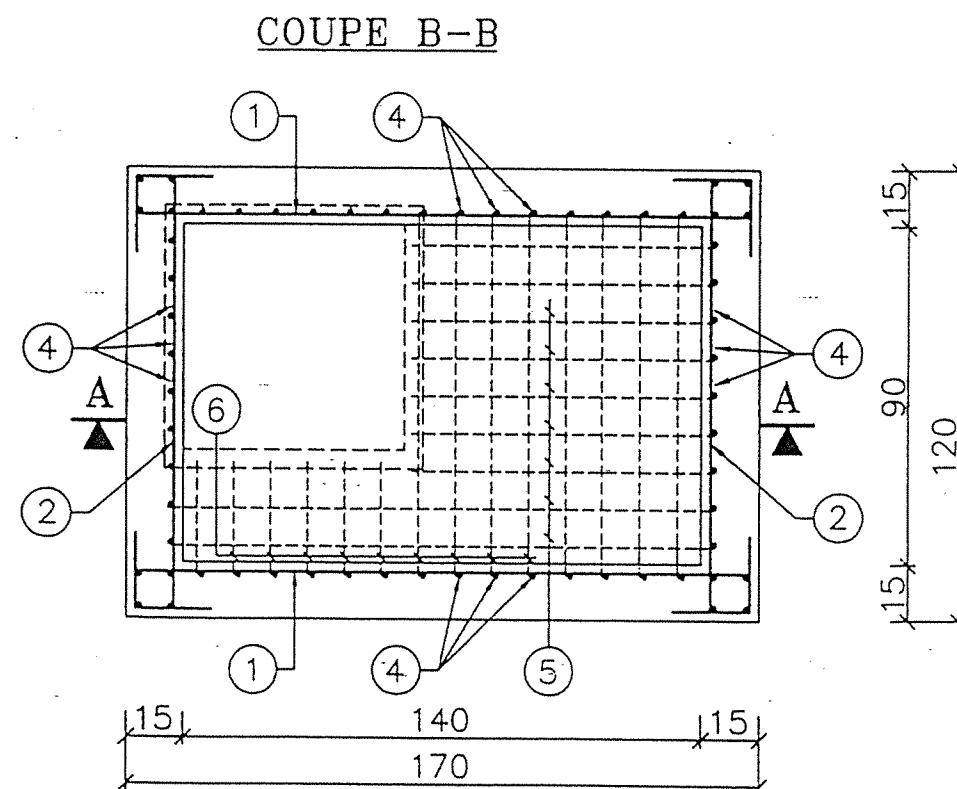
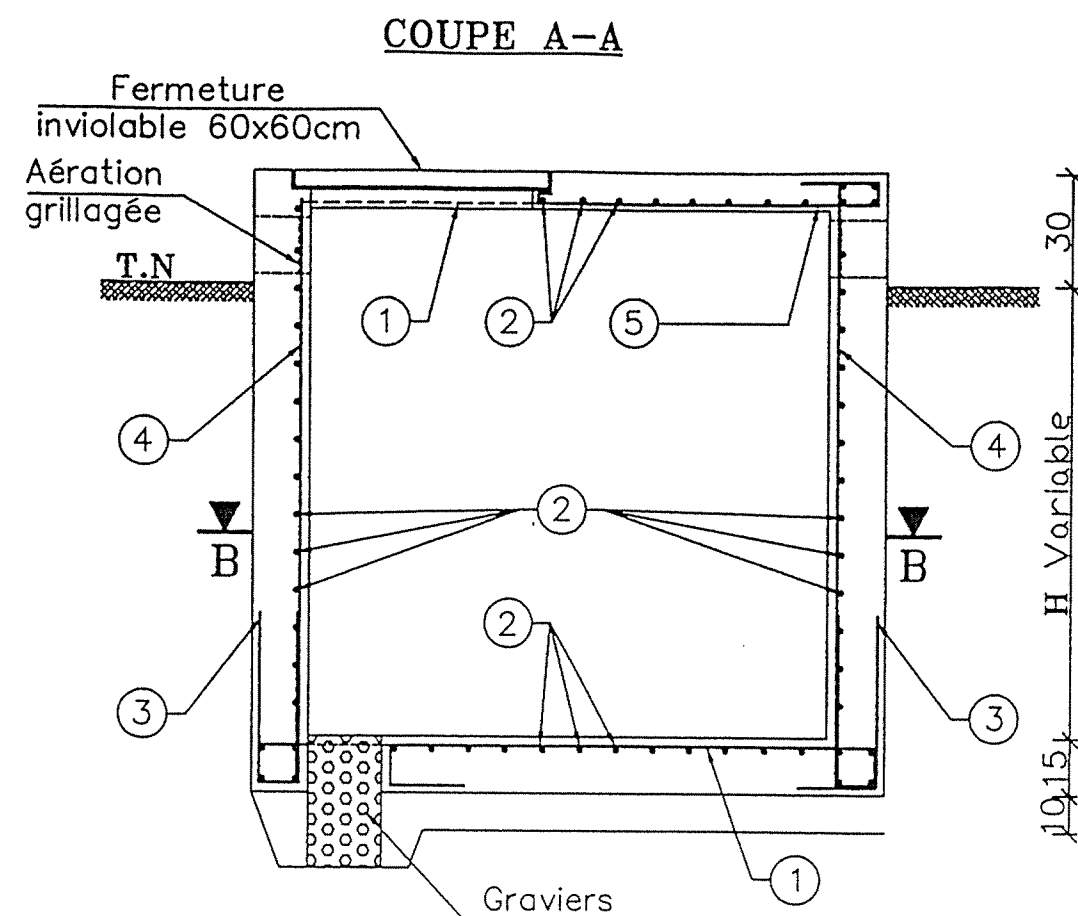




**Tableau des Armatures  
(F5)**

|   |                                          |
|---|------------------------------------------|
| 1 | L = 225 cm _ T8 _ e = 10 cm<br>20 165 20 |
| 2 | L = 175 cm _ T8 _ e = 10 cm<br>20 115 20 |
| 3 | L = 100 cm _ T8 _ e = 10 cm<br>45 45 10  |
| 4 | L ≥ 180 cm _ T8 _ e = 10 cm              |
| 5 | L = 110 cm _ T8 _ e = 10 cm<br>75 20 10  |
| 6 | L = 75 cm _ T8 _ e = 10 cm<br>40 20 10   |

**Bordereaux des Armatures (F5)**

| N°                     | Nb pièces | Diametre ( mm ) | Long (m) /pieces | Long (m) Totale |
|------------------------|-----------|-----------------|------------------|-----------------|
| 1                      | 45        | T8              | 2.25             | 101.25          |
| 2                      | 54        | T8              | 1.75             | 94.50           |
| 3                      | 42        | T8              | 1.00             | 42.00           |
| 4                      | 48        | T8              | 1.80             | 86.40           |
| 5                      | 7         | T8              | 1.10             | 7.70            |
| 6                      | 9         | T8              | 0.75             | 6.75            |
| Longueur Total         |           |                 |                  | 338.60          |
| Poids Unitaire (Kg/ml) |           |                 |                  | 0.395           |
| Poids Total (Kg)       |           |                 |                  | 133.74          |
| Poids Total + 5 % (Kg) |           |                 |                  | 140.00          |

**Métre :** H ≥ 1.40 m

|                                       |         |
|---------------------------------------|---------|
| Deblai en grande masse                | 9.50 m3 |
| Remblai autour de l'ouvrage           | 5.50 m3 |
| Béton de propreté dosé 150Kg/m3       | 0.25 m3 |
| Béton arme dosé à 350 Kg/m3           | 1.80 m3 |
| Flinkote (couches croisées)           | 9.00 m2 |
| Enduit ordinaire                      | 4.00 m2 |
| Badigeon au surfacaire(min 2 couches) | 4.00 m2 |

Technical drawing of a rectangular container with the following labels and dimensions:

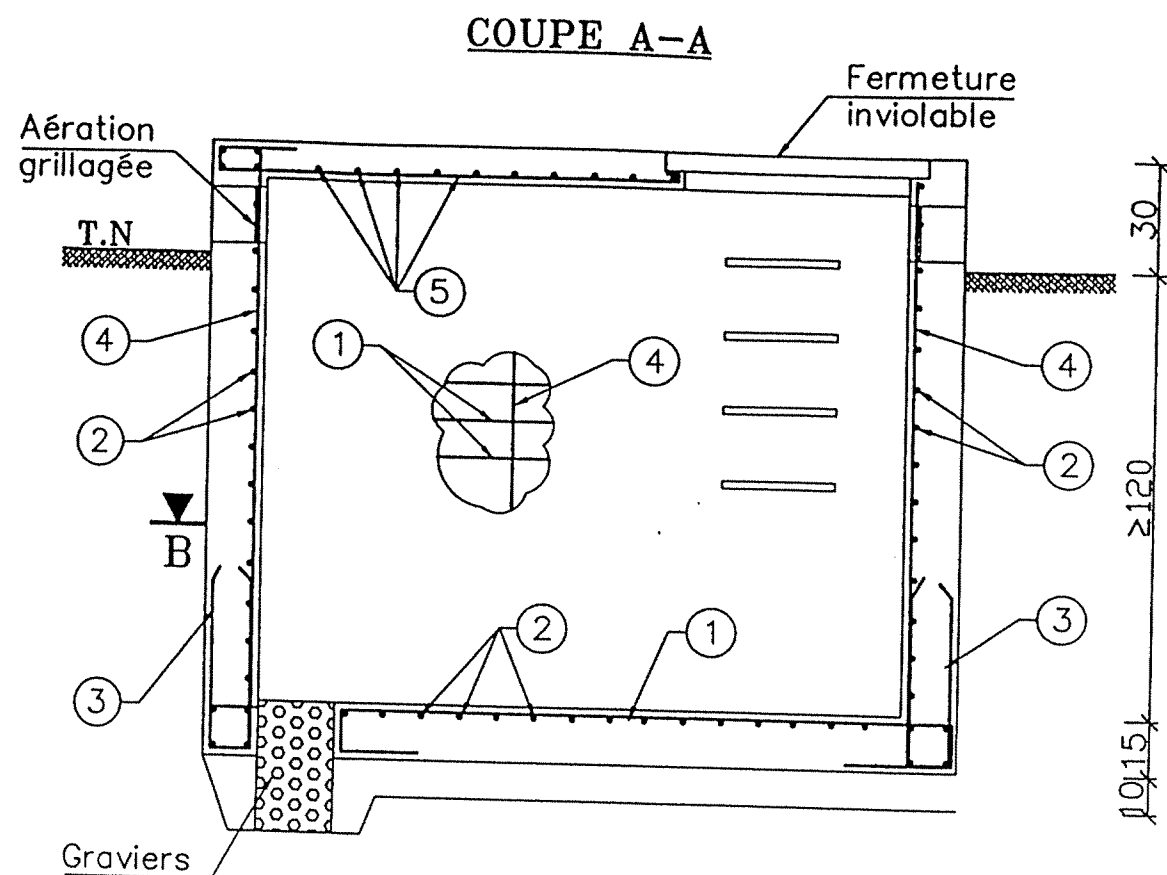
- Top Labels:** Fermeture inviolable 60x60cm, Aération grillagée, T.N.
- Bottom Labels:** Aération grillagée, T.N.
- Dimensions:** 30 (height),  $\geq 120$  (width), 10,15 (bottom offset).
- Numbered Callouts:** 1, 2, 3, 4, 5.

Technical drawing of a rectangular frame assembly. The drawing shows a central rectangular panel (1) surrounded by a frame (2). The frame is composed of two main sections (3) and (4). Dimensions are provided for the overall size and the frame components. The overall width is 195, with a central panel width of 165 and side frame sections of 15 each. The overall height is 120, with a central panel height of 90 and top/bottom frame sections of 15 each. Callouts 1, 2, 3, and 4 identify different parts of the assembly.

|   |                                                                                                                                         |
|---|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1 | $L = 250 \text{ cm} \quad T8 \quad e = 10 \text{ cm}$<br>$\begin{array}{ccc} \text{TO} & \boxed{30} & \text{TO} \\ & 190 & \end{array}$ |
| 2 | $L = 160 \text{ cm} \quad T8 \quad e = 10 \text{ cm}$<br>$\begin{array}{ccc} \text{TO} & \boxed{20} & \text{TO} \\ & 115 & \end{array}$ |
| 3 | $L = 110 \text{ cm} \quad T8 \quad e = 10 \text{ cm}$<br>$\begin{array}{ccc} & 50 & \\ & \boxed{50} & \text{TO} \end{array}$            |
| 4 | $L \geq 160 \text{ cm} \quad T8 \quad e = 10 \text{ cm}$<br><hr/>                                                                       |
| 5 | $11 \text{ T } 8 \text{ /ml}$                        |

| N°                     | Nb pièces  | Diametre<br>( mm ) | Long (m)<br>/pieces | Long (m)<br>Totale |
|------------------------|------------|--------------------|---------------------|--------------------|
| 1                      | <b>40</b>  | T8                 | 2.70                | <b>108.30</b>      |
| 2                      | 46         | T8                 | 1.75                | 80.50              |
| 3                      | <b>44</b>  | T8                 | 1.10                | <b>48.40</b>       |
| 4                      | <b>54</b>  | T8                 | 1.60                | <b>83.2</b>        |
| 5                      | 22 ml / m2 | T8                 | —                   | <b>50.00</b>       |
| Longueur Total         |            |                    |                     | <b>370.10</b>      |
| Poids Unitaire (Kg/ml) |            |                    |                     | 0.395              |
| Poids Total (Kg)       |            |                    |                     | <b>146.19</b>      |
| Poids Total + 5 % (Kg) |            |                    |                     | <b>154.00</b>      |

|                                       |         |
|---------------------------------------|---------|
| Deblai en grande masse                | 9,00 m3 |
| Remblai autour de l'ouvrage           | 5,50 m3 |
| Béton de propreté dosé 150Kg/m3       | 0,3 m3  |
| Béton arme dosé à 350 Kg/m3           | 1,8 m3  |
| Flinkote (couches croisées)           | 9.00 m2 |
| Enduit ordinaire                      | 4.5 m2  |
| Badigeon au surfacaire(min 2 couches) | 4.50 m2 |



