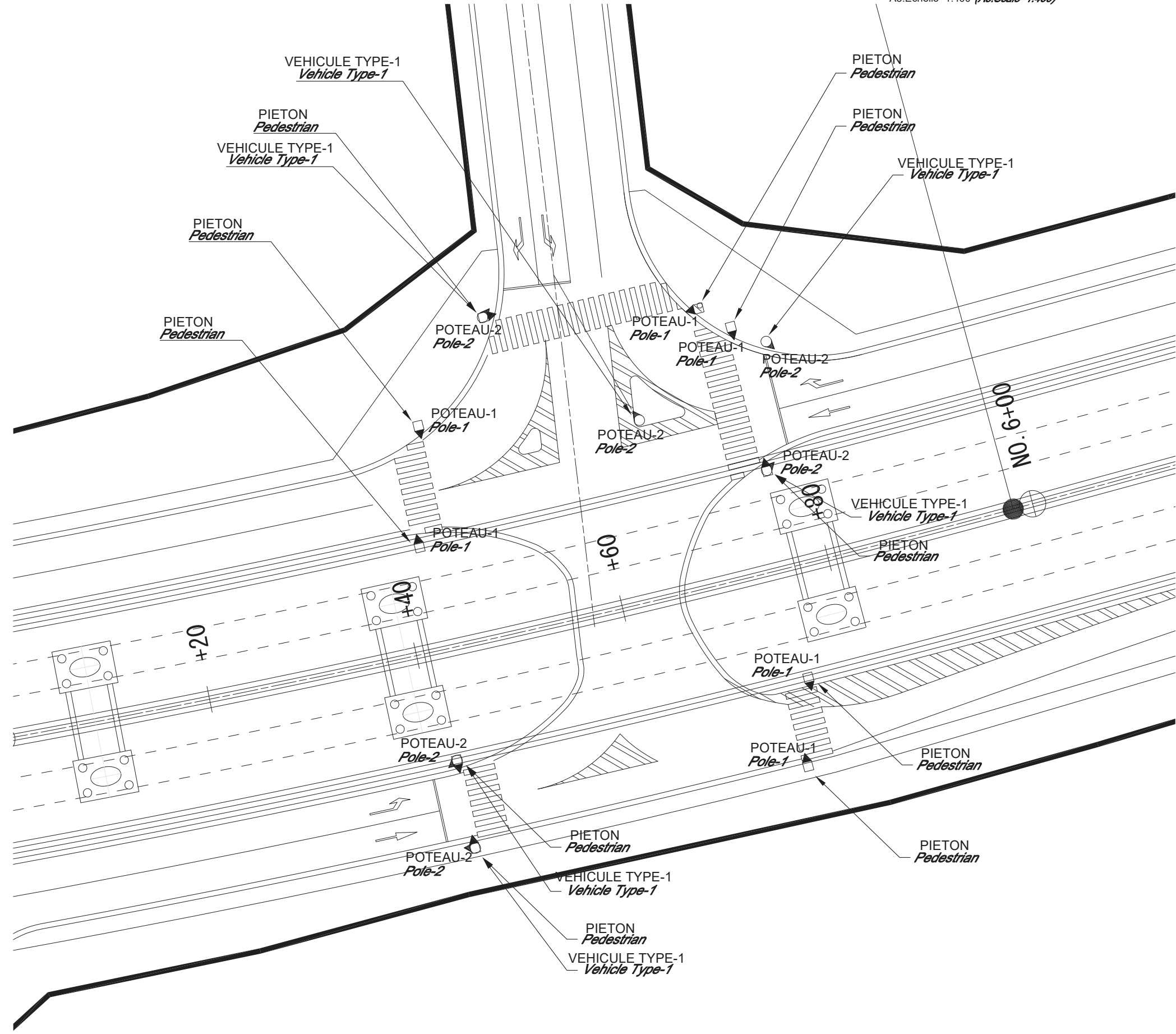


F. SIGNALISATION TRICOLORE / *TRAFFIC SIGNAL*

VUE EN ÉLÉVATION DU CARREFOUR PLAN - ÉCOLE DE POLICE
(INTERSECTION PLAN VIEW - ÉCOLE DE POLICE)

