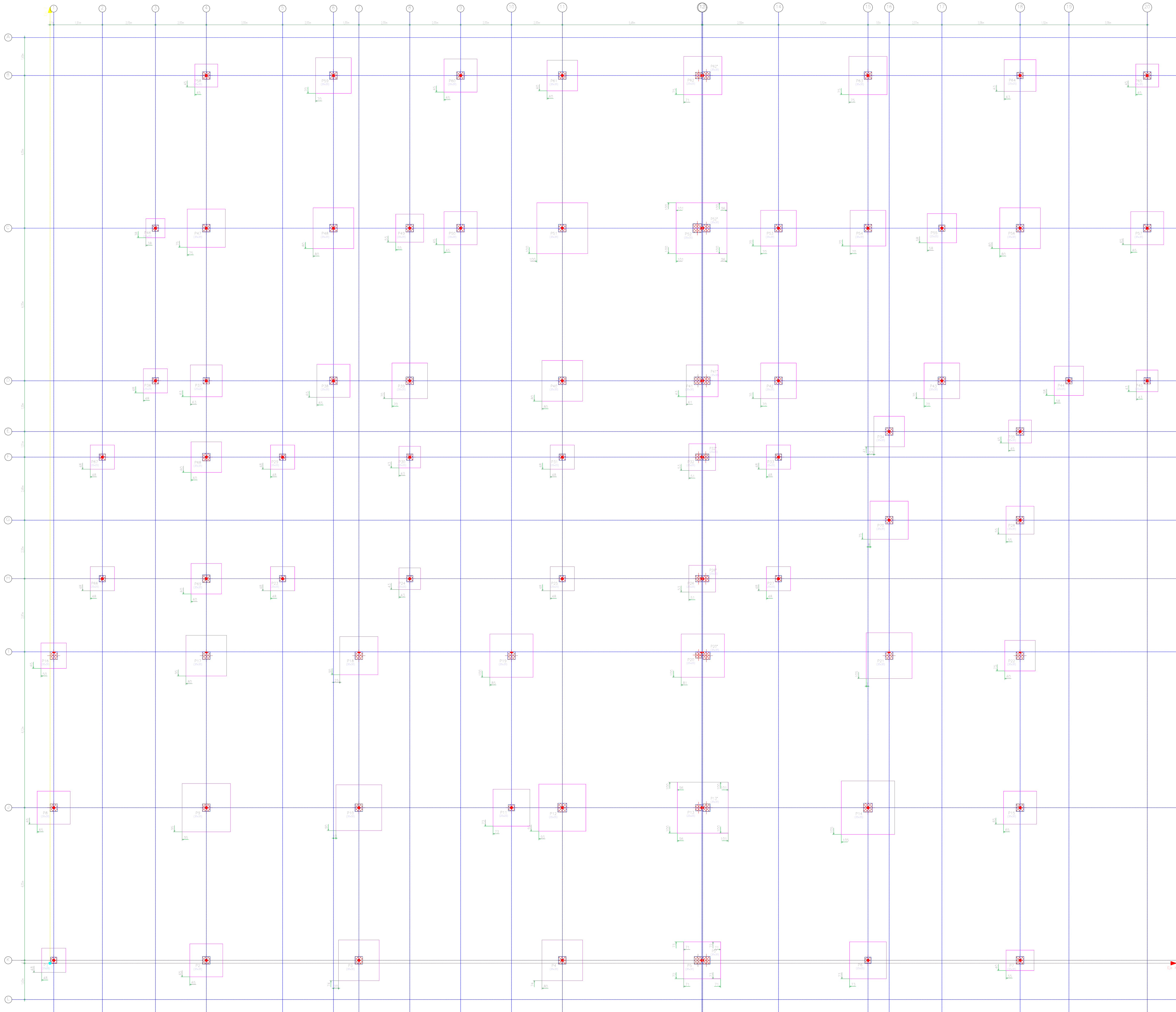


REPLANTEO



FUNDACION  
Replanteo  
Escala: 1:40

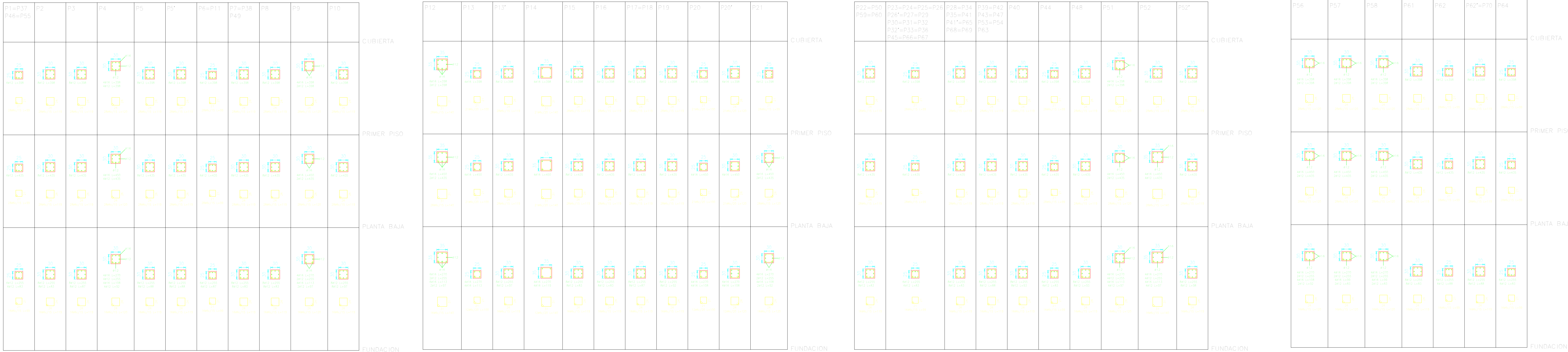
# PLANO DE ZAPATAS

|                                                                                                                                                    |                                       |                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|
| <p align="center"><b>UNIVERSIDAD AUTÓNOMA "JUAN MISAEL SARACHO"</b><br/> <b>FACULTAD DE CIENCIAS Y TECNOLOGÍA</b><br/> <b>INGENIERÍA CIVIL</b></p> |                                       |  |
| DISEÑO ESTRUCTURAL<br>DE LA ALA ALERTECERNA DEL CAMARERO<br>UBICADO EN LA PROVINCIA SUR COSTA<br>DEPARTAMENTO DE CHIRIQUÍA                         | CONTENIDO:<br><br>DESPIECE DE ZAPATAS |                                                                                       |
| ESTUDIANTE:<br>ORTIZ MORALES MARIO FERNANDO                                                                                                        | ESCALA:<br>1:50                       | LAMIN<br>2<br>/<br>2                                                                  |
| VoBo                                                                                                                                               | FECHA:<br>OCT:2024                    |                                                                                       |

# PLANO DE ZAPATAS

|                                                                                                                                                                      |                                           |                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------|
| <p align="center"><b>UNIVERSIDAD AUTÓNOMA "JUAN MISAEL SARACHO"</b><br/> <b>FACULTAD DE CIENCIAS Y TECNOLOGÍA</b><br/> <b>INGENIERÍA CIVIL</b></p>                   |                                           |  |
| <p><b>DISEÑO ESTRUCTURAL</b><br/>         DE LA CALZADA MUNICIPAL DE CAMARÓ<br/>         UBICADO EN LA PROYECTADA VÍA C/21<br/>         DEPARTAMENTO DE CUCUBATA</p> |                                           | <p><b>CONTENIDO:</b><br/> <b>DESPIECE DE ZAPATAS</b></p>                              |
| <p><b>ESTUDIANTE:</b><br/> <b>ORTIZ MORALES MARIO FERNANDO</b></p>                                                                                                   | <p><b>ESCALA:</b><br/> <b>1:50</b></p>    | <p><b>LAMINA:</b><br/> <b>3 / 22</b></p>                                              |
| <p><b>VoBo</b></p>                                                                                                                                                   | <p><b>FICHA:</b><br/> <b>OCT/2024</b></p> |                                                                                       |

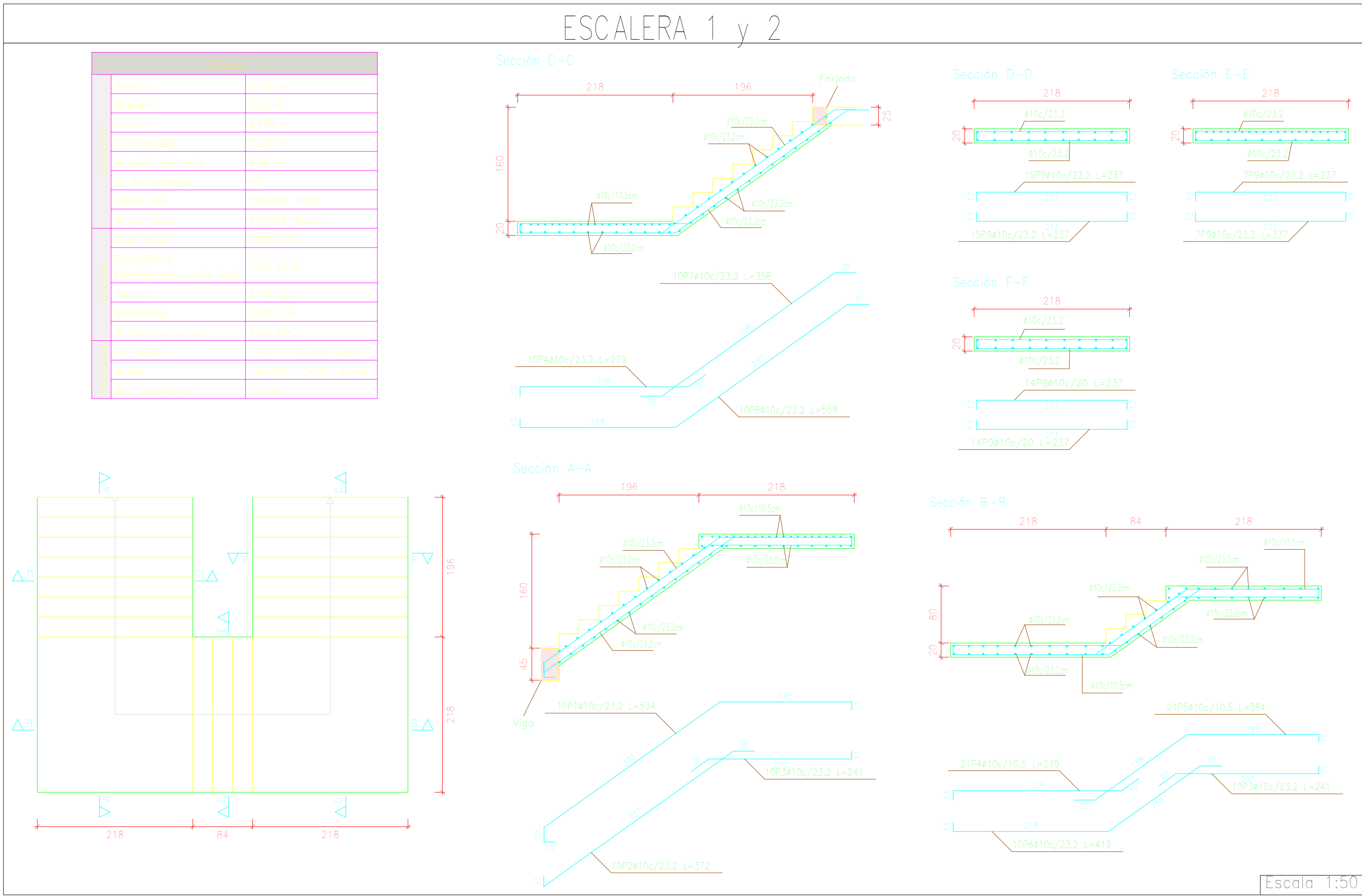
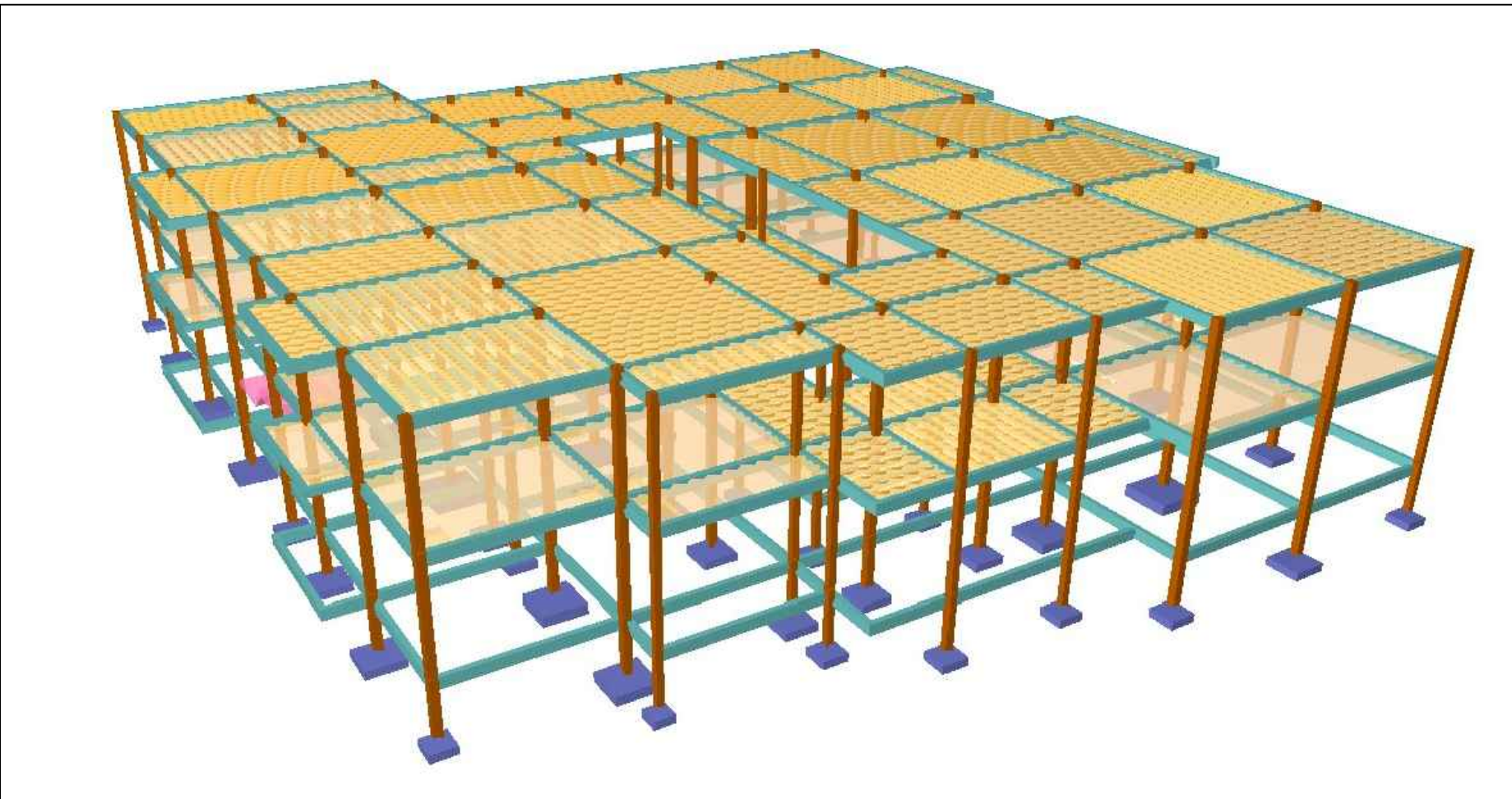
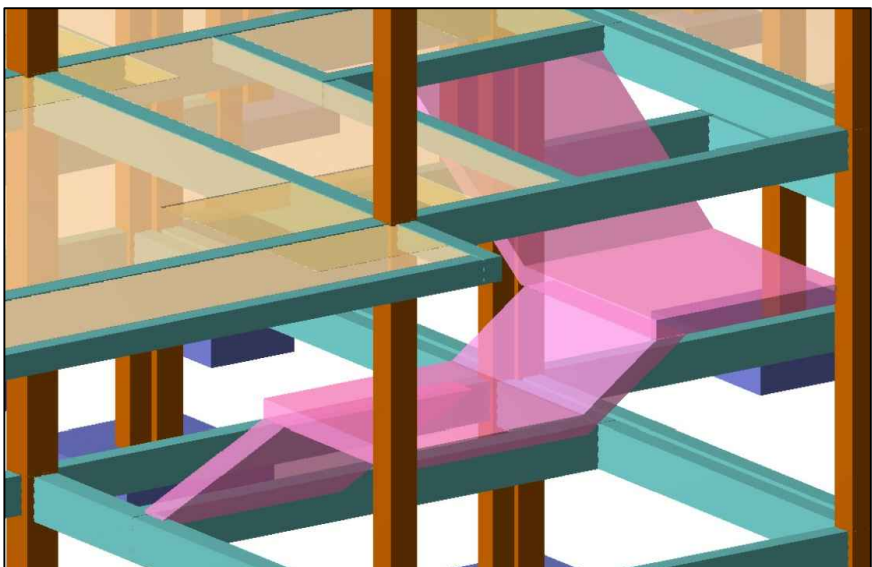
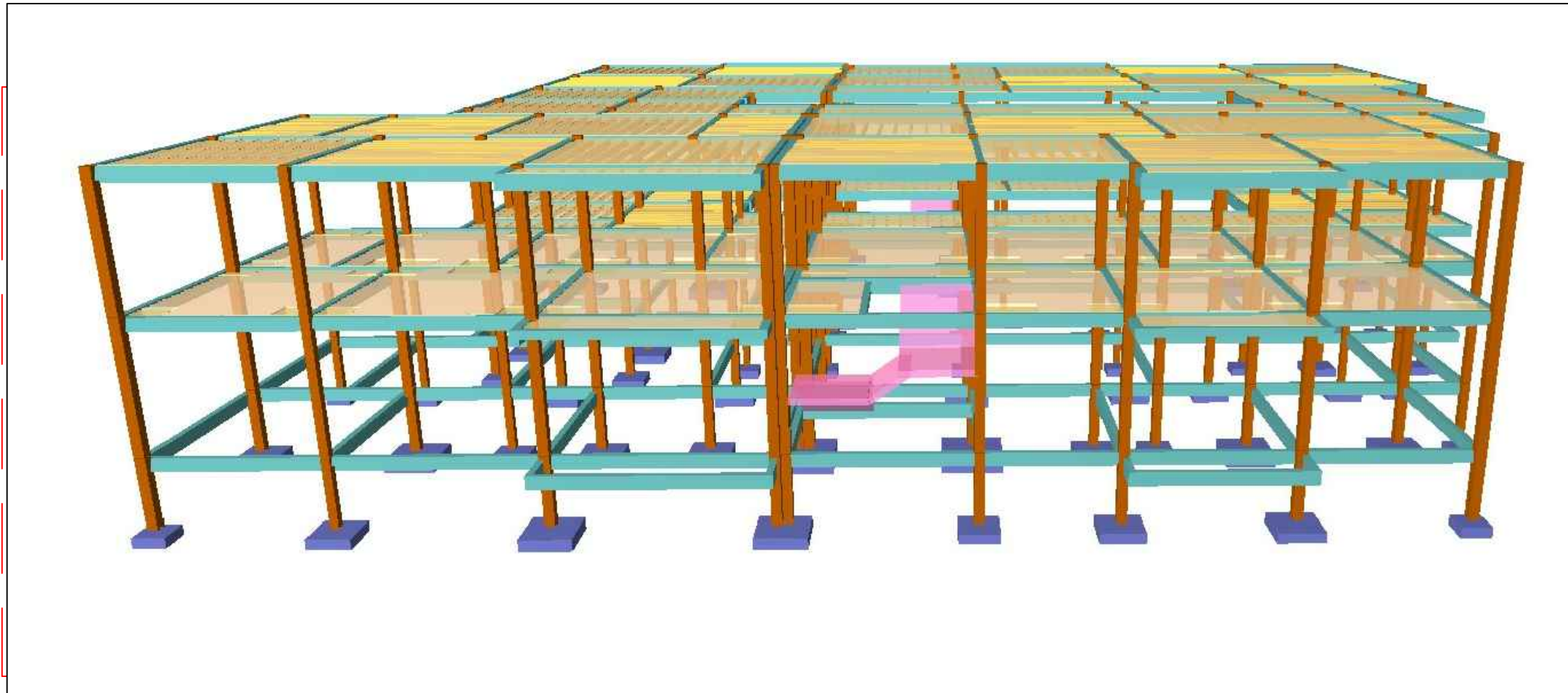
PLANO DE COLUMNAS



Cuadro de pilares  
Hormigón: H-21 , Control Normal  
Acero: AH-500 , Control Normal  
Escala: 1:50

| Resumen Acero | Long. total (m) | Peso+10% (kg) | Total |
|---------------|-----------------|---------------|-------|
| Pilares 1 a 3 |                 |               |       |
| AH-500CN #8   | 6277.4          | 1530          |       |
| #12           | 5856.8          | 5720          |       |
| #16           | 658.1           | 1131          | 8381  |

PLANO DE ESCALERAS



| Elemento   | Pos. | Diám. | No. | Long. (m) | Peso (kg) | Peso+10% (kg) |
|------------|------|-------|-----|-----------|-----------|---------------|
| ESCALERA 1 | 1    | #10   | 10  | 100       | 100       | 110           |
|            | 2    | #10   | 10  | 100       | 100       | 110           |
|            | 3    | #10   | 10  | 100       | 100       | 110           |
|            | 4    | #10   | 10  | 100       | 100       | 110           |
|            | 5    | #10   | 10  | 100       | 100       | 110           |
|            | 6    | #10   | 10  | 100       | 100       | 110           |
|            | 7    | #10   | 10  | 100       | 100       | 110           |
|            | 8    | #10   | 10  | 100       | 100       | 110           |
|            | 9    | #10   | 10  | 100       | 100       | 110           |
|            | 10   | #10   | 10  | 100       | 100       | 110           |
|            | 11   | #10   | 10  | 100       | 100       | 110           |
|            | 12   | #10   | 10  | 100       | 100       | 110           |
|            | 13   | #10   | 10  | 100       | 100       | 110           |
|            | 14   | #10   | 10  | 100       | 100       | 110           |
|            | 15   | #10   | 10  | 100       | 100       | 110           |
|            | 16   | #10   | 10  | 100       | 100       | 110           |
|            | 17   | #10   | 10  | 100       | 100       | 110           |
|            | 18   | #10   | 10  | 100       | 100       | 110           |
|            | 19   | #10   | 10  | 100       | 100       | 110           |
|            | 20   | #10   | 10  | 100       | 100       | 110           |
|            | 21   | #10   | 10  | 100       | 100       | 110           |
|            | 22   | #10   | 10  | 100       | 100       | 110           |
|            | 23   | #10   | 10  | 100       | 100       | 110           |
|            | 24   | #10   | 10  | 100       | 100       | 110           |
|            | 25   | #10   | 10  | 100       | 100       | 110           |
|            | 26   | #10   | 10  | 100       | 100       | 110           |
|            | 27   | #10   | 10  | 100       | 100       | 110           |
|            | 28   | #10   | 10  | 100       | 100       | 110           |
|            | 29   | #10   | 10  | 100       | 100       | 110           |
|            | 30   | #10   | 10  | 100       | 100       | 110           |
|            | 31   | #10   | 10  | 100       | 100       | 110           |
|            | 32   | #10   | 10  | 100       | 100       | 110           |
|            | 33   | #10   | 10  | 100       | 100       | 110           |
|            | 34   | #10   | 10  | 100       | 100       | 110           |
|            | 35   | #10   | 10  | 100       | 100       | 110           |
|            | 36   | #10   | 10  | 100       | 100       | 110           |
|            | 37   | #10   | 10  | 100       | 100       | 110           |
|            | 38   | #10   | 10  | 100       | 100       | 110           |
|            | 39   | #10   | 10  | 100       | 100       | 110           |
|            | 40   | #10   | 10  | 100       | 100       | 110           |
|            | 41   | #10   | 10  | 100       | 100       | 110           |
|            | 42   | #10   | 10  | 100       | 100       | 110           |
|            | 43   | #10   | 10  | 100       | 100       | 110           |
|            | 44   | #10   | 10  | 100       | 100       | 110           |
|            | 45   | #10   | 10  | 100       | 100       | 110           |
|            | 46   | #10   | 10  | 100       | 100       | 110           |
|            | 47   | #10   | 10  | 100       | 100       | 110           |
|            | 48   | #10   | 10  | 100       | 100       | 110           |
|            | 49   | #10   | 10  | 100       | 100       | 110           |
|            | 50   | #10   | 10  | 100       | 100       | 110           |
|            | 51   | #10   | 10  | 100       | 100       | 110           |
|            | 52   | #10   | 10  | 100       | 100       | 110           |
|            | 53   | #10   | 10  | 100       | 100       | 110           |
|            | 54   | #10   | 10  | 100       | 100       | 110           |
|            | 55   | #10   | 10  | 100       | 100       | 110           |
|            | 56   | #10   | 10  | 100       | 100       | 110           |
|            | 57   | #10   | 10  | 100       | 100       | 110           |
|            | 58   | #10   | 10  | 100       | 100       | 110           |
|            | 59   | #10   | 10  | 100       | 100       | 110           |
|            | 60   | #10   | 10  | 100       | 100       | 110           |
|            | 61   | #10   | 10  | 100       | 100       | 110           |
|            | 62   | #10   | 10  | 100       | 100       | 110           |
|            | 63   | #10   | 10  | 100       | 100       | 110           |
|            | 64   | #10   | 10  | 100       | 100       | 110           |
|            | 65   | #10   | 10  | 100       | 100       | 110           |
|            | 66   | #10   | 10  | 100       | 100       | 110           |
|            | 67   | #10   | 10  | 100       | 100       | 110           |
|            | 68   | #10   | 10  | 100       | 100       | 110           |
|            | 69   | #10   | 10  | 100       | 100       | 110           |
|            | 70   | #10   | 10  | 100       | 100       | 110           |
|            | 71   | #10   | 10  | 100       | 100       | 110           |
|            | 72   | #10   | 10  | 100       | 100       | 110           |
|            | 73   | #10   | 10  | 100       | 100       | 110           |
|            | 74   | #10   | 10  | 100       | 100       | 110           |
|            | 75   | #10   | 10  | 100       | 100       | 110           |
|            | 76   | #10   | 10  | 100       | 100       | 110           |
|            | 77   | #10   | 10  | 100       | 100       | 110           |
|            | 78   | #10   | 10  | 100       | 100       | 110           |
|            | 79   | #10   | 10  | 100       | 100       | 110           |
|            | 80   | #10   | 10  | 100       | 100       | 110           |
|            | 81   | #10   | 10  | 100       | 100       | 110           |
|            | 82   | #10   | 10  | 100       | 100       | 110           |
|            | 83   | #10   | 10  | 100       | 100       | 110           |
|            | 84   | #10   | 10  | 100       | 100       | 110           |
|            | 85   | #10   | 10  | 100       | 100       | 110           |
|            | 86   | #10   | 10  | 100       | 100       | 110           |
|            | 87   | #10   | 10  | 100       | 100       | 110           |
|            | 88   | #10   | 10  | 100       | 100       | 110           |
|            | 89   | #10   | 10  | 100       | 100       | 110           |
|            | 90   | #10   | 10  | 100       | 100       | 110           |
|            | 91   | #10   | 10  | 100       | 100       | 110           |
|            | 92   | #10   | 10  | 100       | 100       | 110           |
|            | 93   | #10   | 10  | 100       | 100       | 110           |
|            | 94   | #10   | 10  | 100       | 100       | 110           |
|            | 95   | #10   | 10  | 100       | 100       | 110           |
|            | 96   | #10   | 10  | 100       | 100       | 110           |
|            | 97   | #10   | 10  | 100       | 100       | 110           |
|            | 98   | #10   | 10  | 100       | 100       | 110           |
|            | 99   | #10   | 10  | 100       | 100       | 110           |
|            | 100  | #10   | 10  | 100       | 100       | 110           |

