

MENSURATION

TARIFS MENSURATION TH 21/23, adaptations VD

PRIX UNITAIRES VD, IND.100

Degrés de précision VD : 1 (PB) et 2 (Ledet)

| Opérations | Entr. | Plans | Parc. | PB | PB / PL | PL d levés | PL nd levés | 2 calculs | PL 1 calcul | repris YX | levés | Bât. calculés | repris YX | levés | P. sit calculés | repris YX | Hm | PL | P. sit | Op. |
|------------|-------|-------|-------|----|---------|---------------|----------------|-----------|----------------|-----------|-------|------------------|-----------|-------|--------------------|-----------|----|----|--------|-----|
| | | | | △ | × | × | ○ | □ | ○ | ○ | | | | ● | ● | ● | | * | * | |

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|--------------|--|--|--|-----------------|-------|-------|------|--|--|--|-------|--|--|------|--|--|--|--|--|--|
| Rec. canevas | | | | 11.00 | 11.00 | 1.50 | | | | | 2.00 | | | 0.50 | | | | | | |
| Levé | | | | 33.00 | 33.00 | 13.50 | 7.00 | | | | 50.00 | | | 5.50 | | | | | | |
| Mat. PB | | | | Voir TARIF 21.6 | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|--|--|-------|-------|-------|------|--|--|--|-------|--|--|------|--|--|--|--|--|--|
| TOTAL TERRAIN | | | | 44.00 | 44.00 | 15.00 | 7.00 | | | | 52.00 | | | 6.00 | | | | | | |
|----------------------|--|--|--|-------|-------|-------|------|--|--|--|-------|--|--|------|--|--|--|--|--|--|

| | | | | | | | | | | | | | | | | | | | | |
|--------------------------|----------|--------|-------|-------|-------|------|------|------|------|------|-------|-------|-------|------|------|------|------|------|------|-------|
| TH21 postes 2130+2131 | 330.00 | 65.00 | | | | | | | | | | | | | | | | | | |
| Canevas | | | | 2.50 | 2.50 | | | | | | | | | | | | | | | |
| Calculs | | 50.00 | | 21.00 | 21.00 | 7.00 | 3.00 | 7.00 | 3.00 | | 20.00 | 20.00 | | 3.00 | 3.00 | | | | | |
| Surfaces | | 500.00 | 15.50 | | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 22.00 | 22.00 | 22.00 | | | | 8.00 | 3.00 | | |
| Plans | 300.00 | 560.00 | 6.00 | 11.50 | 11.50 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 24.50 | 24.50 | 24.50 | 0.50 | 0.50 | 0.50 | 2.00 | 8.00 | 0.50 | |
| Compléments | 3'120.00 | 420.00 | | | | | | | | | | | | | | | | | | |
| Digitalisation | | | | | | | | | | | | | | | | | | 2.50 | 1.50 | 50.00 |

| | | | | | | | | | | | | | | | | | | | | |
|---------------------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|------|-------|
| TOTAL BUREAU | 3'750.00 | 1'595.00 | 21.50 | 35.00 | 38.00 | 18.00 | 14.00 | 18.00 | 14.00 | 11.00 | 66.50 | 66.50 | 46.50 | 3.50 | 3.50 | 0.50 | 10.00 | 13.50 | 2.00 | 50.00 |
|---------------------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|------|-------|

| | | | | | | | | | | | | | | | | | | | | |
|----------------------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|------|------|------|-------|-------|------|-------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| TOTAL GENERAL | 3'750.00 | 1'595.00 | 21.50 | 79.00 | 82.00 | 33.00 | 21.00 | 18.00 | 14.00 | 11.00 | 118.50 | 66.50 | 46.50 | 9.50 | 3.50 | 0.50 | 10.00 | 13.50 | 2.00 | 50.00 |

| | | |
|---|--------------|---|
| Tarif 21.6 | Borne pierre | 55.00 |
| Matérialisation des PB seulement hors périmètre AF | Cheville | 28.00 |
| | Croix | 28.00 |
| | Pieu, tuyau | 22.00 |
| | Piquet, clou | 0.00 |
| | | si autre type de matérialisation admise par OIT |

EXPLICATION DES TRAMES DU CLASSEUR

| | |
|--|--|
| | = case pouvant être complétée ou modifiée |
| | = case calculée ou reprise automatiquement |