A1:Échelle=1:200 (A1:Scale=1:200)
A3:Échelle=1:400 (A3:Scale=1:400)



Legende (Legend)

FEUX TRICOLORES (TRAFFIC SIGNAL)

- VEHICULE (VEHICLE)
- PIETON (PEDESTRIAN)

VEHICULE TYPE-1 : TRICOLORES
 VEHICULE TYPE-2 : TRICOLORES / GAUCHE FLÈCHE
 VEHICULE TYPE-3 : TRICOLORES / DROITE FLÈCHE
 (VEHICLE TYPE-1 : TRICOLOR)
 (VEHICLE TYPE-2 : TRICOLOR / LEFT ARROW)
 (VEHICLE TYPE-3 : TRICOLOR / RIGHT ARROW)

POTEAU-1 : H=3.0m, TubeΦ=88.9mm
 POTEAU-2 : H=4.0m, TubeΦ=88.9mm
 (POLE-1 : H=3.0m, Tube Φ =88.9mm)
 (POLE-2 : H=4.0m, Tube Φ =88.9mm)

PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN

REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de l'Entretien Routier

AGENCE DE GESTION DES ROUTES

AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE / JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD.

INGÉROSEC CORPORATION

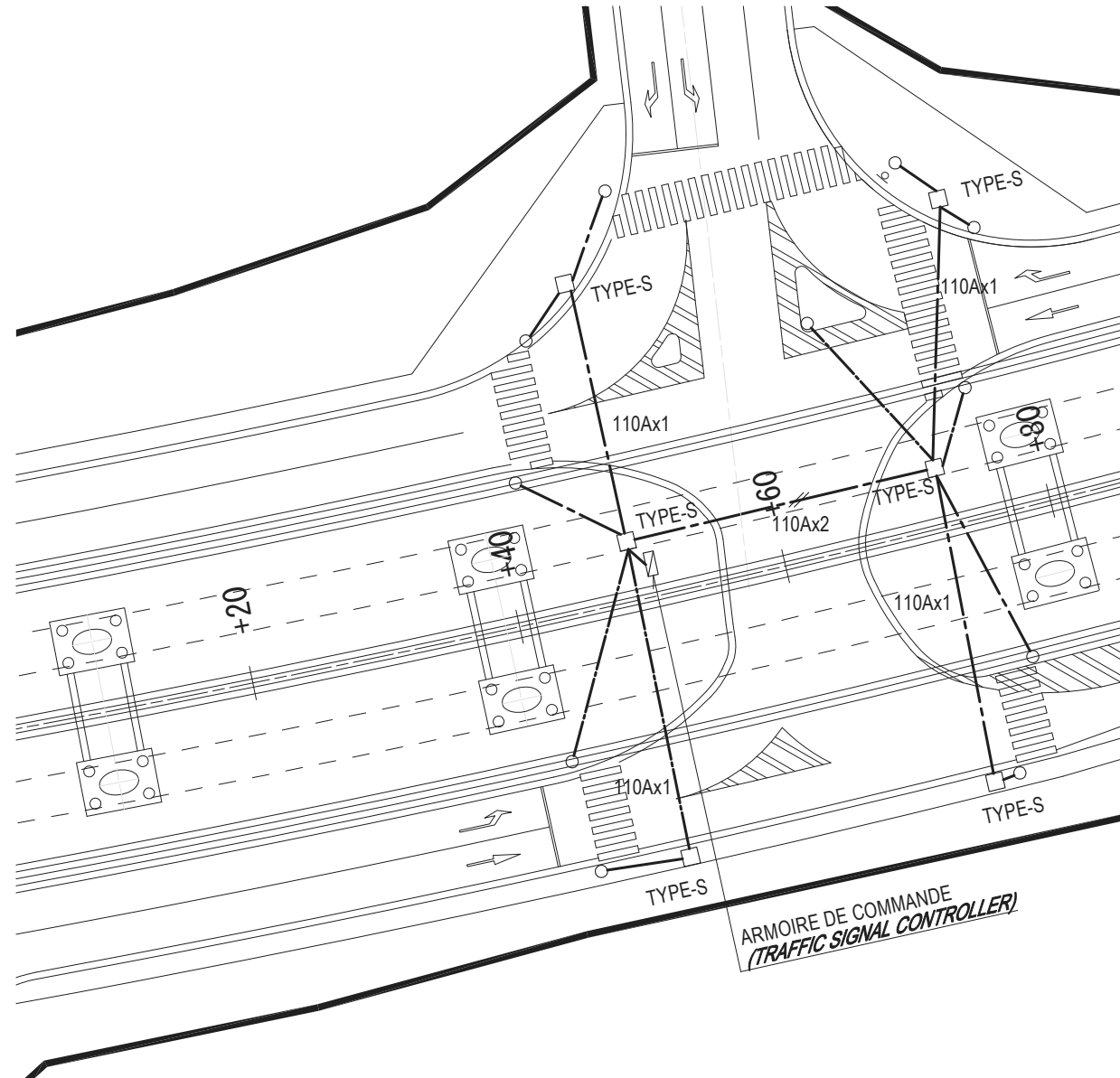
ÉCOLE DE POLICE
 ECHANGEUR DE L'ÉCOLE DE POLICE:
 PLAN DE MASSE DE LA SIGNALISATION TRICOLORE
 LAYOUT PLAN OF TRAFFIC SIGNAL ON ÉCOLE DE POLICE INTERSECTION

