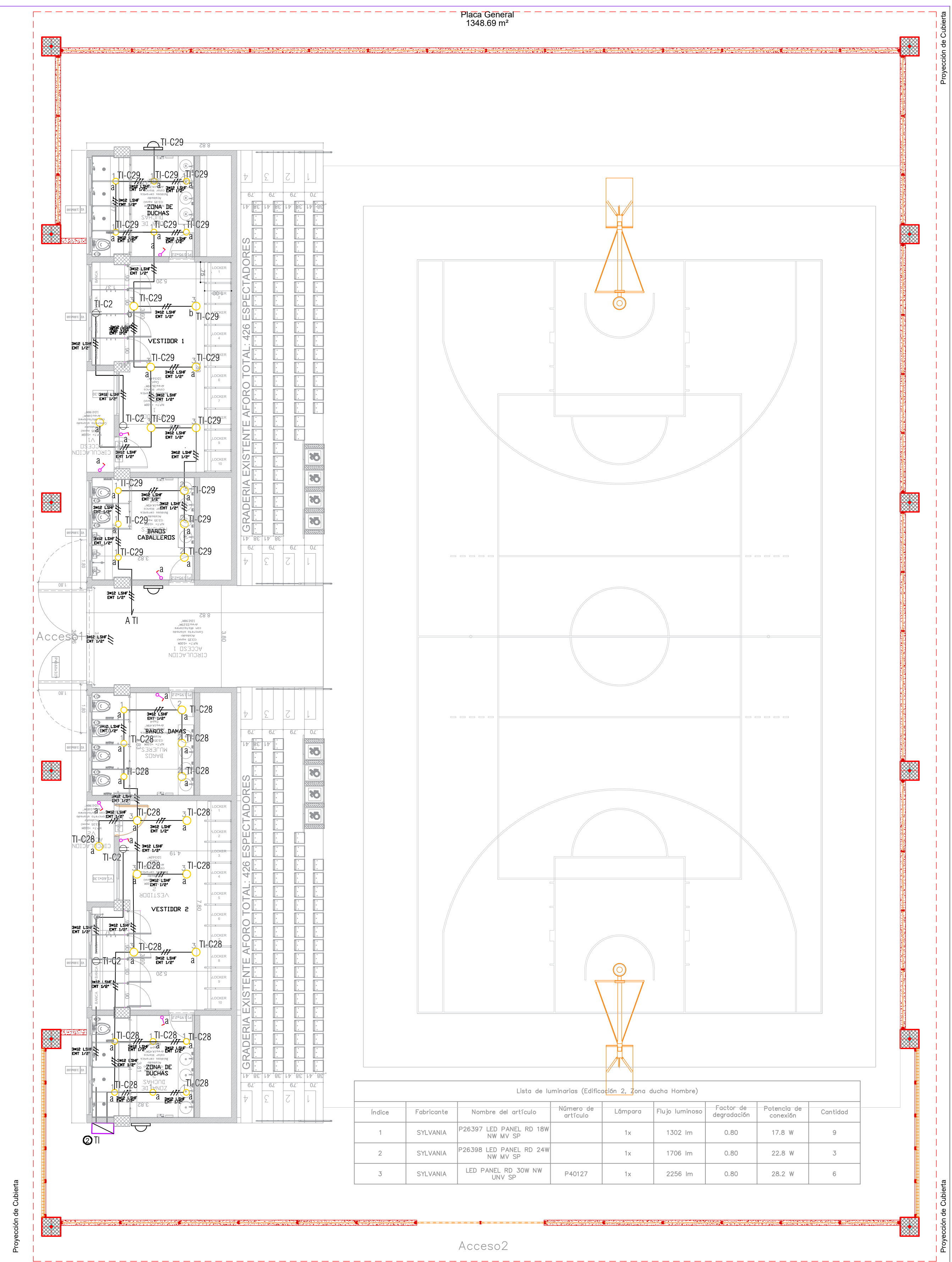
ACOMETIDA 8 x N° 2/0 THWN DESDE EL POSTE HASTA EL GABINETE PRINCIPAL.

ALIMENTADOR, 4X4 + 10 T CU THWN DESDE GABINETE PRINCIPAL HASTA TABLERO CANCHA 2.

