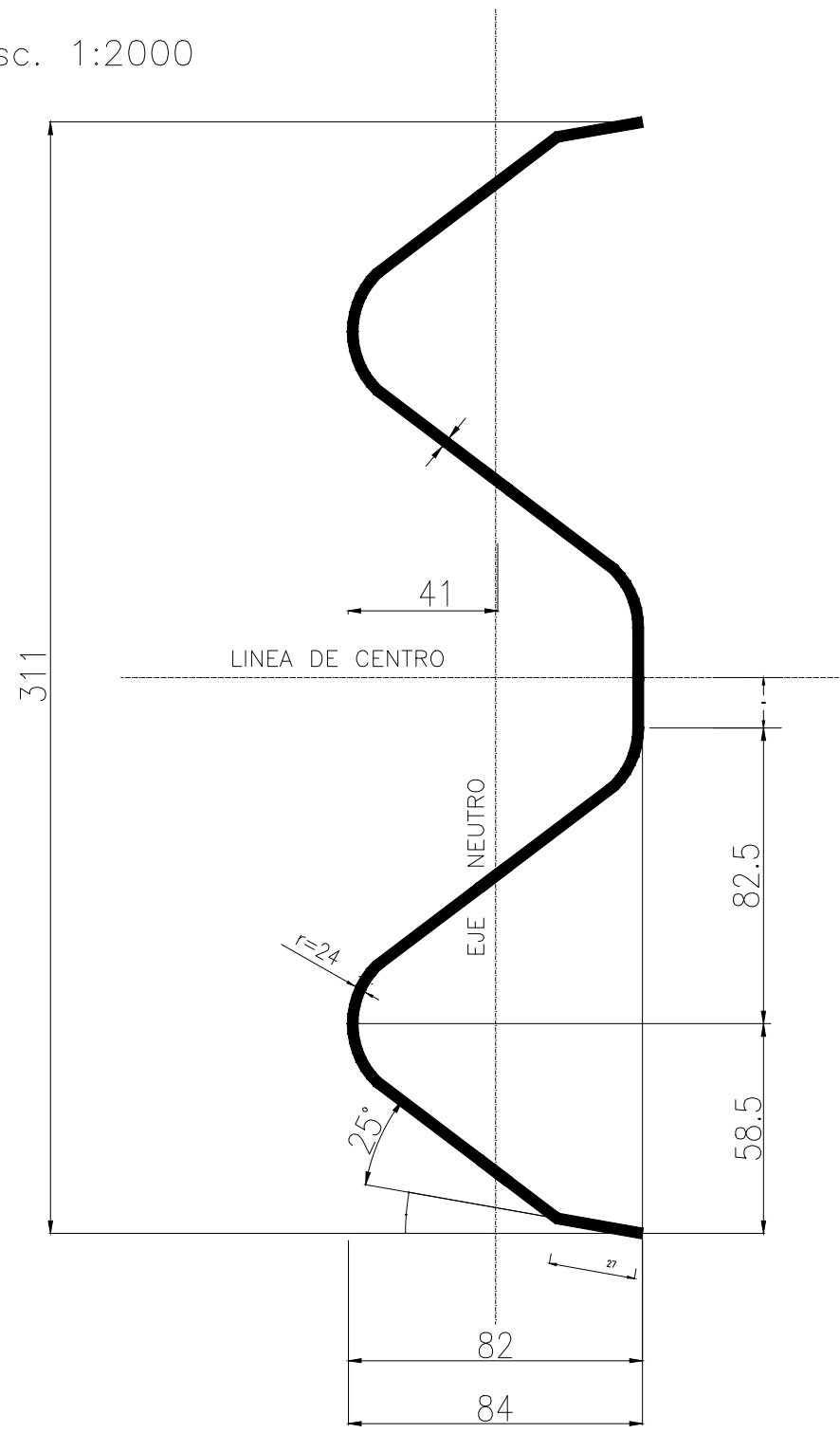
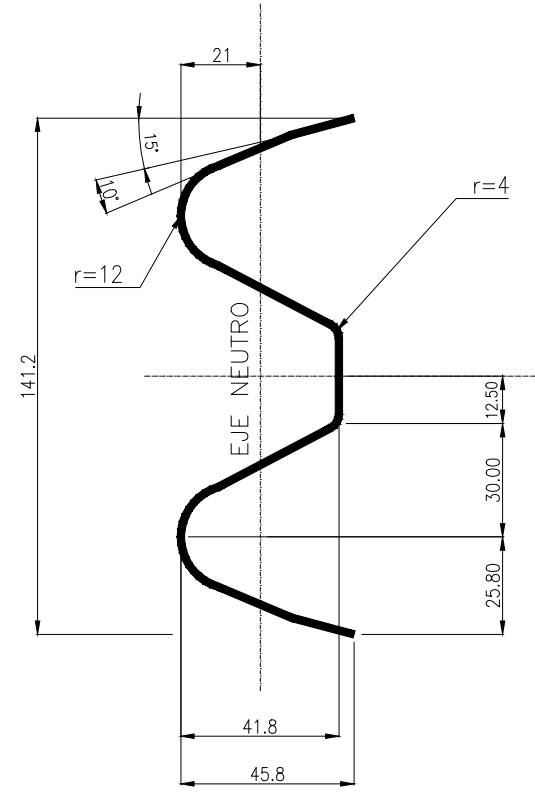