| Indice /Index | Date /Date | Préparé par /Prepared by | Vérifié par /Checked by | Approuvé par /Approved by | Description /Description | Statut /Status |
|---------------|------------|--------------------------|-------------------------|---------------------------|--------------------------|----------------|
| A | 27/12/18 | T.M | S.H | T.K | PREMIERE VERSION | EXT |
| | | | | | | |

| Format | A3 | Fichier /File | | | |
|------------------|------------------------|--|------------------------------------|---------|---------------|
| Emetteur /Issuer | Localisation /Location | Type d'ouvrage -Activité /Type of document | Type de document /Type of document | N° /No. | Indice /Index |
| OCG,ISEC | BFM | ST | DESSINS | F-001 | A |

VUE EN ÉLÉVATION DU CARREFOUR PLAN - ÉCOLE DE POLICE
(INTERSECTION PLAN VIEW - ECOLE DE POLICE)

A1:Échelle=1:250 (A1:Scale=1:250)
A3:Échelle=1:500 (A3:Scale=1:500)



LEGENDES
(LEGEND)

- FEU TRICOLERE
(TRAFFIC SIGNAL)
- REGARD TYPE EP 80 800X800X1100 DIMENSIONS INTERIEURES
(HANDHOLE TYPE-S 800X800X1100 INNER DIMENSION)
- ▭ ARMOIRE DE COMMANDE DE LA SIGNALISATION TRICOLERE
(TRAFFIC SIGNAL CONTROLLER)
- FOURREAU PVC RIGIDE 75 A x1
(UNDERGROUND CONDUIT P-PVC 75Ax1)
- 110Ax1 FOURREAU PVC RIGIDE 110 AX1
(UNDERGROUND CONDUIT P-PVC 110Ax1)
- 110Ax2 FOURREAU PVC RIGIDE 110A x 2
(UNDERGROUND CONDUIT P-PVC 110Ax2)

NOTES

- LE CABLAGE ET LA MISE A LA TERRE DEVRA SE FAIRE COMME SUIVANT:
DE L'ARMOIRE A N'IMPORTE QUEL FEU: CABLE HFG 1000 7G 1.5mm²
LES CABLES DE TERRES EN CUIVRE NU 25mm² SERONT POSES EN FOND DE FOUILLES

(NOTES)

- CABLING AND GROUNDING WIRE SHALL BE AS FOLLOWS:
FROM TRAFFIC SIGNAL CONTROLLER TO EVERY SIGNAL : HFG 1000 7C-1.5mm²
BELOW ALL UNDER GROUND CONDUIT RUN :Cu 25mm² x 1