| Cable Monopolar |        |            |          |                 |
|-----------------|--------|------------|----------|-----------------|
| N°              | Cables | Asistencia | Cantidad | Diámetro*<br>mm |
| 1               | 12     | Tras 60V   | 0        | 14,05           |
| 2               | 10     | Tras 60V   | 0        | 13,09           |
| 3               | 10     | Tras 60V   | 0        | 13,09           |
| 4               | 10     | Tras 60V   | 0        | 13,09           |
| 5               | 10     | Tras 60V   | 0        | 13,09           |
| 6               | 10     | Tras 60V   | 0        | 13,09           |
| 7               | 10     | Tras 60V   | 0        | 13,09           |
| 8               | 10     | Tras 60V   | 0        | 13,09           |
| 9               | 10     | Tras 60V   | 0        | 13,09           |
| 10              | 10     | Tras 60V   | 0        | 13,09           |
| 11              | 10     | Tras 60V   | 0        | 13,09           |
| 12              | 10     | Tras 60V   | 0        | 13,09           |
| 13              | 10     | Tras 60V   | 0        | 13,09           |
| 14              | 10     | Tras 60V   | 0        | 13,09           |
| 15              | 10     | Tras 60V   | 0        | 13,09           |
| 16              | 10     | Tras 60V   | 0        | 13,09           |
| 17              | 10     | Tras 60V   | 0        | 13,09           |
| 18              | 10     | Tras 60V   | 0        | 13,09           |
| 19              | 10     | Tras 60V   | 0        | 13,09           |
| 20              | 10     | Tras 60V   | 0        | 13,09           |
| 21              | 10     | Tras 60V   | 0        | 13,09           |
| 22              | 10     | Tras 60V   | 0        | 13,09           |
| 23              | 10     | Tras 60V   | 0        | 13,09           |
| 24              | 10     | Tras 60V   | 0        | 13,09           |
| 25              | 10     | Tras 60V   | 0        | 13,09           |
| 26              | 10     | Tras 60V   | 0        | 13,09           |
| 27              | 10     | Tras 60V   | 0        | 13,09           |
| 28              | 10     | Tras 60V   | 0        | 13,09           |
| 29              | 10     | Tras 60V   | 0        | 13,09           |
| 30              | 10     | Tras 60V   | 0        | 13,09           |
| 31              | 10     | Tras 60V   | 0        | 13,09           |
| 32              | 10     | Tras 60V   | 0        | 13,09           |
| 33              | 10     | Tras 60V   | 0        | 13,09           |
| 34              | 10     | Tras 60V   | 0        | 13,09           |
| 35              | 10     | Tras 60V   | 0        | 13,09           |
| 36              | 10     | Tras 60V   | 0        | 13,09           |
| 37              | 10     | Tras 60V   | 0        | 13,09           |
| 38              | 10     | Tras 60V   | 0        | 13,09           |
| 39              | 10     | Tras 60V   | 0        | 13,09           |
| 40              | 10     | Tras 60V   | 0        | 13,09           |
| 41              | 10     | Tras 60V   | 0        | 13,09           |
| 42              | 10     | Tras 60V   | 0        | 13,09           |
| 43              | 10     | Tras 60V   | 0        | 13,09           |
| 44              | 10     | Tras 60V   | 0        | 13,09           |
| 45              | 10     | Tras 60V   | 0        | 13,09           |
| 46              | 10     | Tras 60V   | 0        | 13,09           |
| 47              | 10     | Tras 60V   | 0        | 13,09           |
| 48              | 10     | Tras 60V   | 0        | 13,09           |
| 49              | 10     | Tras 60V   | 0        | 13,09           |
| 50              | 10     | Tras 60V   | 0        | 13,09           |
| 51              | 10     | Tras 60V   | 0        | 13,09           |
| 52              | 10     | Tras 60V   | 0        | 13,09           |
| 53              | 10     | Tras 60V   | 0        | 13,09           |
| 54              | 10     | Tras 60V   | 0        | 13,09           |
| 55              | 10     | Tras 60V   | 0        | 13,09           |
| 56              | 10     | Tras 60V   | 0        | 13,09           |
| 57              | 10     | Tras 60V   | 0        | 13,09           |
| 58              | 10     | Tras 60V   | 0        | 13,09           |
| 59              | 10     | Tras 60V   | 0        | 13,09           |
| 60              | 10     | Tras 60V   | 0        | 13,09           |
| 61              | 10     | Tras 60V   | 0        | 13,09           |
| 62              | 10     | Tras 60V   | 0        | 13,09           |
| 63              | 10     | Tras 60V   | 0        | 13,09           |
| 64              | 10     | Tras 60V   | 0        | 13,09           |
| 65              | 10     | Tras 60V   | 0        | 13,09           |
| 66              | 10     | Tras 60V   | 0        | 13,09           |
| 67              | 10     | Tras 60V   | 0        | 13,09           |
| 68              | 10     | Tras 60V   | 0        | 13,09           |
| 69              | 10     | Tras 60V   | 0        | 13,09           |
| 70              | 10     | Tras 60V   | 0        | 13,09           |
| 71              | 10     | Tras 60V   | 0        | 13,09           |
| 72              | 10     | Tras 60V   | 0        | 13,09           |
| 73              | 10     | Tras 60V   | 0        | 13,09           |
| 74              | 10     | Tras 60V   | 0        | 13,09           |
| 75              | 10     | Tras 60V   | 0        | 13,09           |
| 76              | 10     | Tras 60V   | 0        | 13,09           |
| 77              | 10     | Tras 60V   | 0        | 13,09           |
| 78              | 10     | Tras 60V   | 0        | 13,09           |
| 79              | 10     | Tras 60V   | 0        | 13,09           |
| 80              | 10     | Tras 60V   | 0        | 13,09           |
| 81              | 10     | Tras 60V   | 0        | 13,09           |
| 82              | 10     | Tras 60V   | 0        | 13,09           |
| 83              | 10     | Tras 60V   | 0        | 13,09           |
| 84              | 10     | Tras 60V   | 0        | 13,09           |
| 85              | 10     | Tras 60V   | 0        | 13,09           |
| 86              | 10     | Tras 60V   | 0        | 13,09           |
| 87              | 10     | Tras 60V   | 0        | 13,09           |
| 88              | 10     | Tras 60V   | 0        | 13,09           |
| 89              | 10     | Tras 60V   | 0        | 13,09           |
| 90              | 10     | Tras 60V   | 0        | 13,09           |
| 91              | 10     | Tras 60V   | 0        | 13,09           |
| 92              | 10     | Tras 60V   | 0        | 13,09           |
| 93              | 10     | Tras 60V   | 0        | 13,09           |
| 94              | 10     | Tras 60V   | 0        | 13,09           |
| 95              | 10     | Tras 60V   | 0        | 13,09           |
| 96              | 10     | Tras 60V   | 0        | 13,09           |
| 97              | 10     | Tras 60V   | 0        | 13,09           |
| 98              | 10     | Tras 60V   | 0        | 13,09           |
| 99              | 10     | Tras 60V   | 0        | 13,09           |
| 100             | 10     | Tras 60V   | 0        | 13,09           |
| 101             | 10     | Tras 60V   | 0        | 13,09           |
| 102             | 10     | Tras 60V   | 0        | 13,09           |
| 103             | 10     | Tras 60V   | 0        | 13,09           |
| 104             | 10     | Tras 60V   | 0        | 13,09           |
| 105             | 10     | Tras 60V   | 0        | 13,09           |
| 106             | 10     | Tras 60V   | 0        | 13,09           |
| 107             | 10     | Tras 60V   | 0        | 13,09           |
| 108             | 10     | Tras 60V   | 0        | 13,09           |
| 109             | 10     | Tras 60V   | 0        | 13,09           |
| 110             | 10     | Tras 60V   | 0        | 13,09           |
| 111             | 10     | Tras 60V   | 0        | 13,09           |
| 112             | 10     | Tras 60V   | 0        | 13,09           |
| 113             | 10     | Tras 60V   | 0        | 13,09           |
| 114             | 10     | Tras 60V   | 0        | 13,09           |
| 115             | 10     | Tras 60V   | 0        | 13,09           |
| 116             | 10     | Tras 60V   | 0        | 13,09           |
| 117             | 10     | Tras 60V   | 0        | 13,09           |
| 118             | 10     | Tras 60V   | 0        | 13,09           |
| 119             | 10     | Tras 60V   | 0        | 13,09           |
| 120             | 10     | Tras 60V   | 0        | 13,09           |
| 121             | 10     | Tras 60V   | 0        | 13,09           |
| 122             | 10     | Tras 60V   | 0        | 13,09           |
| 123             | 10     | Tras 60V   | 0        | 13,09           |
| 124             | 10     | Tras 60V   | 0        | 13,09           |
| 125             | 10     | Tras 60V   | 0        | 13,09           |
| 126             | 10     | Tras 60V   | 0        | 13,09           |
| 127             | 10     | Tras 60V   | 0        | 13,09           |
| 128             | 10     | Tras 60V   | 0        | 13,09           |
| 129             | 10     | Tras 60V   | 0        | 13,09           |
| 130             | 10     | Tras 60V   | 0        | 13,09           |
| 131             | 10     | Tras 60V   | 0        | 13,09           |
| 132             | 10     | Tras 60V   | 0        | 13,09           |
| 133             | 10     | Tras 60V   | 0        | 13,09           |
| 134             | 10     | Tras 60V   | 0        | 13,09           |
| 135             | 10     | Tras 60V   | 0        | 13,09           |
| 136             | 10     | Tras 60V   | 0        | 13,09           |
| 137             | 10     | Tras 60V   | 0        | 13,09           |
| 138             | 10     | Tras 60V   | 0        | 13,09           |
| 139             | 10     | Tras 60V   | 0        | 13,09           |
| 140             | 10     | Tras 60V   | 0        | 13,09           |
| 141             | 10     | Tras 60V   | 0        | 13,09           |
| 142             | 10     | Tras 60V   | 0        | 13,09           |
| 143             | 10     | Tras 60V   | 0        | 13,09           |
| 144             | 10     | Tras 60V   | 0        | 13,09           |
| 145             | 10     | Tras 60V   | 0        | 13,09           |
| 146             | 10     | Tras 60V   | 0        | 13,09           |
| 147             | 10     | Tras 60V   | 0        | 13,09           |
| 148             | 10     | Tras 60V   | 0        | 13,09           |
| 149             | 10     | Tras 60V   | 0        | 13,09           |
| 150             | 10     | Tras 60V   | 0        | 13,09           |
| 151             | 10     | Tras 60V   | 0        | 13,09           |
| 152             | 10     | Tras 60V   | 0        | 13,09           |
| 153             | 10     | Tras 60V   | 0        | 13,09           |
| 154             | 10     | Tras 60V   | 0        | 13,09           |
| 155             | 10     | Tras 60V   | 0        | 13,09           |
| 156             | 10     | Tras 60V   | 0        | 13,09           |
| 157             | 10     | Tras 60V   | 0        | 13,09           |
| 158             | 10     | Tras 60V   | 0        | 13,09           |
| 159             | 10     | Tras 60V   | 0        | 13,09           |
| 160             | 10     | Tras 60V   | 0        | 13,09           |
| 161             | 10     | Tras 60V   | 0        | 13,09           |
| 162             | 10     | Tras 60V   | 0        | 13,09           |
| 163             | 10     | Tras 60V   | 0        | 13,09           |
| 164             | 10     | Tras 60V   | 0        | 13,09           |
| 165             | 10     | Tras 60V   | 0        | 13,09           |
| 166             | 10     | Tras 60V   | 0        | 13,09           |
| 167             | 10     | Tras 60V   | 0        | 13,09           |
| 168             | 10     | Tras 60V   | 0        | 13,09           |
| 169             | 10     | Tras 60V   | 0        | 13,09           |
| 170             | 10     | Tras 60V   | 0        | 13,09           |
| 171             | 10     | Tras 60V   | 0        | 13,09           |
| 172             | 10     | Tras 60V   | 0        | 13,09           |
| 173             | 10     | Tras 60V   | 0        | 13,09           |
| 174             | 10     | Tras 60V   | 0        | 13,09           |
| 175             | 10     | Tras 60V   | 0        | 13,09           |
| 176             | 10     | Tras 60V   | 0        | 13,09           |
| 177             | 10     | Tras 60V   | 0        | 13,09           |
| 178             | 10     | Tras 60V   | 0        | 13,09           |
| 179             | 10     | Tras 60V   | 0        | 13,09           |
| 180             | 10     | Tras 60V   | 0        | 13,09           |
| 181             | 10     | Tras 60V   | 0        | 13,09           |
| 182             | 10     | Tras 60V   | 0        | 13,09           |
| 183             | 10     | Tras 60V   | 0        | 13,09           |
| 184             | 10     | Tras 60V   | 0        | 13,09           |
| 185             | 10     | Tras 60V   | 0        | 13,09           |
| 186             | 10     | Tras 60V   | 0        | 13,09           |
| 187             | 10     | Tras 60V   | 0        | 13,09           |
| 188             | 10     | Tras 60V   | 0        | 13,09           |
| 189             | 10     | Tras 60V   | 0        | 13,09           |
| 190             | 10     | Tras 60V   | 0        | 13,09           |
| 191             | 10     | Tras 60V   | 0        | 13,09           |
| 192             | 10     | Tras 60V   | 0        | 13,09           |
| 193             | 10     | Tras 60V   | 0        | 13,09           |
| 194             | 10     | Tras 60V   | 0        | 13,09           |
| 195             | 10     | Tras 60V   | 0        | 13,09           |
| 196             | 10     | Tras 60V   | 0        | 13,09           |
| 197             | 10     | Tras 60V   | 0        | 13,09           |
| 198             | 10     | Tras 60V   | 0        | 13,09           |
| 199             | 10     | Tras 60V   | 0        | 13,09           |
| 200             | 10     | Tras 60V   | 0        | 13,09           |
| 201             | 10     | Tras 60V   | 0        | 13,09           |
| 202             | 10     | Tras 60V   | 0        | 13,09           |
| 203             | 10     | Tras 60V   | 0        | 13,09           |
| 204             | 10     | Tras 60V   | 0        | 13,09           |
| 205             | 10     | Tras 60V   | 0        | 13,09           |
| 206             | 10     | Tras 60V   | 0        | 13,09           |
| 207             | 10     | Tras 60V   | 0        | 13,09           |
| 208             | 10     | Tras 60V   | 0        | 13,09           |
| 209             | 10     | Tras 60V   | 0        | 13,09           |
| 210             | 10     | Tras 60V   | 0        | 13,09           |
| 211             | 10     | Tras 60V   | 0        | 13,09           |
| 212             | 10     | Tras 60V   | 0        | 13,09           |
| 213             | 10     | Tras 60V   | 0        | 13,09           |
| 214             | 10     | Tras 60V   | 0        | 13,09           |
| 215             | 10     | Tras 60V   | 0        | 13,09           |
| 216             | 10     | Tras 60V   | 0        | 13,09           |
| 217             | 10     | Tras 60V   | 0        | 13,09           |
| 218             | 10     | Tras 60V   | 0        | 13,09           |
| 219             | 10     | Tras 60V   | 0        | 13,09           |
| 220             | 10     | Tras 60V   | 0        | 13,09           |
| 221             | 10     | Tras 60V   | 0        | 13,09           |
| 222             | 10     | Tras 60V   | 0        | 13,09           |
| 223             | 10     | Tras 60V   | 0        | 13,09           |
| 224             | 10     | Tras 60V   | 0        | 13,09           |
| 225             | 10     | Tras 60V   | 0        | 13,09           |
| 226             | 10     | Tras 60V   | 0        | 13,09           |
| 227             | 10     | Tras 60V   | 0        | 13,09           |
| 228             | 10     | Tras 60V   | 0        | 13,09           |
| 229             | 10     | Tras 60V   | 0        | 13,09           |
| 230             | 10     | Tras 60V   | 0        | 13,09           |
| 231             | 10     | Tras 60V   | 0        | 13,09           |
| 232             | 10     | Tras 60V   | 0        | 13,09           |
| 233             | 10     | Tras 60V   | 0        | 13,09           |
| 234             | 10     | Tras 60V   | 0        | 13,09           |
| 235             | 10     | Tras 60V   | 0        | 13,09           |
| 236             | 10     | Tras 60V   | 0        | 13,09           |
| 237             | 10     | Tras 60V   | 0        | 13,09           |
| 238             | 10     | Tras 60V   | 0        | 13,09           |
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| 247             | 10     | Tras 60V   | 0        | 13,09           |
| 248             | 10     | Tras 60V   | 0        | 13,09           |
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| 252             | 10     | Tras 60V   | 0        | 13,09           |
| 253             | 10     | Tras 60V   | 0        | 13,09           |
| 254             | 10     | Tras 60V   | 0        | 13,09           |
| 255             | 10     | Tras 60V   | 0        | 13,09           |
| 256             | 10     | Tras 60V   | 0        | 13,09           |
| 257             | 10     | Tras 60V   | 0        | 13,09           |
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| 263             | 10     | Tras 60V   | 0        | 13,09           |
| 264             | 10     | Tras 60V   | 0        | 13,09           |
| 265             | 10     | Tras 60V   | 0        | 13,09           |
| 266             | 10     | Tras 60V   | 0        | 13,09           |
| 267             | 10     | Tras 60V   | 0        | 13,09           |
| 268             | 10     | Tras 60V   | 0        | 13,09           |
| 269             | 10     | Tras 60V   | 0        | 13,09           |
| 270             | 10     | Tras 60V   | 0        | 13,09           |
| 271             |        |            |          |                 |