SECCION TRANSVERSAL

Esc. 1:2000

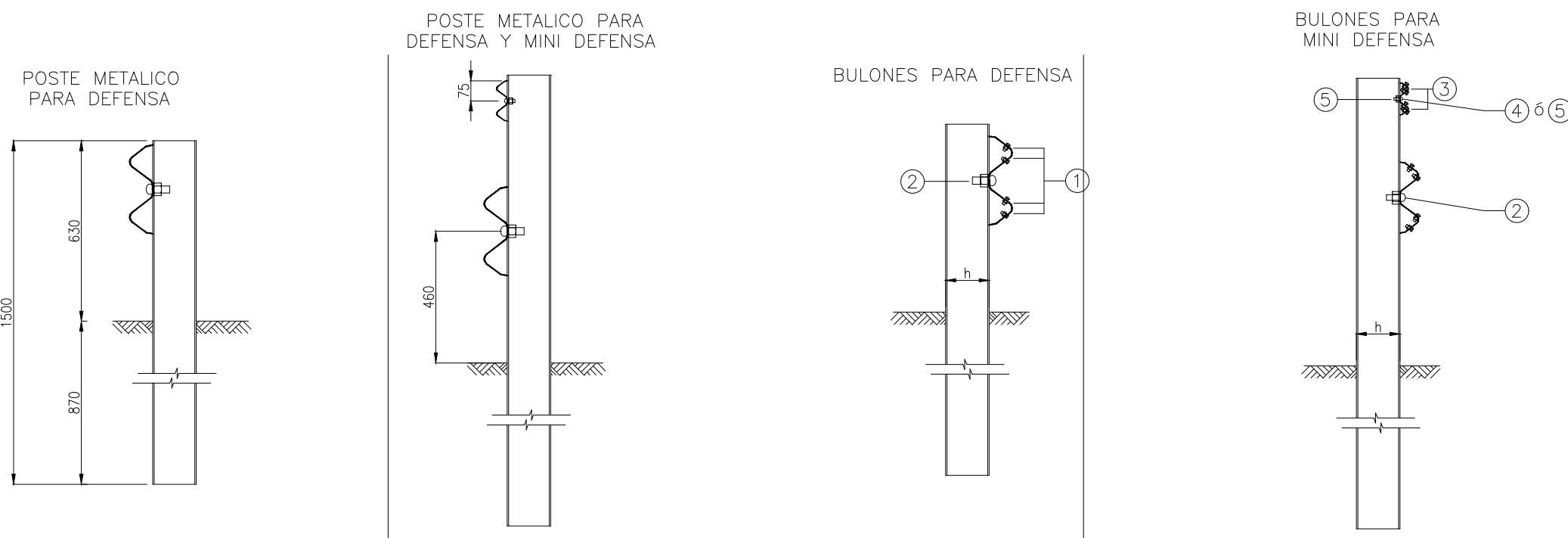


SECCION TRANSVERSAL



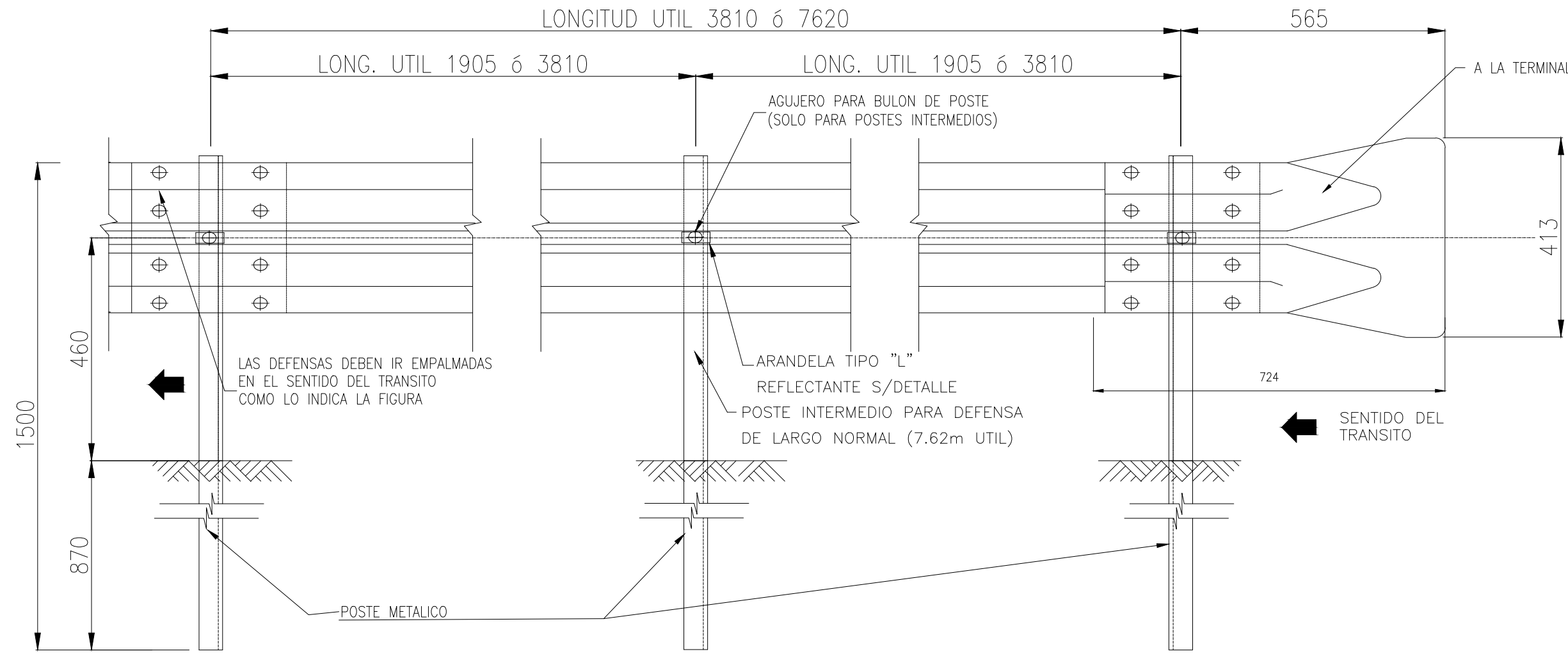
Esc. 1:2000

POSTES PARA FIJACION DE DEFENSAS Y DETALLE DE BULONES

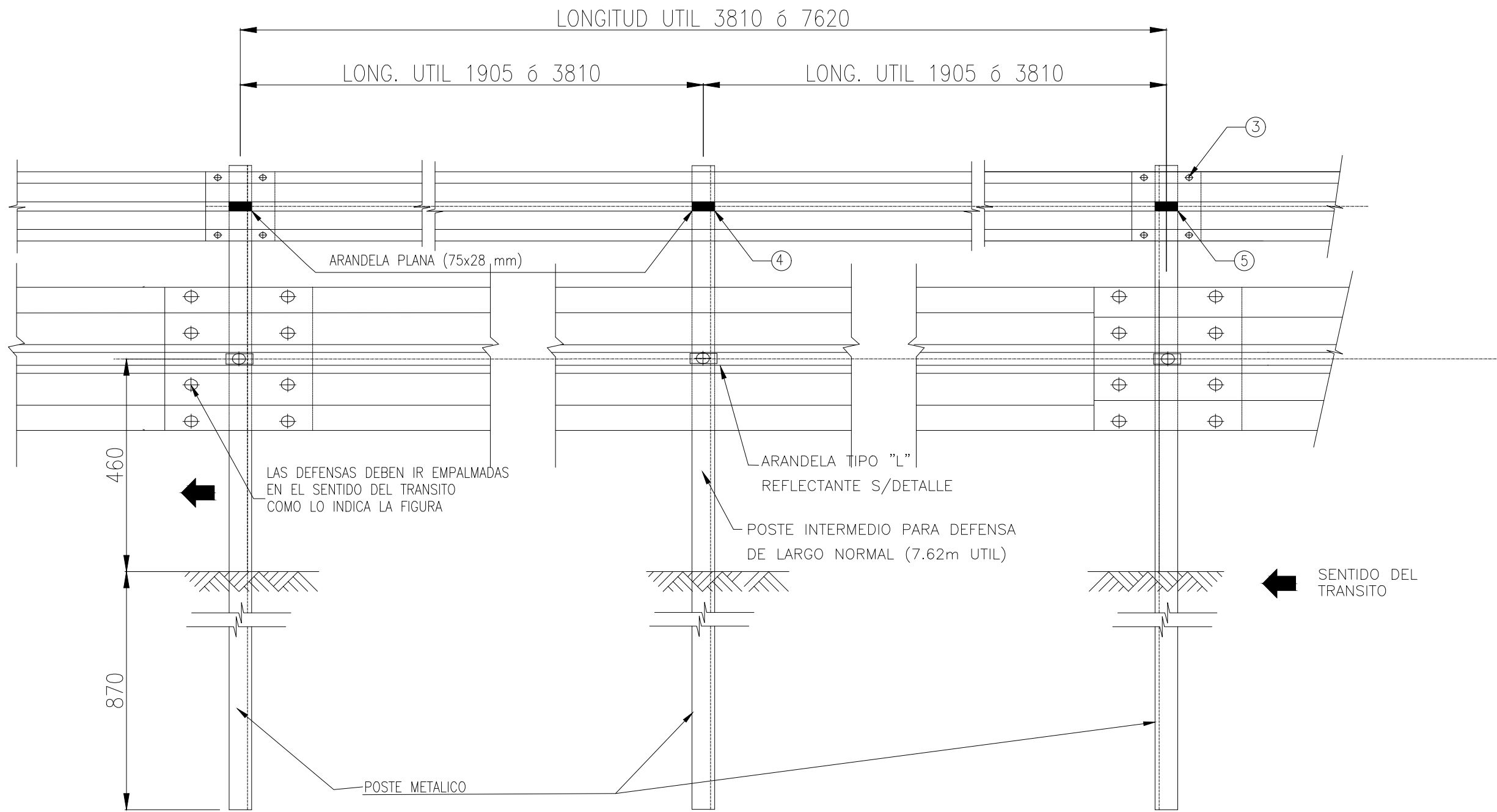


DETALLE DE INSTALACION DE LA DEFENSA

Esc. 1:1000



DETALLE DE INSTALACION DE LA MINI DEFENSA



NOTA: LA CARA REDONDEADA DE LA TUERCA DEBE ASENTAR CONTRA EL POSTE.

PROPIEDADES FISICAS DE LAS DEFENSAS

|              | TIPO | CLASE | CALIBRE<br>e | AREA DE LA SECCION TRANSVERSAL<br>cm <sup>2</sup> | MOMENTO DE INERCIA<br>cm <sup>4</sup> |          | MODULO RESISTENTE<br>cm <sup>3</sup> |          | PESO DE LA DEFENSA |              |
|--------------|------|-------|--------------|---|---------------------------------------|----------|--------------------------------------|----------|--------------------|--------------|
|              |      |       |              |   | HORIZONTAL                            | VERTICAL | HORIZONTAL                           | VERTICAL | 3.81 m<br>kg       | 7.62 m<br>kg |
| DEFENSA      |      | A     | 12 (2.5mm)   | 12.84   | 96.1                                  | 1249.0   | 22.5                                 | 80.6     | 41                 | 78           |
|              |      | B     | 10 (3.2mm)   | 16.52   | 123.62                                | 1607.0   | 28.90                                | 103.6    | 53                 | 100          |
| MINI DEFENSA |      | —     | 12 (2.5mm)   | 5.95  | 12.0                                  | 92.0     | 4.8                                  | 13.0     | 19                 | 40           |