| Resumen Acero<br>ESCALERA 3 | Long. total<br>(m) | Peso+10%<br>(kg) |
|-----------------------------|--------------------|------------------|
| AH-500CN    #10             | 610.22             | 4145             |

| Elemento   | Pos. | Diám. | No. | Long. (m) | Peso (kg) | Peso+10% (kg) |
|------------|------|-------|-----|-----------|-----------|---------------|
| ESCALERA 1 | 1    | #10   | 10  | 100       | 100       | 110           |
|            | 2    | #10   | 10  | 100       | 100       | 110           |
|            | 3    | #10   | 10  | 100       | 100       | 110           |
|            | 4    | #10   | 10  | 100       | 100       | 110           |
|            | 5    | #10   | 10  | 100       | 100       | 110           |
|            | 6    | #10   | 10  | 100       | 100       | 110           |
|            | 7    | #10   | 10  | 100       | 100       | 110           |
|            | 8    | #10   | 10  | 100       | 100       | 110           |
|            | 9    | #10   | 10  | 100       | 100       | 110           |
|            | 10   | #10   | 10  | 100       | 100       | 110           |
|            | 11   | #10   | 10  | 100       | 100       | 110           |
|            | 12   | #10   | 10  | 100       | 100       | 110           |
|            | 13   | #10   | 10  | 100       | 100       | 110           |
|            | 14   | #10   | 10  | 100       | 100       | 110           |
|            | 15   | #10   | 10  | 100       | 100       | 110           |
|            | 16   | #10   | 10  | 100       | 100       | 110           |
|            | 17   | #10   | 10  | 100       | 100       | 110           |
|            | 18   | #10   | 10  | 100       | 100       | 110           |
|            | 19   | #10   | 10  | 100       | 100       | 110           |
|            | 20   | #10   | 10  | 100       | 100       | 110           |
|            | 21   | #10   | 10  | 100       | 100       | 110           |
|            | 22   | #10   | 10  | 100       | 100       | 110           |
|            | 23   | #10   | 10  | 100       | 100       | 110           |
|            | 24   | #10   | 10  | 100       | 100       | 110           |
|            | 25   | #10   | 10  | 100       | 100       | 110           |
|            | 26   | #10   | 10  | 100       | 100       | 110           |
|            | 27   | #10   | 10  | 100       | 100       | 110           |
|            | 28   | #10   | 10  | 100       | 100       | 110           |
|            | 29   | #10   | 10  | 100       | 100       | 110           |
|            | 30   | #10   | 10  | 100       | 100       | 110           |
|            | 31   | #10   | 10  | 100       | 100       | 110           |
|            | 32   | #10   | 10  | 100       | 100       | 110           |
|            | 33   | #10   | 10  | 100       | 100       | 110           |
|            | 34   | #10   | 10  | 100       | 100       | 110           |
|            | 35   | #10   | 10  | 100       | 100       | 110           |
|            | 36   | #10   | 10  | 100       | 100       | 110           |
|            | 37   | #10   | 10  | 100       | 100       | 110           |
|            | 38   | #10   | 10  | 100       | 100       | 110           |
|            | 39   | #10   | 10  | 100       | 100       | 110           |
|            | 40   | #10   | 10  | 100       | 100       | 110           |
|            | 41   | #10   | 10  | 100       | 100       | 110           |
|            | 42   | #10   | 10  | 100       | 100       | 110           |
|            | 43   | #10   | 10  | 100       | 100       | 110           |
|            | 44   | #10   | 10  | 100       | 100       | 110           |
|            | 45   | #10   | 10  | 100       | 100       | 110           |
|            | 46   | #10   | 10  | 100       | 100       | 110           |
|            | 47   | #10   | 10  | 100       | 100       | 110           |
|            | 48   | #10   | 10  | 100       | 100       | 110           |
|            | 49   | #10   | 10  | 100       | 100       | 110           |
|            | 50   | #10   | 10  | 100       | 100       | 110           |
|            | 51   | #10   | 10  | 100       | 100       | 110           |
|            | 52   | #10   | 10  | 100       | 100       | 110           |
|            | 53   | #10   | 10  | 100       | 100       | 110           |
|            | 54   | #10   | 10  | 100       | 100       | 110           |
|            | 55   | #10   | 10  | 100       | 100       | 110           |
|            | 56   | #10   | 10  | 100       | 100       | 110           |
|            | 57   | #10   | 10  | 100       | 100       | 110           |
|            | 58   | #10   | 10  | 100       | 100       | 110           |
|            | 59   | #10   | 10  | 100       | 100       | 110           |
|            | 60   | #10   | 10  | 100       | 100       | 110           |
|            | 61   | #10   | 10  | 100       | 100       | 110           |
|            | 62   | #10   | 10  | 100       | 100       | 110           |
|            | 63   | #10   | 10  | 100       | 100       | 110           |
|            | 64   | #10   | 10  | 100       | 100       | 110           |
|            | 65   | #10   | 10  | 100       | 100       | 110           |
|            | 66   | #10   | 10  | 100       | 100       | 110           |
|            | 67   | #10   | 10  | 100       | 100       | 110           |
|            | 68   | #10   | 10  | 100       | 100       | 110           |
|            | 69   | #10   | 10  | 100       | 100       | 110           |
|            | 70   | #10   | 10  | 100       | 100       | 110           |
|            | 71   | #10   | 10  | 100       | 100       | 110           |
|            | 72   | #10   | 10  | 100       | 100       | 110           |
|            | 73   | #10   | 10  | 100       | 100       | 110           |
|            | 74   | #10   | 10  | 100       | 100       | 110           |
|            | 75   | #10   | 10  | 100       | 100       | 110           |
|            | 76   | #10   | 10  | 100       | 100       | 110           |
|            | 77   | #10   | 10  | 100       | 100       | 110           |
|            | 78   | #10   | 10  | 100       | 100       | 110           |
|            | 79   | #10   | 10  | 100       | 100       | 110           |
|            | 80   | #10   | 10  | 100       | 100       | 110           |
|            | 81   | #10   | 10  | 100       | 100       | 110           |
|            | 82   | #10   | 10  | 100       | 100       | 110           |
|            | 83   | #10   | 10  | 100       | 100       | 110           |
|            | 84   | #10   | 10  | 100       | 100       | 110           |
|            | 85   | #10   | 10  | 100       | 100       | 110           |
|            | 86   | #10   | 10  | 100       | 100       | 110           |
|            | 87   | #10   | 10  | 100       | 100       | 110           |
|            | 88   | #10   | 10  | 100       | 100       | 110           |
|            | 89   | #10   | 10  | 100       | 100       | 110           |
|            | 90   | #10   | 10  | 100       | 100       | 110           |
|            | 91   | #10   | 10  | 100       | 100       | 110           |
|            | 92   | #10   | 10  | 100       | 100       | 110           |
|            | 93   | #10   | 10  | 100       | 100       | 110           |
|            | 94   | #10   | 10  | 100       | 100       | 110           |
|            | 95   | #10   | 10  | 100       | 100       | 110           |
|            | 96   | #10   | 10  | 100       | 100       | 110           |
|            | 97   | #10   | 10  | 100       | 100       | 110           |
|            | 98   | #10   | 10  | 100       | 100       | 110           |
|            | 99   | #10   | 10  | 100       | 100       | 110           |
|            | 100  | #10   | 10  | 100       | 100       | 110           |

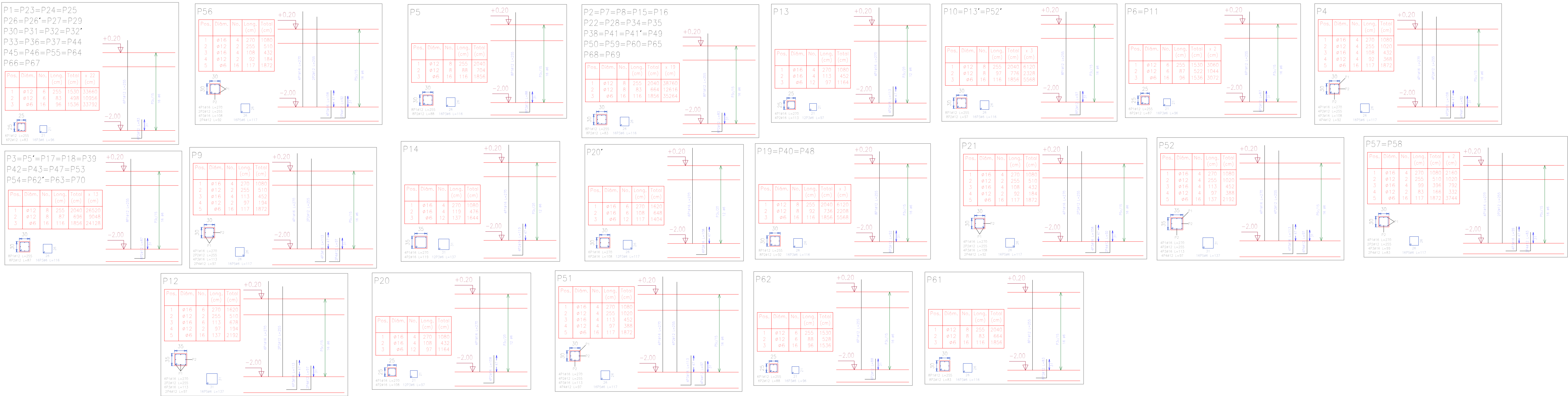
| Resumen Acero | Long. total | Peso+10% |
|---------------|-------------|----------|
| ESCALERA 3    | (m)         | (kg)     |
| 4H-500CN Ø10  | 610,22      | 4445     |

# COLUMNAS QUE TERMINAN EN PLANTA BAJA

# PLANO DE COLUMNAS

Pilares que terminan en PLANTA BAJA  
Hormigón: H-21 , Control Normal  
Acero: AH-500 , Control Normal  
Escala: 1:50

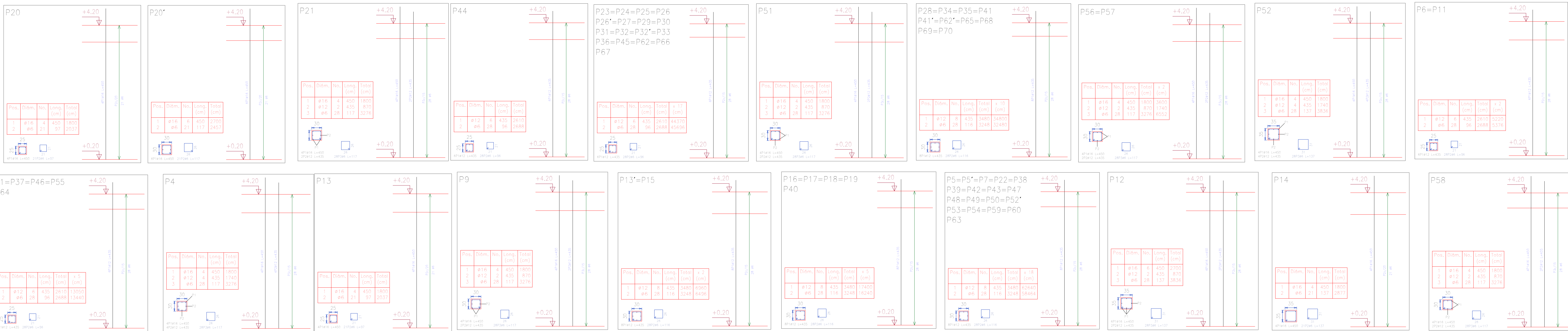
| Resumen Acero | Long. total | Peso a 105 | Total |
|---------------|-------------|------------|-------|
| PLANTA BAJA   | (m)         | (kg)       |       |
| AH-500CN #6   | 1380.5      | 332        |       |
| #12           | 1697.3      | 1658       |       |
| #16           | 212.5       | 369        | 2359  |



# COLUMNAS QUE TERMINAN EN PRIMER PISO

Pilares que terminan en PRIMER PISO  
Hormigón: H-21 , Control Normal  
Acero: AH-500 , Control Normal  
Escala: 1:50

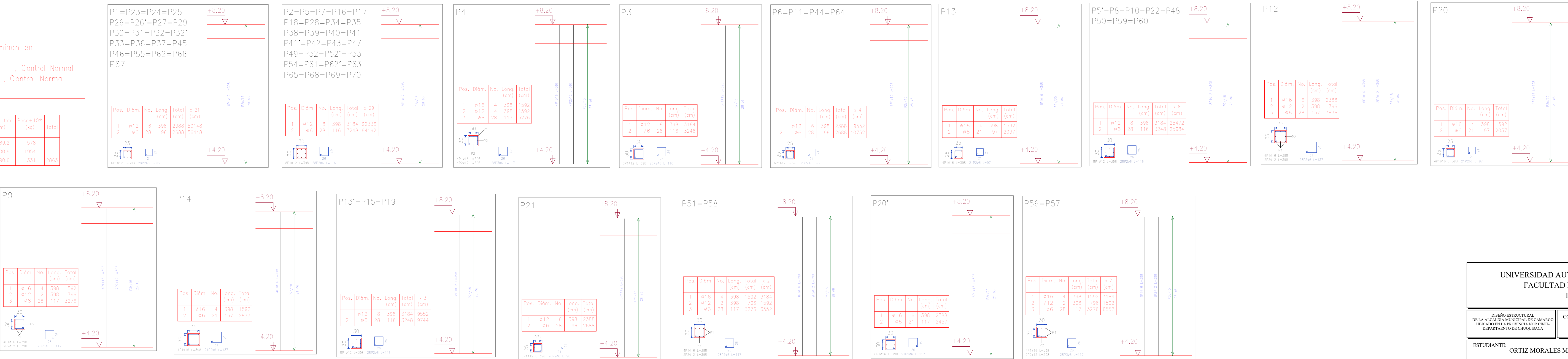
| Resumen Acero | Long. total | Peso a 105 | Total |
|---------------|-------------|------------|-------|
| PRIMER PISO   | (m)         | (kg)       |       |
| AH-500CN #6   | 2380.9      | 581        |       |
| #12           | 2157.6      | 2107       |       |
| #16           | 252.0       | 438        | 3126  |



# COLUMNAS QUE TERMINAN EN CUBIERTA

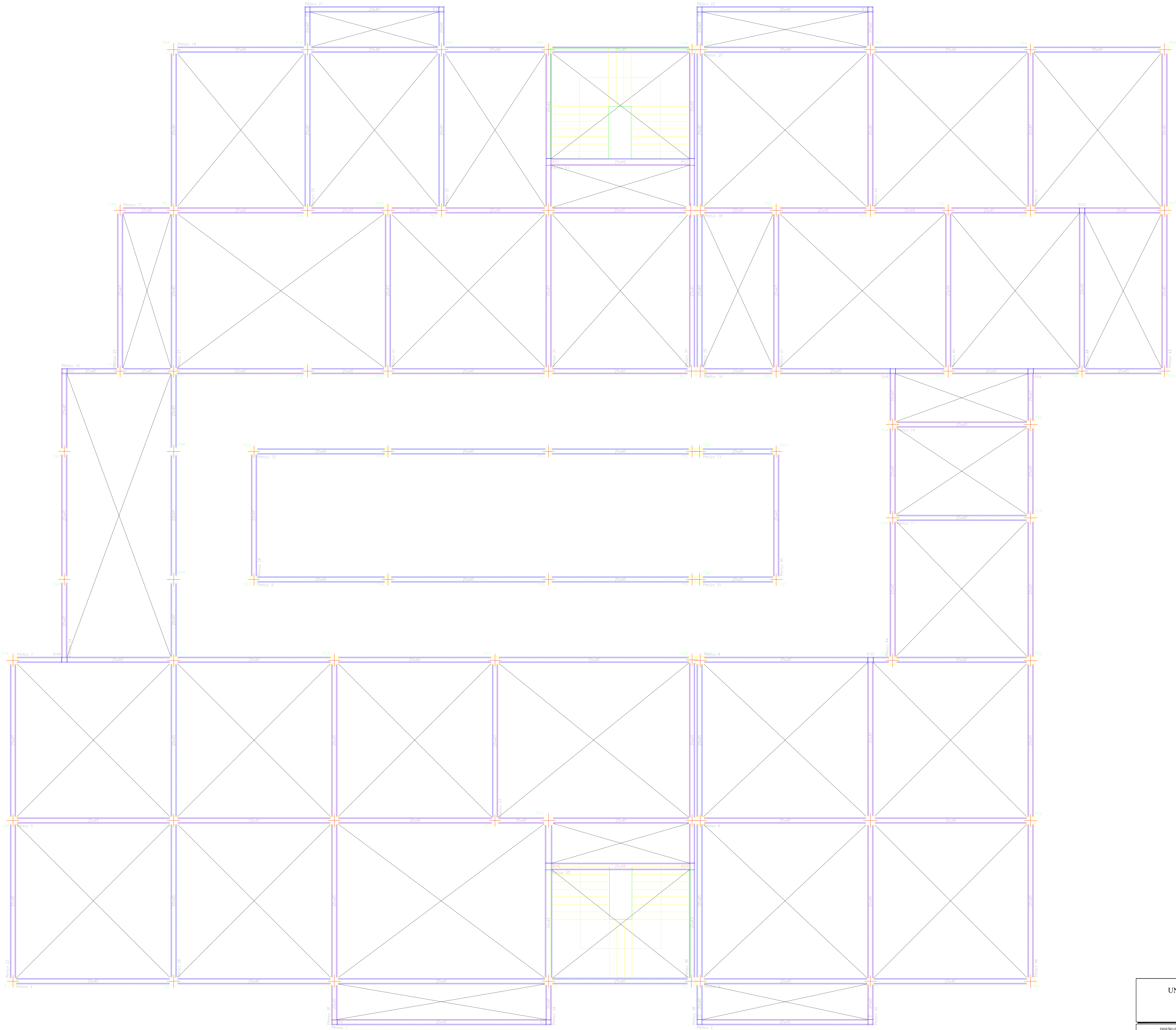
Pilares que terminan en CUBIERTA  
Hormigón: H-21 , Control Normal  
Acero: AH-500 , Control Normal  
Escala: 1:50

| Resumen Acero | Long. total | Peso a 105 | Total |
|---------------|-------------|------------|-------|
| CUBIERTA      | (m)         | (kg)       |       |
| AH-500CN #6   | 2389.2      | 578        |       |
| #12           | 2000.9      | 1954       |       |
| #16           | 190.6       | 331        | 2863  |



VIGAS DE LA PLANTA BAJA

PLANTA BAJA  
Norma: N-21  
Escala: 1:40



VIGAS DE LA PLANTA BAJA

PLANTA BAJA  
Respecto de vigas  
normales:  $\phi=20$ , Control Normal  
Acero:  $A_{st}=500$ , Control Normal  
Escala: 1:50

| Resumen Acero PLANTA BAJA Vigas |           | Long. total (m) | Peso 100% (kg) | Total |
|---------------------------------|-----------|-----------------|----------------|-------|
| Ar-500N                         | $\phi 6$  | 2146.1          | 324            | 3719  |
|                                 | $\phi 8$  | 251.8           | 110            |       |
|                                 | $\phi 12$ | 2768.8          | 2704           |       |
|                                 | $\phi 16$ | 69.7            | 121            |       |
|                                 | $\phi 20$ | 59.4            | 161            |       |
|                                 | $\phi 25$ | 22.4            | 95             |       |

| Elemento | Peso | Obra | Nº | Long. (m) | Peso (kg) | Total (kg) | Ar-500N (kg) |
|----------|------|------|----|-----------|-----------|------------|--------------|
| Pélico 1 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 2 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 3 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |

| Elemento | Peso | Obra | Nº | Long. (m) | Peso (kg) | Total (kg) | Ar-500N (kg) |
|----------|------|------|----|-----------|-----------|------------|--------------|
| Pélico 4 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 5 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 6 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |

| Elemento | Peso | Obra | Nº | Long. (m) | Peso (kg) | Total (kg) | Ar-500N (kg) |
|----------|------|------|----|-----------|-----------|------------|--------------|
| Pélico 7 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 8 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 9 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|          | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |

| Elemento  | Peso | Obra | Nº | Long. (m) | Peso (kg) | Total (kg) | Ar-500N (kg) |
|-----------|------|------|----|-----------|-----------|------------|--------------|
| Pélico 10 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 11 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 12 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |

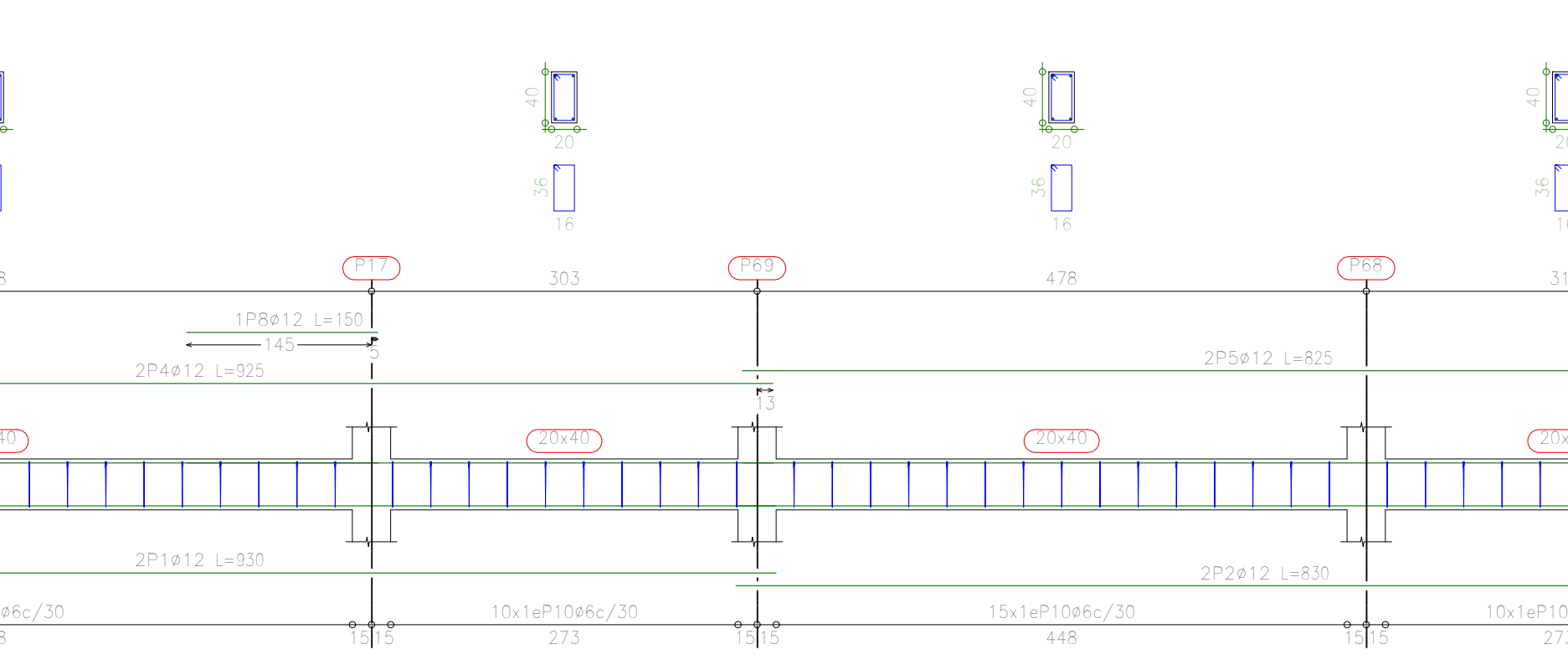
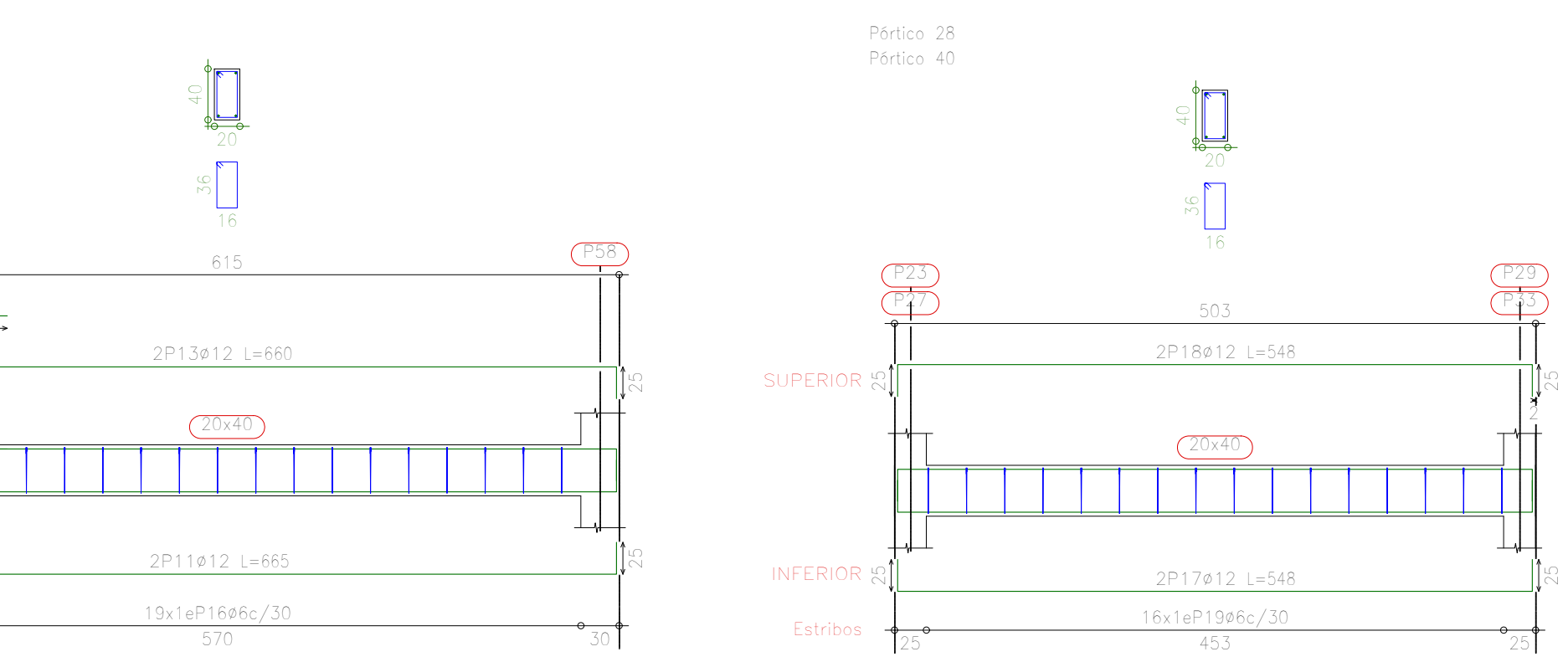
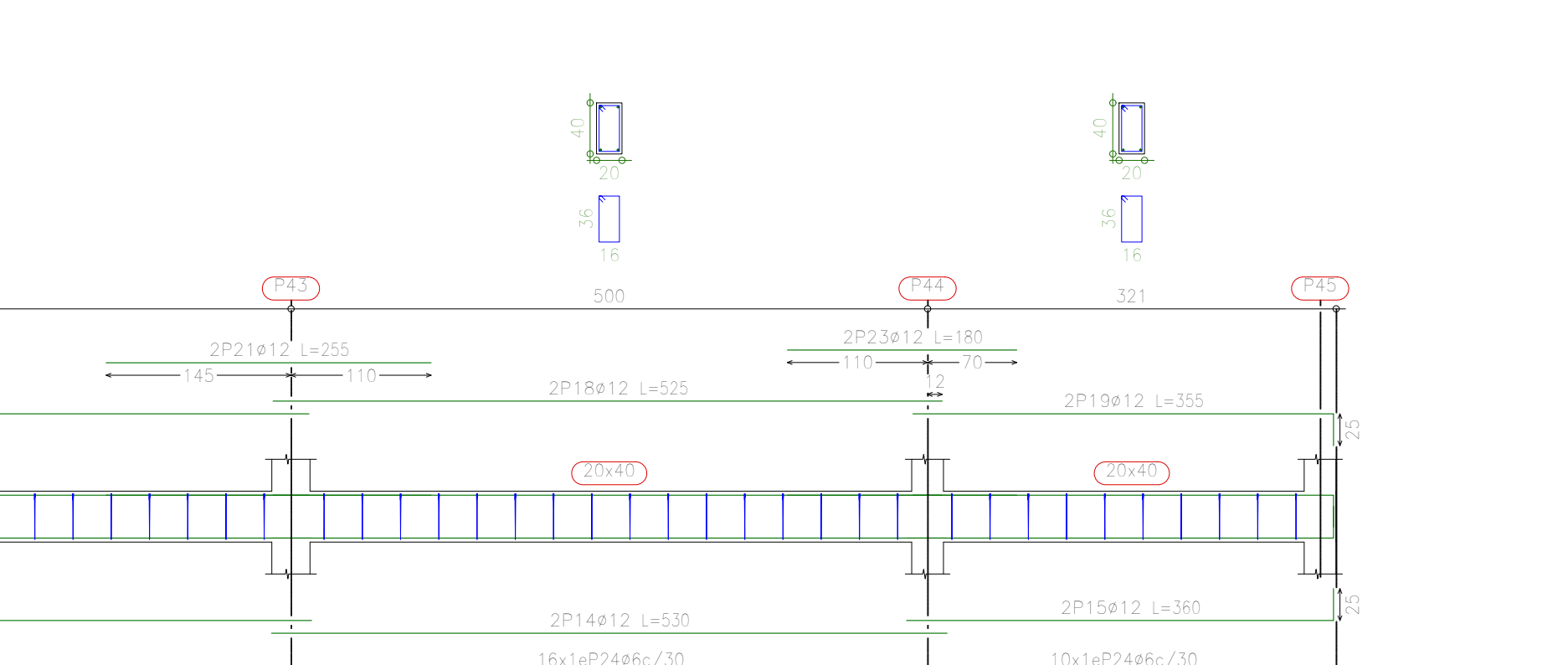
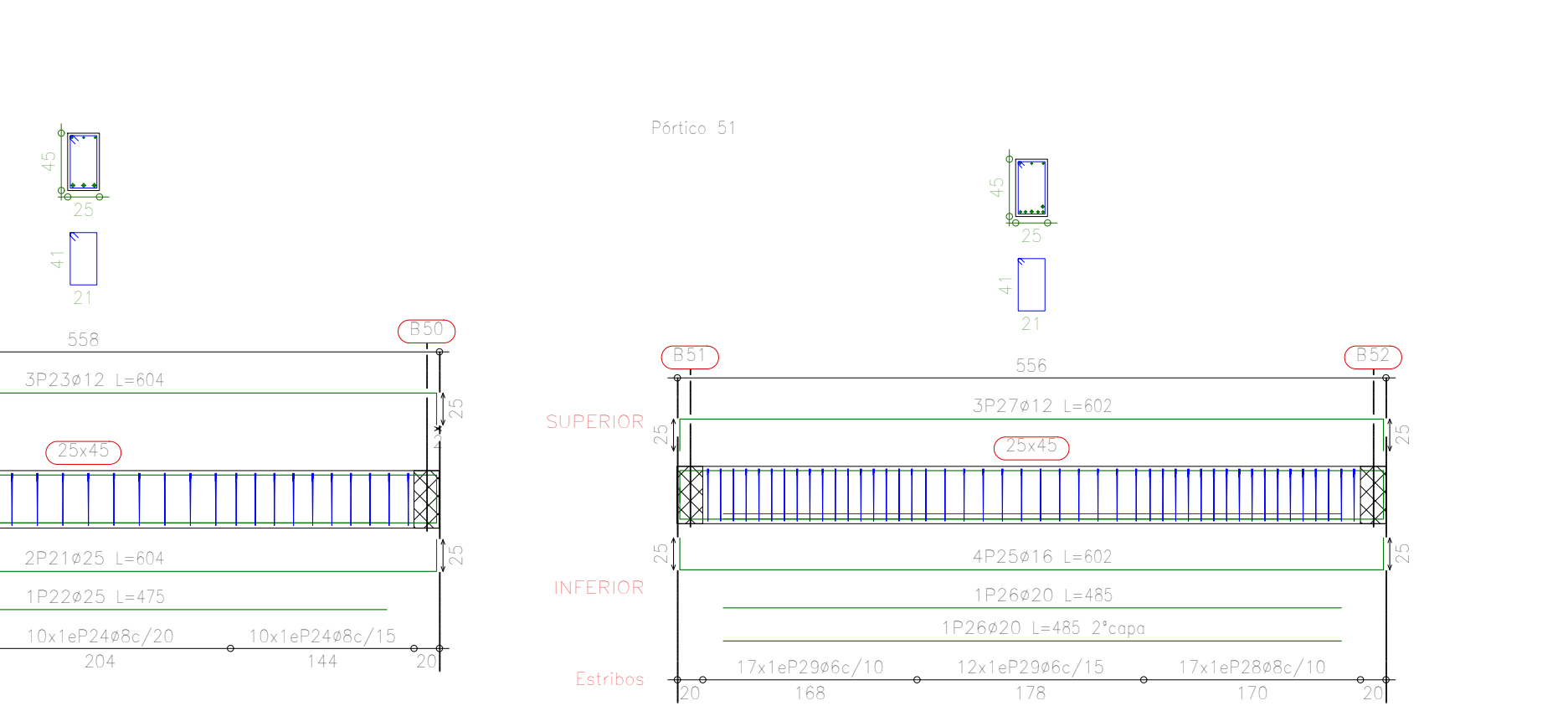
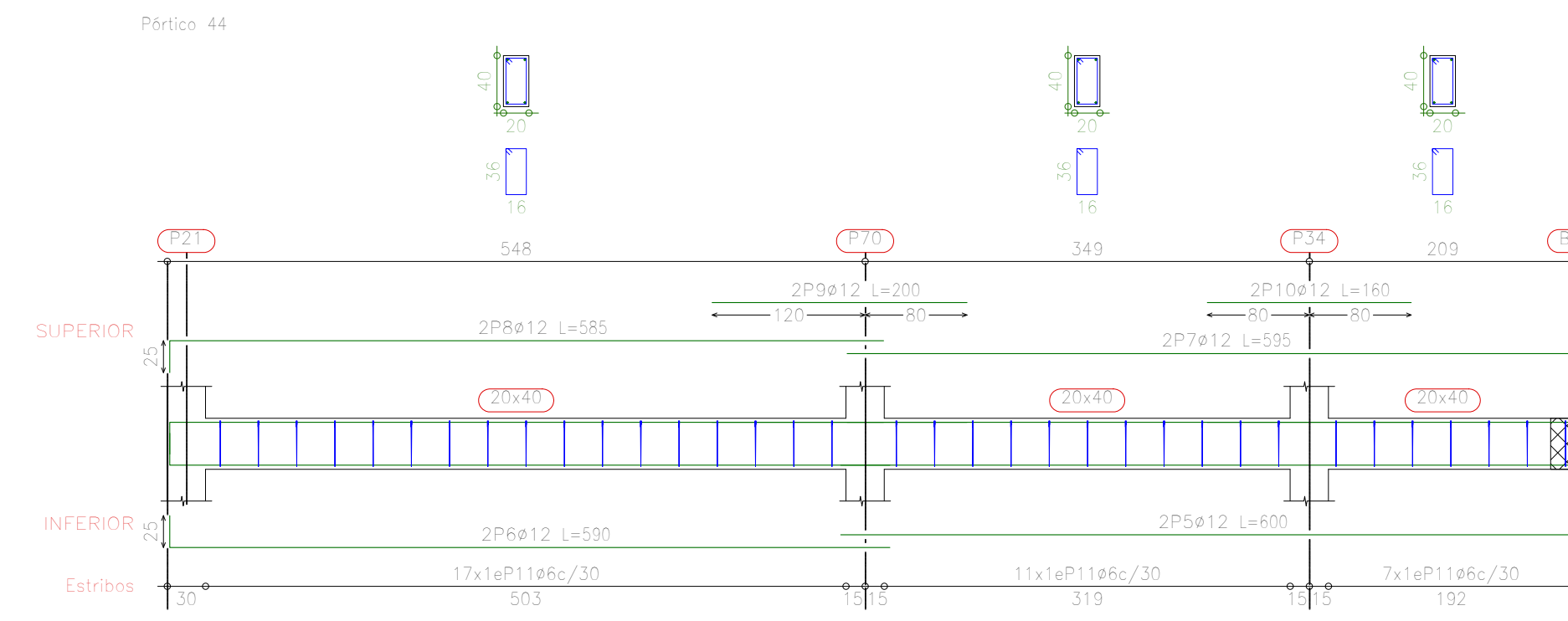
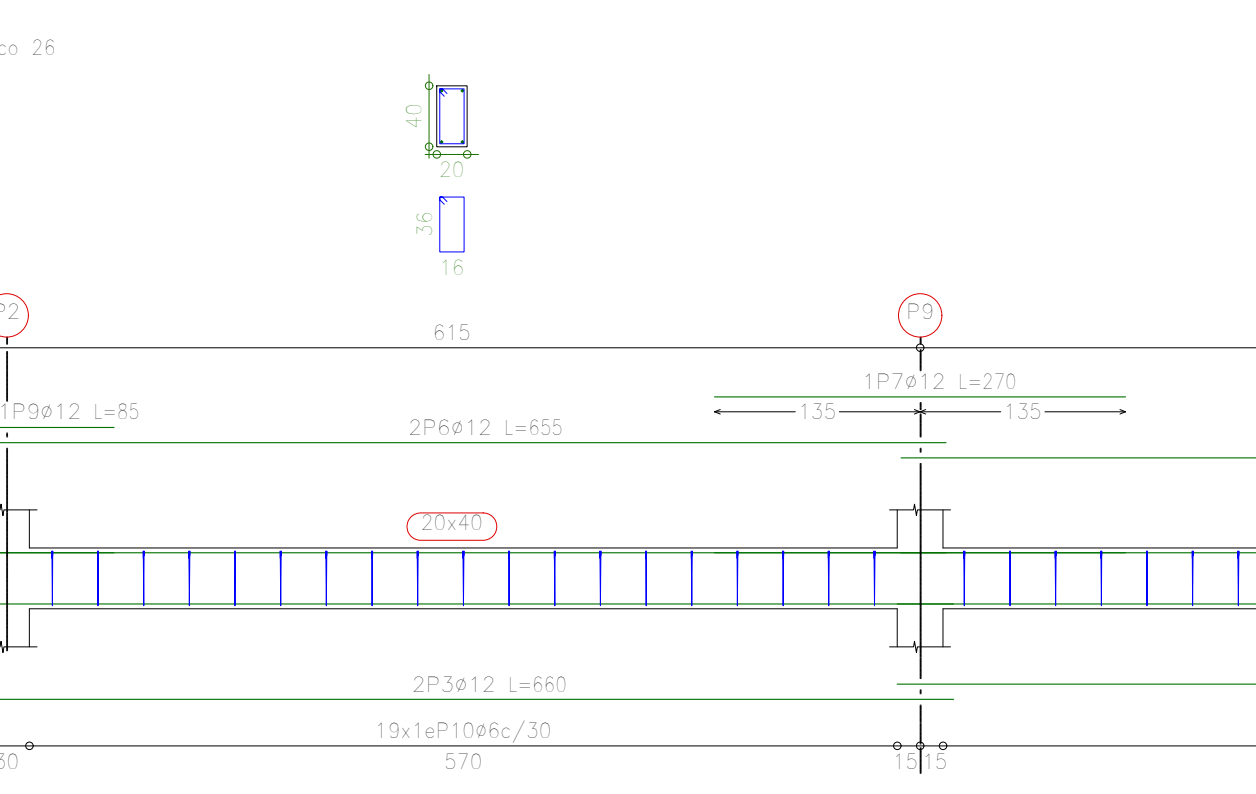
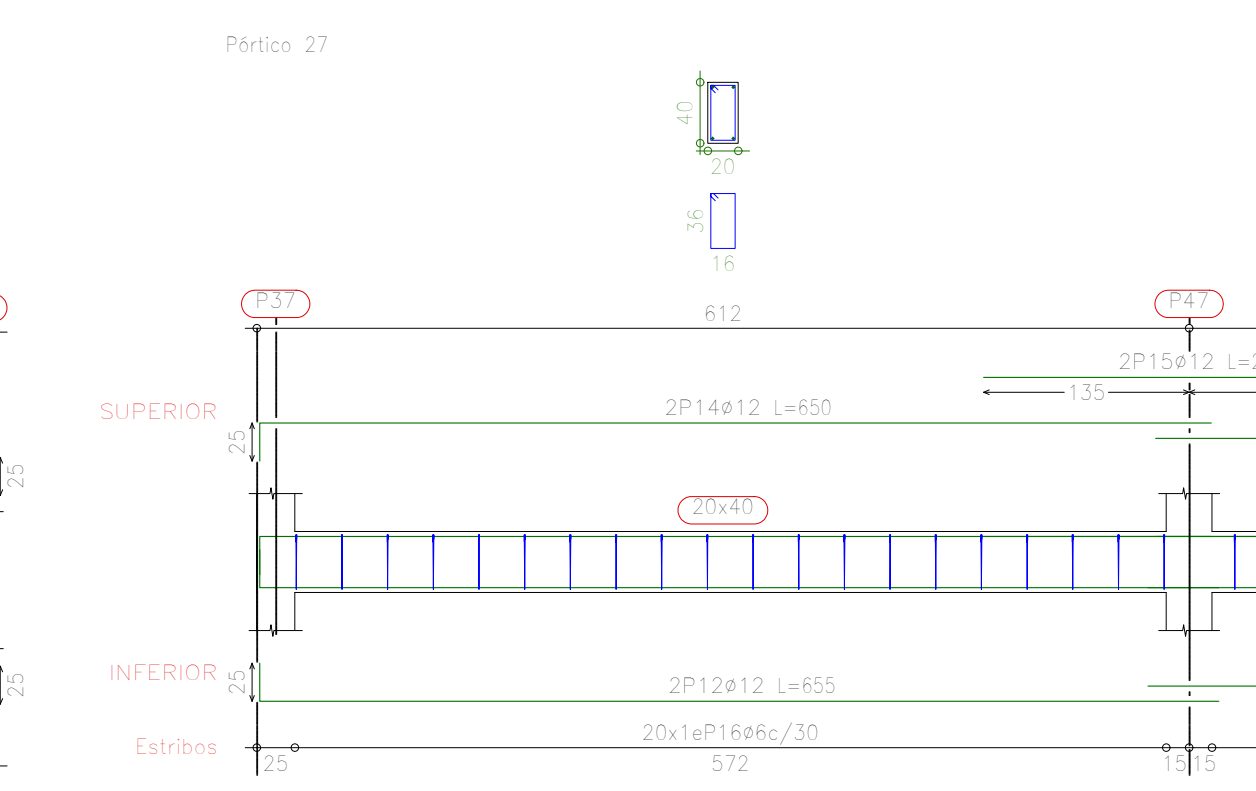
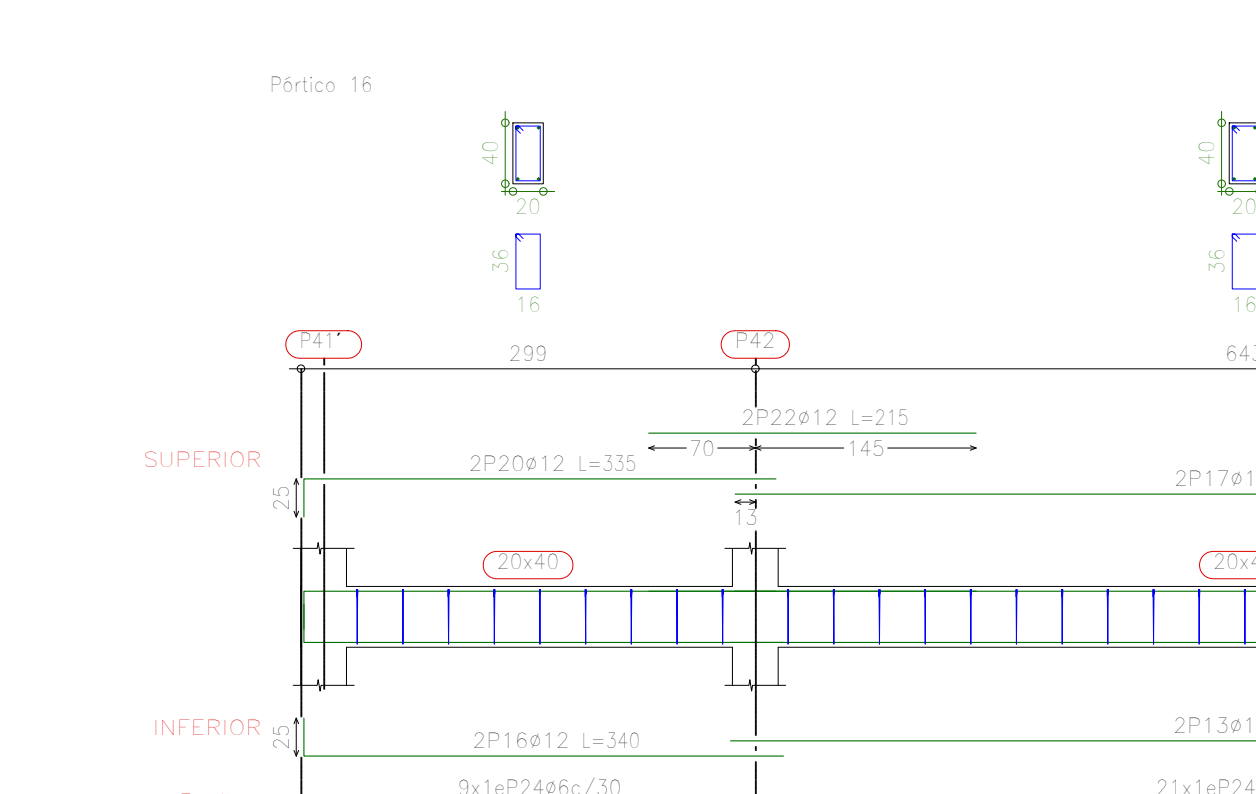
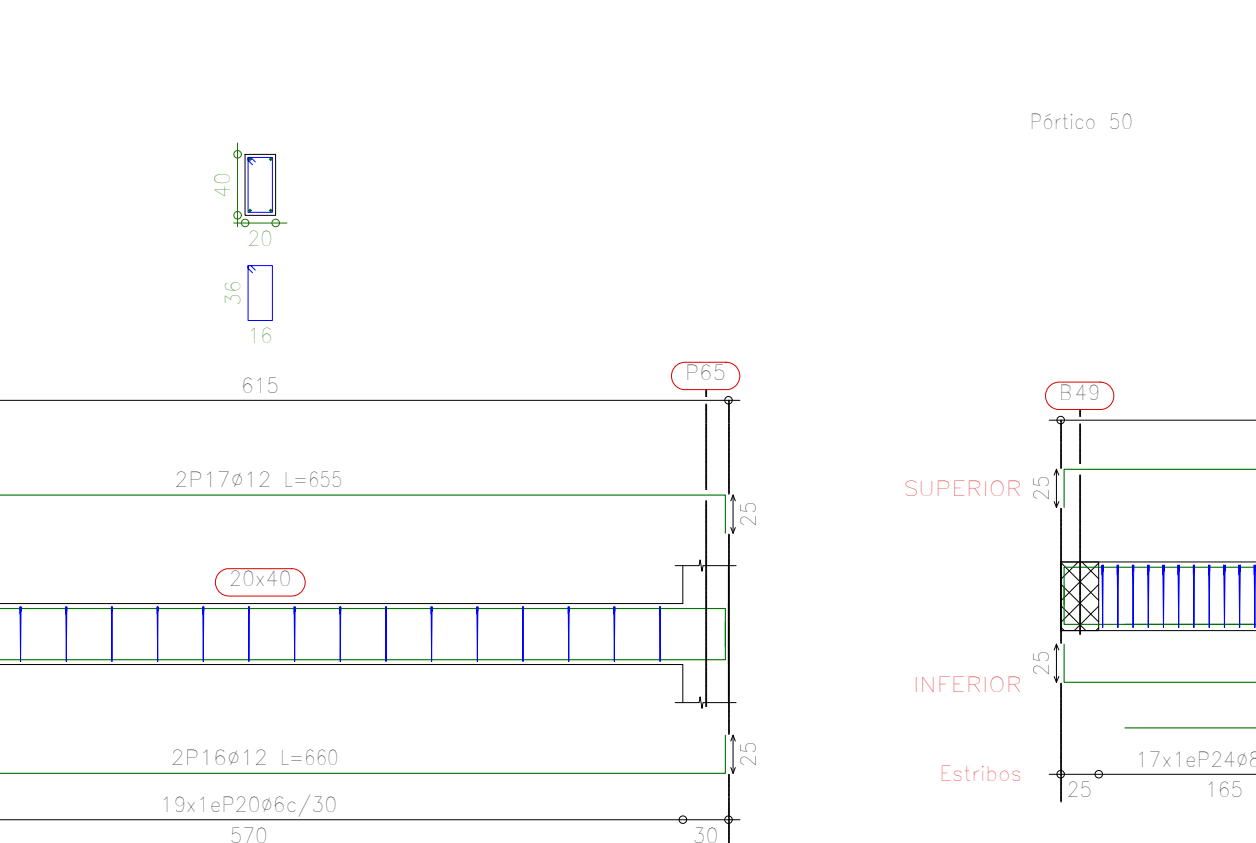
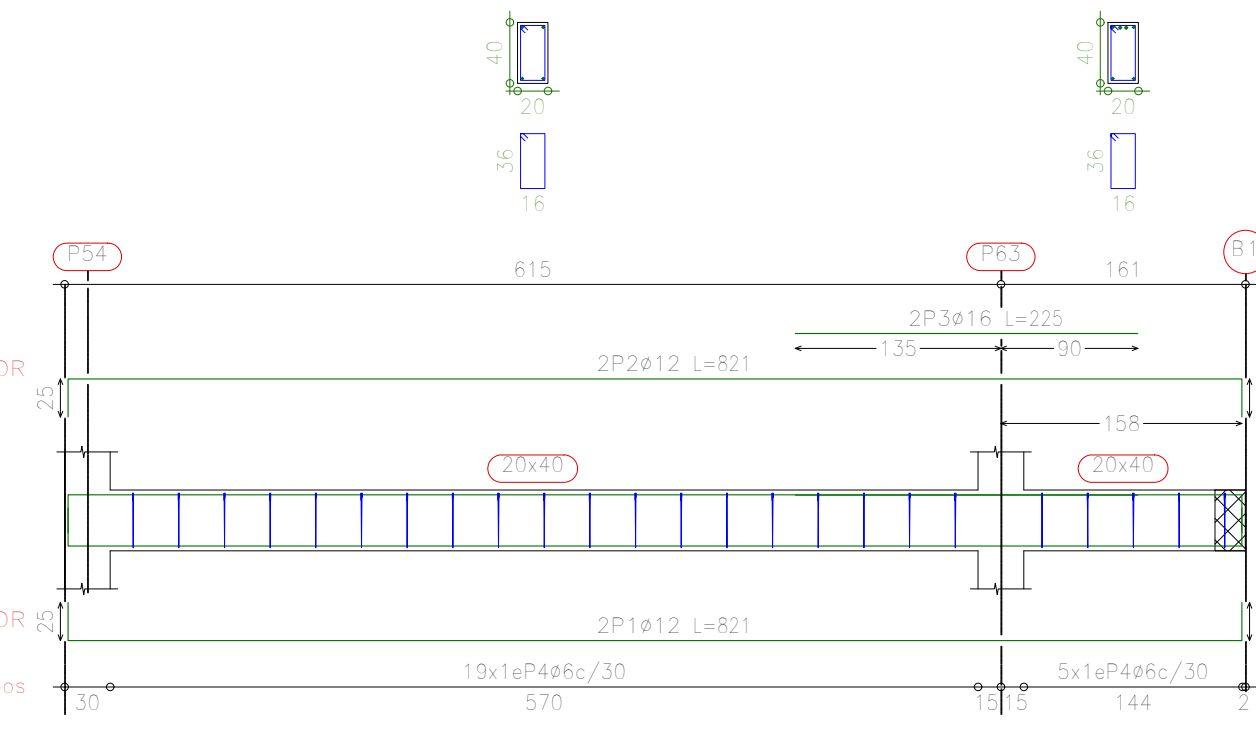
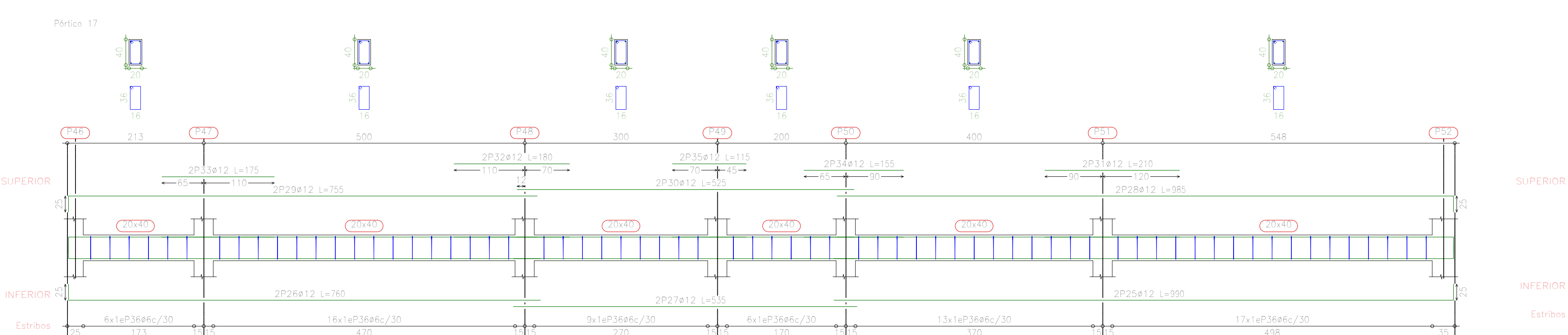
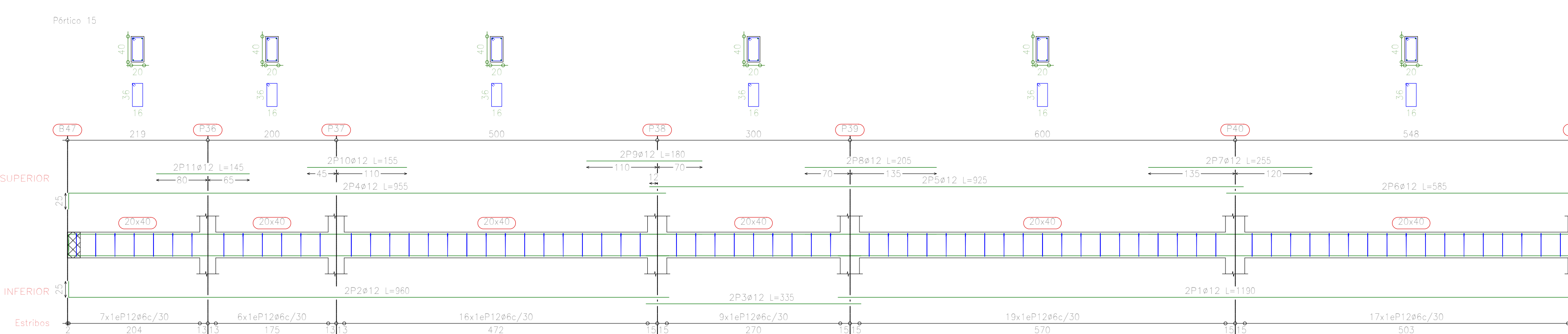
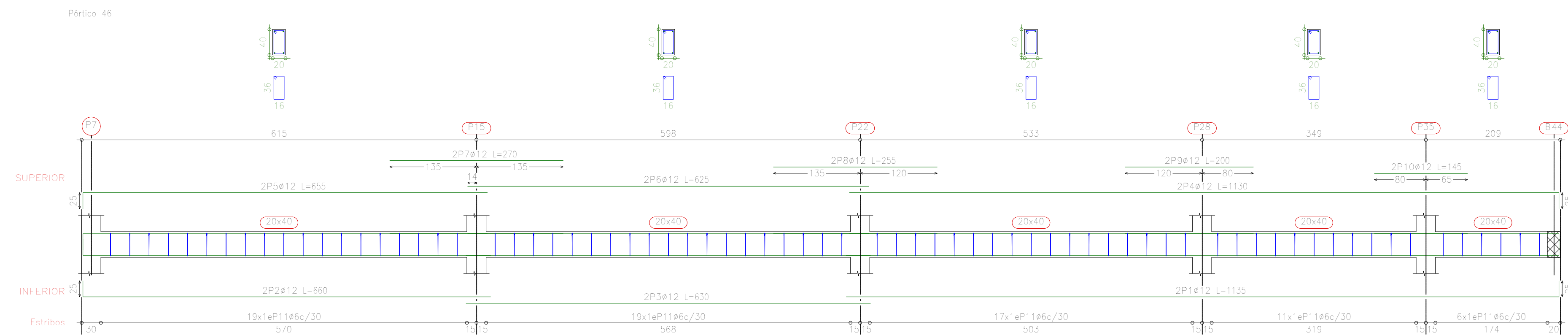
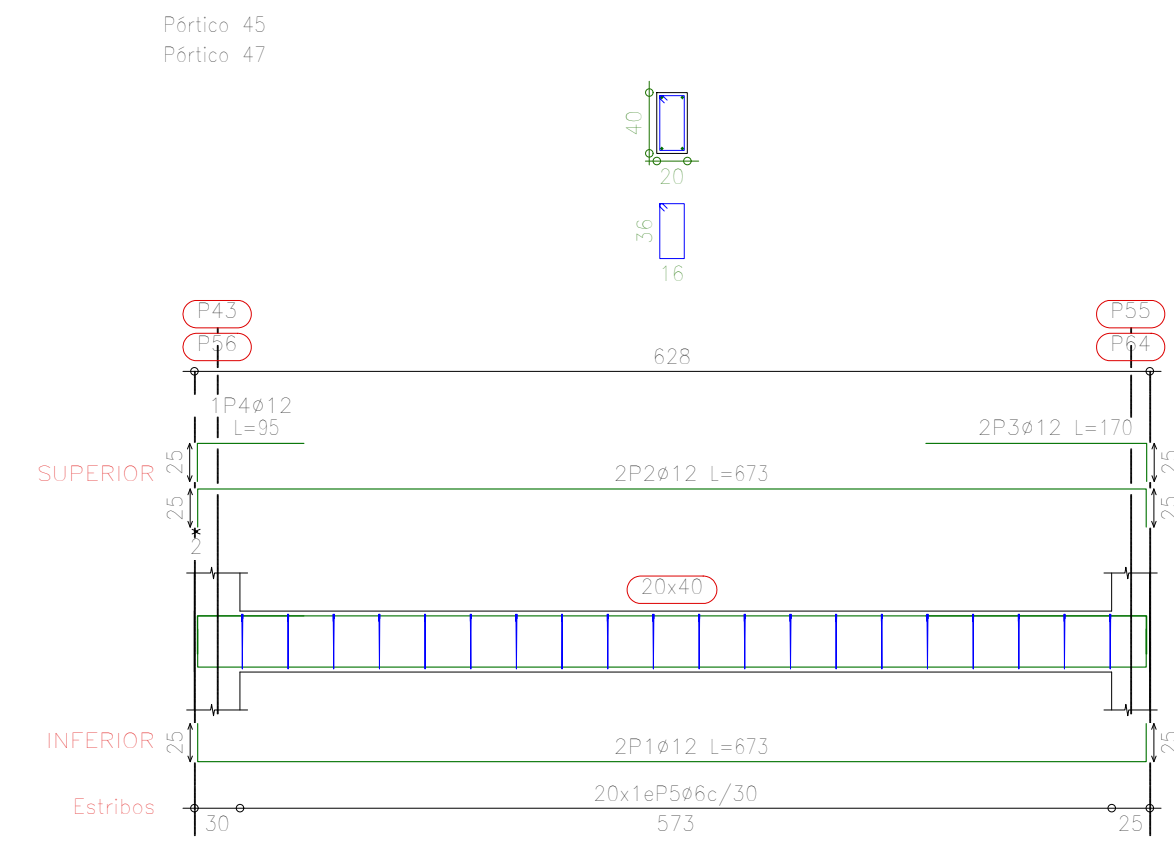
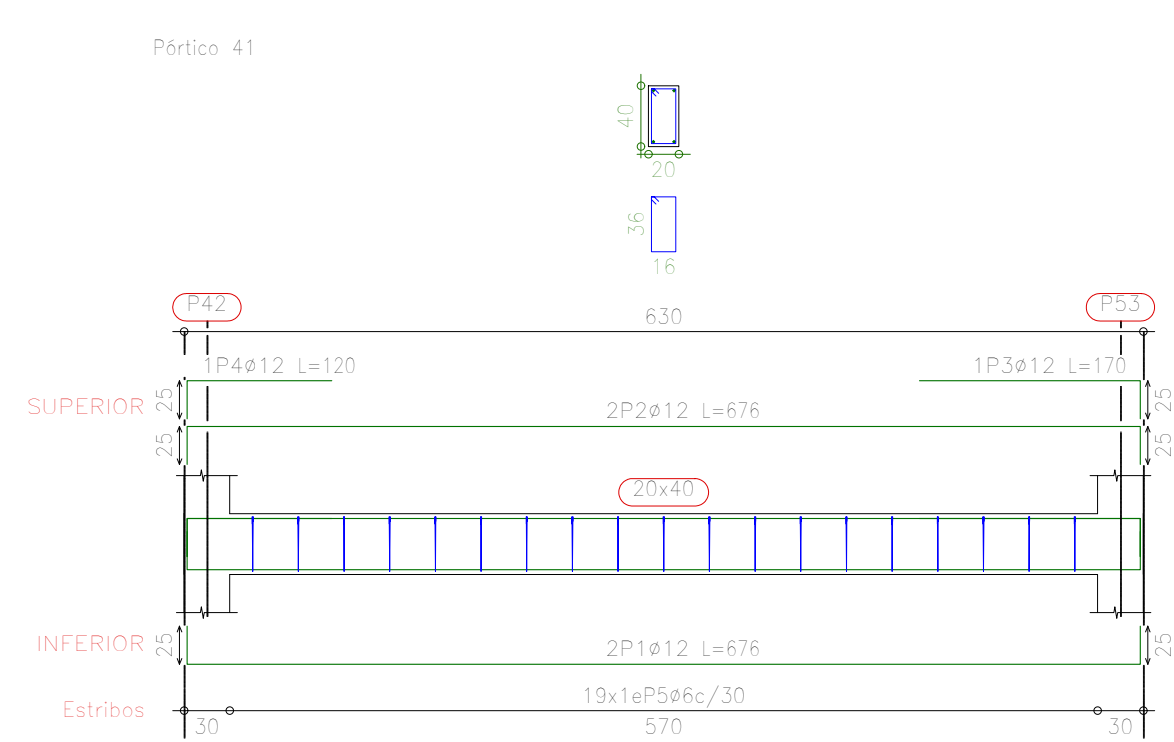
| Elemento  | Peso | Obra | Nº | Long. (m) | Peso (kg) | Total (kg) | Ar-500N (kg) |
|-----------|------|------|----|-----------|-----------|------------|--------------|
| Pélico 13 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 14 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 15 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |

| Elemento  | Peso | Obra | Nº | Long. (m) | Peso (kg) | Total (kg) | Ar-500N (kg) |
|-----------|------|------|----|-----------|-----------|------------|--------------|
| Pélico 16 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 17 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 18 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |

| Elemento  | Peso | Obra | Nº | Long. (m) | Peso (kg) | Total (kg) | Ar-500N (kg) |
|-----------|------|------|----|-----------|-----------|------------|--------------|
| Pélico 19 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 20 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 21 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |

| Elemento  | Peso | Obra | Nº | Long. (m) | Peso (kg) | Total (kg) | Ar-500N (kg) |
|-----------|------|------|----|-----------|-----------|------------|--------------|
| Pélico 22 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 23 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
| Pélico 24 | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |
|           | 1.1  | 2.2  | 1  | 1.1       | 1.1       | 1.1        | 1.1          |

VIGAS DE LA PLANTA BAJA



| Elemento | Pos. | Bar. | Long. | Vol.  | Peso |
|----------|------|------|-------|-------|------|
| Viga 41  | L    | 4#12 | 120   | 0.001 | 0.01 |
|          | L    | 2#12 | 676   | 0.002 | 0.02 |
|          | L    | 1#12 | 676   | 0.001 | 0.01 |
|          | L    | 1#12 | 676   | 0.001 | 0.01 |
| Viga 41  |      |      |       |       | 0.04 |
| Viga 45  |      |      |       |       | 0.04 |
| Viga 47  |      |      |       |       | 0.04 |
| Viga 46  |      |      |       |       | 0.04 |
| Viga 15  |      |      |       |       | 0.04 |
| Viga 17  |      |      |       |       | 0.04 |
| Viga 16  |      |      |       |       | 0.04 |
| Viga 27  |      |      |       |       | 0.04 |
| Viga 26  |      |      |       |       | 0.04 |
| Viga 28  |      |      |       |       | 0.04 |
| Viga 40  |      |      |       |       | 0.04 |
| Viga 29  |      |      |       |       | 0.04 |
| Viga 40  |      |      |       |       | 0.04 |
| Viga 25  |      |      |       |       | 0.04 |

| Elemento | Pos. | Bar. | Long. | Vol.  | Peso |
|----------|------|------|-------|-------|------|
| Viga 41  | L    | 4#12 | 120   | 0.001 | 0.01 |
|          | L    | 2#12 | 676   | 0.002 | 0.02 |
|          | L    | 1#12 | 676   | 0.001 | 0.01 |
|          | L    | 1#12 | 676   | 0.001 | 0.01 |
| Viga 41  |      |      |       |       | 0.04 |
| Viga 45  |      |      |       |       | 0.04 |
| Viga 47  |      |      |       |       | 0.04 |
| Viga 46  |      |      |       |       | 0.04 |
| Viga 15  |      |      |       |       | 0.04 |
| Viga 17  |      |      |       |       | 0.04 |
| Viga 16  |      |      |       |       | 0.04 |
| Viga 27  |      |      |       |       | 0.04 |
| Viga 26  |      |      |       |       | 0.04 |
| Viga 28  |      |      |       |       | 0.04 |
| Viga 40  |      |      |       |       | 0.04 |
| Viga 29  |      |      |       |       | 0.04 |
| Viga 40  |      |      |       |       | 0.04 |
| Viga 25  |      |      |       |       | 0.04 |

| Elemento | Pos. | Bar. | Long. | Vol.  | Peso |
|----------|------|------|-------|-------|------|
| Viga 41  | L    | 4#12 | 120   | 0.001 | 0.01 |
|          | L    | 2#12 | 676   | 0.002 | 0.02 |
|          | L    | 1#12 | 676   | 0.001 | 0.01 |
|          | L    | 1#12 | 676   | 0.001 | 0.01 |
| Viga 41  |      |      |       |       | 0.04 |
| Viga 45  |      |      |       |       | 0.04 |
| Viga 47  |      |      |       |       | 0.04 |
| Viga 46  |      |      |       |       | 0.04 |
| Viga 15  |      |      |       |       | 0.04 |
| Viga 17  |      |      |       |       | 0.04 |
| Viga 16  |      |      |       |       | 0.04 |
| Viga 27  |      |      |       |       | 0.04 |
| Viga 26  |      |      |       |       | 0.04 |
| Viga 28  |      |      |       |       | 0.04 |
| Viga 40  |      |      |       |       | 0.04 |
| Viga 29  |      |      |       |       | 0.04 |
| Viga 40  |      |      |       |       | 0.04 |
| Viga 25  |      |      |       |       | 0.04 |

| Elemento | Pos. | Bar. | Long. | Vol.  | Peso |
|----------|------|------|-------|-------|------|
| Viga 41  | L    | 4#12 | 120   | 0.001 | 0.01 |
|          | L    | 2#12 | 676   | 0.002 | 0.02 |
|          | L    | 1#12 | 676   | 0.001 | 0.01 |
|          | L    | 1#12 | 676   | 0.001 | 0.01 |
| Viga 41  |      |      |       |       | 0.04 |
| Viga 45  |      |      |       |       | 0.04 |
| Viga 47  |      |      |       |       | 0.04 |
| Viga 46  |      |      |       |       | 0.04 |
| Viga 15  |      |      |       |       | 0.04 |
| Viga 17  |      |      |       |       | 0.04 |
| Viga 16  |      |      |       |       | 0.04 |
| Viga 27  |      |      |       |       | 0.04 |
| Viga 26  |      |      |       |       | 0.04 |
| Viga 28  |      |      |       |       | 0.04 |
| Viga 40  |      |      |       |       | 0.04 |
| Viga 29  |      |      |       |       | 0.04 |
| Viga 40  |      |      |       |       | 0.04 |
| Viga 25  |      |      |       |       | 0.04 |