PLANO ILUMINACIÓN Y TOMAS CANCHA Y GRADAS



PLANO ILUMINACIÓN Y TOMAS VESTIDORES Y BAÑOS

② TABLERO DE ILUMINACIÓN

| Lista de luminarias (Edificación 1, Planta (nivel) 1) |            |                                                  |                                                  |         |                |                       |                      |          |
|-------------------------------------------------------|------------|--------------------------------------------------|--------------------------------------------------|---------|----------------|-----------------------|----------------------|----------|
| Índice                                                | Fabricante | Nombre del artículo                              | Número de artículo                               | Lámpara | Flujo luminoso | Factor de degradación | Potencia de conexión | Cantidad |
| 1                                                     | SYLVANIA   | P26388 - LED HIGH BAY HBL3 110W CW               | P26388 - LED HIGH BAY HBL3 110W CW               | 1x      | 15187 lm       | 0.80                  | 104.7 W              | 23       |
| 2                                                     | SYLVANIA   | P26398 LED PANEL RD 24W NW MV SP                 | P26398 LED PANEL RD 24W NW MV SP                 | 1x      | 1706 lm        | 0.80                  | 22.8 W               | 4        |
| 3                                                     | SYLVANIA   | SYLVANIA P29943-36 LED HIGH BAY 100W DL GC101 ST | SYLVANIA P29943-36 LED HIGH BAY 100W DL GC101 ST | 1x 0-1  | 11018 lm       | 0.80                  | 106.8 W              | 4        |

TABLERO NORMAL BATERÍA SANITARIA Y ZONA DE VALORACIÓN DEPORTIVA

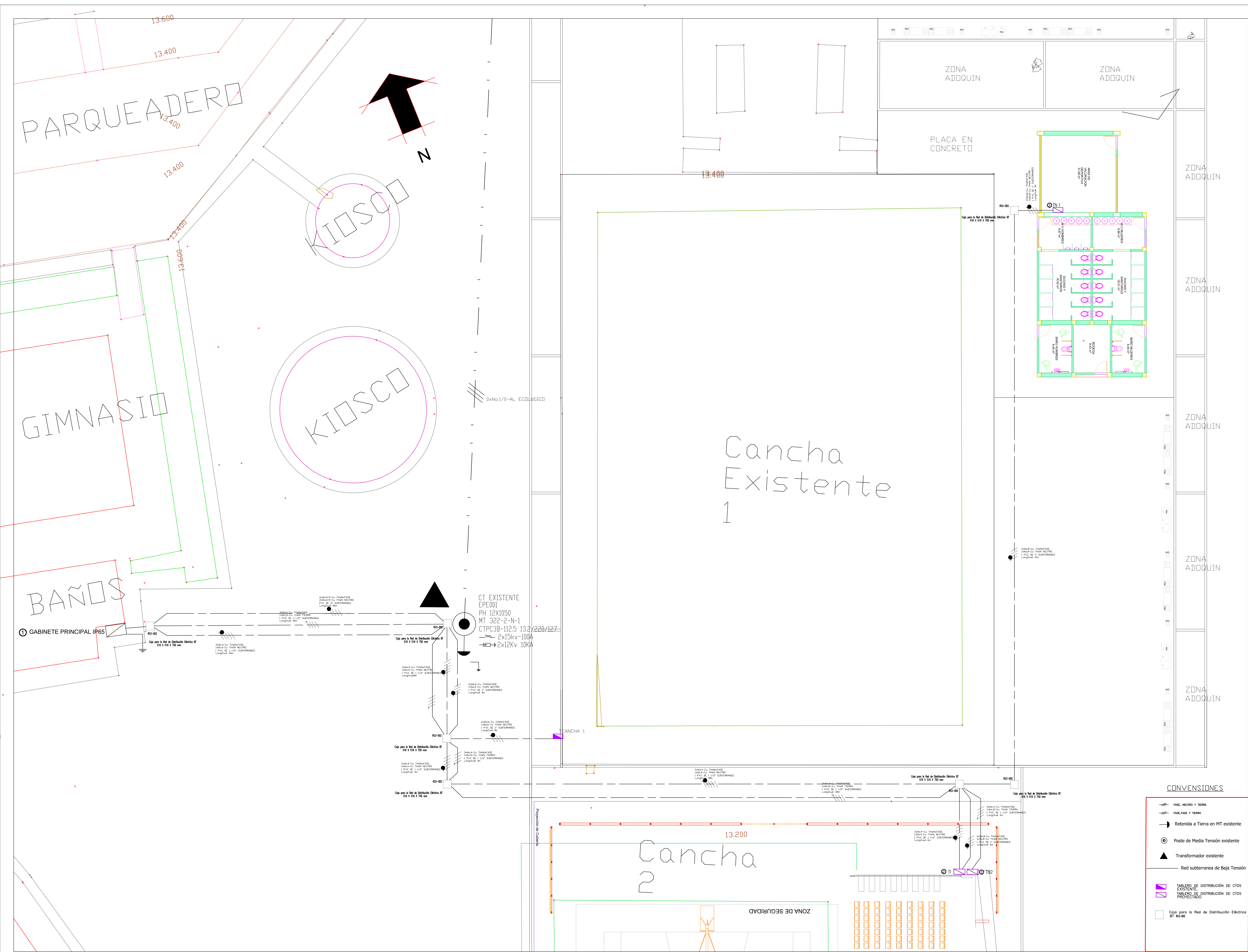
| CUADRO DE CARGAS TABLERO NORMAL BATERÍA SANITARIA |                        |                        |                        |                             |                             |                   |                           |                                     |       |          |         |                      |               |
|---------------------------------------------------|------------------------|------------------------|------------------------|-----------------------------|-----------------------------|-------------------|---------------------------|-------------------------------------|-------|----------|---------|----------------------|---------------|
| CTO                                               | LUMINARIA LED RD (18w) | LUMINARIA LED RD (24w) | LUMINARIA LED RD (30w) | LUMINARIA LED HIGH BAY 100W | LUMINARIA LED HIGH BAY 110W | LED TORTUGA (12w) | LED HEMERGENCIA R3 (2X1w) | LED HEMERGENCIA AVISO SALIDA (1.8w) | TOMAS | POTENCIA | VOLTAGE | CORRIENTE            | OBSERVACIONES |
| TL-C1                                             | 14                     |                        |                        |                             |                             |                   |                           |                                     | 127   | 220      | (V)     | (A)                  | Lucas         |
| TL-C2                                             | 9                      |                        |                        |                             |                             |                   |                           |                                     | 4     | 562      | 127     | 4.4                  | Lucas         |
| TL-C3                                             |                        | 6                      |                        |                             |                             |                   |                           |                                     | 3     | 483.8    | 220     | 2.2                  | Lucas y Tomas |
| TL-C4-6                                           |                        |                        |                        |                             |                             |                   |                           |                                     | 1     | 1250     | 220     | 5.7                  | Lucas y Tomas |
| RESERVAS                                          |                        |                        |                        |                             |                             |                   |                           |                                     |       |          |         |                      | Libres        |
| TOTAL                                             | 23                     | 0                      | 6                      | 0                           | 0                           | 1                 | 1                         | 2947.8                              | 220   | 7.7      | 2300A   | 2300+4+10T THIN/THWN | Alimentador   |