MENSURATION

CALCUL DES ZI

PARAMETRES DE L'ENTREPRISE

CALCUL DES ZI

| ZONE A | | |
|--------|------|------|
| Bâti | | |
| Pos. | Ha | % |
| 11 | 5.0 | 0.0 |
| 12 | 11.7 | 5.0 |
| 13 | 27.7 | 10.0 |
| 21 | 2.7 | 0.0 |
| 25 | 0.4 | 30.0 |
| 43-44 | 3.4 | 50.0 |
| 44 | 25.4 | 60.0 |
| 46 | 10.6 | 80.0 |
| 47 | 1.9 | 60.0 |

| ZONE A | | | ZONE B | |
|------------------------|-------------|----------|----------|----------------|
| Calcul des pentes | L = | 31.1 | L = | 958.0 |
| | Ha = | 44.4 | Ha = | 931.2 |
| | E = | 10 | E = | 10 |
| Morcell. | Nb p = | 315 | Nb p = | 320 |
| Calcul des suppléments | | | | |
| Pente | 7.00 | 1.045139 | 10.29 | 1.072845 |
| Morcell. | 7.09 | 1.008183 | 0.34 | 1.134374 |
| Zi | | 1.695045 | | 1.256830 |
| Zfm A * | | 1.786054 | Zfm B * | |
| | | | 1.529572 | |
| Pondération | | | | |
| Zones | Frais bruts | x | Zfm i | = Prix terrain |
| A | | | 1.786054 | |
| B | | | 1.529572 | |
| Entreprise | | | | |
| Supplément piquetage | | | | |
| Pente | 1.105254 | | 1.150693 | |
| Morcell. | 1.008183 | | 1.134374 | |
| Zip | 1.347523 | | 1.128415 | |
| ZfmP * | 1.501542 | | 1.472939 | |
| ZfmP pondéré * | | | | |

* Les coefficients sont calculés à 7 chiffres significatifs, soit 6 chiffres après la virgule.

| ZONE B | | |
|----------|-------|------|
| Campagne | | |
| Pos. | Ha | % |
| 11 | 313.2 | 0.0 |
| 12 | 531.5 | 5.0 |
| 13 | 20.0 | 10.0 |
| 14 | 48.6 | 20.0 |
| 15 | 1.9 | 40.0 |
| 17 | 16.0 | 40.0 |
| 21 | 15.3 | 0.0 |
| 22 | 634.4 | 5.0 |
| 23 | 7.2 | 10.0 |
| 24 | 6.7 | 20.0 |
| 25 | 1.2 | 30.0 |
| 32 | 2.5 | 30.0 |
| 33 | 68.7 | 40.0 |
| 34 | 192.4 | 60.0 |
| 35 | 2.8 | 80.0 |

$$2 F = 88.8$$

$$F = 44.4$$

$$1 + \frac{\sum Ha \times \%}{F \times 100} == 1 + \frac{3'003.50}{4'440.00} \times 1.6765$$

| Pos. | Zone spéc. | Ha | % |
|------|------------|-----|------|
| 51 | 35 x 20 | 0.1 | 50.0 |
| 51 | 55 x 20 | 0.1 | 50.0 |
| 51 | 665 x 20 | 1.3 | 50.0 |
| 51 | 45 x 20 | 0.1 | 50.0 |
| 51 | 5 x 20 | 0.0 | 50.0 |
| 61 | ZGL | 0.1 | 20.0 |

$$\frac{\sum Ha \times \%}{F \times 100} == \frac{82.50}{4'440.00} \times 0.0186$$

Zi A 1.6950

$$2 F = 1'862.4$$

$$F = 931.2$$

$$1 + \frac{\sum Ha \times \%}{F \times 100} == 1 + \frac{22'550.50}{93'120.00} \times 1.2422$$

| Pos. | Zone spéc. | Ha | % |
|------|------------|------|------|
| 51 | 330 x 20 | 0.7 | 50.0 |
| 51 | 340 x 20 | 0.7 | 50.0 |
| 51 | 1895 x 20 | 3.8 | 50.0 |
| 51 | 40 x 20 | 0.1 | 50.0 |
| 51 | 350 x 20 | 0.7 | 50.0 |
| 51 | 860 x 20 | 1.7 | 50.0 |
| 61 | ZGL | 49.2 | 20.0 |

$$\frac{\sum Ha \times \%}{F \times 100} == \frac{1'365.50}{93'120.00} \times 0.0147$$

Zi B 1.2568

Date / Visa : MTY / 27.08.2019

4725.2 (01.12.2017)

















ZONE A

Bâti

ESSERTINES-SUR-YVERDON**PREMIER RELEVÉ / RENOUELEMENT**

PREPARATION DES SOUMISSIONS

DENOMBREMENT DES ELEMENTS

| Plans ou rubrique(s) | | | Parc. | PB  | PB/PL  | PL d levés  | PL nd levés  | PL | | | Bât. | | | P. sit | | | Hm tous | Digitalisation | | |
|-------------------------|---------|----|-------|---|--|--|--|--|---|--|--|---|--|--|---|--|------------|---|---|--|
| N° | Echelle | Ha | | | | | | 2 calculs  | 1 calcul  | repris YX  | levés  | calculés  | repris YX  | levés  | calculés  | repris YX  | | PL  | P. sit  | Op.  |