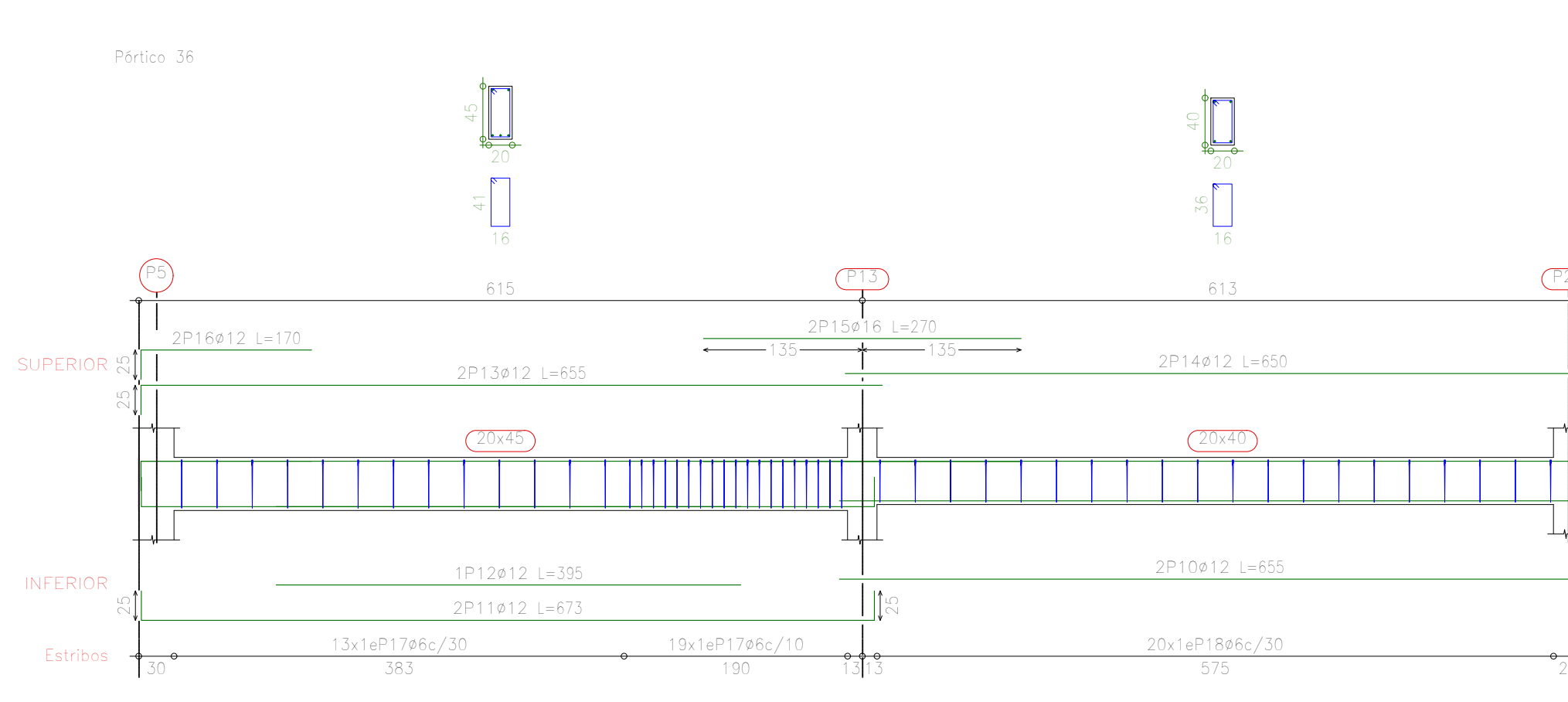
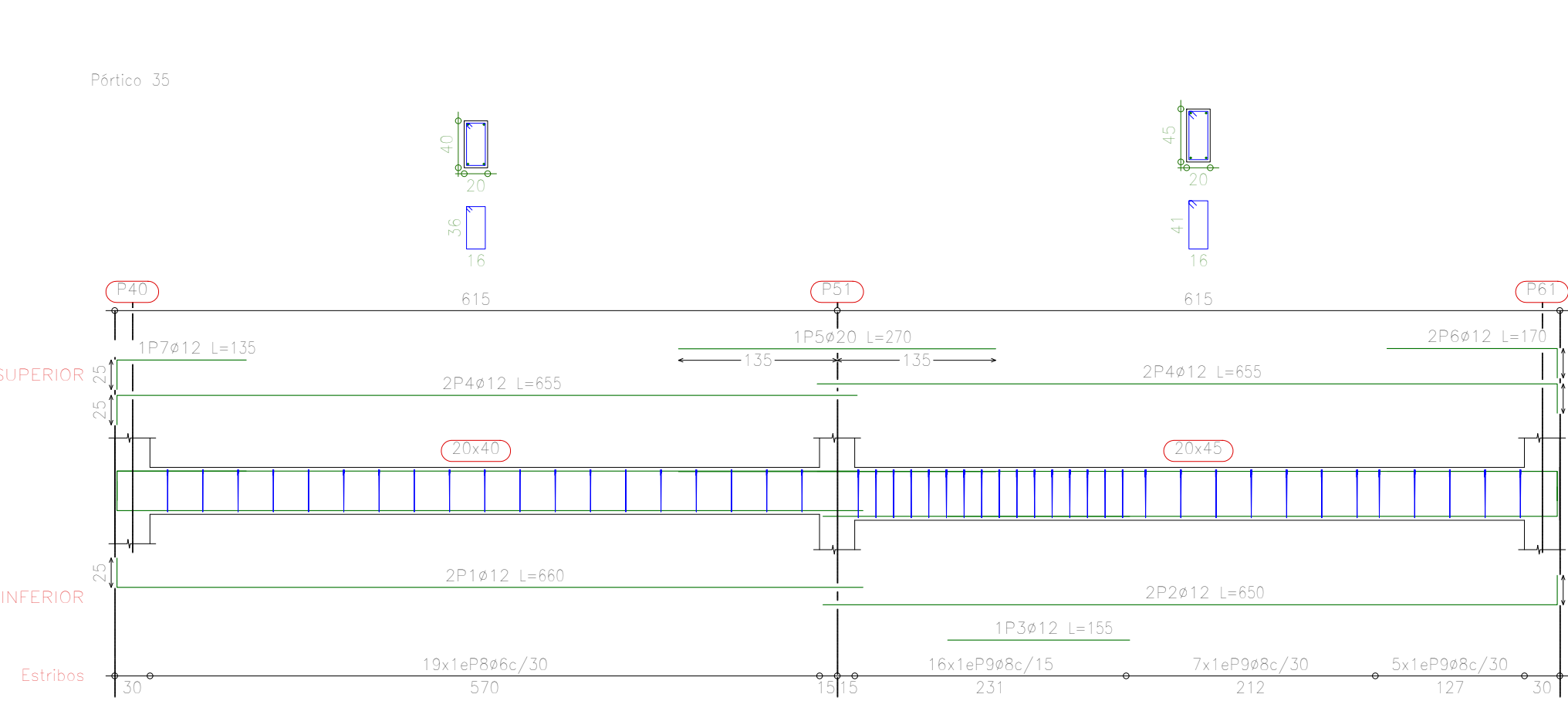
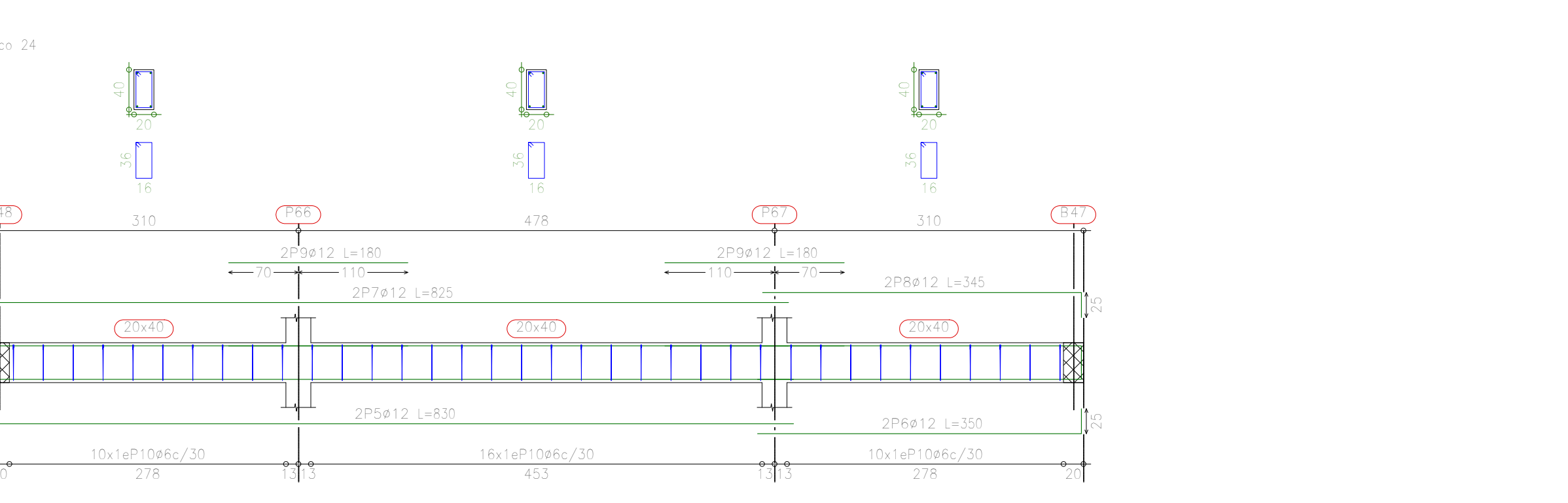
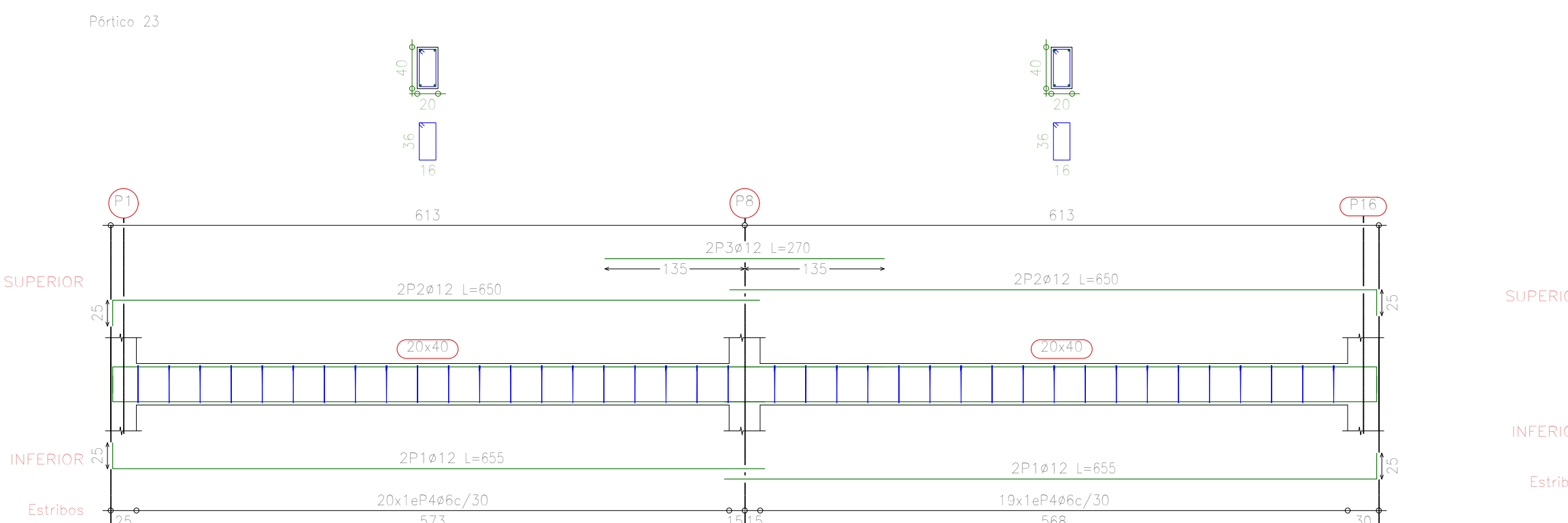
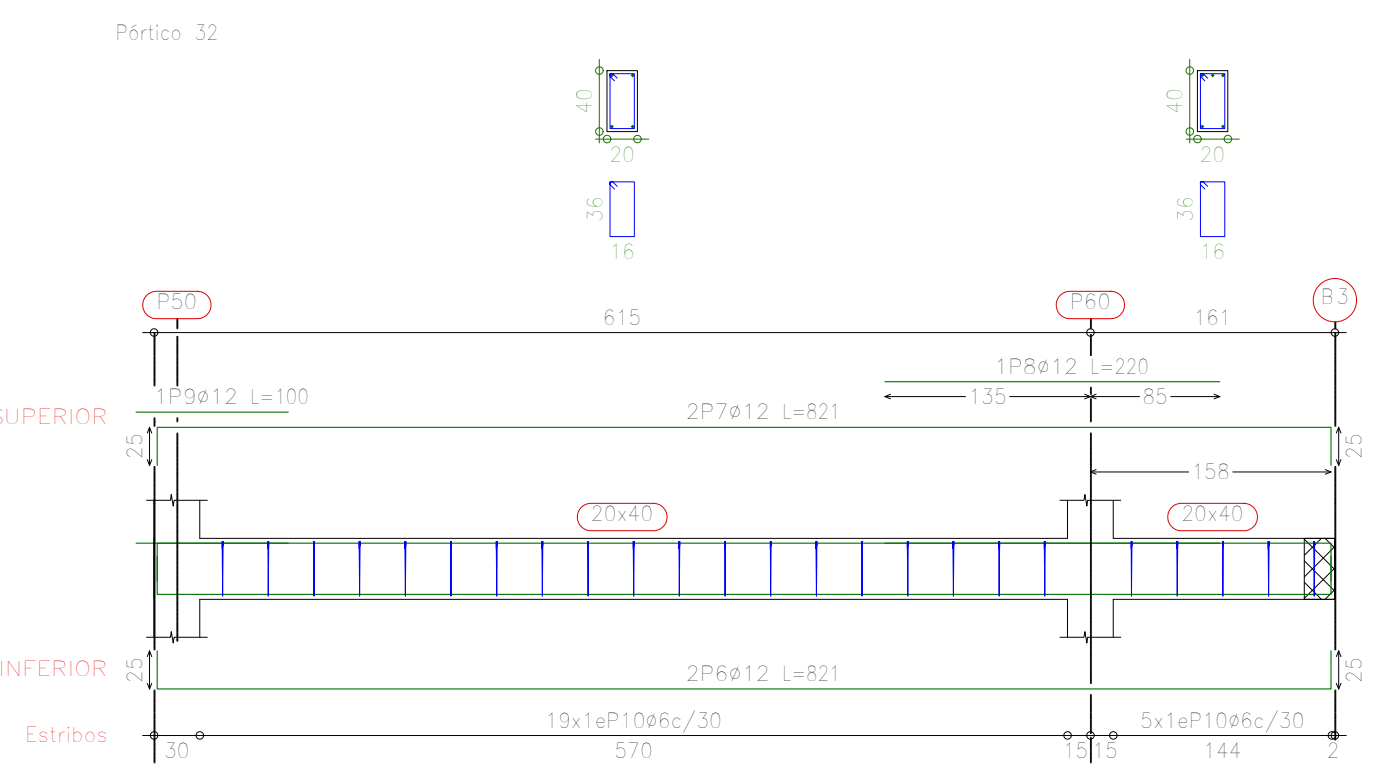
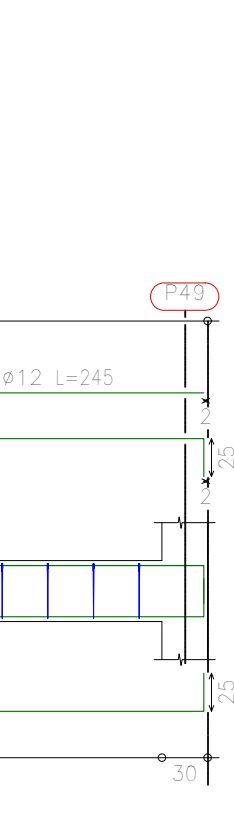
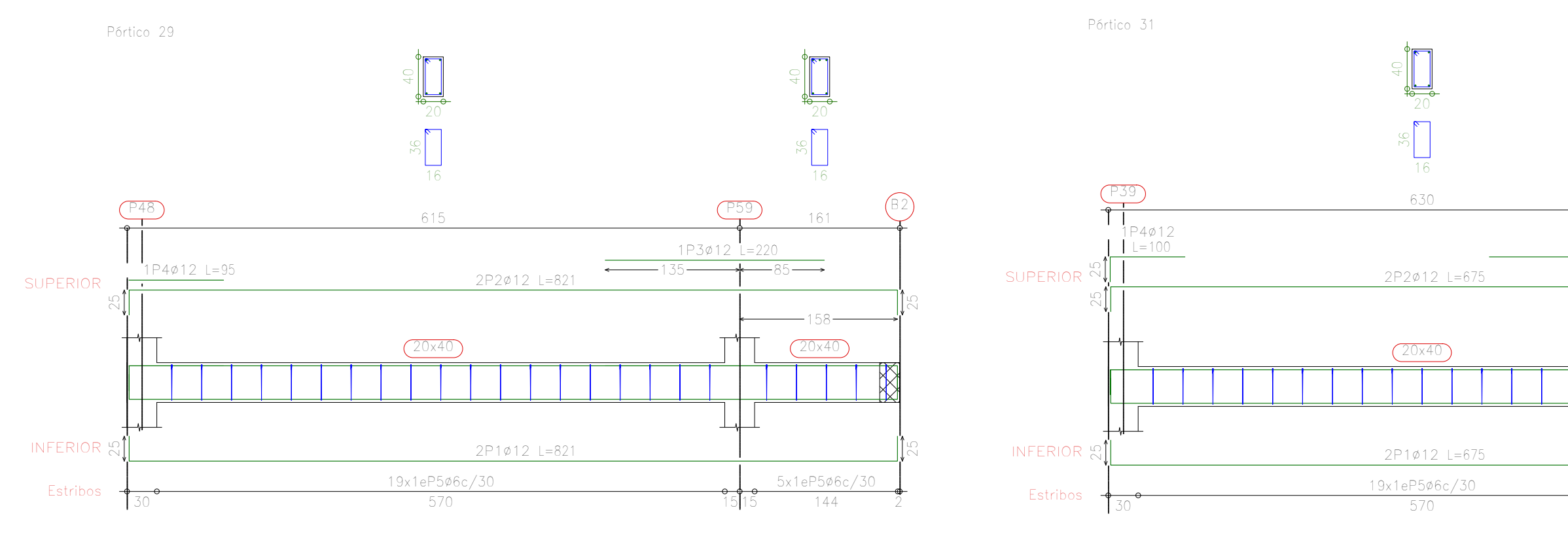
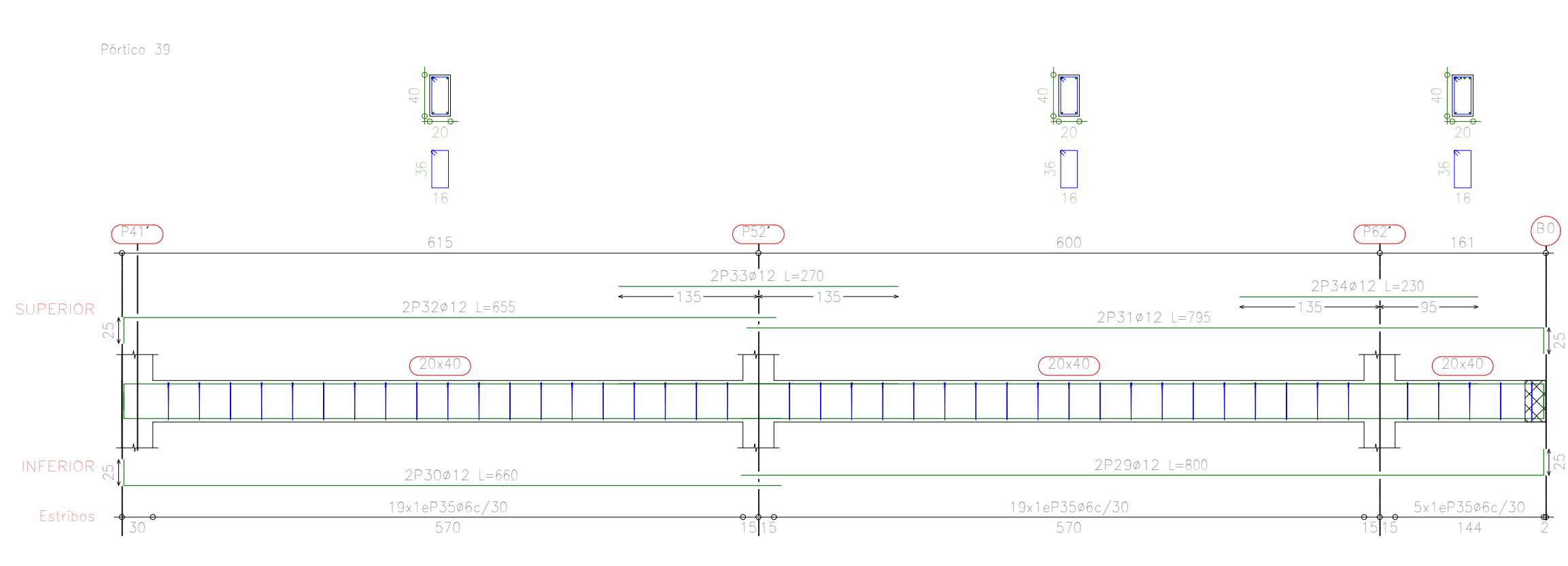
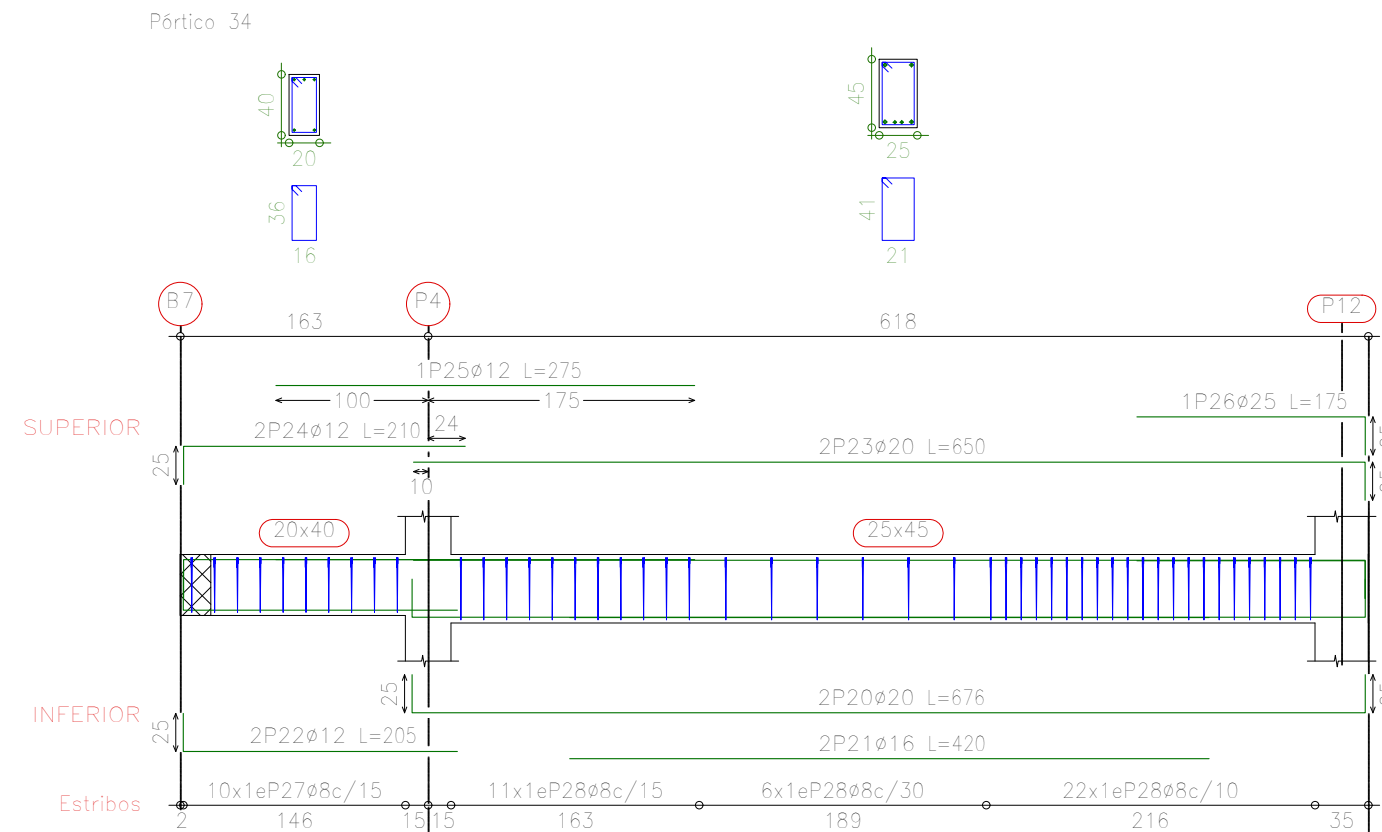
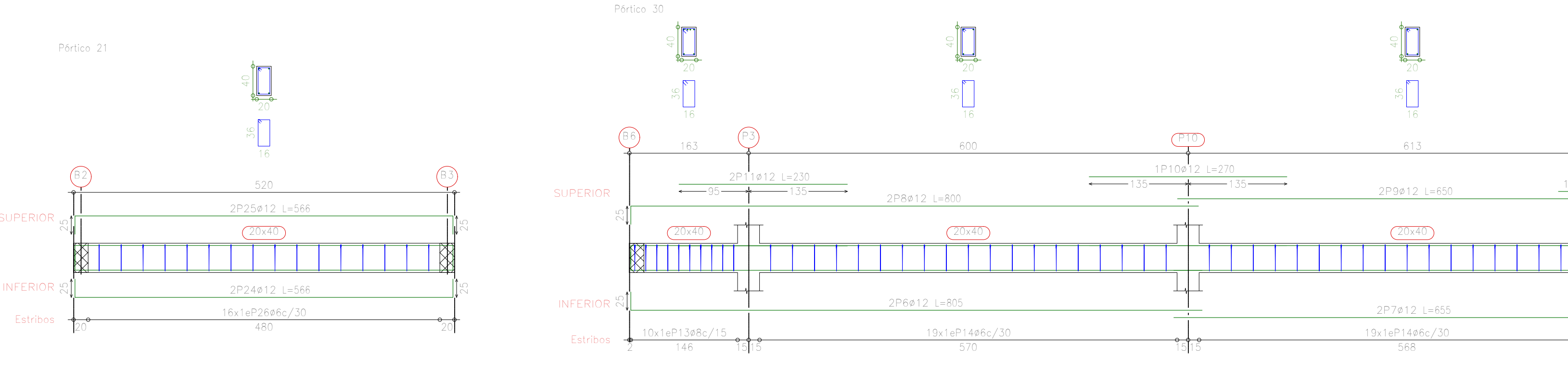
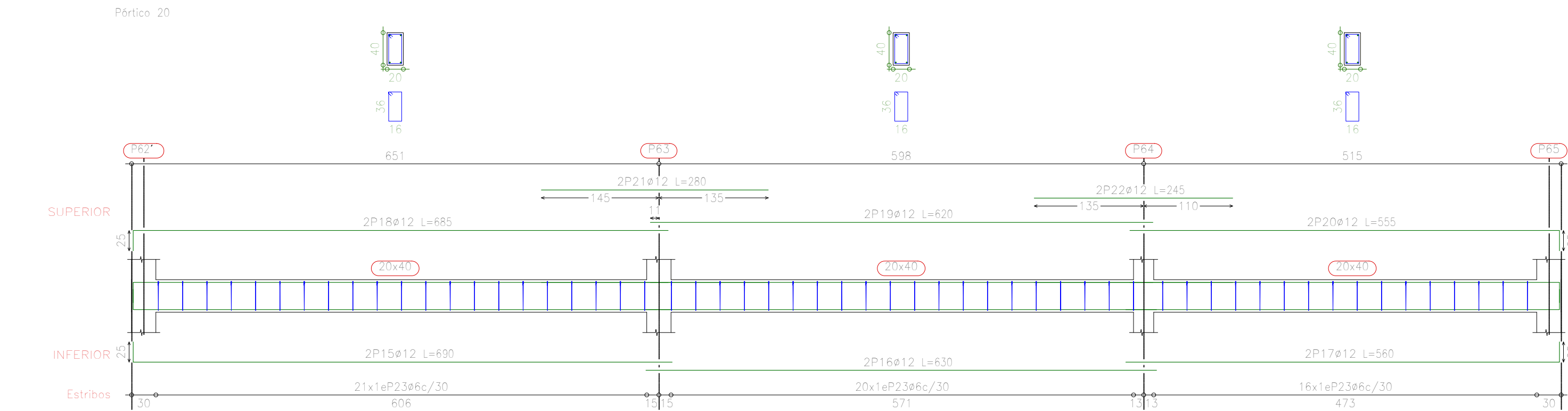
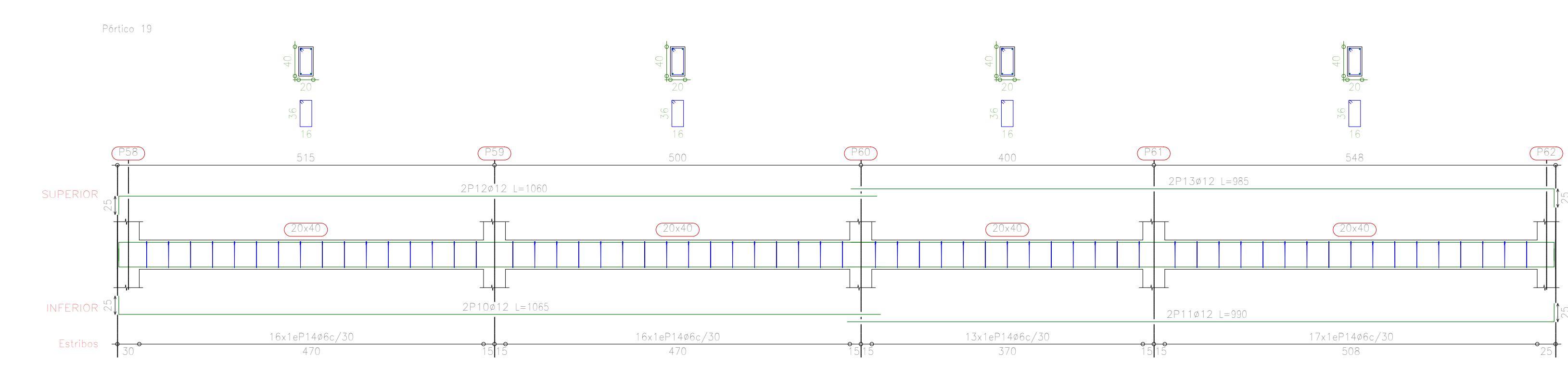
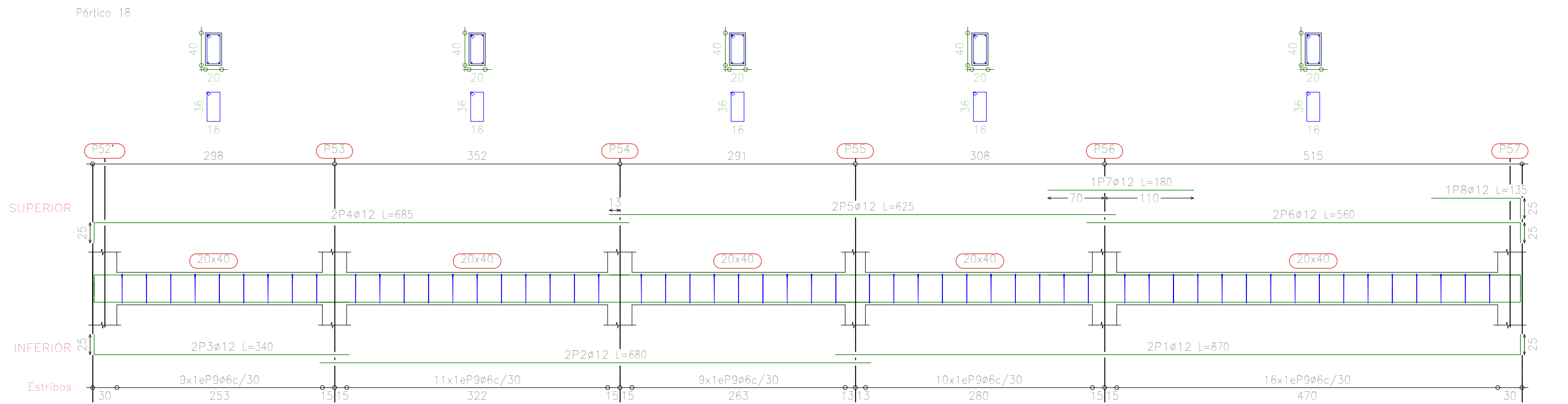
| Elemento | Pos. | Bar. | Long. | Vol.  | Peso |
|----------|------|------|-------|-------|------|
| Viga 41  | L    | 4#12 | 120   | 0.001 | 0.01 |
|          | L    | 2#12 | 676   | 0.002 | 0.02 |
|          | L    | 1#12 | 676   | 0.001 | 0.01 |
|          | L    | 1#12 | 676   | 0.001 | 0.01 |
| Viga 41  |      |      |       |       | 0.04 |
| Viga 45  |      |      |       |       | 0.04 |
| Viga 47  |      |      |       |       | 0.04 |
| Viga 46  |      |      |       |       | 0.04 |
| Viga 15  |      |      |       |       | 0.04 |
| Viga 17  |      |      |       |       | 0.04 |
| Viga 16  |      |      |       |       | 0.04 |
| Viga 27  |      |      |       |       | 0.04 |
| Viga 26  |      |      |       |       | 0.04 |
| Viga 28  |      |      |       |       | 0.04 |
| Viga 40  |      |      |       |       | 0.04 |
| Viga 29  |      |      |       |       | 0.04 |
| Viga 40  |      |      |       |       | 0.04 |
| Viga 25  |      |      |       |       | 0.04 |

| Elemento | Pos. | Bar. | Long. | Vol.  | Peso |
|----------|------|------|-------|-------|------|
| Viga 41  | L    | 4#12 | 120   | 0.001 | 0.01 |
|          | L    | 2#12 | 676   | 0.002 | 0.02 |
|          | L    | 1#12 | 676   | 0.001 | 0.01 |
|          | L    | 1#12 | 676   | 0.001 | 0.01 |
| Viga 41  |      |      |       |       | 0.04 |
| Viga 45  |      |      |       |       | 0.04 |
| Viga 47  |      |      |       |       | 0.04 |
| Viga 46  |      |      |       |       | 0.04 |
| Viga 15  |      |      |       |       | 0.04 |
| Viga 17  |      |      |       |       | 0.04 |
| Viga 16  |      |      |       |       | 0.04 |
| Viga 27  |      |      |       |       | 0.04 |
| Viga 26  |      |      |       |       | 0.04 |
| Viga 28  |      |      |       |       | 0.04 |
| Viga 40  |      |      |       |       | 0.04 |
| Viga 29  |      |      |       |       | 0.04 |
| Viga 40  |      |      |       |       | 0.04 |
| Viga 25  |      |      |       |       | 0.04 |

| Elemento | Pos. | Bar. | Long. | Vol.  | Peso |
|----------|------|------|-------|-------|------|
| Viga 41  | L    | 4#12 | 120   | 0.001 | 0.01 |
|          | L    | 2#12 | 676   | 0.002 | 0.02 |
|          | L    | 1#12 | 676   | 0.001 | 0.01 |
|          | L    | 1#12 | 676   | 0.001 | 0.01 |
| Viga 41  |      |      |       |       | 0.04 |
| Viga 45  |      |      |       |       | 0.04 |
| Viga 47  |      |      |       |       | 0.04 |
| Viga 46  |      |      |       |       | 0.04 |
| Viga 15  |      |      |       |       | 0.04 |
| Viga 17  |      |      |       |       | 0.04 |
| Viga 16  |      |      |       |       | 0.04 |
| Viga 27  |      |      |       |       | 0.04 |
| Viga 26  |      |      |       |       | 0.04 |
| Viga 28  |      |      |       |       | 0.04 |
| Viga 40  |      |      |       |       | 0.04 |
| Viga 29  |      |      |       |       | 0.04 |
| Viga 40  |      |      |       |       | 0.04 |
| Viga 25  |      |      |       |       | 0.04 |

|                   |    |     |     |      |      |       |
|-------------------|----|-----|-----|------|------|-------|
| Viga 41           | 12 | #12 | 2   | 855  | 1319 | 5.9   |
|                   | 13 | #12 | 2   | 855  | 1319 | 5.9   |
|                   | 14 | #12 | 2   | 855  | 1319 | 5.9   |
|                   | 15 | #12 | 2   | 270  | 540  | 4.8   |
|                   | 16 | #8  | 10  | 174  | 6520 | 3.5   |
| Viga 17           |    |     |     |      |      | 47.5  |
| Viga 28 y Viga 42 | 17 | #12 | 2   | 549  | 1059 | 5.2   |
|                   | 18 | #12 | 2   | 549  | 1059 | 5.2   |
|                   | 19 | #8  | 10  | 174  | 1804 | 4.7   |
| Viga 10 (a2)      |    |     |     |      |      | 25.0  |
|                   |    |     |     |      |      | 3.9   |
| Viga 24           | 20 | #20 | 1   | 836  | 844  | 33.5  |
|                   | 21 | #16 | 2   | 422  | 844  | 33.5  |
|                   | 22 | #12 | 2   | 295  | 410  | 3.8   |
|                   | 23 | #12 | 2   | 845  | 1319 | 5.9   |
|                   | 24 | #12 | 2   | 210  | 420  | 3.7   |
|                   | 25 | #12 | 2   | 210  | 420  | 3.7   |
|                   | 26 | #25 | 1   | 775  | 176  | 4.9   |
|                   | 27 | #8  | 10  | 120  | 1200 | 4.2   |
| 28                | #8 | 20  | 140 | 5400 | 2.5  |       |
| Viga 10 (a3)      |    |     |     |      |      | 153.8 |

VIGAS DE LA PLANTA BAJA



| Elemento   | Pos. | Dim. | No. | Long. | Vol.  | MT=500Cm |
|------------|------|------|-----|-------|-------|----------|
| Pérfico 18 | 1    | 40   | 1   | 685   | 0.001 | 0.001    |
|            | 2    | 40   | 1   | 100   | 0.001 | 0.001    |
|            | 3    | 40   | 1   | 340   | 0.001 | 0.001    |
|            | 4    | 40   | 1   | 630   | 0.001 | 0.001    |
|            | 5    | 40   | 1   | 690   | 0.001 | 0.001    |
| Total      |      |      |     |       |       | 0.005    |

| Elemento   | Pos. | Dim. | No. | Long. | Vol.  | MT=500Cm |
|------------|------|------|-----|-------|-------|----------|
| Pérfico 19 | 1    | 40   | 1   | 1090  | 0.002 | 0.002    |
|            | 2    | 40   | 1   | 985   | 0.002 | 0.002    |
|            | 3    | 40   | 1   | 1090  | 0.002 | 0.002    |
|            | 4    | 40   | 1   | 1090  | 0.002 | 0.002    |
|            | 5    | 40   | 1   | 1090  | 0.002 | 0.002    |
| Total      |      |      |     |       |       | 0.010    |

| Elemento   | Pos. | Dim. | No. | Long. | Vol.  | MT=500Cm |
|------------|------|------|-----|-------|-------|----------|
| Pérfico 20 | 1    | 40   | 1   | 685   | 0.001 | 0.001    |
|            | 2    | 40   | 1   | 420   | 0.001 | 0.001    |
|            | 3    | 40   | 1   | 690   | 0.001 | 0.001    |
|            | 4    | 40   | 1   | 630   | 0.001 | 0.001    |
|            | 5    | 40   | 1   | 630   | 0.001 | 0.001    |
| Total      |      |      |     |       |       | 0.005    |

| Elemento   | Pos. | Dim. | No. | Long. | Vol.  | MT=500Cm |
|------------|------|------|-----|-------|-------|----------|
| Pérfico 21 | 1    | 40   | 1   | 566   | 0.001 | 0.001    |
|            | 2    | 40   | 1   | 100   | 0.001 | 0.001    |
|            | 3    | 40   | 1   | 566   | 0.001 | 0.001    |
|            | 4    | 40   | 1   | 566   | 0.001 | 0.001    |
|            | 5    | 40   | 1   | 566   | 0.001 | 0.001    |
| Total      |      |      |     |       |       | 0.005    |

| Elemento   | Pos. | Dim. | No. | Long. | Vol.  | MT=500Cm |
|------------|------|------|-----|-------|-------|----------|
| Pérfico 24 | 1    | 40   | 1   | 220   | 0.000 | 0.000    |
|            | 2    | 40   | 1   | 210   | 0.000 | 0.000    |
|            | 3    | 40   | 1   | 205   | 0.000 | 0.000    |
|            | 4    | 40   | 1   | 675   | 0.000 | 0.000    |
|            | 5    | 40   | 1   | 675   | 0.000 | 0.000    |
| Total      |      |      |     |       |       | 0.000    |