PROPIEDADES FISICAS DE POSTES LAMINADOS EN CALIENTE

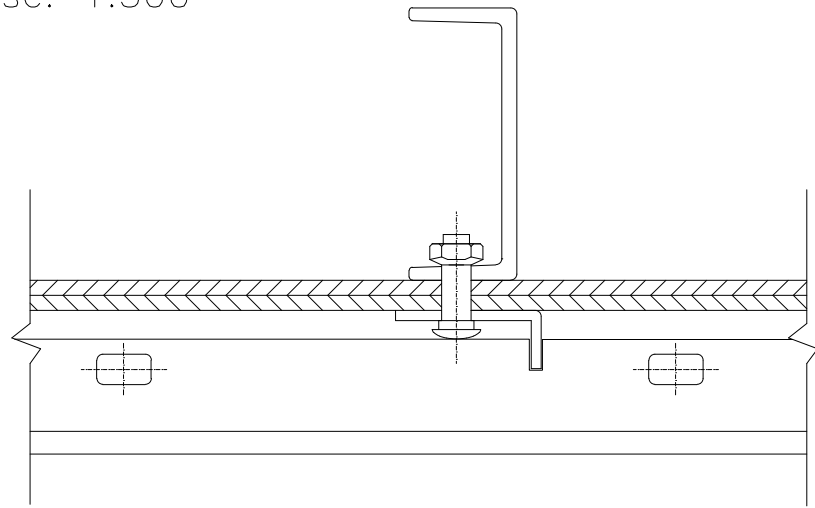
|         | TIPO | ALTURA<br>(h)<br>mm | ANCHO<br>(b)<br>mm | ESPESOR<br>(e)<br>mm | MOMENTO DE INERCIA<br>cm <sup>4</sup> |          | MODULO RESISTENTE<br>cm <sup>3</sup> |          | W <sub>x</sub> W <sub>y</sub><br>cm <sup>6</sup> | W <sub>x</sub> /W <sub>y</sub> |
|---------|------|---------------------|--------------------|----------------------|---------------------------------------|----------|--------------------------------------|----------|--|--------------------------------|
|         |      |                     |                    |                      | HORIZONTAL                            | VERTICAL | HORIZONTAL                           | VERTICAL |  |                                |
| LIVIANO |      | 152.4               | 48.77              | 5.08                 | 541                                   | 29.1     | 70.5                                 | 8.2      | 578  | 8.6                            |
| PESADO  |      | 177.8               | 53.09              | 5.33                 | 873                                   | 40.8     | 98.3                                 | 10.3     | 1013   | 9.54                           |

PROPIEDADES FISICAS DE POSTES CONFORMADOS EN FRIO

|         | TIPO | ALTURA<br>(h)<br>mm | ANCHO<br>(b)<br>mm | ESPESOR<br>(e)<br>mm | MOMENTO DE INERCIA<br>cm <sup>4</sup> |          | MODULO RESISTENTE<br>cm <sup>3</sup> |          | W <sub>x</sub> W <sub>y</sub><br>cm <sup>6</sup> | W <sub>x</sub> /W <sub>y</sub> |
|---------|------|---------------------|--------------------|----------------------|---------------------------------------|----------|--------------------------------------|----------|--|--------------------------------|
|         |      |                     |                    |                      | HORIZONTAL                            | VERTICAL | HORIZONTAL                           | VERTICAL |  |                                |
| LIVIANO |      | 170                 | 70                 | 4.75                 | 590                                   | 64       | 73.8                                 | 12.3     | 908  | 6.0                            |
| PESADO  |      | 190                 | 80                 | 4.75                 | 850                                   | 96       | 89.5                                 | 16.3     | 1578   | 5.5                            |

DETALLE DEL POSTE EN PLANTA

Esc. 1:500



NOTAS:

—LAS DEFENSAS EN CURVA, CUYO RADIO SEA MAYOR DE 45 m PODRAN ADAPTARSE DIRECTAMENTE EN OBRA AL INSTALARSE, Y LAS DE RADIO MENOR DEBERAN SER PROVISTAS CURVADAS PREVIAMENTE.

DIMENSIONES DE LOS BULONES

| POSICION | ø 16.0mm |    | ø 12.7mm |    |    |
|----------|----------|----|----------|----|----|
|          | 1        | 2  | 3        | 4  | 5  |
| a (mm)   | 6        | 6  | 4        | 4  | 4  |
| b (mm)   | 32       | 45 | 15       | 25 | 45 |

DATOS A FIJAR EN EL PROYECTO:

—DEFENSA SEGUN PLANO H—...  
—CLASE...  
—LONGITUD UTIL...m (MULTIPLO DE 3.81m)  
—CON O SIN ALAS TERMINALES (COMUNES O ESPECIALES)  
—POSTES (INDICAR TIPO)

DETALLE DE BULON Y TUERCA

BULON DE ø 12.7mm BULON DE ø 16x32mm BULON DE ø 16x45mm

Esc. 1:2000