1:

| | | | | | | | | | | | | | | | | | | | | | |
|---|------|--|------|--|-----|-------------------|---|---|---|---|----------------------------|--|--|-----|--|--|-------|------|--------------------|---|--|
| Ancien 2001 | 500 | | 48.0 | | | 257 | 0 | 0 | 6 | 0 | 112.0 | | | 860 | | | 93.5 | 1 | | 1 | |
| Ancien 2002 | 500 | | 34.0 | | | 191 | 0 | 0 | 1 | 0 | 59.5 | | | 378 | | | 88.7 | 11 | | 1 | |
| Ancien 2003 | 500 | | 35.5 | | | 144 | 0 | 1 | 1 | 0 | 81.5 | | | 692 | | | 69.7 | 1 | | 1 | |
| Ancien 2004 | 500 | | 59.5 | | | 243 | 0 | 0 | 0 | 0 | 116.5 | | | 969 | | | 71.9 | 2 | | 1 | |
| Ancien 2005 | 1000 | | 8.5 | | | 54 | 0 | 0 | 0 | 0 | 14.5 | | | 110 | | | 12.8 | | | | |
| Ancien 2006 | 1000 | | 7.0 | | | 39 | 0 | 0 | 0 | 0 | 14.0 | | | 82 | | | 7.5 | | | | |
| Ancien 2009 | 1000 | | 4.5 | | | 19 | 0 | 0 | 0 | 0 | 4.5 | | | 82 | | | 16.1 | | | | |
| Ancien 2011 | 1000 | | 10.0 | | | 29 | 0 | 0 | 1 | 0 | 18.5 | | | 164 | | | 13.8 | | | | |
| Ancien 2012 | 1000 | | 2.5 | | | 16 | 0 | 0 | 1 | 0 | 3.0 | | | 40 | | | 9.4 | | | | |
| Ancien 2013 | 1000 | | 26.5 | | | 156 | 0 | 0 | 0 | 0 | 56.0 | | | 372 | | | 32.2 | 1 | | 1 | |
| Ancien 2014 | 1000 | | 3.0 | | | 15 | 0 | 0 | 0 | 0 | 6.5 | | | 40 | | | 3.2 | | | | |
| Ancien 2015 | 1000 | | 5.0 | | | 17 | 0 | 0 | 0 | 0 | 11.5 | | | 76 | | | 9.7 | | | | |
| Ancien 2016 | 1000 | | 2.5 | | | 12 | 0 | 0 | 0 | 0 | 7.0 | | | 46 | | | 7.9 | | | | |
| Ancien 2019 | 1000 | | 1.0 | | | 5 | 0 | 0 | 2 | 0 | 1.0 | | | 6 | | | 1.3 | | | | |
| Ancien 2022 | 1000 | | 11.0 | | | 50 | 0 | 0 | 0 | 0 | 19.0 | | | 154 | | | 10.4 | | | | |
| Ancien 2023 | 1000 | | 15.0 | | | 21 | 0 | 0 | 0 | 0 | 23.5 | | | 214 | | | 19.1 | | | | |
| Ancien 2024 | 1000 | | 1.0 | | | 7 | 0 | 0 | 0 | 0 | 0.0 | | | 0 | | | 3.4 | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Nouveaux DP (approximatif) | | | 33.0 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Nouveau | 500 | | 38.1 | | | | | | | | | | | | | | | | | | |
| Nouveau | 1000 | | 6.3 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| A conserver en NT3 | | | | | 39 | | | | | | | | | | | | | | | | |
| PB non conservés | | | | | 117 | | | | | | | | | | | | | | | | |
| Rattachement | | | | | 2 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| COM | | | | | | | | | | | | | | | | | 0.0 | | | | |
| RPL + CS s/ RPL | | | | | | | | | | | | | | | | | 11.0 | | | | |
| ZGL (Territoires en mvt) | | | | | | | | | | | | | | | | | 1.6 | | | | |
| BAT (Adresses) | | | | | | | | | | | | | | | | | 76.7 | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 65 % des points visités sont existants | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Estimation de la matérialisation des PL manquants = ~ 445 | | | | | | | | | | | | | | | | | | | | | |
| Hm supplémentaires pour traitement de la nomenclature | | | | | | TOTAL Noms locaux | | | | 5 | dans le périmètre concerné | | | | | | soit, | 43.1 | Hm de nomenclature | | |

| | | | | | | | | | | | | | | | | | | |
|--------|------|-------|-----|----|------|---|---|----|------|-----|----|------|----|----|---------|----|----|----|
| Marge | 7.5 | | | 25 | | | | | 51.5 | | | 115 | | | 17.1 | 2 | | |
| | 2.0 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| TOTAUX | 44.4 | 315.0 | 158 | | 1300 | | 1 | 12 | | 600 | | 4400 | | | 619.996 | 18 | | 5 |

| | | |
|--|--------------------|-----|
| Tarif 21.4 | Borne pierre | 0 |
| Matérialisation des PL selon sondage terrain (exceptionnel en renouvellement) | Borne plastique | 130 |
| | Cheville à sceller | 300 |
| | Cheville tampon | 5 |
| | Croix | 10 |
| | Pieu, tuyau | 0 |
| | Piquet, clou | 130 |

| | | |
|--|--------------|-----|
| Tarif 21.6 | Borne pierre | 6 |
| Matérialisation des PB seulement hors AF (exceptionnel en renouvellement) | Cheville | 30 |
| | Croix | 2 |
| | Pieu, tuyau | 1 |
| | Piquet, clou | 117 |