| CTO       |                        |                        |                        |                             |                             |                   |                           |                                     | TOMAS |     | POTENCIA | VOLTAJE | CORRENTE | PROTECCION | CONDUCTOR           | DUCTO              | OBSERVACIONES                                       |
|-----------|------------------------|------------------------|------------------------|-----------------------------|-----------------------------|-------------------|---------------------------|-------------------------------------|-------|-----|----------|---------|----------|------------|---------------------|--------------------|-----------------------------------------------------|
|           | LUMINARIA LED RD (18w) | LUMINARIA LED RD (24w) | LUMINARIA LED RD (30w) | LUMINARIA LED HIGH BAY 100W | LUMINARIA LED HIGH BAY 110W | LED TORTUGA (12w) | LED HEMERGENCIA R3 (2X1w) | LED HEMERGENCIA AVISO SALIDA (1.8w) | 127   | 220 | (VA)     | (Volt)  | (Amp)    | ITM        | (AWG)               | (AWG)              |                                                     |
| TL-C1     |                        |                        |                        |                             |                             |                   |                           |                                     | 4     |     | 400      | 127     | 3.1      | 1 X 20 A   | No 12 LSHF          | PVC 1/2"           | Toma Cancha                                         |
| TL-C2     |                        |                        |                        |                             |                             |                   |                           |                                     |       |     | 400      | 127     | 3.1      | 1 X 20 A   | PVC 1/2"            |                    | Toma Vestidores                                     |
| TL-C3-5   |                        |                        |                        |                             | 4                           |                   |                           |                                     |       |     | 440      | 220     | 2.0      | 1 X 16 A   | No 12 LSHF          |                    | Lucas Cancha                                        |
| TL-C4-6   |                        |                        |                        |                             | 4                           |                   |                           |                                     |       |     | 440      | 220     | 2.0      | 1 X 16 A   | EMT ( 1"- 3/4")     |                    | Lucas Cancha                                        |
| TL-C7-9   |                        |                        |                        |                             | 4                           |                   |                           |                                     |       |     | 440      | 220     | 2.0      | 1 X 16 A   | EMT ( 1"- 3/4")     |                    | Lucas Cancha                                        |
| TL-C8-10  |                        |                        |                        |                             | 4                           |                   |                           |                                     |       |     | 440      | 220     | 2.0      | 1 X 16 A   | EMT ( 1"- 3/4")     |                    | Lucas Cancha                                        |
| TL-C11-13 |                        |                        |                        |                             |                             |                   |                           |                                     |       |     | 440      | 220     | 2.0      | 1 X 16 A   | No 12 LSHF          |                    | Lucas Cancha                                        |
| TL-C12-14 |                        |                        |                        |                             | 3                           |                   |                           |                                     |       |     | 330      | 220     | 1.5      | 1 X 16 A   | EMT ( 1"- 3/4")     |                    | Lucas Cancha                                        |
| TL-C15-17 |                        |                        |                        |                             | 4                           |                   |                           |                                     |       |     | 440      | 220     | 2.0      | 1 X 16 A   | No 12 LSHF          |                    | Lucas Cancha                                        |
| TL-C16    | 9                      | 4                      | 6                      |                             |                             | 2                 | 2                         | 1                                   |       |     | 467.8    | 127     | 3.7      | 1 X 20 A   | No 12 LSHF          | PVC 1/2"           | Lucas Vestadores 2, Ballos Damas                    |
| TL-C17    | 9                      | 8                      | 6                      |                             |                             |                   |                           | 1                                   |       |     | 551.8    | 127     | 4.3      | 1 X20 A    | No 12 LSHF          | PVC 1/2"           | Lucas Vestadores, Ballos Caballeros y Acceso 1.     |
| TL-C18-20 |                        |                        |                        |                             |                             |                   |                           |                                     |       | 1   | 2000     | 220     | 13.6     | 2X30 A     | No 10 LSHF          | PVC 3/4"           | Toma 220 voltios Cancha.                            |
| TL-C19-21 |                        |                        |                        |                             |                             |                   |                           |                                     |       | 1   | 2947.8   | 220     | 13.4     | 2X30 A     | No 8 THHN/THWN      | PVC 1"             | Alimentador Tablero TI, baterias sanitarias, Libres |
| TOTAL     | 18                     | 12                     | 12                     | 0                           | 27                          |                   | 4                         | 2                                   | 8     | 2   | 10737.4  | 220     | 28.2     | 3X 60A     | 3X4+4+10T THHN/THWN | 1 1/2" (IMC / PVC) | Alimentador                                         |

Página 1

CONVERSIONES

- FASE, NEUTRO Y TIERRA
- FASE, FASE Y TIERRA
- LED HIGH BAY HBL3 110W CW
- LED HIGH BAY 100W DL GC101 ST
- LED RD 18W, 120 V
- LED RD 24W, 120 V
- LED RD 30W, 120 V
- PANEL LED TORTUGA 12W, 120 V
- LED HEMERGENCIA R3 (2X1w)
- SALIDA DE TOMACORRIENTE NORMAL, 120 V
- CONTACTO 30 A - 2 FASES
- TABLERO DE DISTRIBUCIÓN DE CTOS EXISTENTE
- TABLERO DE DISTRIBUCIÓN DE CTOS PROYECTADO
- INTERRUPTOR SENCILLO INT-100A
- INTERRUPTOR DOBLE INT-120A



FECHA: 30/08/2025

PLANO: E-03

3/5

PROYECTO:  
CONSTRUCCION DE ESCENARIOS DEPORTIVOS  
AREA DE VALORACION DEPORTIVA Y BAÑOS  
EN CAMPUS UNIVERSIDAD DE CORDOBA

UBICACION:  
UNIVERSIDAD DE CORDOBA  
SEDE MONTERIA

PROYECTO REDES ELÉCTRICAS  
DE USO FINAL:  
DISEÑADOR:  
  
JOSE MAURICIO SANTOS.  
C.C. 73.166.881 M.P. BL-205-32328  
INGENIERO ELECTRICISTA

REVISOR: DIRECCION DE PLANEACION Y DESARROLLO UNICOR  
  
Nombre: ALBERT BRAVO TERAN  
Matricula Profesional N° AN205-54913  
INGENIERO ELECTRICISTA

AVAL INSTITUCIONAL UNICOR  
  
ELKIN JOSE BECERRA VELÁSQUEZ  
Director de Planeación y Desarrollo  
Universidad De Córdoba