### Schémas des aciers(F4)

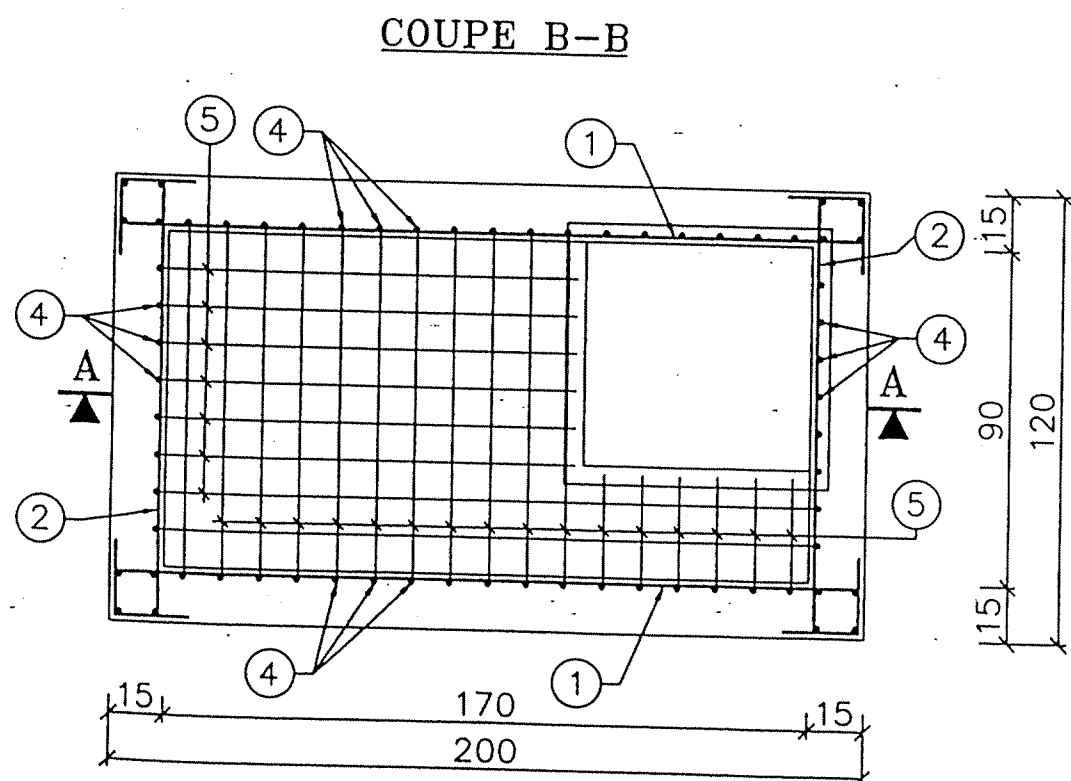
|   |                                          |
|---|------------------------------------------|
| 1 | L = 195 cm _ T8 _ e = 10 cm<br>20 135 20 |
| 2 | L = 175 cm _ T8 _ e = 10 cm<br>20 115 20 |
| 3 | L = 130 cm _ T8 _ e = 10 cm<br>60 60     |
| 4 | L ≥ 160 cm _ T8 _ e = 10 cm              |
| 5 | # T8 _ e = 10 cm                         |

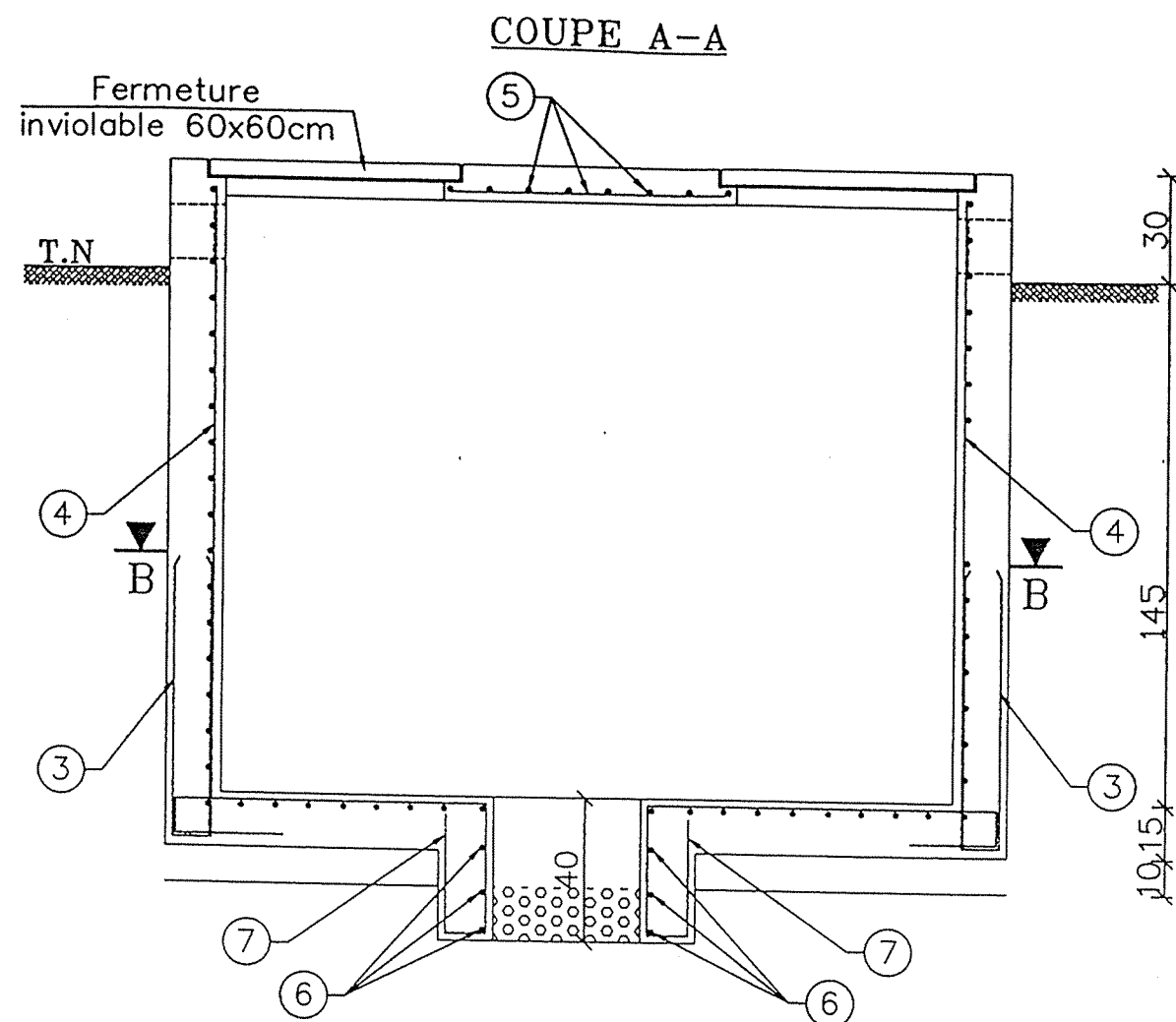
### Bordereaux des Armatures (F4)

| N°                     | Nb pièces | Diametre ( mm ) | Long (m) /pieces | Long (m) Totale |
|------------------------|-----------|-----------------|------------------|-----------------|
| 1                      | 38        | T8              | 1.95             | 74.10           |
| 2                      | 43        | T8              | 1.75             | 75.25           |
| 3                      | 42        | T8              | 1.30             | 54.60           |
| 4                      | 46        | T8              | 1.60             | 73.60           |
| 5                      | —         | T8              | —                | 45.00           |
| Longueur Total         |           |                 |                  | 322.55          |
| Poids Unitaire (Kg/ml) |           |                 |                  | 0.395           |
| Poids Total (Kg)       |           |                 |                  | 127.40          |
| Poids Total + 5 % (Kg) |           |                 |                  | 134.00Kgs       |

### Métré :

|                                       |         |
|---------------------------------------|---------|
| Deblai en grande masse                | 8.50 m3 |
| Remblai autour de l'ouvrage           | 5.50m3  |
| Béton de propreté dosé 150Kg/m3       | 0.25 m3 |
| Béton arme dosé à 350 Kg/m3           | 1.60m3  |
| Flinkote (couches croisées)           | 8.00m2  |
| Enduit ordinaire                      | 3.50m2  |
| Badigeon au surfacaire(min 2 couches) | 3.50 m2 |
| Fermeture inviolable                  | 1       |