Remarque(s):

Date : 27.08.2019

Visa : MTY

| | |
|-------|----------|
| Plans | 1 4.0 |
|-------|----------|

4725.3 (01.12.2017)

ZONE A

ESSERTINES-SUR-YVERDON

PREMIER RELEVÉ

PREPARATION DES SOUMISSIONS

DEVIS OIT

| Opérations | Entr. | Plans | Parc. | PB | PB / PL | PL d levés | PL nd levés | 2 calculs | 1 calcul | repris YX | levés | Bât. calculés | repris YX | levés | P. sit calculés | repris YX | Hm | PL | P. sit | Op. |
|------------|-------|-------|-------|----|---------|------------|-------------|-----------|----------|-----------|-------|---------------|-----------|-------|-----------------|-----------|----|----|--------|-----|
| | | | | △ | × | × | ○ | □ | ○ | ○ | | | | | | | | * | * | |

| | | | | | | | | | | | | | | | | | | | | |
|--------------------|----------|----------|-------|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|------|-------|
| PRIX TERRAIN | | | | 44.00 | 44.00 | 15.00 | 7.00 | | | | 52.00 | | | 6.00 | | | | | | |
| PRIX TERRAIN x Zfm | | | | 78.60 | 78.60 | 26.80 | 12.50 | | | | 92.85 | | | 10.70 | | | | | | |
| PRIX BUREAU | 3'750.00 | 1'595.00 | 21.50 | 35.00 | 38.00 | 18.00 | 14.00 | 18.00 | 14.00 | 11.00 | 66.50 | 66.50 | 46.50 | 3.50 | 3.50 | 0.50 | 10.00 | 13.50 | 2.00 | 50.00 |
| TOTAL | 3'750.00 | 1'595.00 | 21.50 | 113.60 | 116.60 | 44.80 | 26.50 | 18.00 | 14.00 | 11.00 | 159.35 | 66.50 | 46.50 | 14.20 | 3.50 | 0.50 | 10.00 | 13.50 | 2.00 | 50.00 |

| | | | | | | | | | | | | | | | | | | | | |
|----------------|--------|---------|---------|----------|---|----------|---|-------|--------|---|----------|----|----|----------|----|----|---------|--------|----|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| ELEMENTS | 0.2 | 4.0 | 315 | 158 | | 1'300 | | 1 | 12 | | 600.0 | | | 4'400 | | | 620.0 | 18 | | 5 |
| COUTS Ind. 100 | 750.00 | 6328.15 | 6772.50 | 17948.80 | | 58240.00 | | 18.00 | 168.00 | | 95610.00 | | | 62480.00 | | | 6199.95 | 243.00 | | 250.00 |

| Matérialisation PB | Elém. | Prix four. | Tot. four. | Prix mat. | Tot. mat. |
|--------------------|-------|------------|------------|-----------|-----------|
| Borne pierre | 6 | 30.00 | 180.00 | 55.00 | 330.00 |
| Cheville | 30 | 15.00 | 450.00 | 28.00 | 840.00 |
| Croix | 2 | 0.00 | 0.00 | 28.00 | 56.00 |
| Pieu, tuyau | 1 | 5.00 | 5.00 | 22.00 | 22.00 |
| Piquet, clou | 117 | 2.00 | 234.00 | 0.00 | 0.00 |
| Somme | | | 869.00 | | 1'248.00 |
| | | | 20 | | 21 |

| Matérialisation PL | Elém. | Prix four. | Tot. four. |
|--------------------|-------|------------|------------|
| Borne pierre | 0 | 25.00 | 0.00 |
| Borne plastique | 130 | 25.00 | 3'250.00 |
| Cheville à sceller | 300 | 10.00 | 3'000.00 |
| Cheville tampon | 5 | 6.00 | 30.00 |
| Croix | 10 | 0.00 | 0.00 |
| Pieu, tuyau | 0 | 5.00 | 0.00 |
| Piquet, clou | 130 | 2.00 | 260.00 |
| Somme | | | 6'540.00 |
| | | | 22 |