CONTENIDO:  
RECORRIDO DE LA  
ACOMETIDA Y  
ALIMENTADORES DE LOS  
TABLEROS EN BT

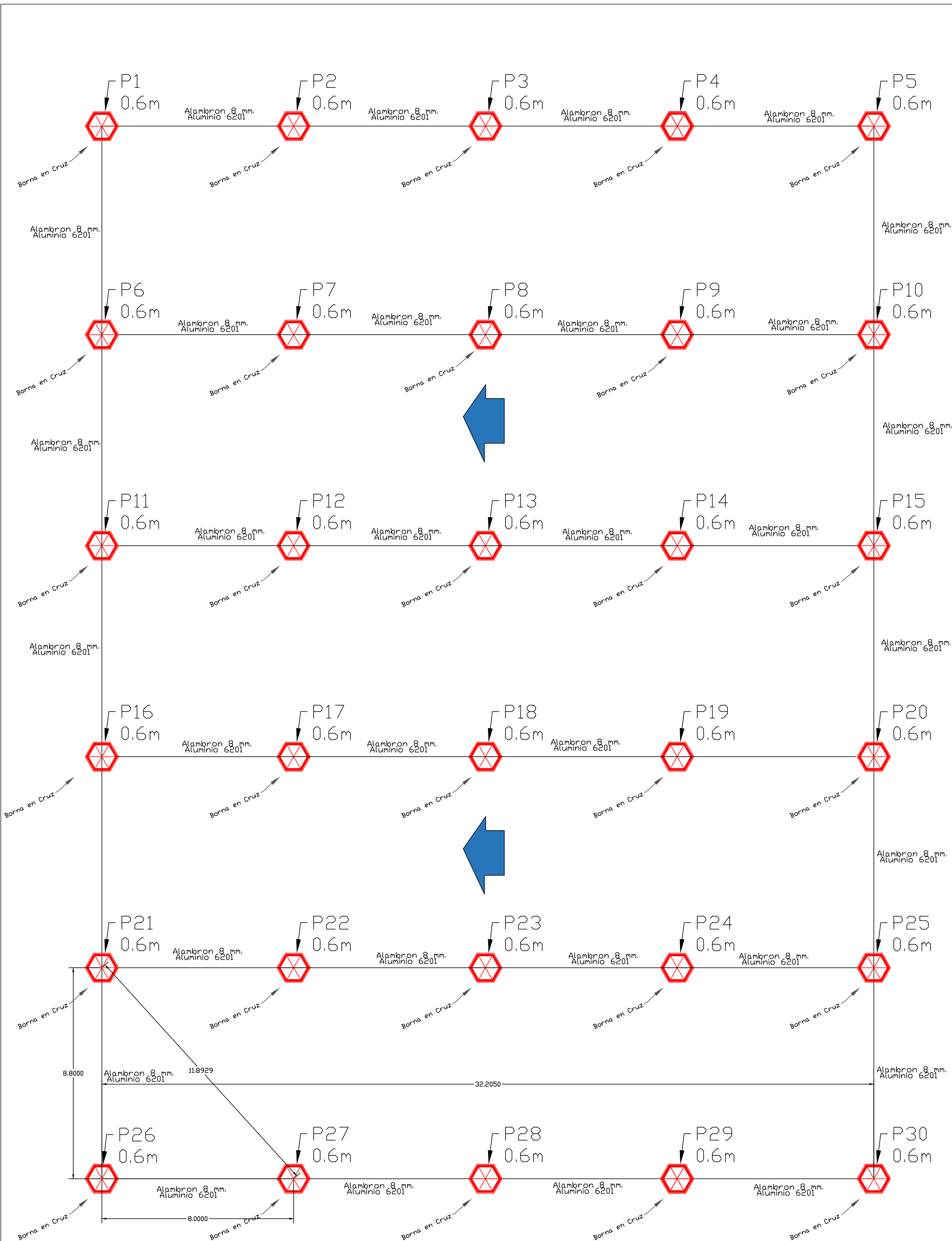
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DISEÑO REDES DE USO  
FINAL: CANCHA - VDS-090

ESCALA:  
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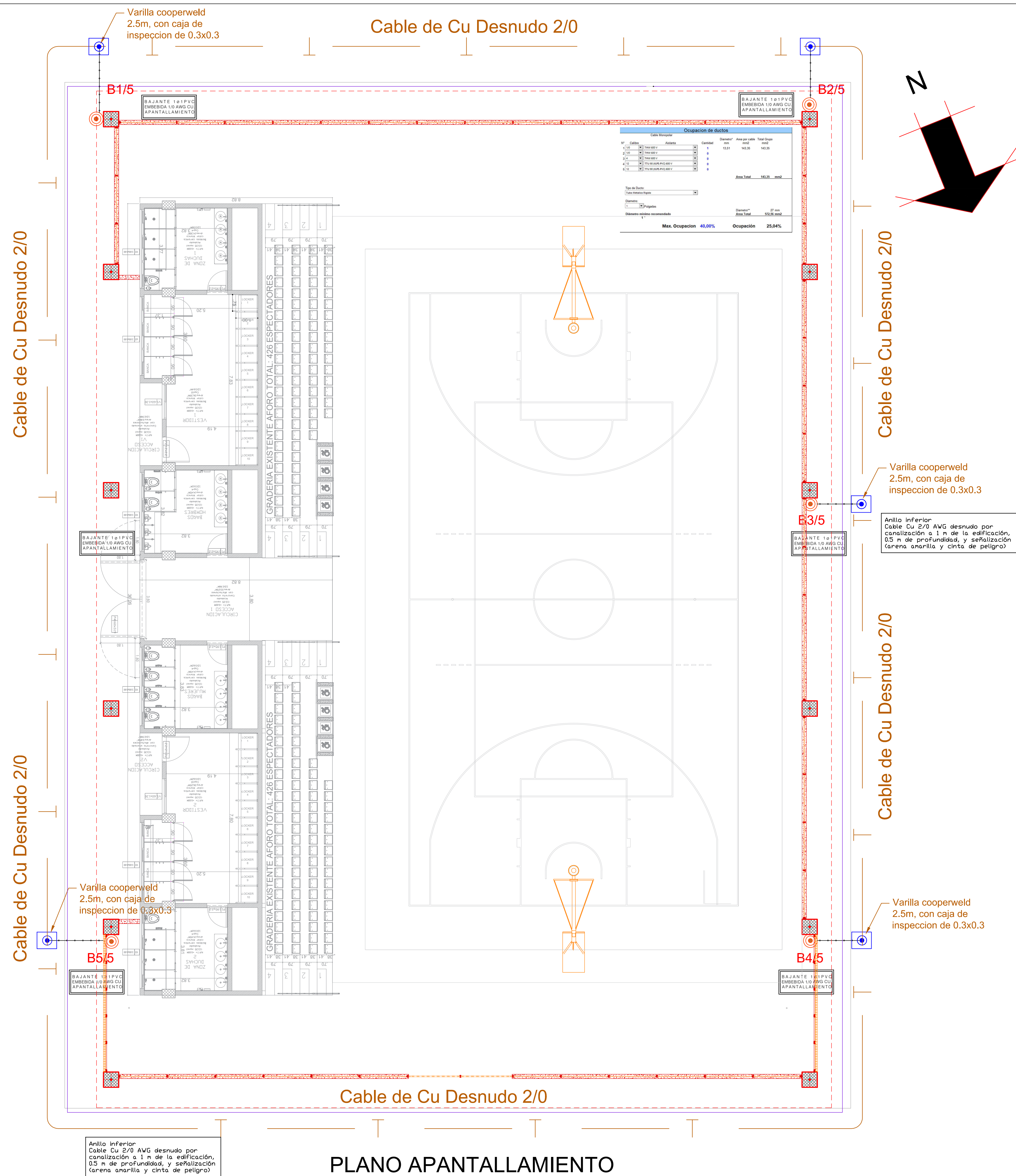
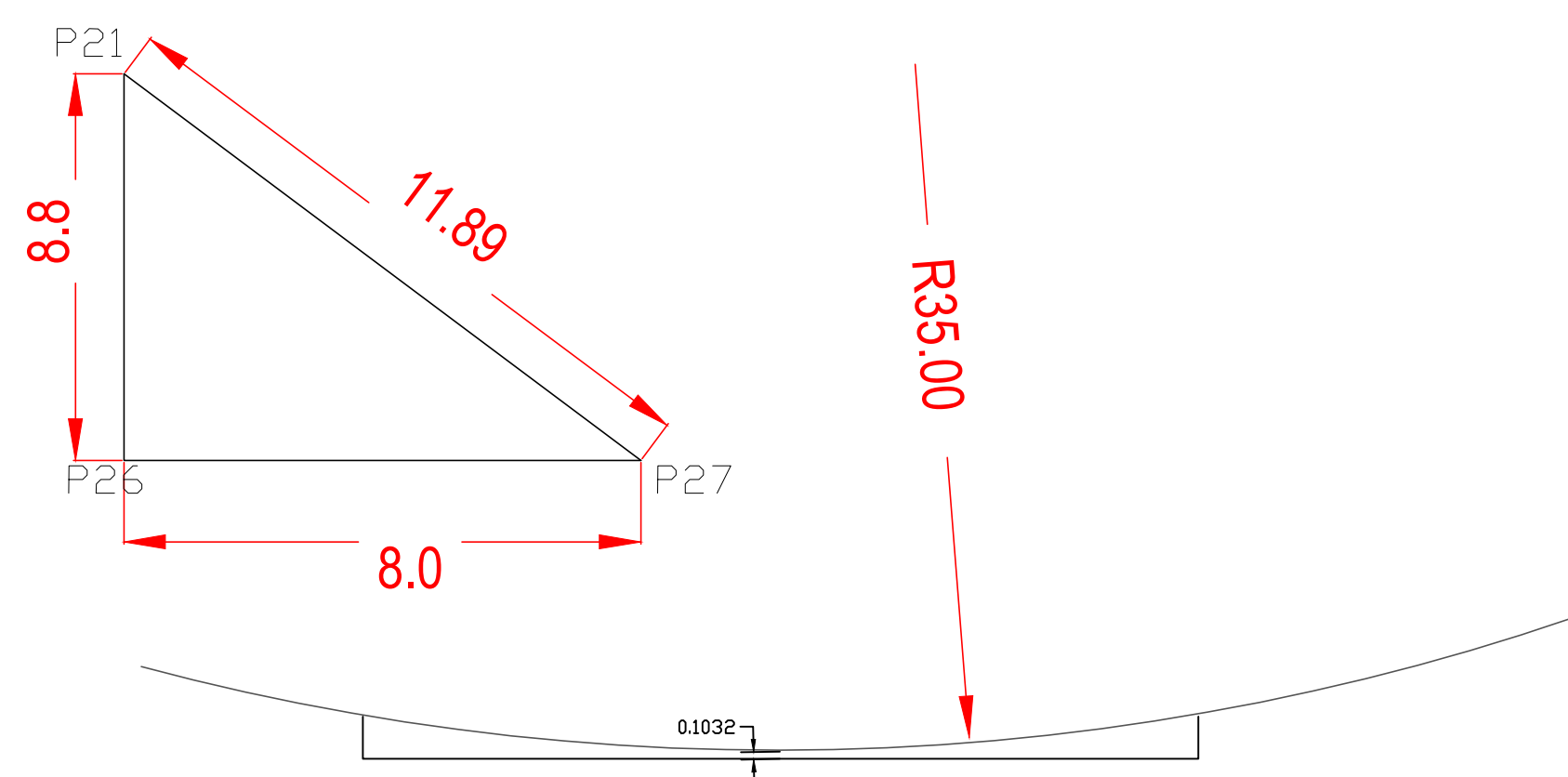
PLANO: E-03