**Tableau des Armatures (F4)**

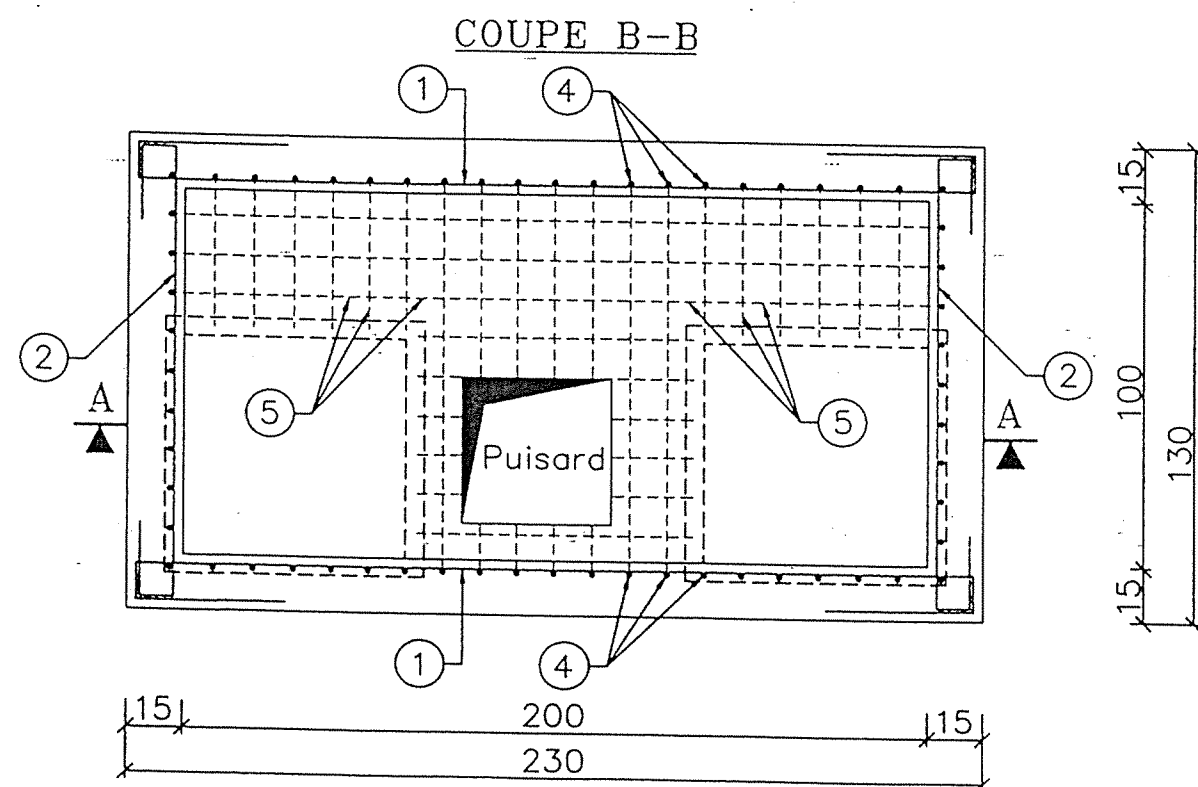
|   |                                                 |
|---|-------------------------------------------------|
| 1 | L = 325 cm _ T8 _ e = 10 cm<br>10 40 225 40 10  |
| 2 | L = 165 cm _ T8 _ e = 10 cm<br>10 20 105 20 10  |
| 3 | L = 160 cm _ T8 _ e = 10 cm<br>75 75 10         |
| 4 | L ≥ 185 cm _ T8 _ e = 10 cm                     |
| 5 | 11 T 8/ml<br>#                                  |
| 6 | Cad. T8 _ L = 190 cm _ e = 10 cm<br>45 45 45 45 |
| 6 | L = 80 cm _ T8 _ e = 10 cm<br>35 35 10          |

**Bordereaux des Armatures (F4)**

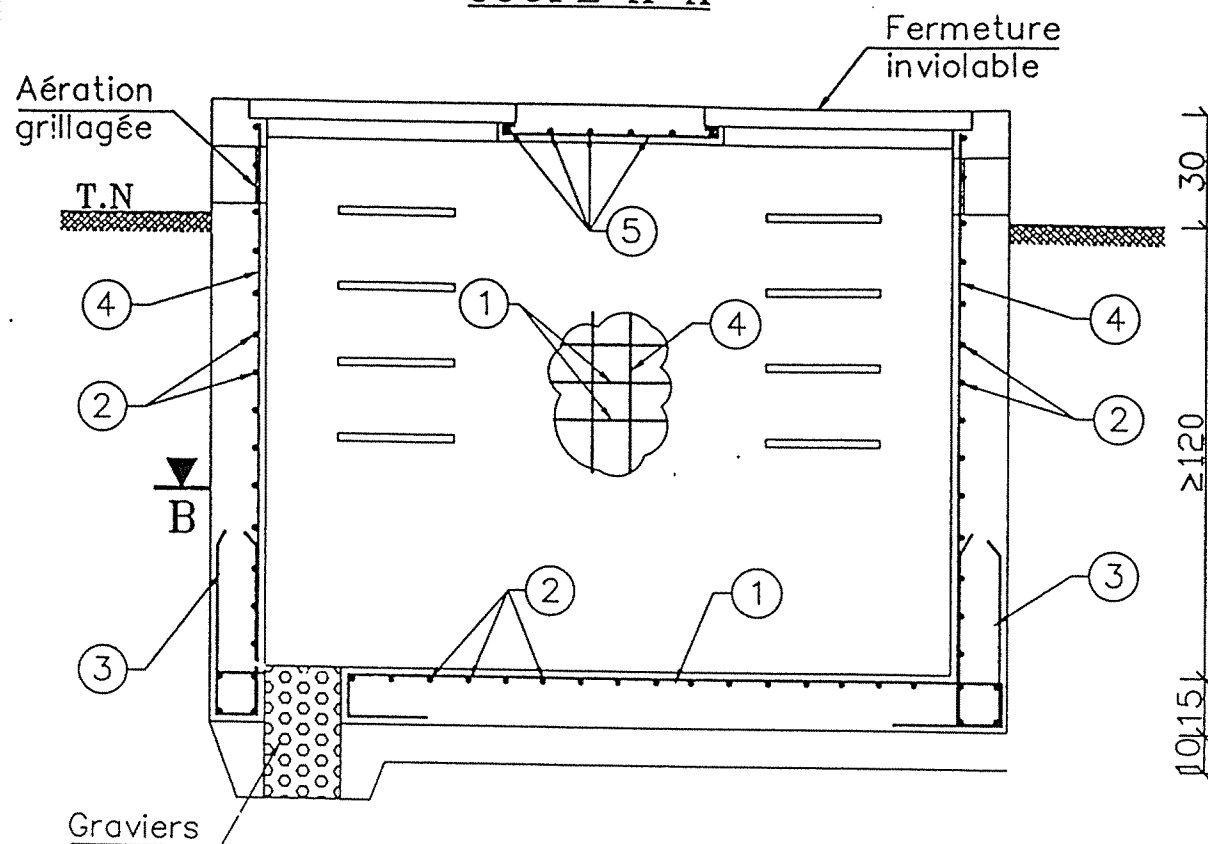
| N°                     | Nb pièces | Diametre ( mm ) | Long (m) /pieces | Long (m) Totale |
|------------------------|-----------|-----------------|------------------|-----------------|
| 1                      | 45        | T8              | 3.25             | 146.25          |
| 2                      | 55        | T8              | 1.65             | 90.75           |
| 3                      | 56        | T8              | 1.60             | 89.60           |
| 4                      | 60        | T8              | 1.85             | 111.00          |
| 5                      | 22ml/m2   | T8              | —                | 60.00           |
| 6                      | 3         | T8              | 1.90             | 5.70            |
| 7                      | 12        | T8              | 0.80             | 9.60            |
| Longueur Total         |           |                 |                  | 512.90          |
| Poids Unitaire (Kg/ml) |           |                 |                  | 0.395           |
| Poids Total (Kg)       |           |                 |                  | 202.59          |
| Poids Total + 5 % (Kg) |           |                 |                  | 213.00          |

**Métre :**

|                                       |          |
|---------------------------------------|----------|
| Deblai en grande masse                | 11.00 m3 |
| Remblai autour de l'ouvrage           | 6.00 m3  |
| Béton de propreté dosé 150Kg/m3       | 0.40 m3  |
| Béton arme dosé à 350 Kg/m3           | 2.50 m3  |
| Flinkote (couches croisées)           | 11.20 m2 |
| Enduit ordinaire                      | 5.00 m2  |
| Badigeon au surfacaire(min 2 couches) | 5.00 m2  |



COUPE A-A



Schémas des aciers(F6)

|   |                                          |
|---|------------------------------------------|
| 1 | L = 245 cm _ T8 _ e = 10 cm<br>30 165 30 |
| 2 | L = 160 cm _ T8 _ e = 10 cm<br>20 115 20 |
| 3 | L = 130 cm _ T8 _ e = 10 cm<br>60 60     |
| 4 | L ≥ 160 cm _ T8 _ e = 10 cm              |
| 5 | # T8 _ e = 10 cm                         |