Zfm A 1.786054

| PRESTATIONS COMPRISES DANS LE FORFAIT GLOBAL |
|--|
| GENERALITES |
| Assistance à l'enquête publique |
| Recherches pour souterrains |
| Recherches et intégrations des mutations |
| Séances, divers et imprévus |
| Mise à jour finale (avant livraison) du fichier Interlis1 |
| Estimation : 4 % de ph. 2 à 6, somme indicée 19'065.50 |
| Pour le renouvellement: selon opérations de 3086: soit x % |
| TERRITOIRES EN MOUVEMENT PERMANENT |
| Détermination et traitement des périmètres, séances correspondantes, plan spécifique - |
| AUTRE CAS SPECIAL |
| Frais ferroviaires: protecteurs, fichiers, organisation, ... |
| Autre(s): description sommaire (cf. 4727) - |
| Pour le renouvellement, ev. forfait de 3086 |

TOTAL PRESTATIONS 19'065.50

| | |
|---|-------------------------|
| Montant mensuration, ind. 100 | 255'008.40 |
| Total mat. PB, ind. 100 | 1'248.00 ²¹ |
| Somme, ind. 100 | 256'256.40 |
| Année 2019 Indice 1.8600 | |
| Somme, indicée | 476'636.90 |
| Divers compris dans le forfait: | 19'065.50 ²³ |
| Total fournitures PB | 869.00 ²⁰ |
| TOTAL phases 2-6 | 496'571.40 |
| Phase 1 abonnement et piquetage, % des phases 2-6 25% | 124'142.85 |
| Phase 1 fournitures PL | 6'540.00 ²² |
| TOTAL GENERAL H.T. (phases 1-6) | 627'254.25 |
| + TVA 7.7% | 48'298.60 == 675'552.85 |