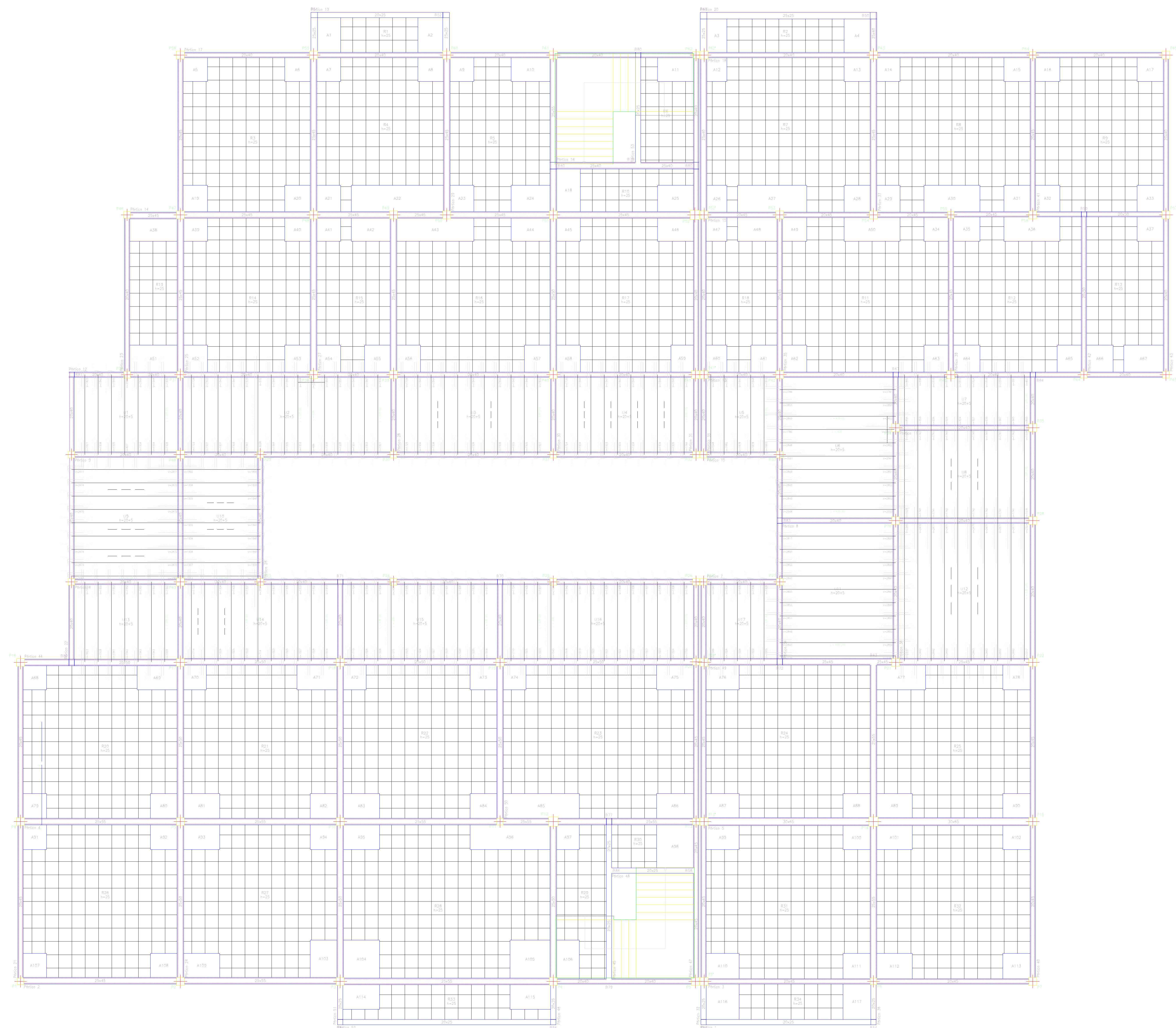
| Elemento   | Pos. | Dim. | No. | Long. | Vol.  | MT=500Cm |
|------------|------|------|-----|-------|-------|----------|
| Pérfico 29 | 1    | 40   | 1   | 655   | 0.002 | 0.002    |
|            | 2    | 40   | 1   | 795   | 0.002 | 0.002    |
|            | 3    | 40   | 1   | 660   | 0.002 | 0.002    |
|            | 4    | 40   | 1   | 660   | 0.002 | 0.002    |
|            | 5    | 40   | 1   | 660   | 0.002 | 0.002    |
| Total      |      |      |     |       |       | 0.010    |

| Elemento   | Pos. | Dim. | No. | Long. | Vol.  | MT=500Cm |
|------------|------|------|-----|-------|-------|----------|
| Pérfico 30 | 1    | 40   | 1   | 230   | 0.000 | 0.000    |
|            | 2    | 40   | 1   | 800   | 0.003 | 0.003    |
|            | 3    | 40   | 1   | 230   | 0.000 | 0.000    |
|            | 4    | 40   | 1   | 800   | 0.003 | 0.003    |
|            | 5    | 40   | 1   | 800   | 0.003 | 0.003    |
| Total      |      |      |     |       |       | 0.009    |

| Elemento   | Pos. | Dim. | No. | Long. | Vol.  | MT=500Cm |
|------------|------|------|-----|-------|-------|----------|
| Pérfico 31 | 1    | 40   | 1   | 100   | 0.000 | 0.000    |
|            | 2    | 40   | 1   | 675   | 0.002 | 0.002    |
|            | 3    | 40   | 1   | 675   | 0.002 | 0.002    |
|            | 4    | 40   | 1   | 675   | 0.002 | 0.002    |
|            | 5    | 40   | 1   | 675   | 0.002 | 0.002    |
| Total      |      |      |     |       |       | 0.008    |

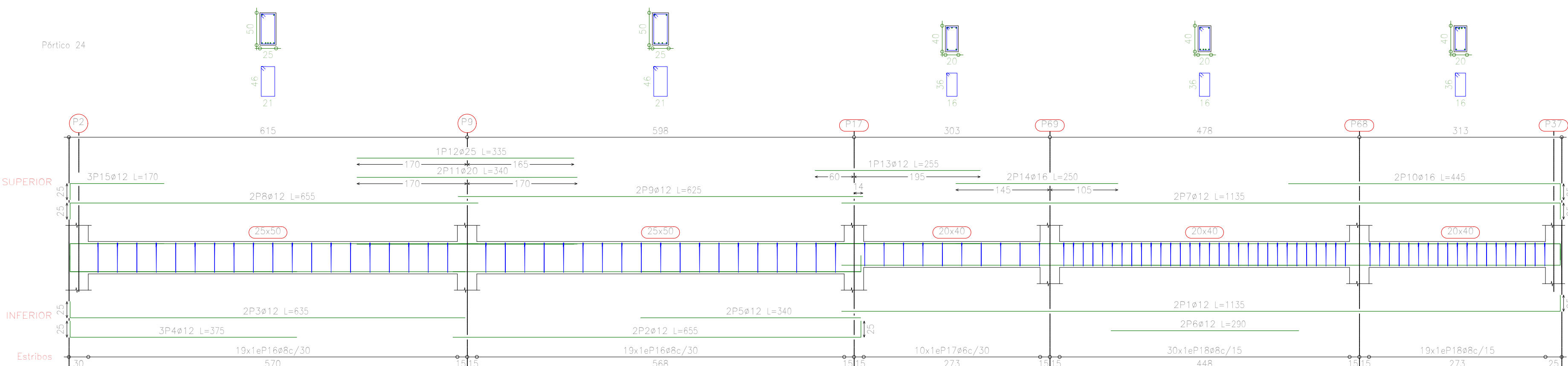
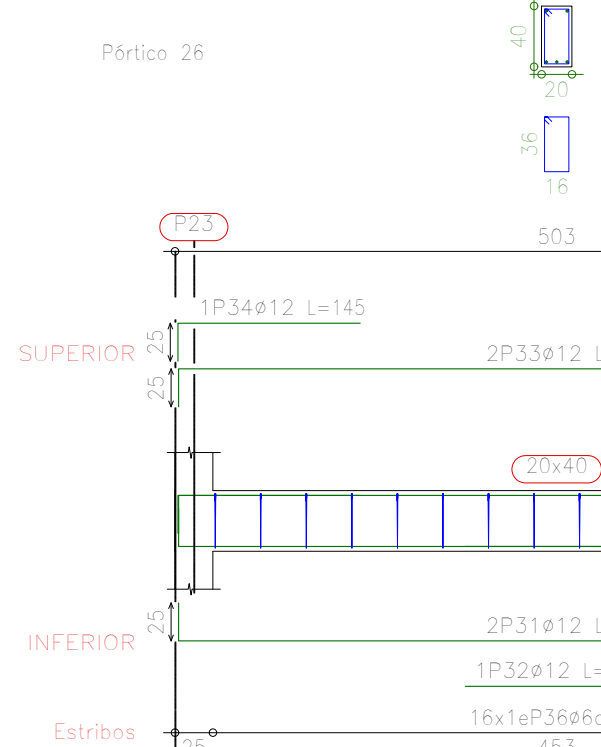
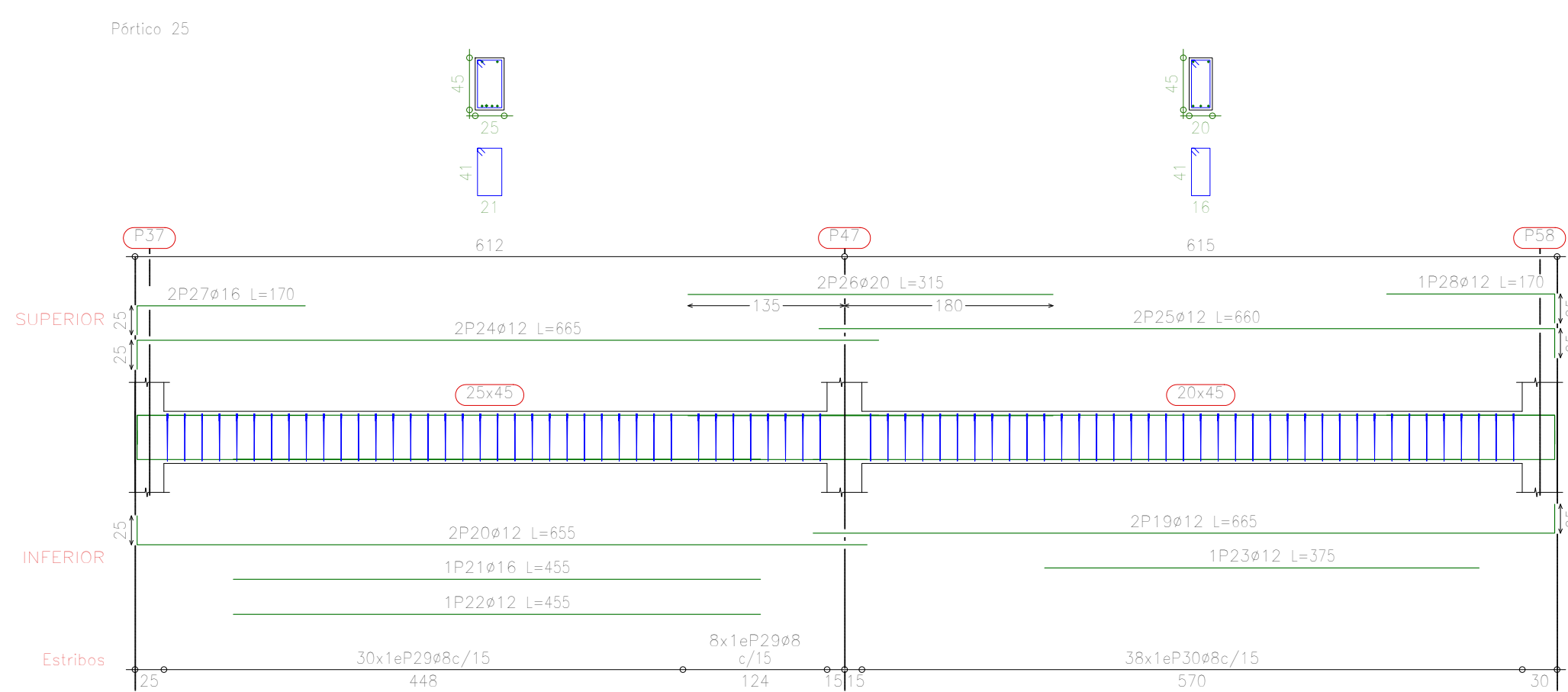
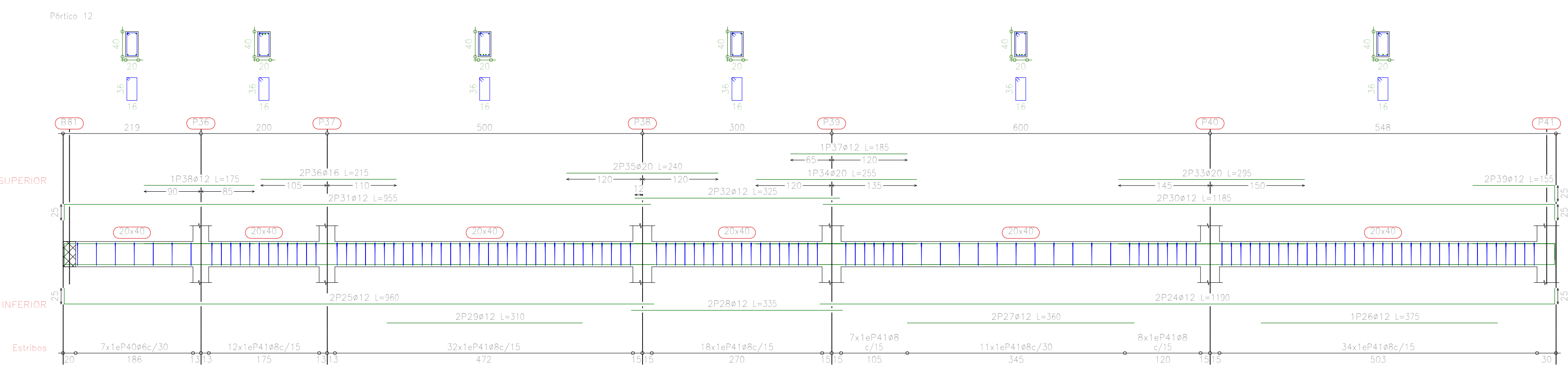
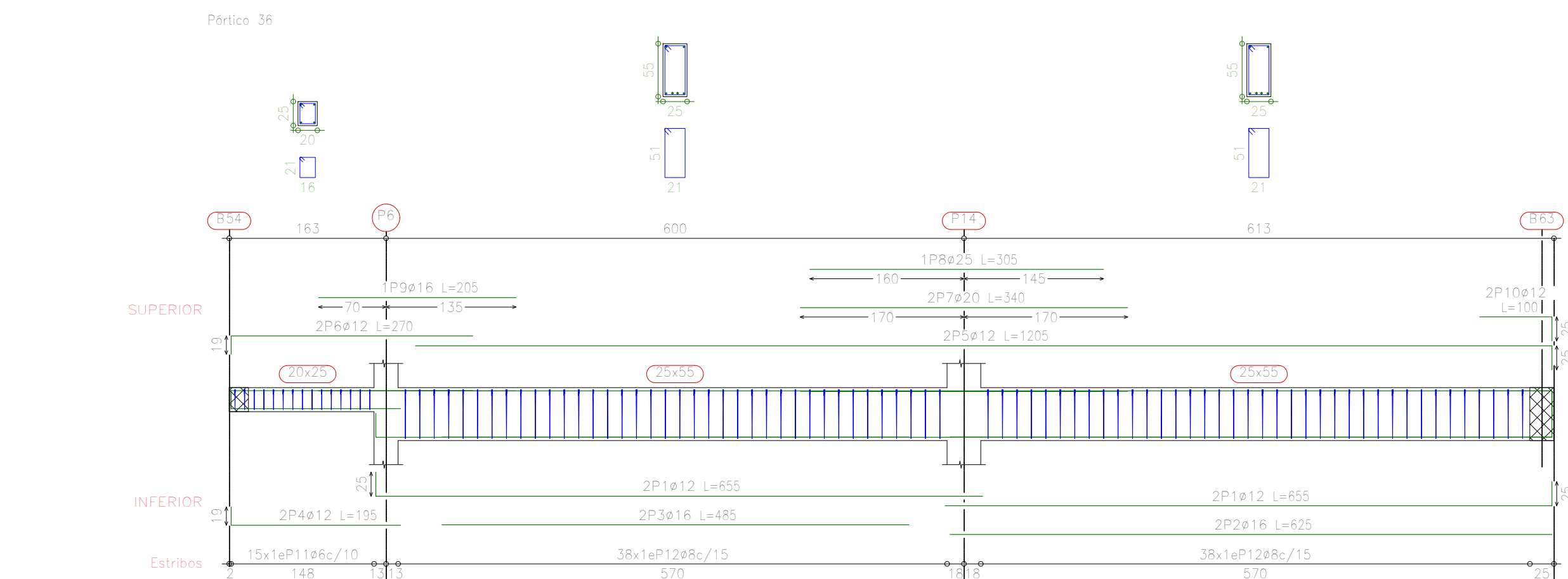
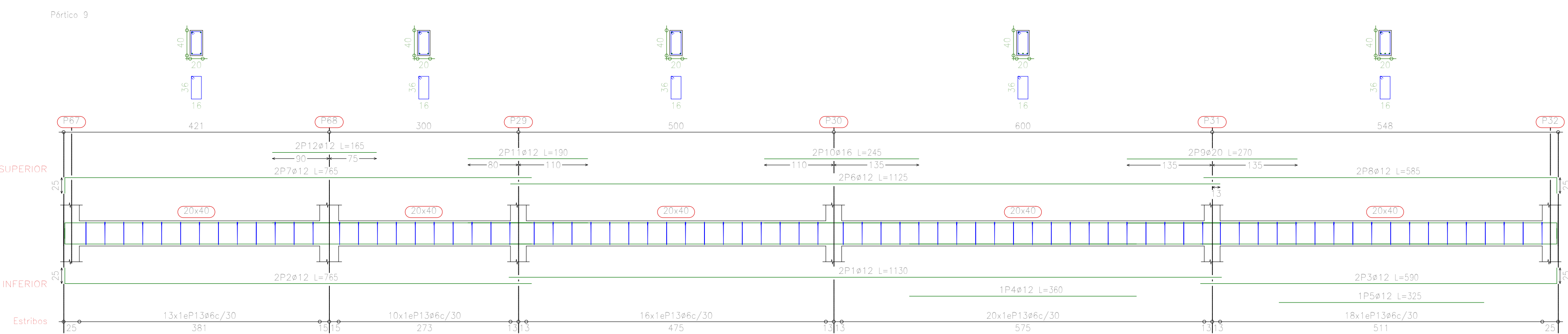
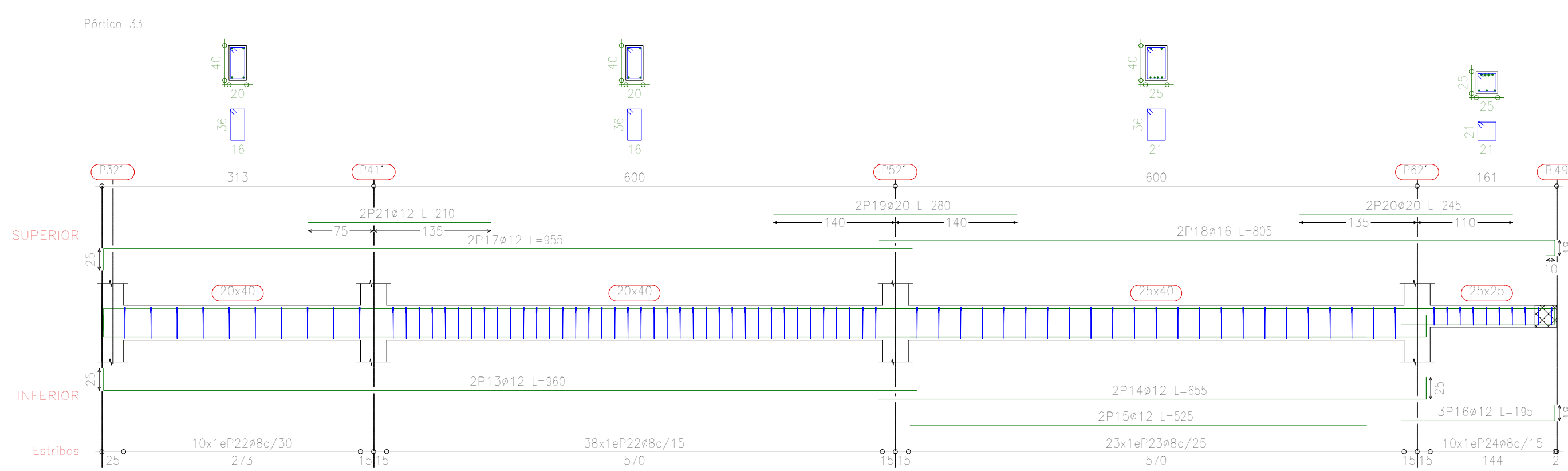
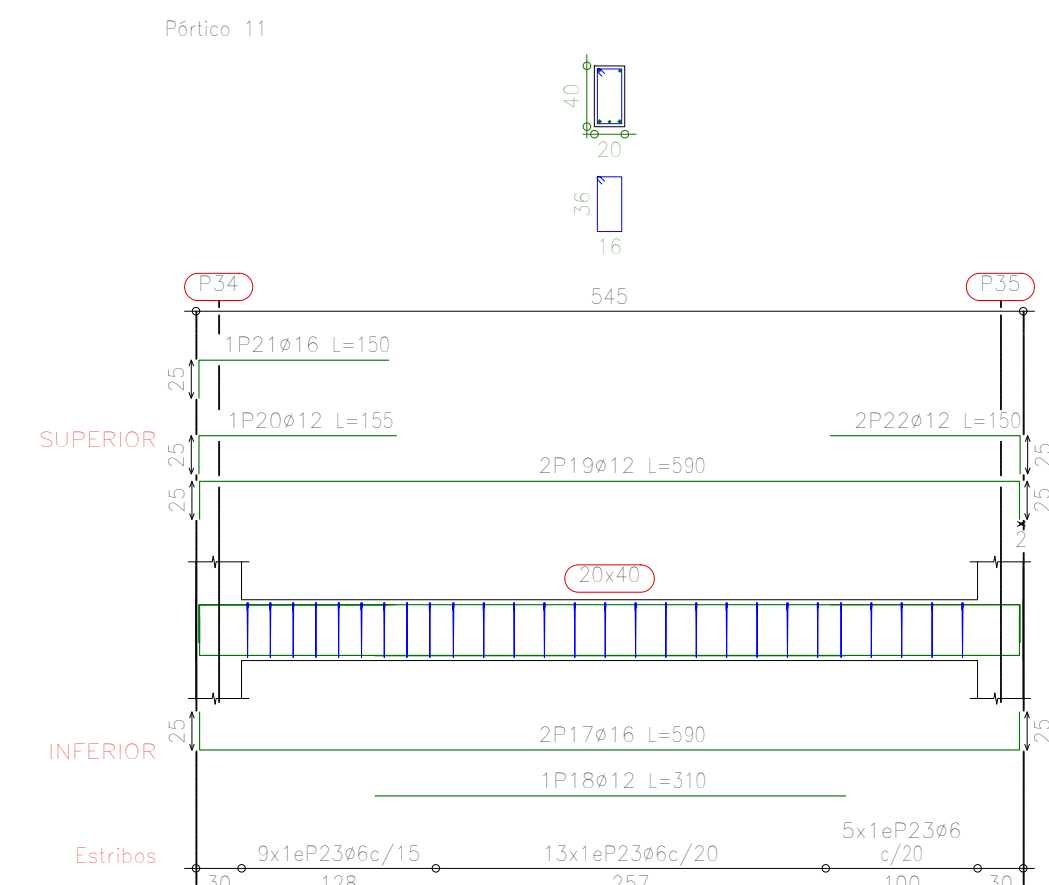
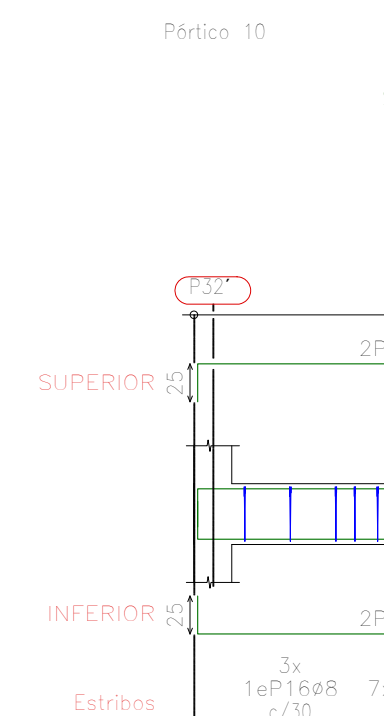
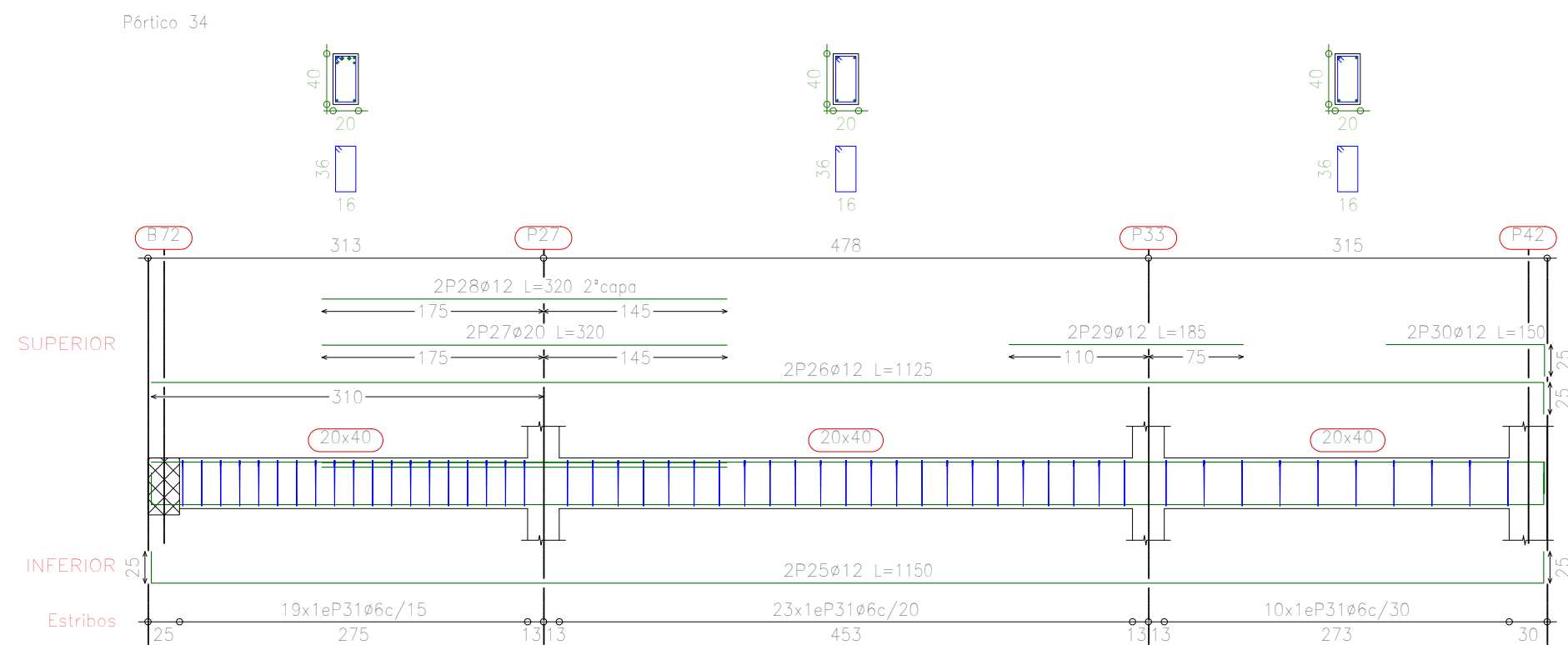
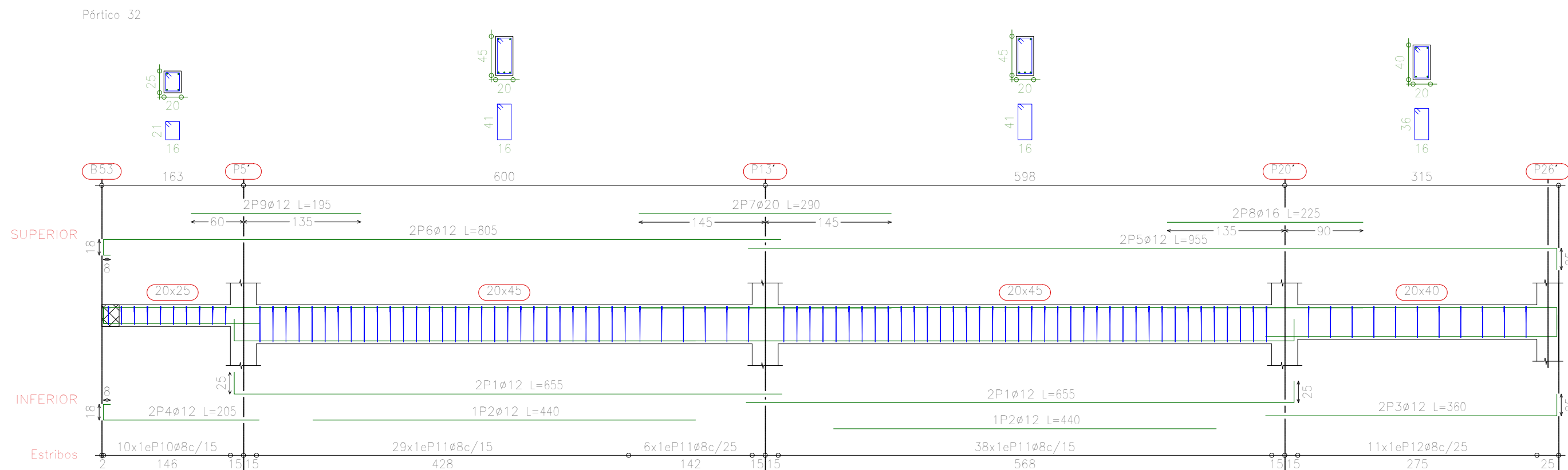
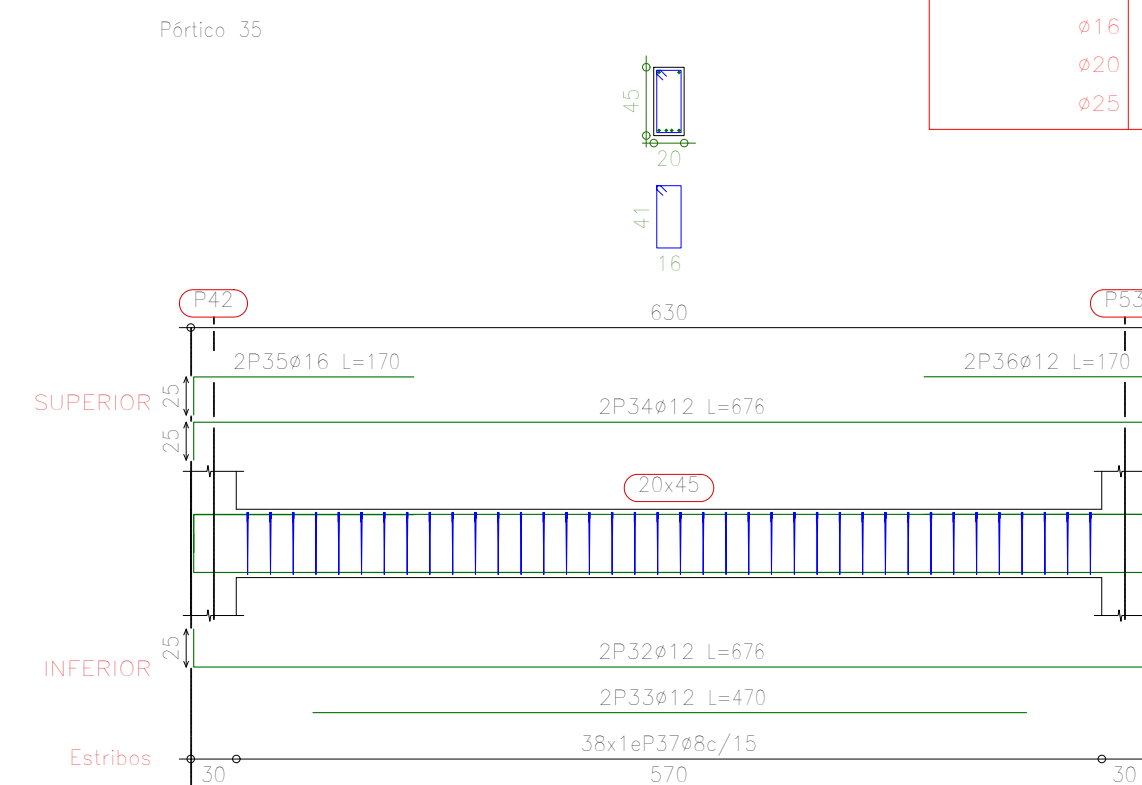
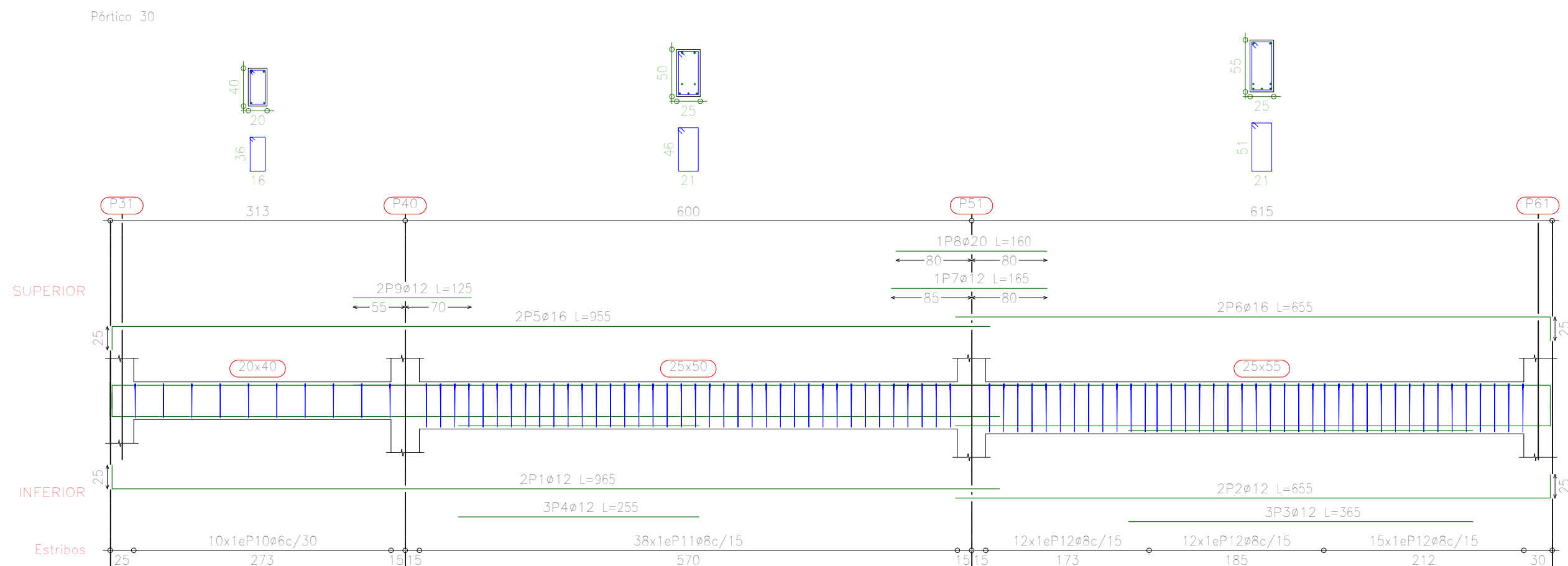
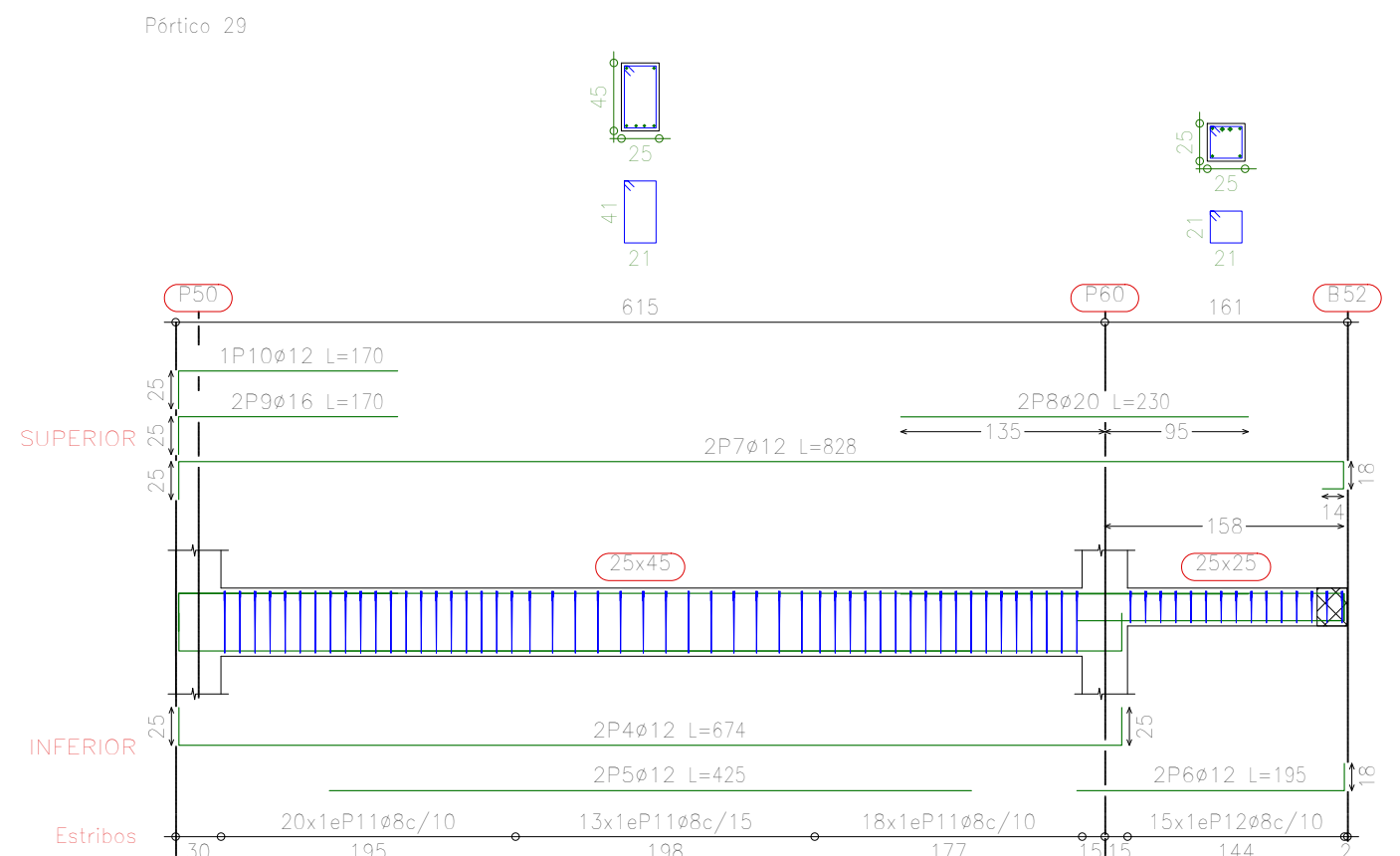
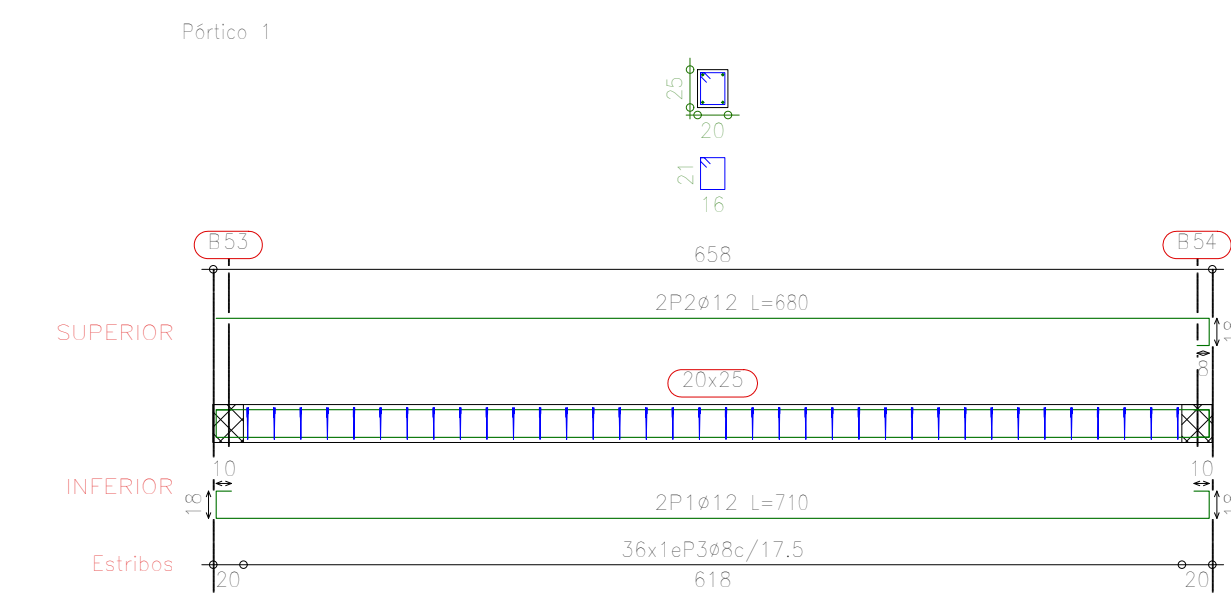
VIGAS DEL PRIMER PISO