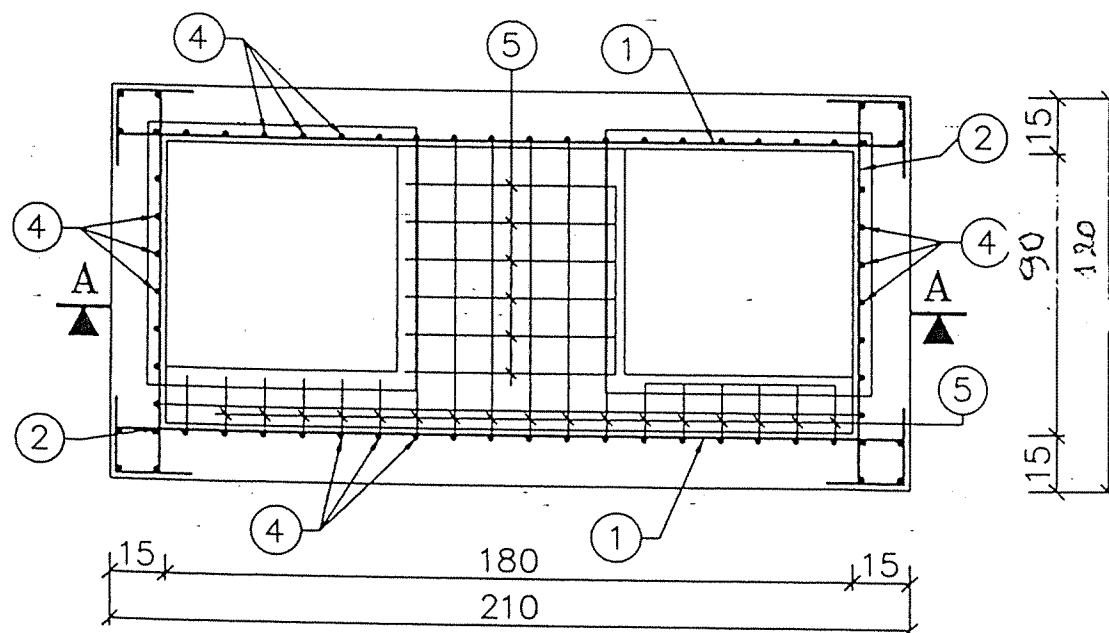
Bordereaux des Armatures (F6)

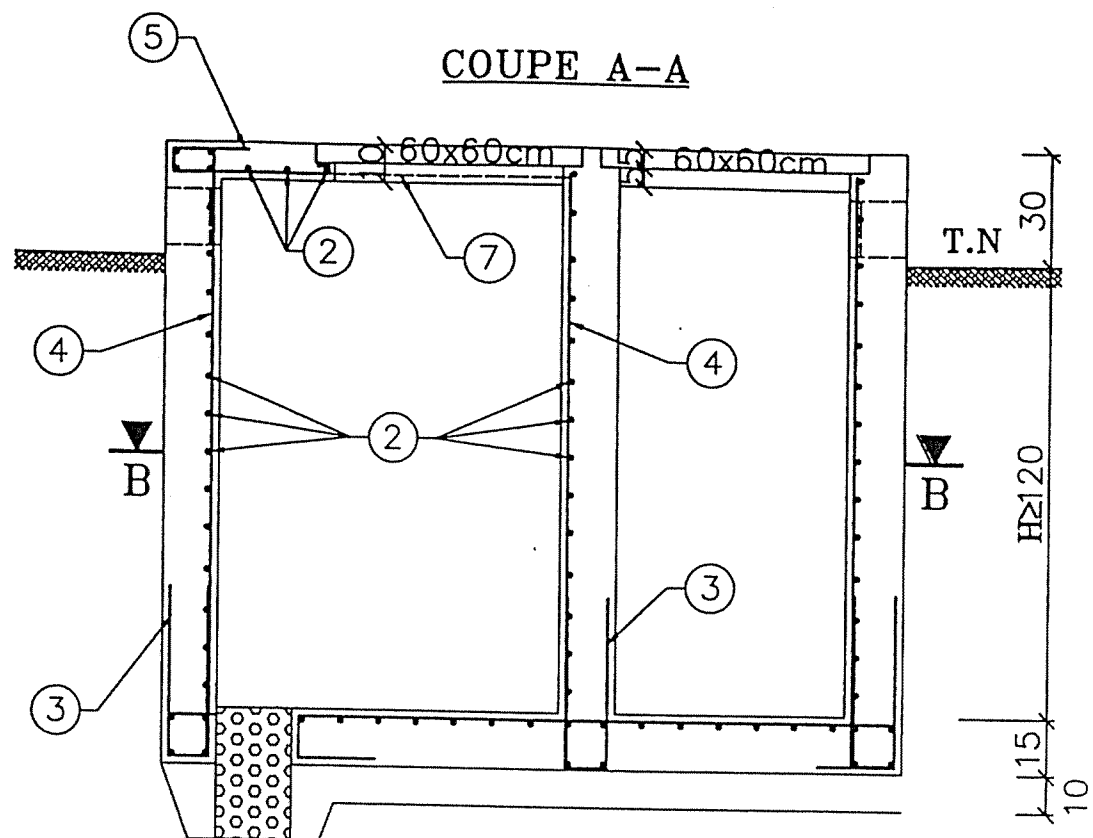
| N°                     | Nb pièces | Diametre ( mm ) | Long (m) /pieces | Long (m) Totale |
|------------------------|-----------|-----------------|------------------|-----------------|
| 1                      | 40        | T8              | 2.45             | 98,00           |
| 2                      | 49        | T8              | 1,75             | 85,75           |
| 3                      | 50        | T8              | 1.30             | 65,00           |
| 4                      | 54        | T8              | 1.60             | 86,40           |
| 5                      | —         | T8              | —                | 40,00           |
| Longueur Total         |           |                 |                  | 375,15          |
| Poids Unitaire (Kg/ml) |           |                 |                  | 0.395           |
| Poids Total (Kg)       |           |                 |                  | 148,18          |
| Poids Total + 5 % (Kg) |           |                 |                  | 156.00Kgs       |

Métré : ( H = 1,2 )

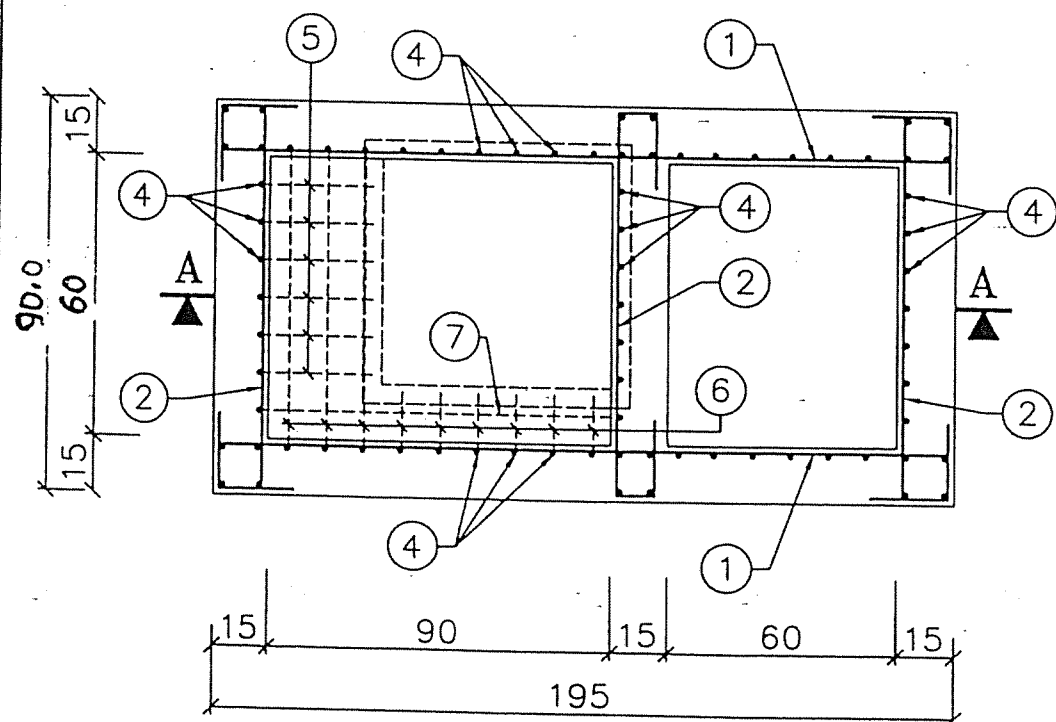
|                                       |         |
|---------------------------------------|---------|
| Deblai en grande masse                | 9,00 m³ |
| Remblai autour de l'ouvrage           | 5,5 m³  |
| Béton de propreté dosé 150Kg/m³       | 0,3 m³  |
| Béton arme dosé à 350 Kg/m³           | 4,90 m³ |
| Flinkote (couches croisées)           | 9,0 m²  |
| Enduit ordinaire                      | 4,0 m²  |
| Badigeon au surfacaire(min 2 couches) | 4,0 m²  |
| Fermeture inviolable                  | 2       |