PROJET DE CONSTRUCTION DE TROIS ECHANGEURS A ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE

Ministère de l'Équipement et de l'Entretien Routier



AGENCE DE GESTION DES ROUTES



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INGÉROSEC CORPORATION

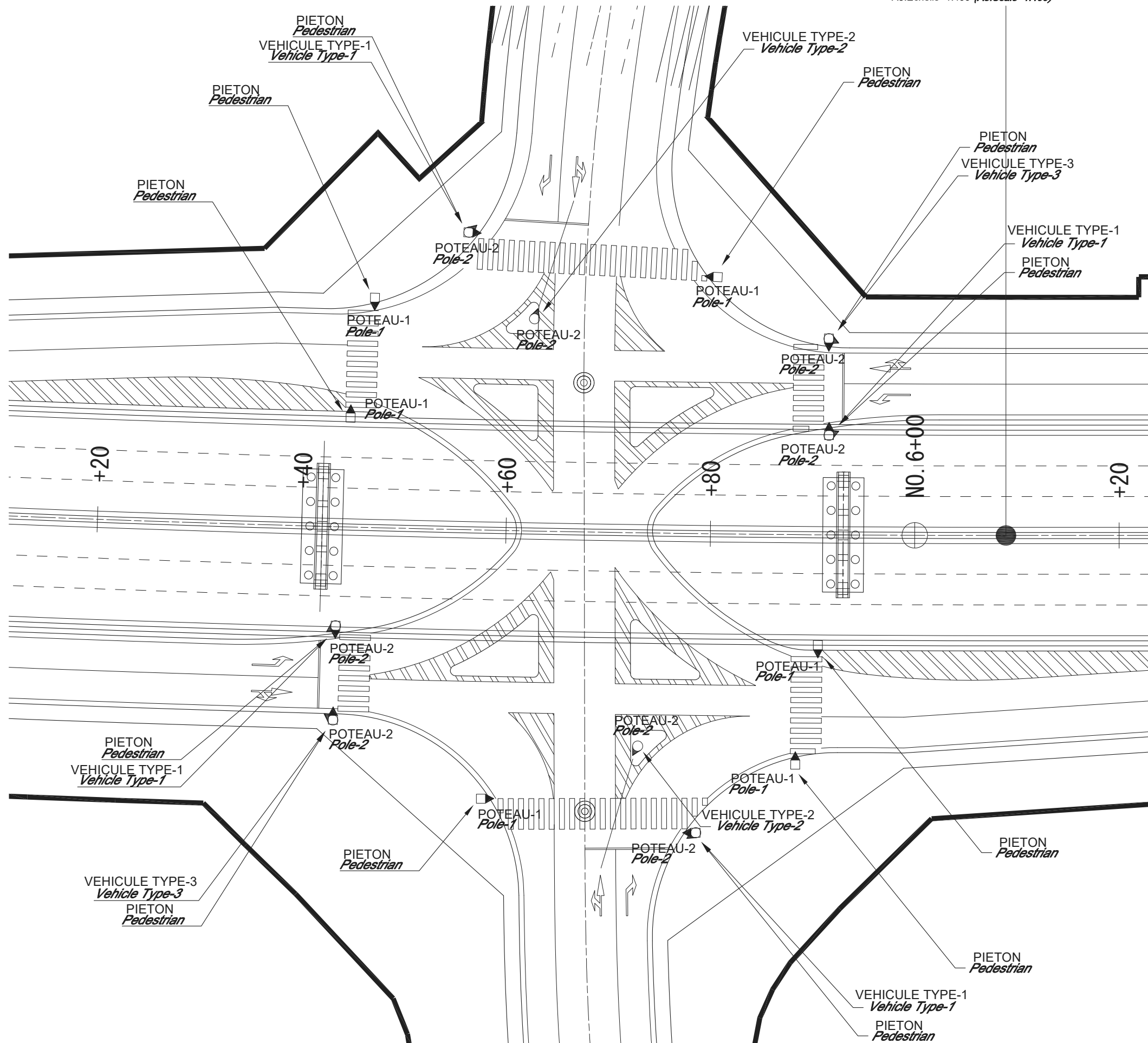
ECHANGEUR DE L'ECOLE DE POLICE: FOURREAUX POUR
LA SIGNALISATION TRICOLERE
(UNDERGROUND CONDUIT FOR TRAFFIC SIGNAL POLICE)