FECHA: 30/08/2025

PLANCHA: 3/5

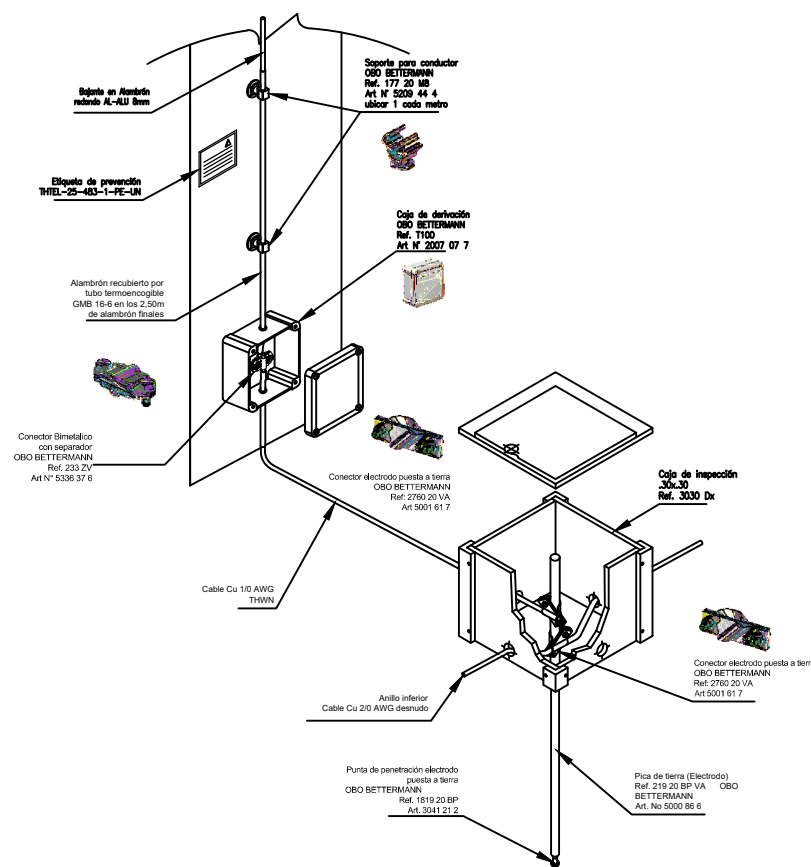
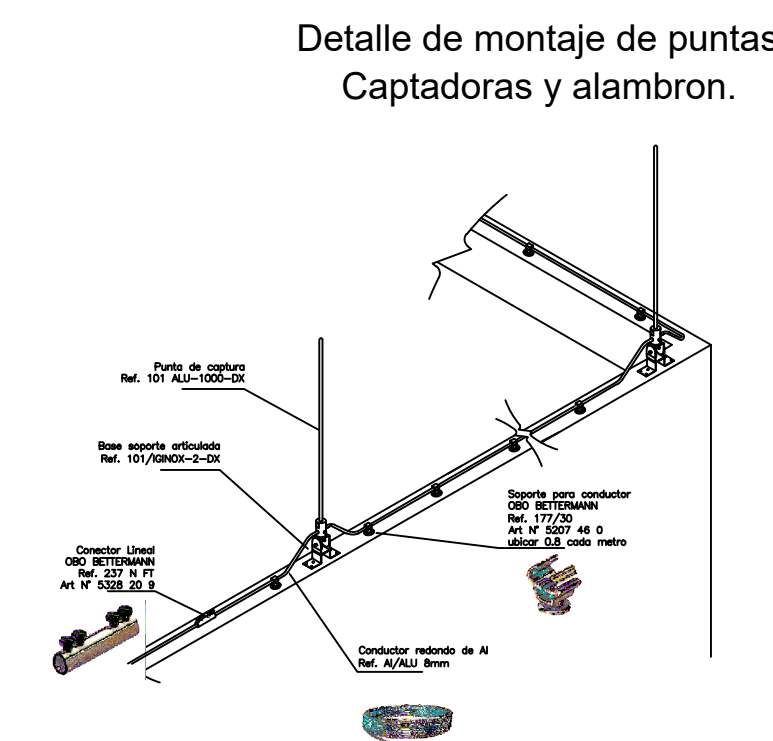


PLANTA DE LA CUBIERTA ( UBICACIÓN PUNTAS CAPTORAS CONTRA RAYO)



Anillo inferior  
Cable Cu 2/0 AWG desnudo por canalización a 1 m de la edificación, 0.5 m de profundidad, y señalización (arena amarilla y cinta de peligro)

PLANO APANTALLAMIENTO



| PUNTA CAPTADORA O PARARRAYO |             | LONGITUD MÁXIMA  |      |
|-----------------------------|-------------|------------------|------|
| PUNTA CAPTADORA             |             | TPC FRANKLIN (m) |      |
| No.                         | DESCRIPCIÓN | 1                | 2    |
| 1                           | P1          | 0.60             | 0.60 |
| 2                           | P2          | 0.60             | 0.60 |
| 3                           | P3          | 0.60             | 0.60 |
| 4                           | P4          | 0.60             | 0.60 |
| 5                           | P5          | 0.60             | 0.60 |
| 6                           | P6          | 0.60             | 0.60 |
| 7                           | P7          | 0.60             | 0.60 |
| 8                           | P8          | 0.60             | 0.60 |
| 9                           | P9          | 0.60             | 0.60 |
| 10                          | P10         | 0.60             | 0.60 |
| 11                          | P11         | 0.60             | 0.60 |
| 12                          | P12         | 0.60             | 0.60 |
| 13                          | P13         | 0.60             | 0.60 |
| 14                          | P14         | 0.60             | 0.60 |
| 15                          | P15         | 0.60             | 0.60 |
| 16                          | P16         | 0.60             | 0.60 |
| 17                          | P17         | 0.60             | 0.60 |
| 18                          | P18         | 0.60             | 0.60 |
| 19                          | P19         | 0.60             | 0.60 |
| 20                          | P20         | 0.60             | 0.60 |
| 21                          | P21         | 0.60             | 0.60 |
| 22                          | P22         | 0.60             | 0.60 |
| 23                          | P23         | 0.60             | 0.60 |
| 24                          | P24         | 0.60             | 0.60 |
| 25                          | P25         | 0.60             | 0.60 |
| 26                          | P26         | 0.60             | 0.60 |
| 27                          | P27         | 0.60             | 0.60 |
| 28                          | P28         | 0.60             | 0.60 |
| 29                          | P29         | 0.60             | 0.60 |
| 30                          | P30         | 0.60             | 0.60 |

Simbología:  
Punta captadora Varilla 16mm-60m.  
Alambres 8 mm Aluminio 6201.  
Varilla cooperweld 2.5m.  
Caja de registro del electrodo A.  
Cable Cu 1/0 AWG THWN 15 kV.  
Cable Cu 2/0 AWG THWN 15 kV.  
Cable Cu 2/0 AWG DESNUDO.