COUPE B-B





**COUPE B-B**



**Schémas des aciers(F3)**

|   |                                          |
|---|------------------------------------------|
| 1 | L = 250 cm _ T8 _ e = 10 cm<br>20 190 20 |
| 2 | L = 160 cm _ T8 _ e = 10 cm<br>20 85 20  |
| 3 | L = 100 cm _ T8 _ e = 10 cm<br>45 45     |
| 4 | L ≥ 150 cm _ T8 _ e = 10 cm              |
| 5 | L = 80 cm _ T8 _ e = 10 cm<br>20 45      |
| 6 | L = 60 cm _ T8 _ e = 10 cm<br>20 25      |
| 7 | L = 150 cm _ T8 _ e = 10 cm<br>20 100    |

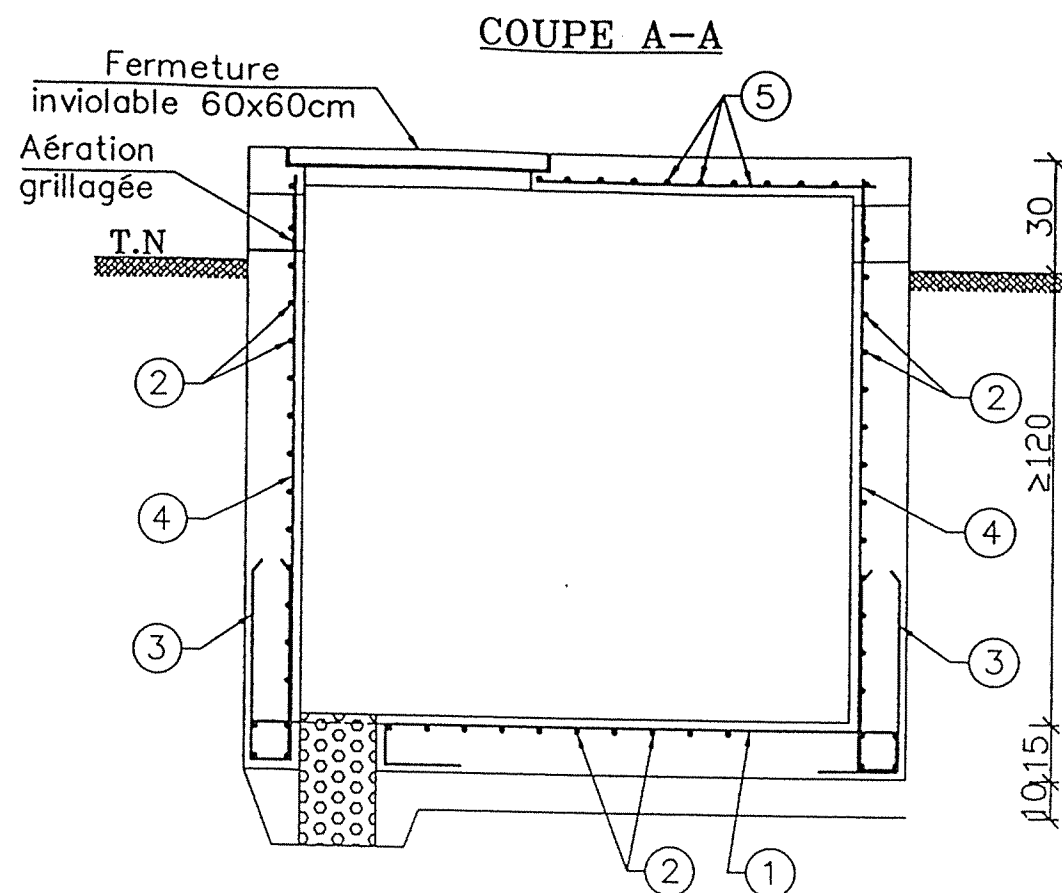
**Bordereaux des Armatures (F3)**

| N°                     | Nb pièces | Diametre ( mm ) | Long (m) /pièces | Long (m) Totale |
|------------------------|-----------|-----------------|------------------|-----------------|
| 1                      | 36        | T8              | 2.50             | 90.00           |
| 2                      | 64        | T8              | 1.45             | 92.8            |
| 3                      | 47        | T8              | 1.00             | 47.00           |
| 4                      | 71        | T8              | 1.60             | 113.6           |
| 5                      | 4         | T8              | 0.80             | 3.20            |
| 6                      | 5         | T8              | 0.60             | 3.00            |
| 7                      | 2         | T8              | 1.50             | 3.00            |
| Longueur Total         |           |                 |                  | 352.60          |
| Poids Unitaire (Kg/ml) |           |                 |                  | 0.395           |
| Poids Total (Kg)       |           |                 |                  | 139.28          |
| Poids Total + 5 % (Kg) |           |                 |                  | 146.00          |

**Métré : (H = 1.2 m)**

|                                       |         |
|---------------------------------------|---------|
| Deblai en grande masse                | 9.00 m3 |
| Remblai autour de l'ouvrage           | 5.50 m3 |
| Béton de propreté dosé 150Kg/m3       | 0.20 m3 |
| Béton arme dosé à 350 Kg/m3           | 4.65 m3 |
| Daliette préfabriquée (e=5cm)         | 0.51 m2 |
| Flinkote (couches croisées)           | 8.00 m2 |
| Enduit ordinaire                      | 2.50 m2 |
| Badigeon au surfacaire(min 2 couches) | 2.15 m2 |
| Enduit étanche                        | 4.50 m2 |