PREMIER RELEVÉ / RENOUELEMENT

PREPARATION DES SOUMISSIONS

DENOMBREMENT DES ELEMENTS

| Plans ou rubrique(s) | | | Parc. | PB | PB/PL | PL d levés | PL nd levés | PL | | | Bât. | | | P. sit | | | Hm | Digitalisation | | |
|---|---------|-------|-------|----|-------|---------------|----------------|-------------------|----------|-----------|-------|----------------------------|-----------|--------|----------|-----------|-------|----------------|--------------------|-----|
| N° | Echelle | Ha | | △ | × | × | ○ | 2 calculs | 1 calcul | repris YX | levés | calculés | repris YX | levés | calculés | repris YX | tous | PL | P. sit | Op. |
| 1 : | | | | | | | | | | | | | | | | | | | | |
| Ancien 2001 | 500 | | 7.5 | | | 17 | 0 | 0 | 0 | 0 | 0.0 | | | 0 | | | 17.1 | 0 | | |
| Ancien 2002 | 500 | | 6.0 | | | 19 | 0 | 0 | 1 | 0 | 2.0 | | | 104 | | | 9.3 | 0 | | |
| Ancien 2003 | 500 | | 5.5 | | | 13 | 63 | 0 | 3 | 0 | 2.0 | | | 42 | | | 12.5 | 0 | | |
| Ancien 2004 | 500 | | 1.5 | | | 5 | 0 | 0 | 0 | 0 | 0.0 | | | 0 | | | 2.3 | 0 | | |
| Ancien 2005 | 1000 | | 4.0 | | | 55 | 153 | 0 | 20 | 0 | 0.0 | | | 100 | | | 49.0 | 0 | | |
| Ancien 2006 | 1000 | | 8.5 | | | 57 | 89 | 8 | 11 | 0 | 2.0 | | | 152 | | | 66.2 | 0 | | |
| Ancien 2007 | 1000 | | 9.0 | | | 35 | 194 | 11 | 59 | 134 | 3.0 | | | 218 | | | 99.6 | 0 | | |
| Ancien 2008 | 1000 | | 13.0 | | | 52 | 14 | 13 | 8 | 0 | 2.5 | | | 232 | | | 85.4 | 0 | | |
| Ancien 2009 | 1000 | | 10.0 | | | 38 | 30 | 3 | 11 | 94 | 2.0 | | | 218 | | | 82.7 | 0 | | |
| Ancien 2010 | 1000 | | 6.0 | | | 27 | 123 | 14 | 13 | 78 | 0.0 | | | 118 | | | 63.5 | 0 | | |
| Ancien 2011 | 1000 | | 13.5 | | | 53 | 0 | 21 | 6 | 0 | 0.0 | | | 146 | | | 53.8 | 0 | | |
| Ancien 2012 | 1000 | | 9.5 | | | 68 | 101 | 4 | 2 | 0 | 9.0 | | | 112 | | | 42.2 | 0 | | |
| Ancien 2013 | 1000 | | 5.5 | | | 49 | 0 | 7 | 3 | 0 | 1.0 | | | 128 | | | 48.5 | 0 | | |
| Ancien 2014 | 1000 | | 6.5 | | | 27 | 48 | 11 | 4 | 0 | 2.0 | | | 112 | | | 37.5 | 0 | | |
| Ancien 2015 | 1000 | | 6.0 | | | 12 | 0 | 27 | 2 | 0 | 2.0 | | | 152 | | | 31.8 | 0 | | |
| Ancien 2016 | 1000 | | 6.5 | | | 30 | 28 | 0 | 0 | 140 | 1.0 | | | 94 | | | 66.7 | 0 | | |
| Ancien 2017 | 1000 | | 3.5 | | | 37 | 14 | 1 | 1 | 224 | 0.0 | | | 174 | | | 79.5 | 0 | | |
| Ancien 2018 | 1000 | | 8.0 | | | 25 | 47 | 27 | 5 | 0 | 3.0 | | | 168 | | | 75.7 | 0 | | |
| Ancien 2019 | 1000 | | 6.0 | | | 21 | 0 | 22 | 9 | 0 | 7.5 | | | 196 | | | 60.5 | 0 | | |
| Ancien 2020 | 1000 | | 10.0 | | | 23 | 0 | 7 | 9 | 17 | 1.0 | | | 140 | | | 40.9 | 0 | | |
| Ancien 2021 | 1000 | | 10.0 | | | 37 | 79 | 12 | 8 | 8 | 1.0 | | | 148 | | | 66.4 | 0 | | |
| Ancien 2022 | 1000 | | 13.0 | | | 32 | 26 | 13 | 8 | 77 | 0.0 | | | 158 | | | 67.2 | 0 | | |
| Ancien 2023 | 1000 | | 5.0 | | | 17 | 54 | 0 | 7 | 379 | 5.5 | | | 145 | | | 57.8 | 0 | | |
| Ancien 2024 | 1000 | | 9.0 | | | 34 | 6 | 0 | 3 | 354 | 5.0 | | | 176 | | | 77.7 | 0 | | |
| Ancien 2025 | 2000 | | 7.0 | | | 39 | 166 | 11 | 95 | 312 | 1.0 | | | 238 | | | 155.5 | 0 | | |
| Ancien 2026 | 2000 | | 5.0 | | | 40 | 0 | 3 | 1 | 31 | 2.0 | | | 218 | | | 152.5 | 0 | | |
| Nouveaux DP (approximatif) | | | 102.0 | | | | | | | | | | | | | | | | | |
| Nouveau | 500 | 45.2 | | | | | | | | | | | | | | | | | | |
| Nouveau | 1000 | 886.0 | | | | | | | | | | | | | | | | | | |
| A conserver en NT3 | | | | | | 93 | | | | | | | | | | | | | | |
| PB non conservés | | | | | | 279 | | | | | | | | | | | | | | |
| Rattachement | | | | | | 10 | | | | | | | | | | | | | | |
| COM | | | | | | | | | | | | | | | | | 186.6 | | | |
| RPL + CS s/ RPL | | | | | | | | | | | | | | | | | 428.4 | | | |
| ZGL (Territoires en mvt) | | | | | | | | | | | | | | | | | 143.2 | | | |
| BAT (Adresses) | | | | | | | | | | | | | | | | | 139.8 | | | |
| 45 % des points visités sont existants | | | | | | | | | | | | | | | | | | | | |
| Estimation de la matérialisation des PL manquants = ~ 475 | | | | | | | | | | | | | | | | | | | | |
| Hm supplémentaires pour traitement de la nomenclature | | | | | | | | TOTAL Noms locaux | | | 108 | dans le périmètre concerné | | | | | soit, | 695.3 | Hm de nomenclature | |

| | | | | | | | | | | | | | | | | | | | | |
|--------|-------|-----|-----|--|-----|------|-----|-----|------|-----|--|--|------|--|--|--|---------|--|--|--|
| Marge | 23 | | | | 38 | 15 | 5 | 11 | 52 | 5.5 | | | 211 | | | | 4.9 | | | |
| TOTAUX | 931.2 | 320 | 382 | | 900 | 1250 | 220 | 300 | 1900 | 60 | | | 3900 | | | | 3199.97 | | | |

| | | |
|---|--------------------|-----|
| Matérialisation des PL selon sondage terrain (exceptionnel en renouvellement) | Borne pierre | 5 |
| | Borne plastique | 225 |
| | Cheville à sceller | 220 |
| | Cheville tampon | 5 |
| | Croix | 15 |
| | Pieu, tuyau | 5 |
| | Piquet, clou | 230 |

| | | |
|--|--------------|-----|
| Tarif 21.6 Matérialisation des PB seulement hors AF (exceptionnel en renouvellement) | Borne pierre | 20 |
| | Cheville | 60 |
| | Croix | 10 |
| | Pieu, tuyau | 3 |
| | Piquet, clou | 279 |