LOSAS DE VIGUETAS DE PRIMER PISO

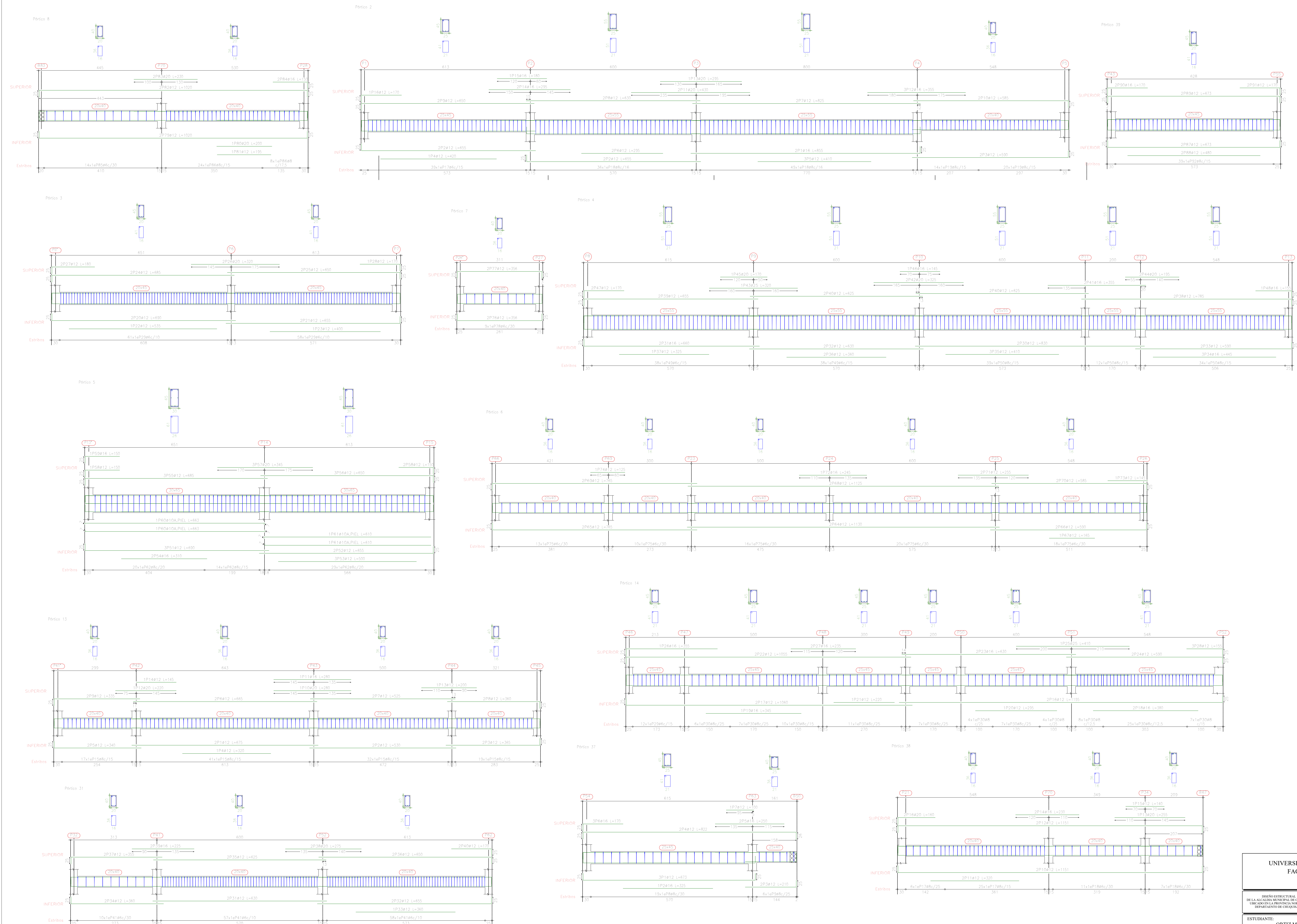


|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Título de características de forjados de viguetas (Grupo 2)</p> <p><b>FORJADO DE VIGUETAS DE HORMIGÓN</b></p> <p>Canto de bovedilla: 20 cm</p> <p>Espesor capa compresiva: 5 cm</p> <p>Interje: 50 cm</p> <p>Bovedilla: De poliestireno</p> <p>Acho de nervio: 8 cm</p> <p>Volumen de hormigón: 0.093 m<sup>3</sup>/m<sup>2</sup></p> <p>Peso propio: 0.232 t/m<sup>2</sup></p> <p><i>Nota: Consulte los detalles referentes a enlaces con forjados de la estructura principal y de las zonas adyacentes</i></p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

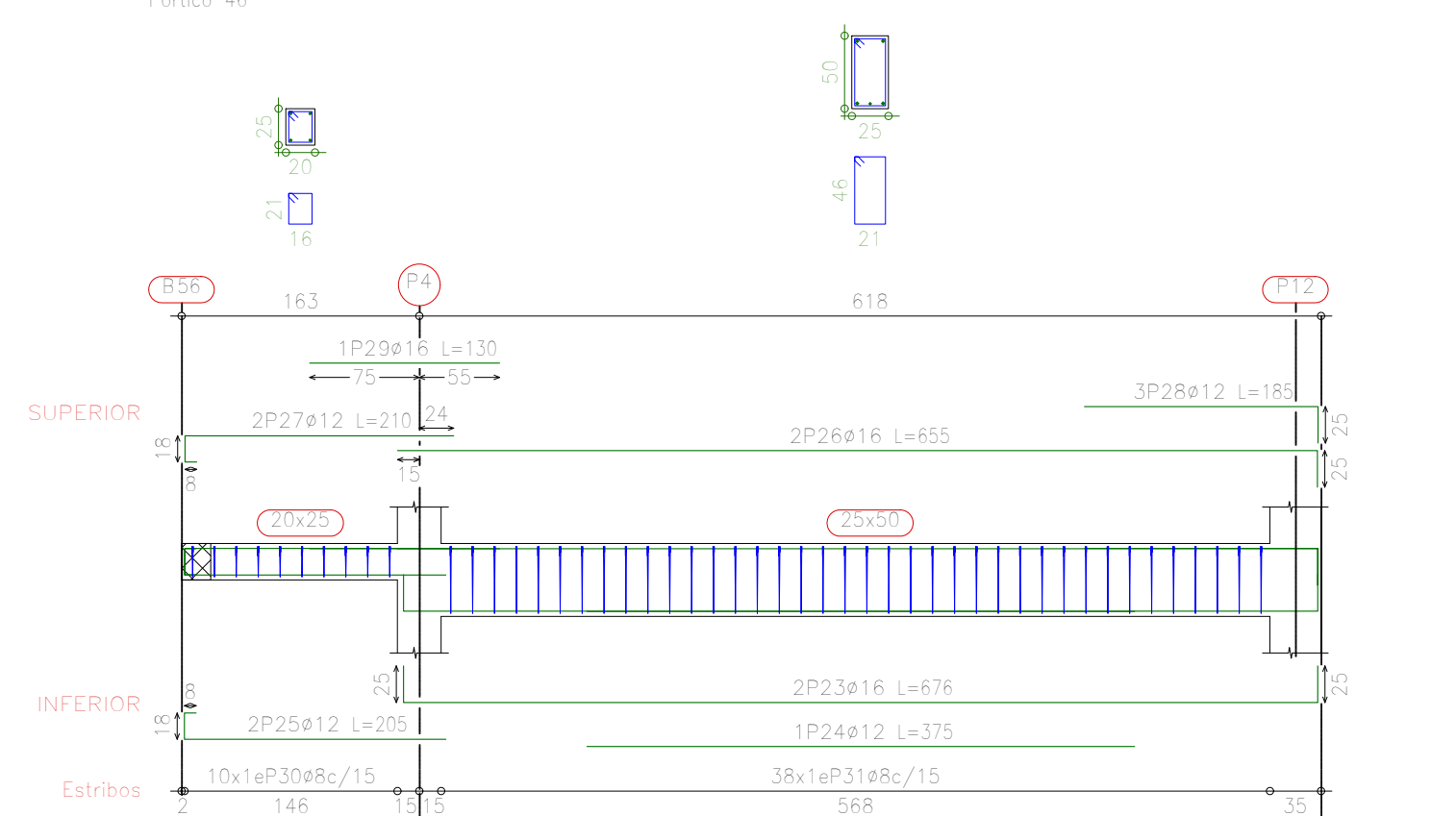
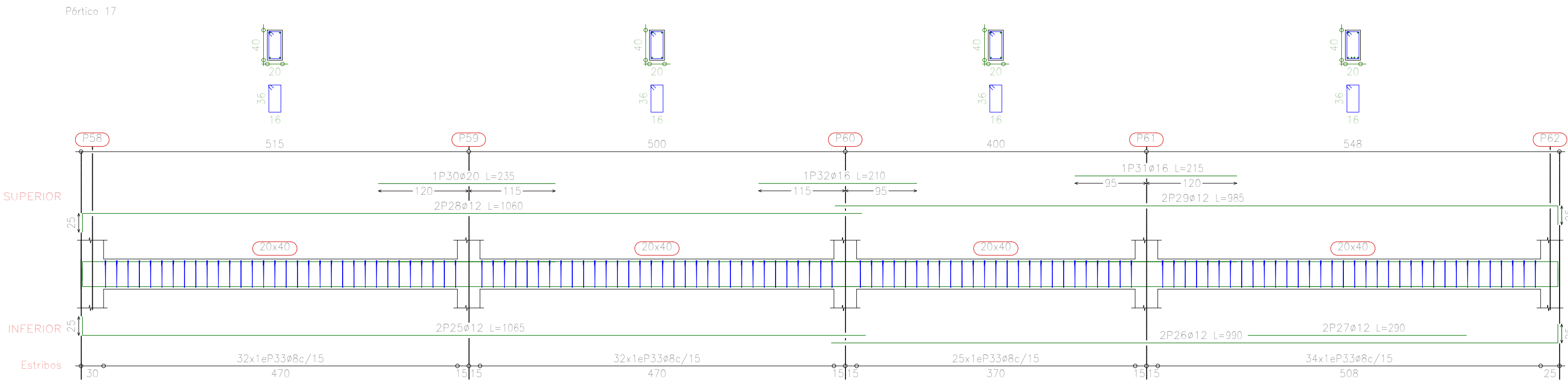
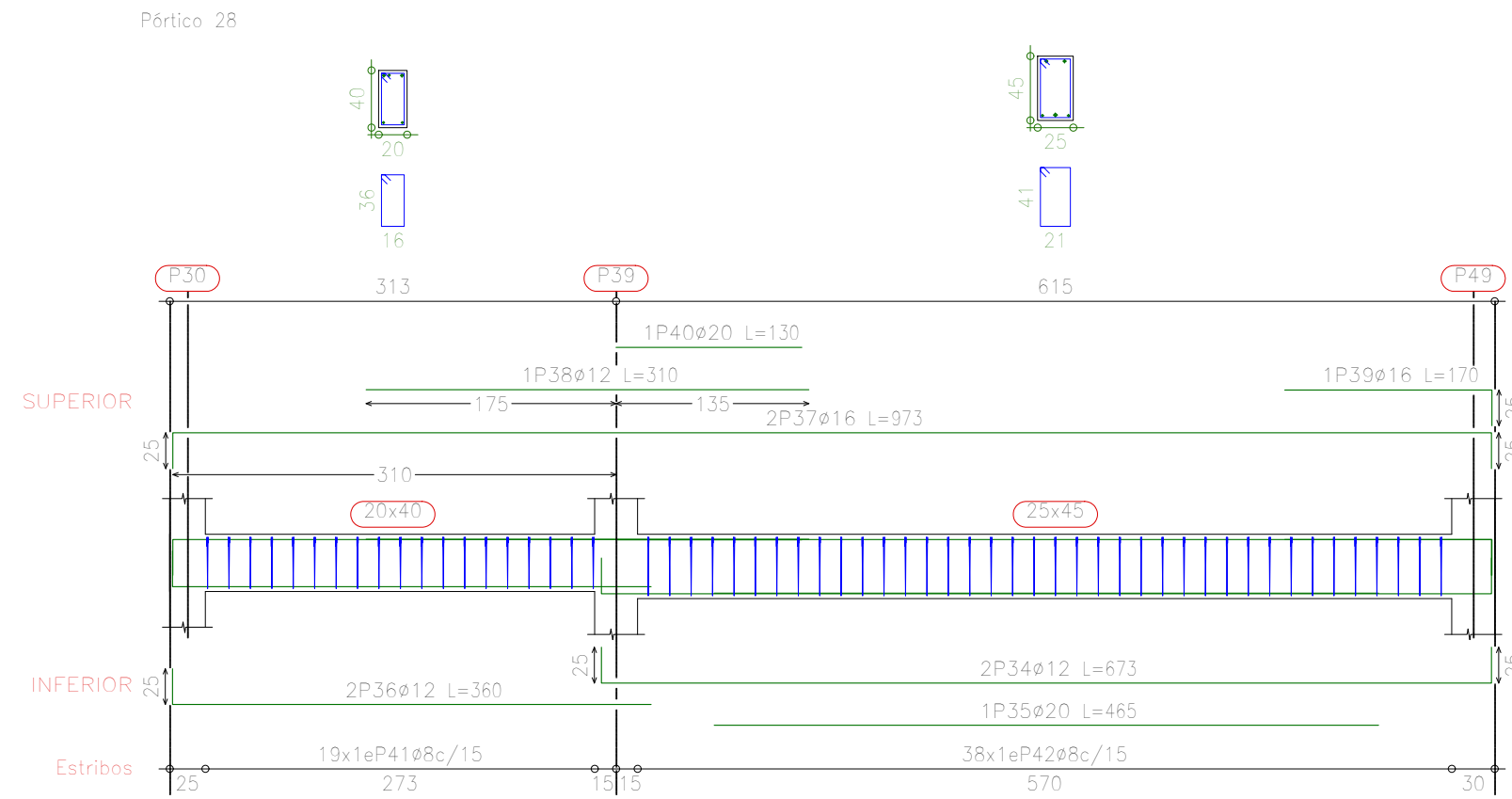
## VIGAS DEL PRIMER PISO