**Tableau des Armatures (F5)**

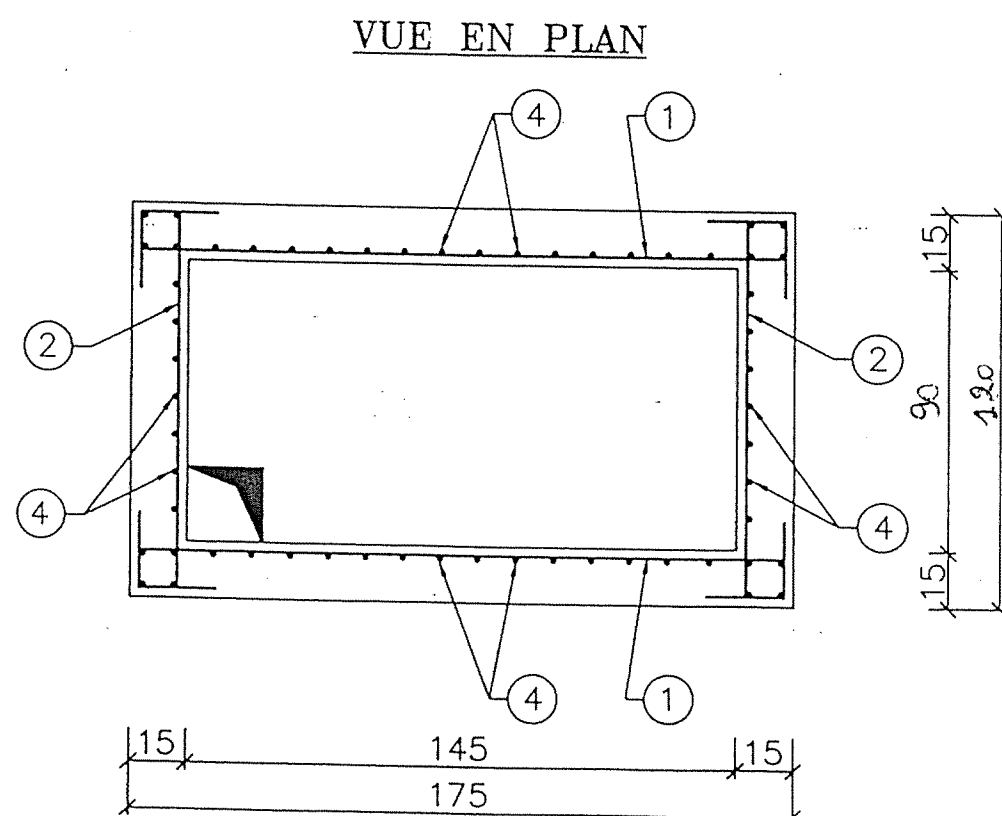
|   |                                          |
|---|------------------------------------------|
| 1 | L = 250 cm _ T8 _ e = 10 cm<br>30 170 30 |
| 2 | L = 160 cm _ T8 _ e = 10 cm<br>20 115 20 |
| 3 | L = 110 cm _ T8 _ e = 10 cm<br>50 50     |
| 4 | L ≥ 160 cm _ T8 _ e = 10 cm              |
| 5 | 11 T 8 /ml #                             |

**Bordereaux des Armatures (F5)**

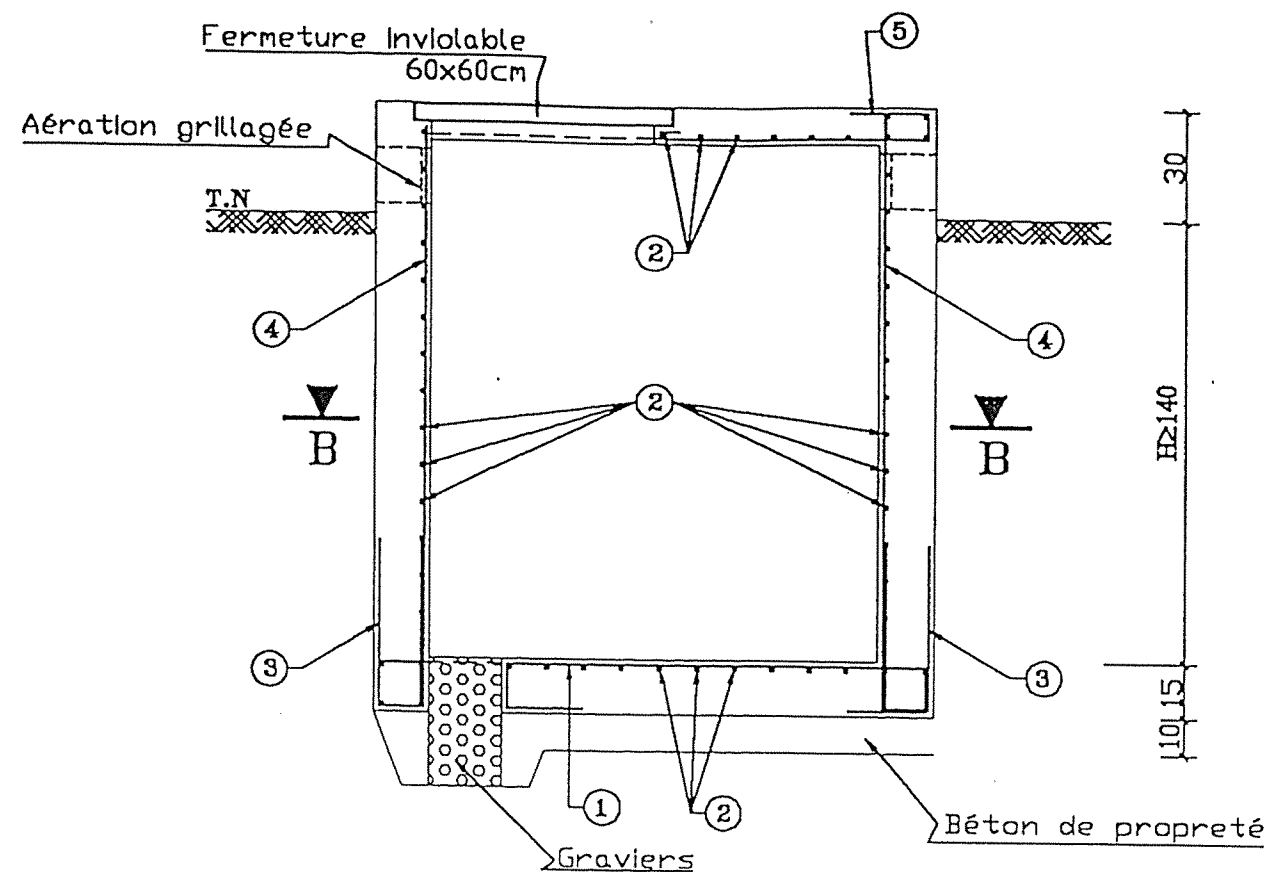
| N°                     | Nb pièces  | Diametre ( mm ) | Long (m) /pièces | Long (m) Totale |
|------------------------|------------|-----------------|------------------|-----------------|
| 1                      | 38         | T8              | 2.50             | 95.00           |
| 2                      | 46         | T8              | 1.75             | 80.50           |
| 3                      | 44         | T8              | 1.10             | 48.40           |
| 4                      | 48         | T8              | 1.60             | 76.80           |
| 5                      | 22 ml / m2 | T8              | -                | 50.00           |
| Longueur Total         |            |                 |                  | 325.90          |
| Poids Unitaire (Kg/ml) |            |                 |                  | 0.395           |
| Poids Total (Kg)       |            |                 |                  | 138.52          |
| Poids Total + 5 % (Kg) |            |                 |                  | 145.00          |

**Métré : (H=1.2m)**

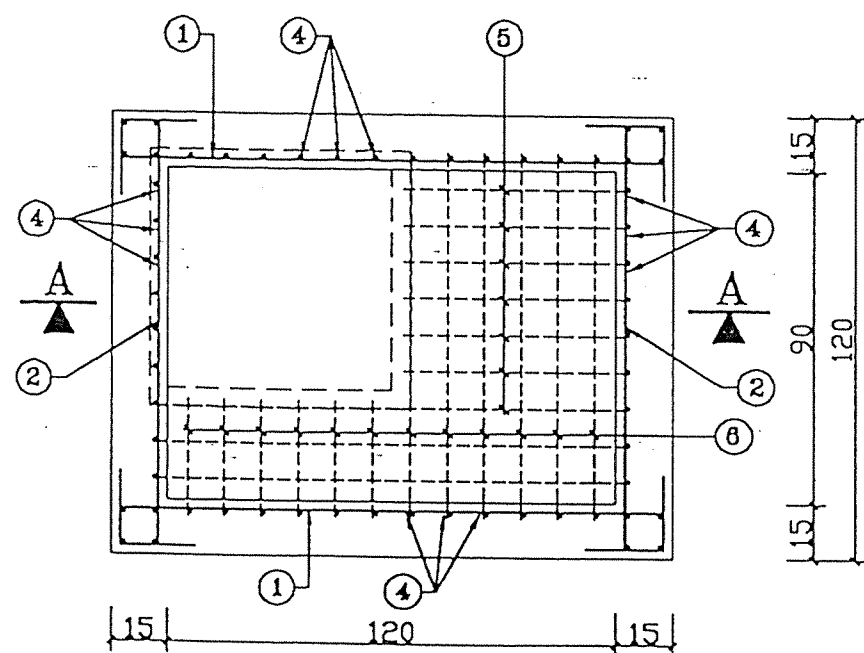
|                                       |         |
|---------------------------------------|---------|
| Deblai en grande masse                | 8.50 m3 |
| Remblai autour de l'ouvrage           | 5.00 m3 |
| Béton de propreté dosé 150Kg/m3       | 0.25 m3 |
| Béton arme dosé à 350 Kg/m3           | 1.65 m3 |
| Flinkote (couches croisées)           | 8.00 m2 |
| Enduit ordinaire                      | 4.00 m2 |
| Badigeon au surfacaire(min 2 couches) | 4.00 m2 |