Remarque(s):
Date : 27.08.2019
Visa : MTY



ZONE B

Campagne

ESSERTINES-SUR-YVERDON

PREMIER RELEVÉ

PREPARATION DES SOUMISSIONS

DEVIS OIT

| Opérations | Entr. | Plans | Parc. | PB | PB / PL | PL d levés | PL nd levés | 2 calculs | PL 1 calcul | repris YX | Bât. levés | Bât. calculés | repris YX | levés | P. sit calculés | repris YX | Hm | Digitalisation PL | P. sit | Op. |
|--------------------|----------|----------|---------|----------|---------|------------|-------------|-----------|-------------|-----------|------------|---------------|-----------|----------|-----------------|-----------|----------|-------------------|--------|-------|
| | | | | △ | × | × | ○ | □ | ○ | ○ | | | | ● | ● | ● | | * | * | |
| PRIX TERRAIN | | | | 44.00 | 44.00 | 15.00 | 7.00 | | | | 52.00 | | | | 6.00 | | | | | |
| PRIX TERRAIN x Zfm | | | | 67.30 | 67.30 | 22.95 | 10.70 | | | | 79.55 | | | | 9.20 | | | | | |
| PRIX BUREAU | 3'750.00 | 1'595.00 | 21.50 | 35.00 | 38.00 | 18.00 | 14.00 | 18.00 | 14.00 | 11.00 | 66.50 | 66.50 | 46.50 | 3.50 | 3.50 | 0.50 | 10.00 | 13.50 | 2.00 | 50.00 |
| TOTAL | 3'750.00 | 1'595.00 | 21.50 | 102.30 | 105.30 | 40.95 | 24.70 | 18.00 | 14.00 | 11.00 | 146.05 | 66.50 | 46.50 | 12.70 | 3.50 | 0.50 | 10.00 | 13.50 | 2.00 | 50.00 |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| ELEMENTS | 0.8 | 26.7 | 320 | 382 | | 900 | 1'250 | 220 | 300 | 1'900 | 60.0 | | | 3'900 | | | 3'200.0 | | | |
| COUTS Ind. 100 | 3000.00 | 42538.65 | 6880.00 | 39078.60 | | 36855.00 | 30875.00 | 3960.00 | 4200.00 | 20900.00 | 8763.00 | | | 49530.00 | | | 31999.65 | | | |

| Matérialisation PB | Elém. | Prix four. | Tot. four. | Prix mat. | Tot. mat. |
|--------------------|-------|------------|----------------|-----------|----------------|
| Borne pierre | 20 | 30.00 | 600.00 | 55.00 | 1'100.00 |
| Cheville | 60 | 15.00 | 900.00 | 28.00 | 1'680.00 |
| Croix | 10 | 0.00 | 0.00 | 28.00 | 280.00 |
| Pieu, tuyau | 3 | 5.00 | 15.00 | 22.00 | 66.00 |
| Piquet, clou | 279 | 2.00 | 558.00 | 0.00 | 0.00 |
| Somme | | | 2'073.00 20 | | 3'126.00 21 |

| Matérialisation PL | Elém. | Prix four. | Tot. four. |
|--------------------|-------|------------|----------------|
| Borne pierre | 5 | 25.00 | 125.00 |
| Borne plastique | 225 | 25.00 | 5'625.00 |
| Cheville à sceller | 220 | 10.00 | 2'200.00 |
| Cheville tampon | 5 | 6.00 | 30.00 |
| Croix | 15 | 0.00 | 0.00 |
| Pieu, tuyau | 5 | 5.00 | 25.00 |
| Piquet, clou | 230 | 2.00 | 460.00 |
| Somme | | | 8'465.00 22 |

Zfm B 1.529572

| PRESTATIONS COMPRISES DANS LE FORFAIT GLOBAL |
|--|
| GENERALITES |
| Assistance à l'enquête publique |
| Recherches pour souterrains |
| Recherches et intégrations des mutations |
| Séances, divers et imprévus |
| Mise à jour finale (avant livraison) du fichier Interlis1 |
| Estimation : 4 % de ph. 2 à 6, somme indicée 20'958.90 |
| Pour le renouvellement: selon opérations de 3086: soit x % |
| TERRITOIRES EN MOUVEMENT PERMANENT |
| Détermination et traitement des périmètres, séances correspondantes, plan spécifique - |
| AUTRE CAS SPECIAL |
| Frais ferroviaires: protecteurs, fichiers, organisation, ... |
| Autre(s): description sommaire (cf. 4727) - |
| Pour le renouvellement, ev. forfait de 3086 |