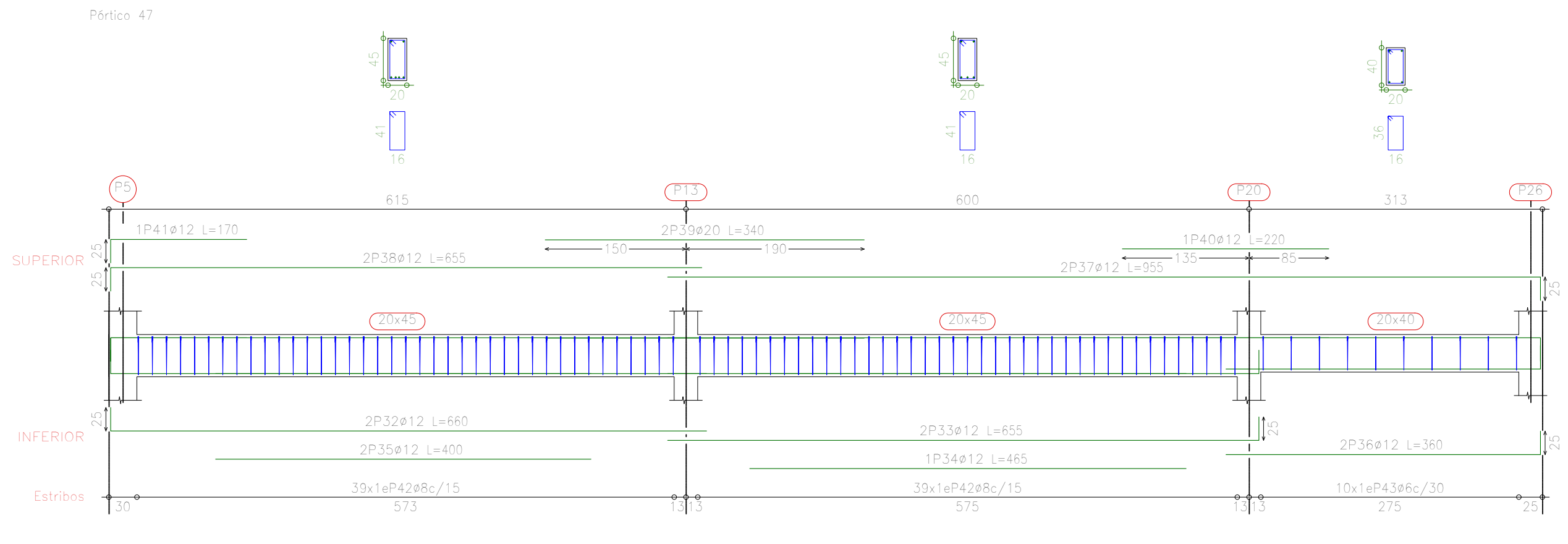
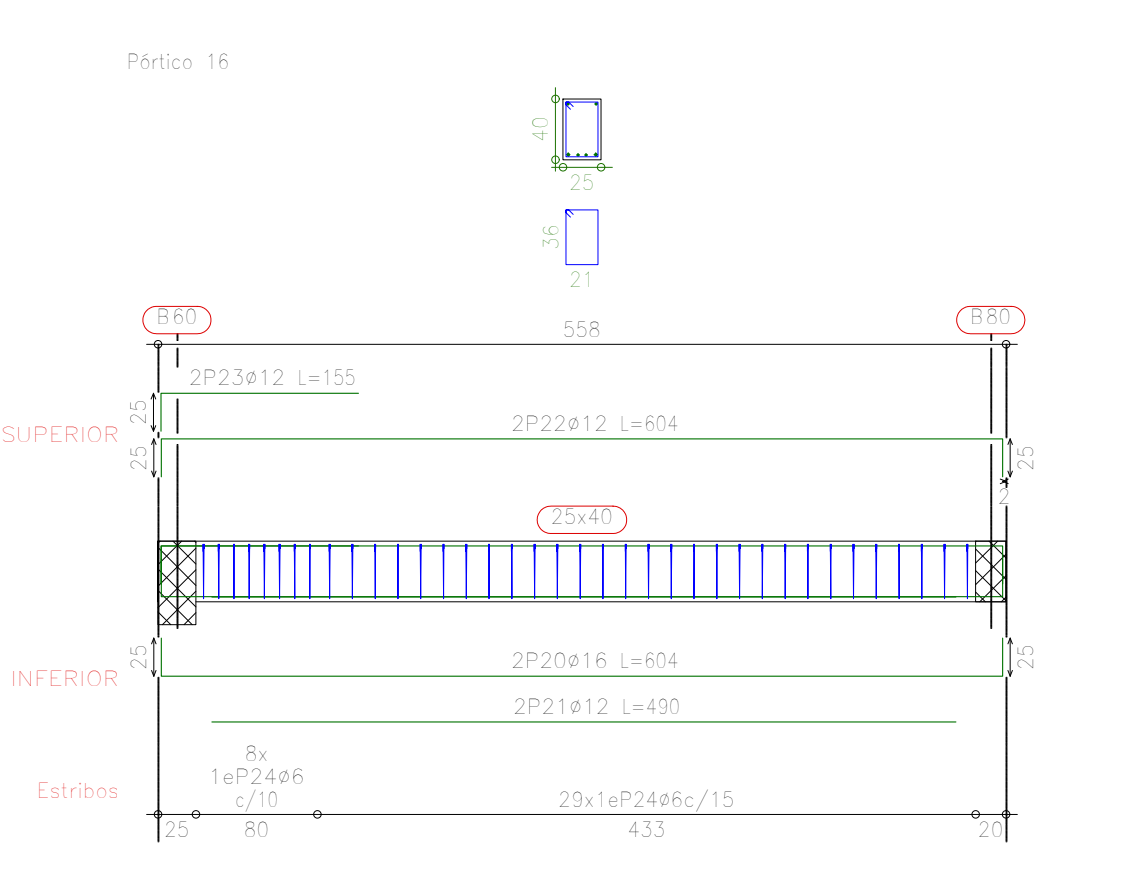
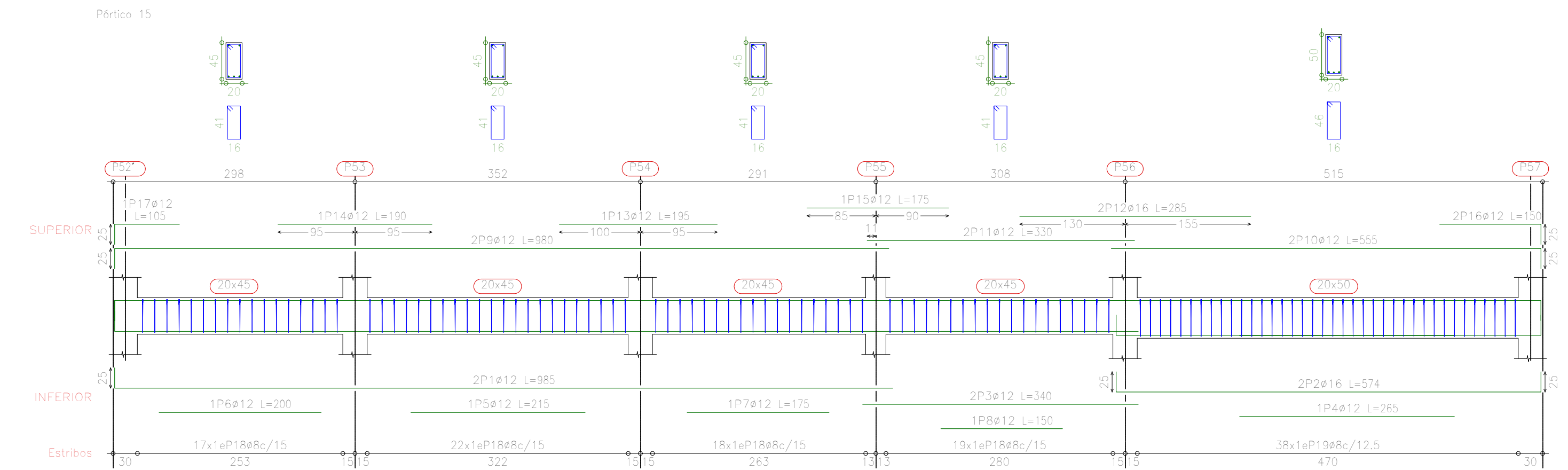
## VIGAS DEL PRIMER PISO



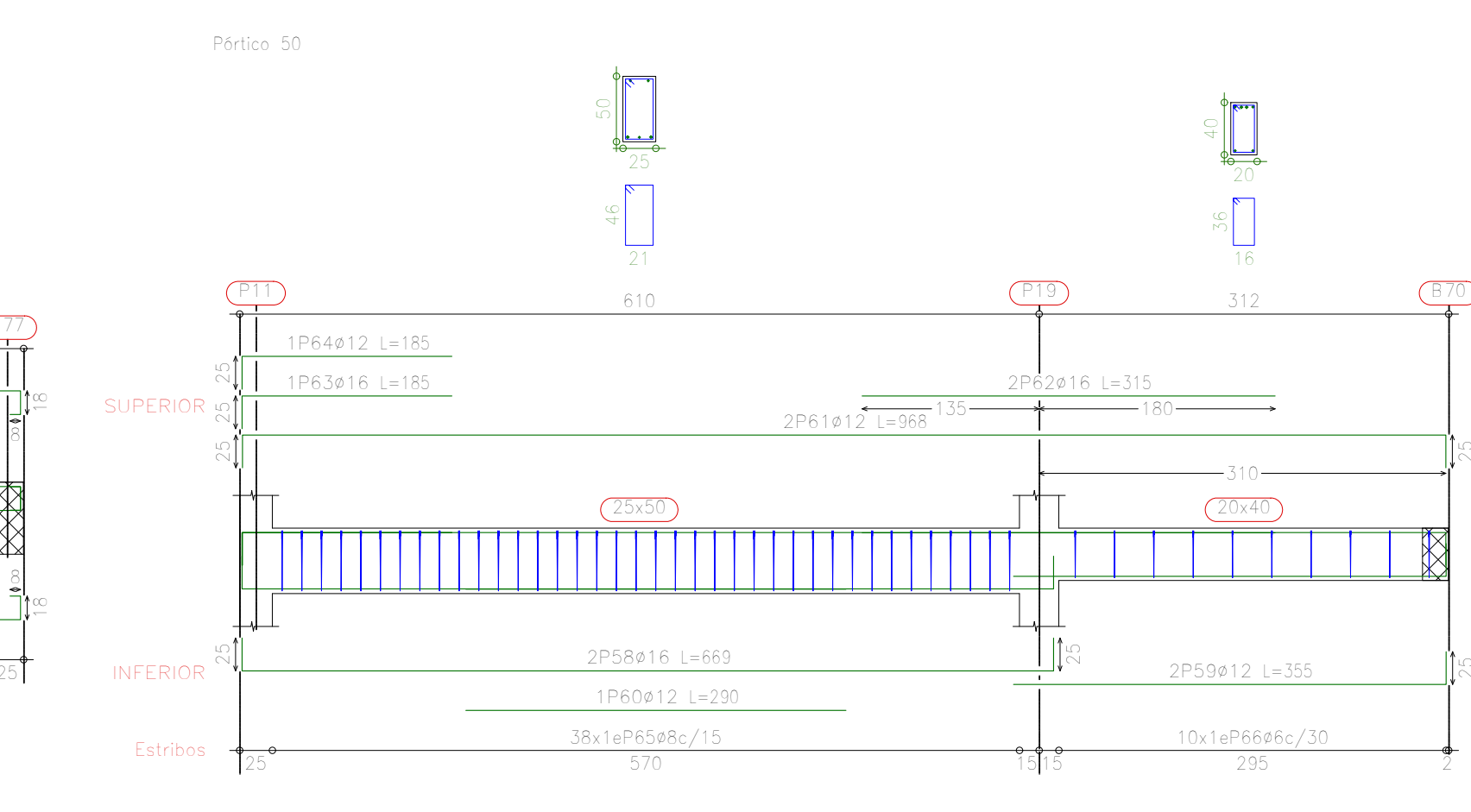
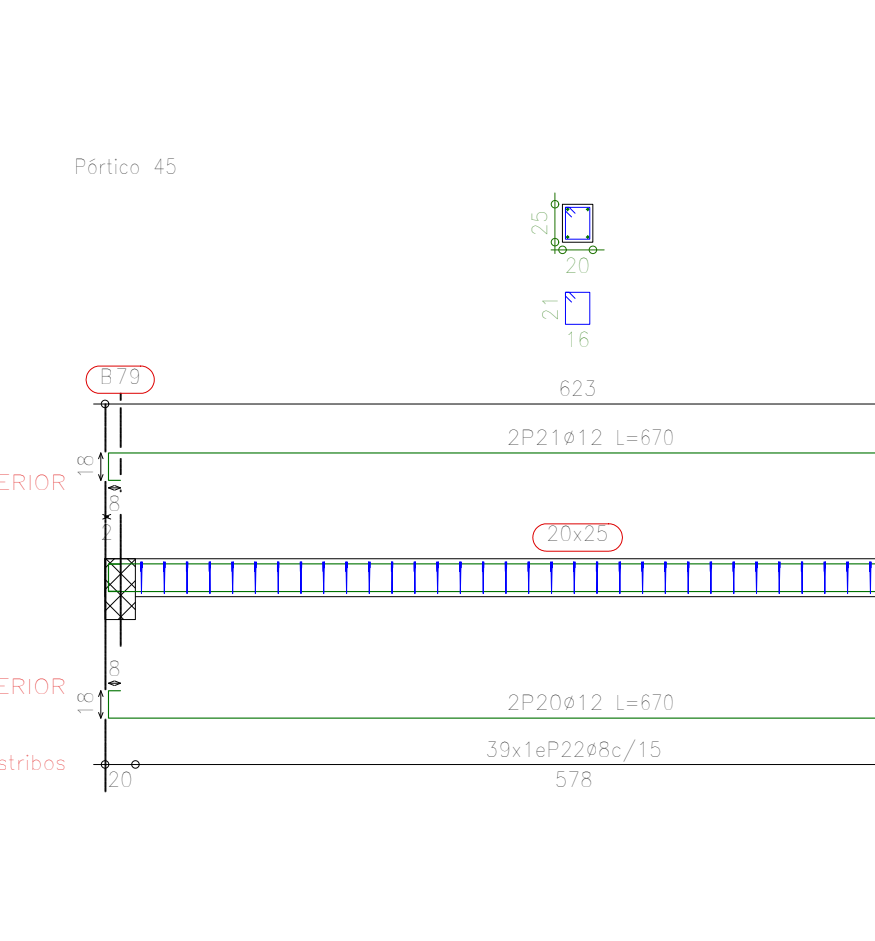
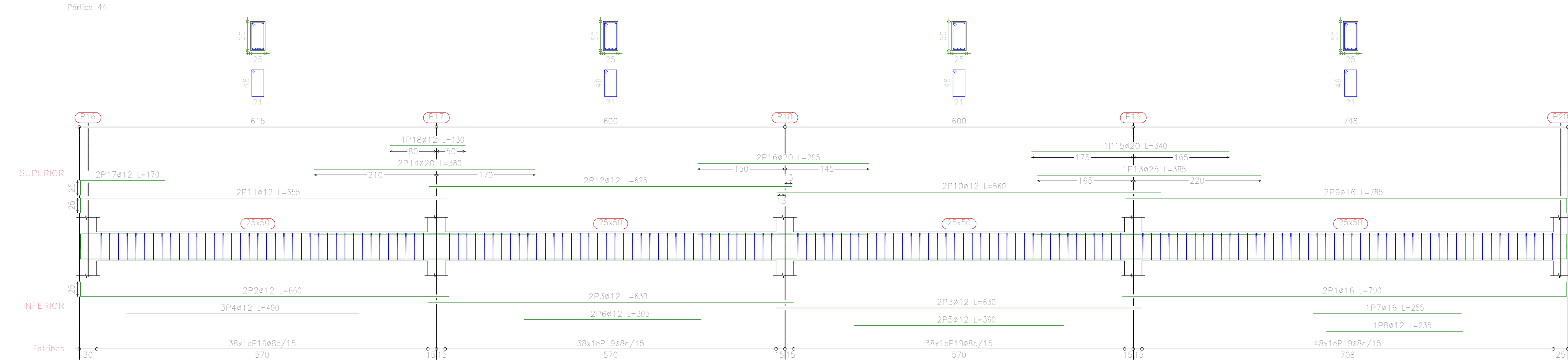
VIGAS DEL PRIMER PISO



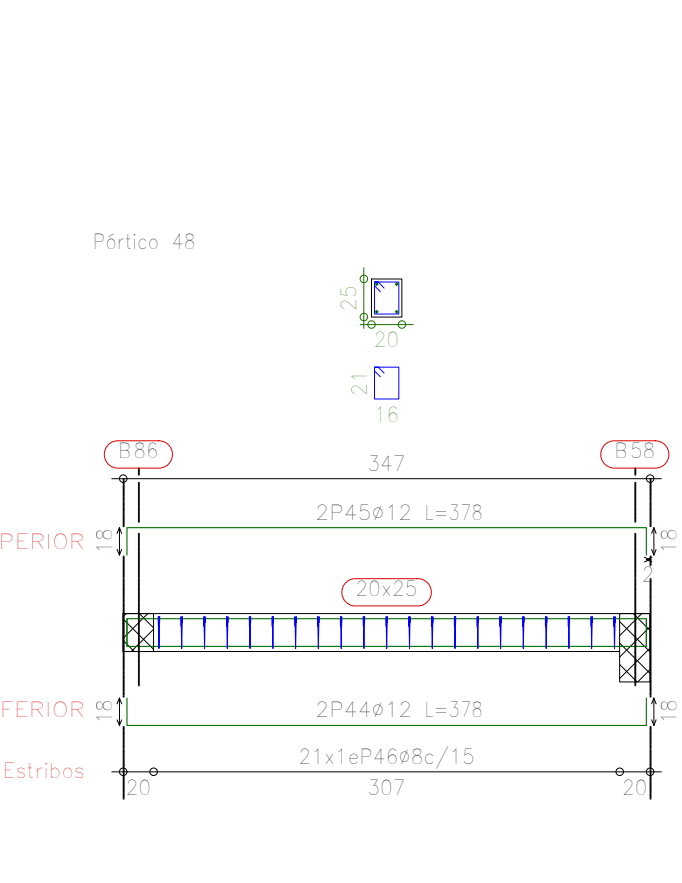
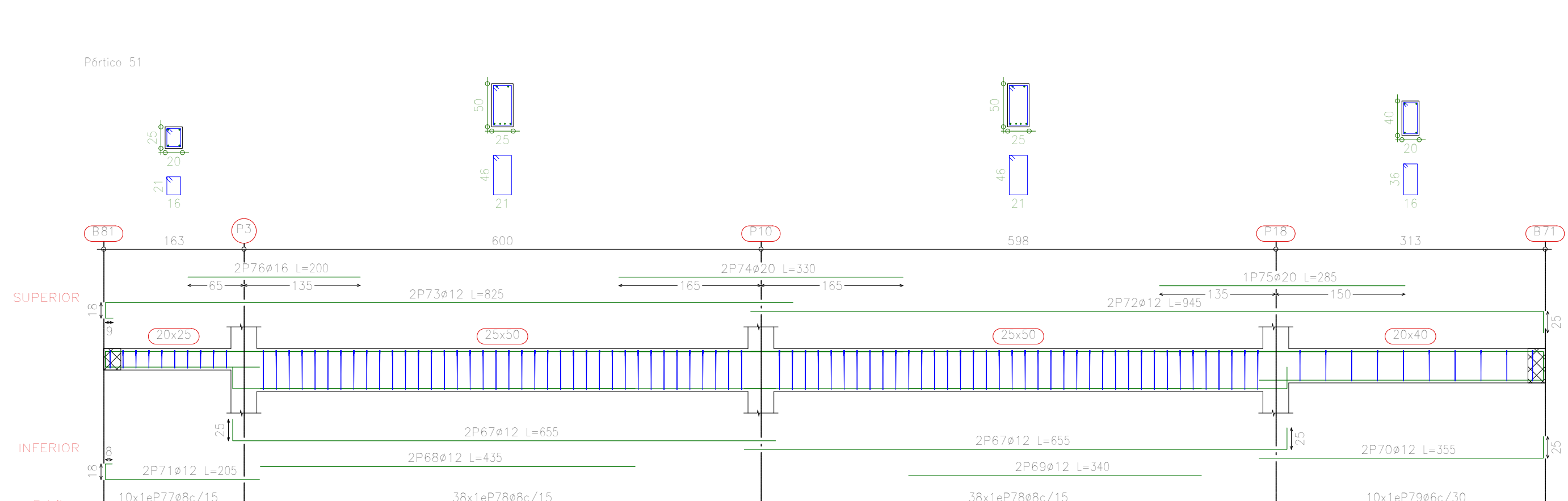
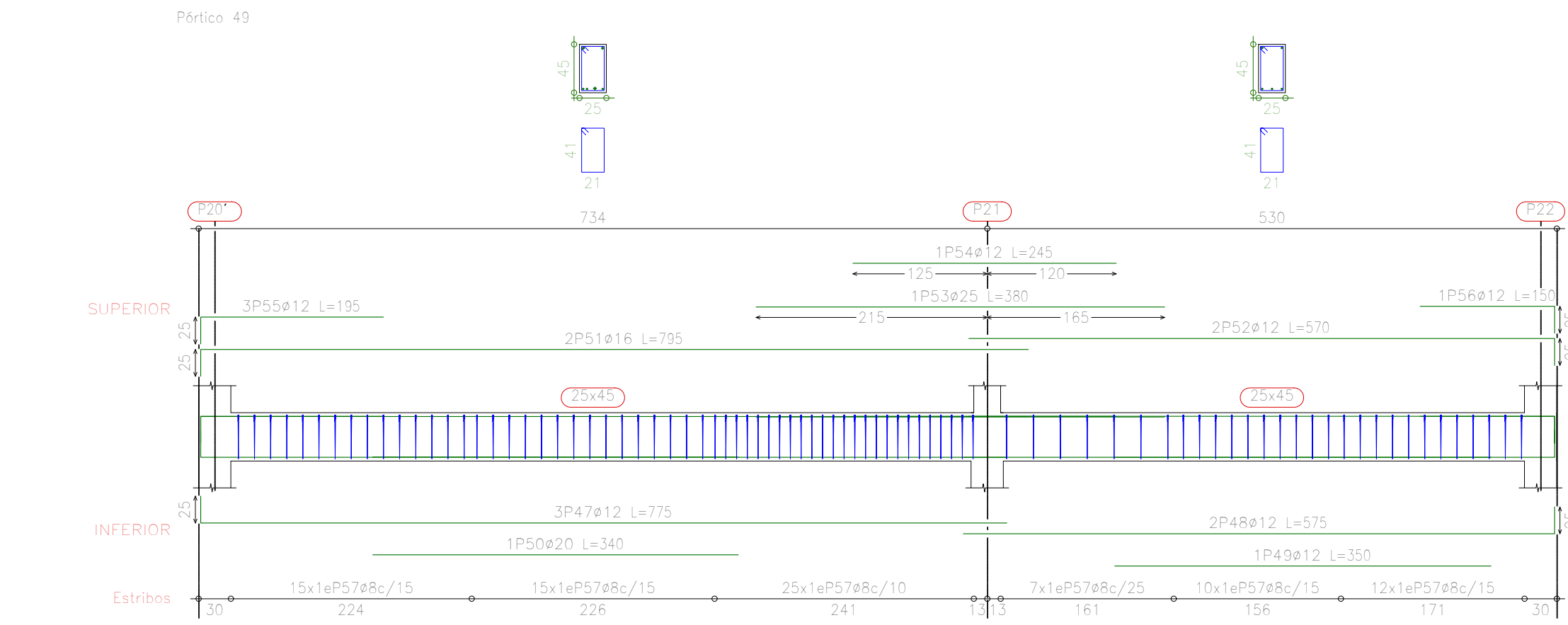
| Elemento  | Pos. | Dim. | No. | Long.<br>(cm) | Vol.<br>(cm³) | Wt.<br>(kg) |
|-----------|------|------|-----|---------------|---------------|-------------|
| Pélico 17 | 1    | 1    | 1   | 1065          | 1065          | 1065        |
|           | 2    | 2    | 2   | 1065          | 1065          | 1065        |
|           | 3    | 3    | 3   | 1065          | 1065          | 1065        |
|           | 4    | 4    | 4   | 1065          | 1065          | 1065        |
|           | 5    | 5    | 5   | 1065          | 1065          | 1065        |
|           | 6    | 6    | 6   | 1065          | 1065          | 1065        |
|           | 7    | 7    | 7   | 1065          | 1065          | 1065        |
|           | 8    | 8    | 8   | 1065          | 1065          | 1065        |
|           | 9    | 9    | 9   | 1065          | 1065          | 1065        |
|           | 10   | 10   | 10  | 1065          | 1065          | 1065        |
|           | 11   | 11   | 11  | 1065          | 1065          | 1065        |
|           | 12   | 12   | 12  | 1065          | 1065          | 1065        |
| Pélico 46 | 1    | 1    | 1   | 1065          | 1065          | 1065        |
|           | 2    | 2    | 2   | 1065          | 1065          | 1065        |
|           | 3    | 3    | 3   | 1065          | 1065          | 1065        |
|           | 4    | 4    | 4   | 1065          | 1065          | 1065        |
|           | 5    | 5    | 5   | 1065          | 1065          | 1065        |
|           | 6    | 6    | 6   | 1065          | 1065          | 1065        |
|           | 7    | 7    | 7   | 1065          | 1065          | 1065        |
|           | 8    | 8    | 8   | 1065          | 1065          | 1065        |
|           | 9    | 9    | 9   | 1065          | 1065          | 1065        |
|           | 10   | 10   | 10  | 1065          | 1065          | 1065        |
|           | 11   | 11   | 11  | 1065          | 1065          | 1065        |
|           | 12   | 12   | 12  | 1065          | 1065          | 1065        |



| Elemento  | Pos. | Dim. | No. | Long.<br>(cm) | Vol.<br>(cm³) | Wt.<br>(kg) |
|-----------|------|------|-----|---------------|---------------|-------------|
| Pélico 15 | 1    | 1    | 1   | 1065          | 1065          | 1065        |
|           | 2    | 2    | 2   | 1065          | 1065          | 1065        |
|           | 3    | 3    | 3   | 1065          | 1065          | 1065        |
|           | 4    | 4    | 4   | 1065          | 1065          | 1065        |
|           | 5    | 5    | 5   | 1065          | 1065          | 1065        |
|           | 6    | 6    | 6   | 1065          | 1065          | 1065        |
|           | 7    | 7    | 7   | 1065          | 1065          | 1065        |
|           | 8    | 8    | 8   | 1065          | 1065          | 1065        |
|           | 9    | 9    | 9   | 1065          | 1065          | 1065        |
|           | 10   | 10   | 10  | 1065          | 1065          | 1065        |
|           | 11   | 11   | 11  | 1065          | 1065          | 1065        |
|           | 12   | 12   | 12  | 1065          | 1065          | 1065        |
| Pélico 47 | 1    | 1    | 1   | 1065          | 1065          | 1065        |
|           | 2    | 2    | 2   | 1065          | 1065          | 1065        |
|           | 3    | 3    | 3   | 1065          | 1065          | 1065        |
|           | 4    | 4    | 4   | 1065          | 1065          | 1065        |
|           | 5    | 5    | 5   | 1065          | 1065          | 1065        |
|           | 6    | 6    | 6   | 1065          | 1065          | 1065        |
|           | 7    | 7    | 7   | 1065          | 1065          | 1065        |
|           | 8    | 8    | 8   | 1065          | 1065          | 1065        |
|           | 9    | 9    | 9   | 1065          | 1065          | 1065        |
|           | 10   | 10   | 10  | 1065          | 1065          | 1065        |
|           | 11   | 11   | 11  | 1065          | 1065          | 1065        |
|           | 12   | 12   | 12  | 1065          | 1065          | 1065        |



| Elemento  | Pos. | Dim. | No. | Long.<br>(cm) | Vol.<br>(cm³) | Wt.<br>(kg) |
|-----------|------|------|-----|---------------|---------------|-------------|
| Pélico 44 | 1    | 1    | 1   | 1065          | 1065          | 1065        |
|           | 2    | 2    | 2   | 1065          | 1065          | 1065        |
|           | 3    | 3    | 3   | 1065          | 1065          | 1065        |
|           | 4    | 4    | 4   | 1065          | 1065          | 1065        |
|           | 5    | 5    | 5   | 1065          | 1065          | 1065        |
|           | 6    | 6    | 6   | 1065          | 1065          | 1065        |
|           | 7    | 7    | 7   | 1065          | 1065          | 1065        |
|           | 8    | 8    | 8   | 1065          | 1065          | 1065        |
|           | 9    | 9    | 9   | 1065          | 1065          | 1065        |
|           | 10   | 10   | 10  | 1065          | 1065          | 1065        |
|           | 11   | 11   | 11  | 1065          | 1065          | 1065        |
|           | 12   | 12   | 12  | 1065          | 1065          | 1065        |



| Elemento | Pos. | Dim. | No. | Long.<br>(cm) | Vol.<br>(cm³) | Wt.<br>(kg) |
|----------|------|------|-----|---------------|---------------|-------------|
|----------|------|------|-----|---------------|---------------|-------------|