COUPE A-A



COUPE B-B



Schémas des aciers (F5)

|   |                                              |     |    |
|---|----------------------------------------------|-----|----|
| 1 | $l = 205\text{cm} - T8 - e = 10\text{cm}$    | 145 | 20 |
| 2 | $l = 175\text{cm} - T8 - e = 10\text{cm}$    | 115 | 20 |
| 3 | $l = 100\text{cm} - T8 - e = 10\text{cm}$    | 45  | 10 |
| 4 | $l \geq 180\text{cm} - T8 - e = 10\text{cm}$ |     |    |
| 5 | $l = 110\text{cm} - T8 - e = 10\text{cm}$    | 75  | 20 |
| 6 | $l = 75\text{cm} - T8 - e = 10\text{cm}$     | 40  | 20 |

Bordereau des Armatures (F5)

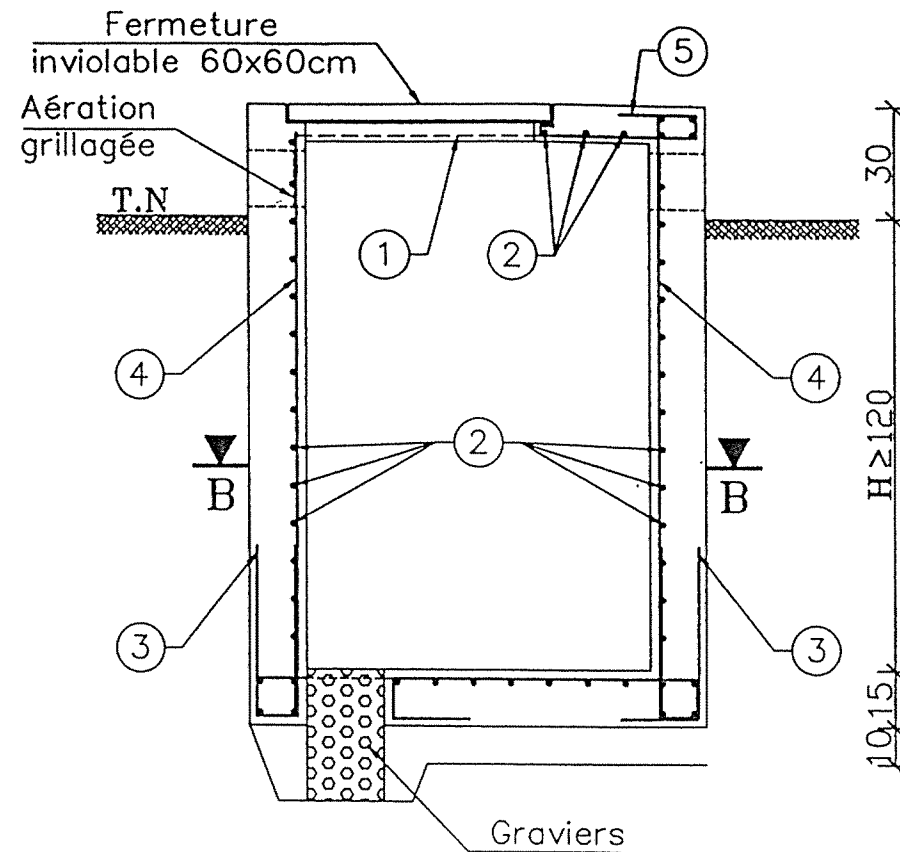
| N°                     | Nb pièces | Diamet-(mm) | Long(m) /Piece | Long(m) Totale |
|------------------------|-----------|-------------|----------------|----------------|
| 1                      | 45        | T8          | 2.05           | 92.25          |
| 2                      | 50        | T8          | 1.75           | 87.50          |
| 3                      | 38        | T8          | 1.00           | 38.00          |
| 4                      | 44        | T8          | 1.60           | 70.40          |
| 5                      | 7         | T8          | 1.10           | 7.70           |
| 6                      | 7         | T8          | 0.75           | 3.75           |
| Longueur Totale (m)    |           |             |                | 299.60         |
| Poids Unitaire (Kg/ml) |           |             |                | 0.395          |
| Poids Total (Kg)       |           |             |                | 118.34         |
| Poids Total +5% (Kg)   |           |             |                | 124.00         |

Métré: ( $H \geq 1.40\text{m}$ )

|                                             |                    |
|---------------------------------------------|--------------------|
| Déblai en grande masse                      | 7.00m <sup>3</sup> |
| Remblai autour de l'ouvrage                 | 4.00m <sup>3</sup> |
| béton de propreté dosé 150Kg/m <sup>3</sup> | 0.20m <sup>3</sup> |
| béton arme dosé 350Kg/m <sup>3</sup>        | 1.60m <sup>3</sup> |
| Flinkote (couches croisées)                 | 7.50m <sup>2</sup> |
| Enduit ordinaire                            | 3.50m <sup>2</sup> |
| Badigeon ou surfacalre (mln 2couche)        | 3.50m <sup>2</sup> |



COUPE A-A



Schémas des aciers(F7)

|   |                                          |
|---|------------------------------------------|
| 1 | L = 175 cm _ T8 _ e = 10 cm<br>20 115 20 |
| 2 | L = 160 cm _ T8 _ e = 10 cm<br>20 85 20  |
| 3 | L = 100 cm _ T8 _ e = 10 cm<br>45 45     |
| 4 | L ≥ 150 cm _ T8 _ e = 10 cm              |
| 5 | L = 80 cm _ T8 _ e = 10 cm<br>45 20      |
| 6 | L = 60 cm _ T8 _ e = 10 cm<br>25 20      |

Bordereaux des Armatures (F7)

| N°                     | Nb pièces | Diametre ( mm ) | Long (m) /pièces | Long (m) Totale |
|------------------------|-----------|-----------------|------------------|-----------------|
| 1                      | 38        | T8              | 1.75             | 66.50           |
| 2                      | 42        | T8              | 1.45             | 60.90           |
| 3                      | 30        | T8              | 1.00             | 30.00           |
| 4                      | 46        | T8              | 1.50             | 69.00           |
| 5                      | 6         | T8              | 0.80             | 4.80            |
| 6                      | 6         | T8              | 0.60             | 3.60            |
| Longueur Total         |           |                 |                  | 234.80          |
| Poids Unitaire (Kg/ml) |           |                 |                  | 0.395           |
| Poids Total (Kg)       |           |                 |                  | 92.75           |
| Poids Total + 5 % (Kg) |           |                 |                  | 97.40           |

Métré : (H: 1,2 m)

|                                       |         |
|---------------------------------------|---------|
| Deblai en grande masse                | 6.00 m3 |
| Remblai autour de l'ouvrage           | 4.00 m3 |
| Béton de propreté dosé 150Kg/m3       | 0.15 m3 |
| Béton arme dosé à 350 Kg/m3           | 0.65 m3 |
| Flinkote (couches croisées)           | 6,0 m2  |
| Enduit ordinaire                      | 2,0 m2  |
| Badigeon au surfacaire(min 2 couches) | 2.00 m2 |

COUPE B-B