5/7

30/08/2025

PLANO

E-04

PROYECTO:  
CONSTRUCCION DE ESCENARIOS DEPORTIVOS  
AREA DE VALORACION DEPORTIVA Y BAÑOS  
EN CAMPUS UNIVERSIDAD DE CORDOBA

UBICACION:  
UNIVERSIDAD DE  
CORDOBA  
SEDE MONTERIA

PROYECTO APANTALLAMIENTO:  
DISEÑADOR:  
JOSE MAURICIO SANTOS.  
C.C. 73.166.881 M.P. BL-205-32328  
INGENIERO ELECTRICISTA  
REVISOR: DIRECCION DE PLANEACION Y DESARROLLO UNICOR  
Alberto Bravo d.  
Nombre: ALBERTO BRAVO TERAN  
Matrícula Profesional N° AN205-54913  
INGENIERO ELECTRICISTA  
AVAL INSTITUCIONAL UNICOR  
RECIBIDO  
ELKON JOSÉ BECARRA VELÁZQUEZ  
Director de Planeación y Desarrollo  
Universidad De Córdoba  
CONTIENE:  
SISTEMA EXTERNO  
DE PROTECCIÓN  
CONTRA RAYO  
ARCHIVO:  
DISEÑO REDES DE USO  
FINAL CANCHA VPS-090  
ESCALA:  
1:100  
PLANO:  
E-04  
FECHA:  
30/08/2025  
PLANCHA:  
4/5

PROYECTO:  
CONSTRUCCION DE ESCENARIOS DEPORTIVOS  
AREA DE VALORACION DEPORTIVA Y BAÑOS  
EN CAMPUS UNIVERSIDAD DE CORDOBA

UBICACION:  
UNIVERSIDAD DE  
CORDOBA  
SEDE MONTERIA



PROYECTO APANTALLAMIENTO

DISEÑADOR:  
  
JOSE MAURICIO SANTOS  
C.C. 73.166.881 M.P. BL-205-32328  
INGENIERO ELECTRICISTA

REVISOR: DIRECCION DE PLANEACION Y DESARROLLO UNICOR

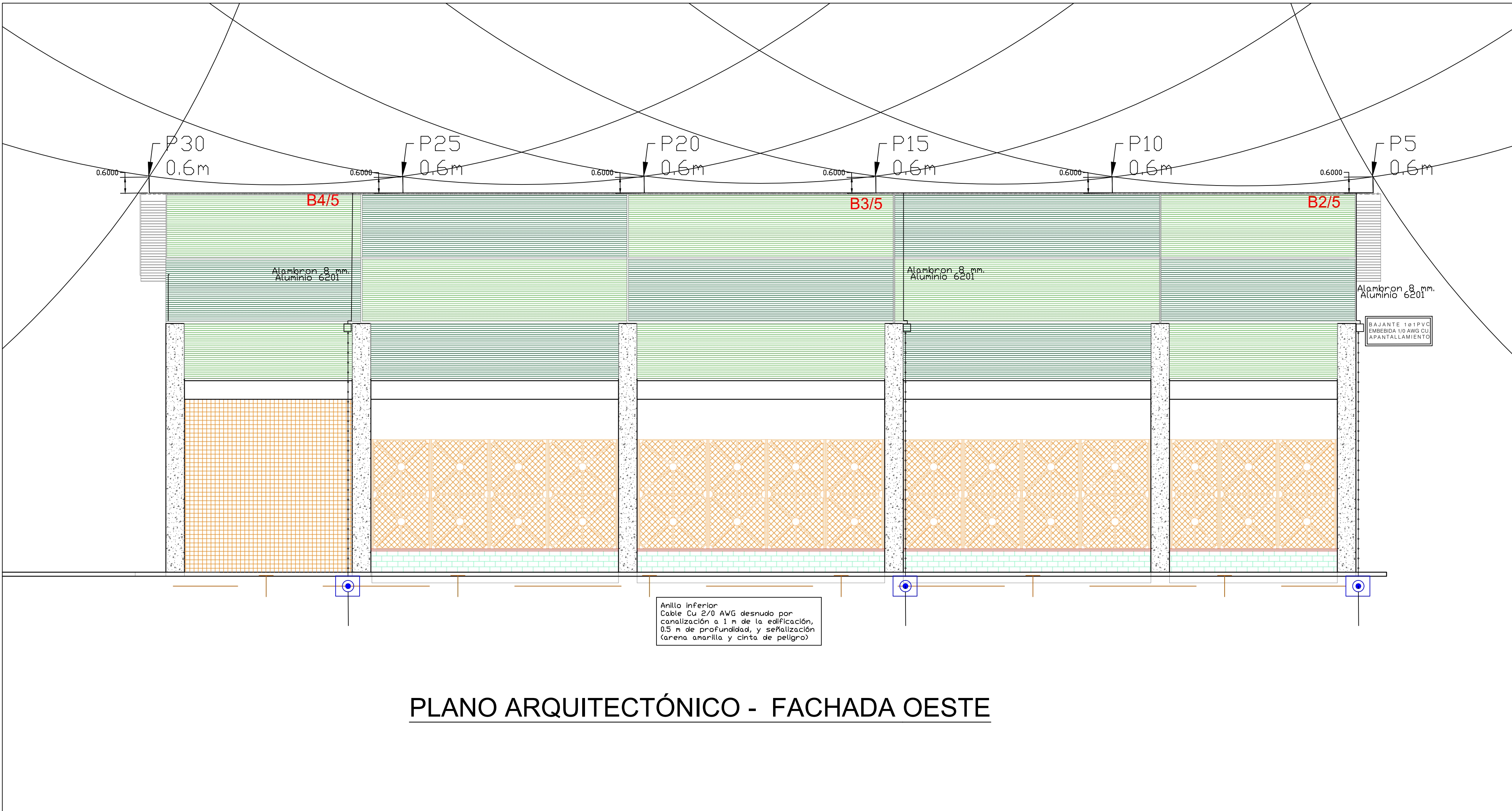
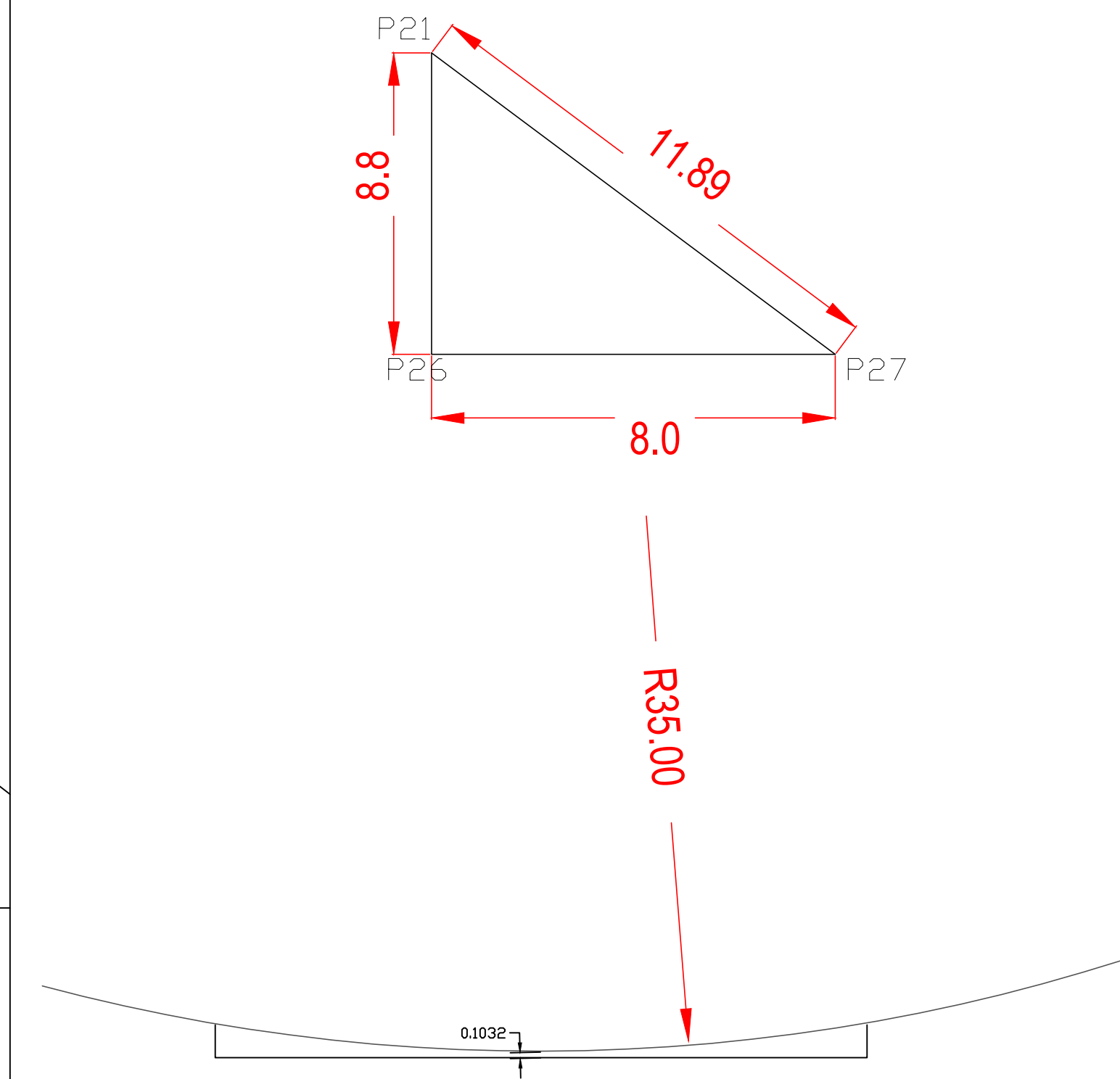
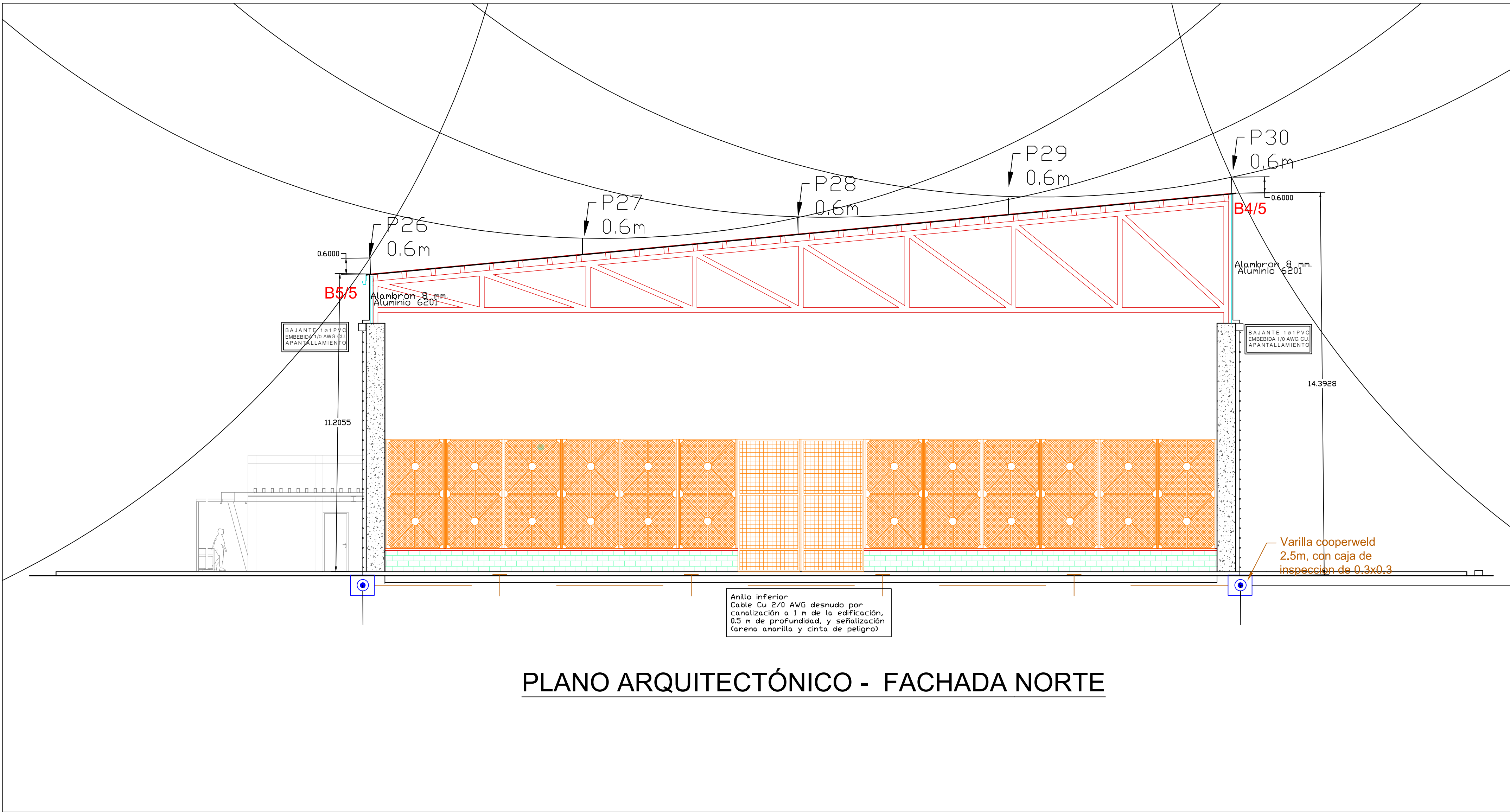
Nombre: ALBERT BRAVO TERAN  
Matrícula Profesional N° AN205-54913  
INGENIERO ELECTRICISTA