TOTAL PRESTATIONS 20'958.90

| | |
|---|-------------------------|
| Montant mensuration, ind. 100 | 278'579.90 |
| Total mat. PB, ind. 100 | 3'126.00 ²¹ |
| Somme, ind. 100 | 281'705.90 |
| Année 2019 Indice 1.8600 | |
| Somme, indicée | 523'972.95 |
| Divers compris dans le forfait: | 20'958.90 ²³ |
| Total fournitures PB | 2'073.00 ²⁰ |
| TOTAL phases 2-6 | 547'004.85 |
| Phase 1 abornement et piquetage, % des phases 2-6 30% | 164'101.45 |
| Phase 1 fournitures PL | 8'465.00 ²² |
| TOTAL GENERAL H.T. (phases 1-6) | 719'571.30 |
| + TVA 7.7% | 55'407.00 == 774'978.30 |

PROGRAMME 2019

Entreprise : **87 ESSERTINES-SUR-YVERDON I**

ESSERTINES-SUR-YVERDON

RECAPITULATION DES QUANTITES

| | ESSERTINES-SUR-YVERDON bâti | campagne | Elém. pour norme 4728 |
|---------------------------|--------------------------------|----------|--------------------------|
| Matérialisation PL | Elém. | Elém. | Elém. |
| Borne pierre | 0 | 5 | 5 |
| Borne plastique | 130 | 225 | 355 |
| Cheville à sceller | 300 | 220 | 520 |
| Cheville tampon | 5 | 5 | 10 |
| Croix | 10 | 15 | |
| Pieu, tuyau | 0 | 5 | 5 |
| Piquet, crosse | 130 | 230 | 360 |
| $\Sigma =$ | 575 | 705 | 1255 |
| | Valeurs à contrôler | | |

| | ESSERTINES-SUR-YVERDON bâti | campagne | TOTAL |
|---------------------------|--------------------------------|----------|-------|
| Matérialisation PB | Elém. | Elém. | Elém. |
| Borne pierre | 6 | 20 | 26 |
| Cheville | 30 | 60 | 90 |
| Croix | 2 | 10 | 12 |
| Pieu, tuyau | 1 | 3 | 4 |
| Piquet, crosse | 117 | 279 | 396 |
| $\Sigma =$ | 156 | 372 | 528 |
| | En ordre | | |

| | | | |
|------------------------------------|----|----|-----------|
| PF à conserver (PB + PB/PL) | 39 | 93 | Pour 4727 |
|------------------------------------|----|----|-----------|

| ELEMENTS | Entr. | Plans | Parc. | PB | PB / PL | PL d levés | PL nd levés | 2 calculs | PL 1 calcul | repris YX | Bât. levés | calculés | repris YX | P. sit levés | calculés | repris YX | Hm | Digitalisation PL | P. sit | Op. |
|----------|-------|-------|-------|-----|---------|---------------|----------------|-----------|----------------|-----------|---------------|----------|-----------|-----------------|----------|-----------|---------|----------------------|--------|-----|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Bâti | 0.2 | 4.0 | 315 | 158 | | 1'300 | | 1 | 12 | | 600.0 | | | 4'400 | | | 620.0 | 18 | | 5 |
| Campagne | 0.8 | 26.7 | 320 | 382 | | 900 | 1'250 | 220 | 300 | 1'900 | 60.0 | | | 3'900 | | | 3'200.0 | | | |
| TOTAL | 1.0 | 30.6 | 635 | 540 | | 2'200 | 1'250 | 221 | 312 | 1'900 | 660.0 | | | 8'300 | | | 3'820.0 | 18 | | 5 |

RECAPITULATION DES MONTANTS

| MONTANTS H.T. | Bâti | Campagne | TOTAL | | pour 4727 | pour 4728 |
|--|------------|------------|--------------|--------------|--------------|------------|
| plans prov. + phases 2-6 | 496'571.40 | 547'004.85 | 1'043'576.25 | 1'043'576.25 | 1'044'000.00 | |
| abornement et piquetage, % des phases 2-6 | 124'142.85 | 164'101.45 | 288'244.30 | | | 288'000.00 |
| fournitures PL | 6'540.00 | 8'465.00 | 15'005.00 | 303'249.30 | 303'000.00 | |
| | | | | 1'346'825.55 | | |
| TOTAL GENERAL (phases 1-6) | 627'254.25 | 719'571.30 | 1'346'825.55 | H.T. | 1'347'000.00 | |

| MONTANTS T.T.C. | Bâti | Campagne | TOTAL | |
|--|------------|------------|--------------|--------|
| plans prov. + phases 2-6 | 534'807.40 | 589'124.20 | 1'123'931.60 | |
| abornement et piquetage, % des phases 2-6 | 133'701.85 | 176'737.25 | 310'439.10 | |
| fournitures PL | 7'043.60 | 9'116.80 | 16'160.40 | |
| | | | 1'450'531.10 | |
| TOTAL GENERAL (phases 1-6) | 675'552.85 | 774'978.25 | 1'450'531.10 | T.T.C. |

Si AF, introduire le
facteur d'application : **100%**

=> **1'347'000.00**

Date : 27.08.2019

Visa : MTY