AVAL INSTITUCIONAL UNICOR

ELKON JOSÉ BECARRA VELÁZQUEZ  
Director de Planeación y Desarrollo  
Universidad De Córdoba

CONTIENE:  
SISTEMA EXTERNO  
DE PROTECCIÓN  
CONTRA RAYO

ARCHIVO:  
DISEÑO REDES DE USO  
FINAL, CANCELAR VDS-090



| PUNTA CAPTADORA O PARARRAYO |             | LONGITUD MÁXIMA  |  |
|-----------------------------|-------------|------------------|--|
| PUNTA CAPTADORA             |             | PUNTA CAPTADORA  |  |
| Nº                          | DESCRIPCIÓN | TPC FRANKLIN (m) |  |
| 1                           | P1          | 0.00             |  |
| 2                           | P2          | 0.00             |  |
| 3                           | P3          | 0.00             |  |
| 4                           | P4          | 0.00             |  |
| 5                           | P5          | 0.00             |  |
| 6                           | P6          | 0.00             |  |
| 7                           | P7          | 0.00             |  |
| 8                           | P8          | 0.00             |  |
| 9                           | P9          | 0.00             |  |
| 10                          | P10         | 0.00             |  |
| 11                          | P11         | 0.00             |  |
| 12                          | P12         | 0.00             |  |
| 13                          | P13         | 0.00             |  |
| 14                          | P14         | 0.00             |  |
| 15                          | P15         | 0.00             |  |
| 16                          | P16         | 0.00             |  |
| 17                          | P17         | 0.00             |  |
| 18                          | P18         | 0.00             |  |
| 19                          | P19         | 0.00             |  |
| 20                          | P20         | 0.00             |  |
| 21                          | P21         | 0.00             |  |
| 22                          | P22         | 0.00             |  |
| 23                          | P23         | 0.00             |  |
| 24                          | P24         | 0.00             |  |
| 25                          | P25         | 0.00             |  |
| 26                          | P26         | 0.00             |  |
| 27                          | P27         | 0.00             |  |
| 28                          | P28         | 0.00             |  |
| 29                          | P29         | 0.00             |  |
| 30                          | P30         | 0.00             |  |
| 31                          | P31         | 0.00             |  |
| 32                          | P32         | 0.00             |  |
| 33                          | P33         | 0.00             |  |
| 34                          | P34         | 0.00             |  |
| 35                          | P35         | 0.00             |  |
| 36                          | P36         | 0.00             |  |
| 37                          | P37         | 0.00             |  |
| 38                          | P38         | 0.00             |  |
| 39                          | P39         | 0.00             |  |
| 40                          | P40         | 0.00             |  |

| SÍMBOLOS                                                                                       |  |
|------------------------------------------------------------------------------------------------|--|
| Punta captadora Varilla 16mm-60m.                                                              |  |
| Alambres 8 Aluminio 6201                                                                       |  |
| Varilla cooperweld 2.5m                                                                        |  |
| Caja de registro del electrodo A 0.30m x 0.30m con tipo y señal de riesgo eléctrico según RETE |  |
| Cable Cu 1/0 AWG THWN 15 kV                                                                    |  |
| Cable Cu 2/0 AWG THWN 15 kV                                                                    |  |
| Cable Cu 2/0 AWG DESNUDO                                                                       |  |