| Indice /Index | Date /Date | Préparé par /Prepared by | Vérifié par /Checked by | Approuvé par /Approved by | Description /Description | Statut /Status |
|------------------|---------------|-----------------------------|----------------------------|------------------------------|-----------------------------|-------------------|
| A | 27/12/18 | T.M | S.H | T.K | PREMIERE VERSION | EXT |
| | | | | | | |

| | | | | | |
|---------------------|---------------------------|--|---------------------------------------|------------|------------------|
| Format | A3 | Fichier/ File : | | | |
| Emetteur /Author | Localisation /Location | Type d'ouvrage -Activité /Type of structure -Activity | Type de document /Type of document | N° /No. | Indice /Index |
| OCG,ISEC | BFM | ST | DESSINS | F-002 | A |

VUE EN ÉLEVATION DU CARREFOUR PLAN - RIVIERA 3
(INTERSECTION PLAN VIEW - RIVIERA 3)

A1:Échelle=1:200 (A1:Scale=1:200)
A3:Échelle=1:400 (A3:Scale=1:400)



Legende (Legend)

FEUX TRICOLORES (TRAFFIC SIGNAL)

- VEHICULE (VEHICLE)
- PIETON (PEDESTRIAN)

VEHICULE TYPE-1 : TRICOLORES
 VEHICULE TYPE-2 : TRICOLORES / GAUCHE FLÈCHE
 VEHICULE TYPE-3 : TRICOLORES / DROITE FLÈCHE
 (VEHICLE TYPE-1 : TRICOLOR)
 (VEHICLE TYPE-2 : TRICOLOR / LEFT ARROW)
 (VEHICLE TYPE-3 : TRICOLOR / RIGHT ARROW)

POTEAU-1 : H=3.0m, TubeΦ=88.9mm
 POTEAU-2 : H=4.0m, TubeΦ=88.9mm
 (POLE-1 : H=3.0m, Tube Φ =88.9mm)
 (POLE-2 : H=4.0m, Tube Φ =88.9mm)

PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN

REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de l'Entretien Routier

AGENCE DE GESTION DES ROUTES

AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD.
INGÉROSEC CORPORATION

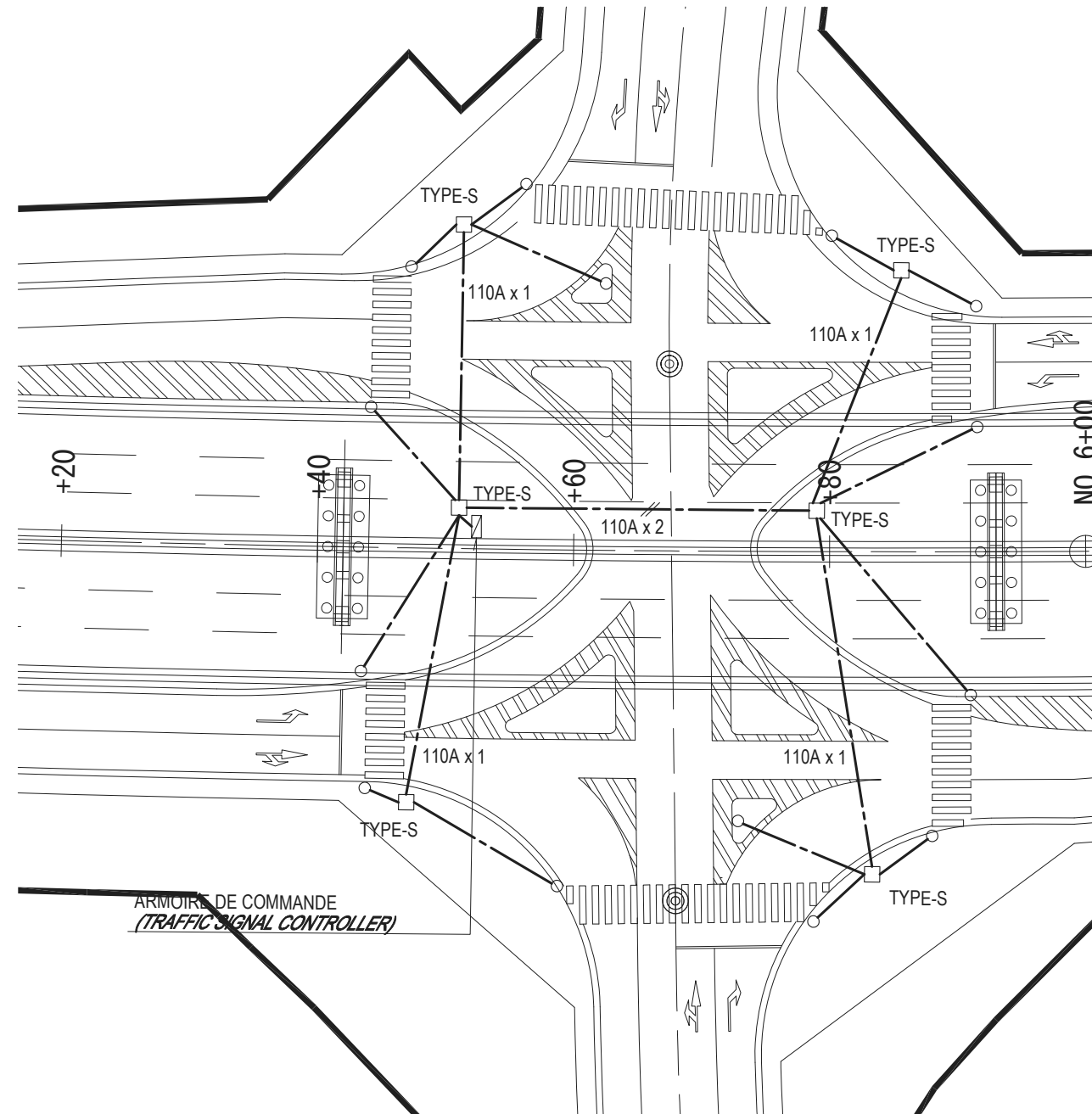
RIVIERA 3
ECHANGEUR DE LA RIVIERA 3:
PLAN DE MASSE DE LA SIGNALISATION TRICOLORE
LAYOUT PLAN OF TRAFFIC SIGNAL ON RIVIERA 3 INTERSECTION

| Indice /Index | Date /Date | Préparé par /Prepared by | Vérifié par /Checked by | Approuvé par /Approved by | Description /Description | Statut /Status |
|---------------|------------|--------------------------|-------------------------|---------------------------|--------------------------|----------------|
| A | 27/12/18 | T.M | S.H | T.K | PREMIERE VERSION | EXT |

| Format | A3 | Fichier/ File : | | | |
|------------------|------------------------|---|------------------------------------|---------|---------------|
| Emetteur /Author | Localisation /Location | Type d'ouvrage -Activité /Type of structure -Activity | Type de document /Type of document | N° /No. | Indice /Index |
| OCG,ISEC | BFM | ST | DESSINS | F-003 | A |

VUE EN ÉLÉVATION DU CARREFOUR PLAN - RIVIERA 3
(INTERSECTION PLAN VIEW - RIVIERA 3)

A1:Échelle=1:250 (A1:Scale=1:250)
A3:Échelle=1:500 (A3:Scale=1:500)



LEGENDES
(LEGEND)

- FEUX TRICOLE (TRAFFIC SIGNAL)
- REGARD TYPE EP 80 800X800X1100 DIMENSIONS INTERIEURES (HANDHOLE TYPE-S 800x800x1100 INNER DIMENSION)
- ▭ ARMOIRE DE COMMANDE DE LA SIGNALISATION TRICOLE (TRAFFIC SIGNAL CONTROLLER)
- FOURREAU PVC RIGIDE 75 A x1 (UNDERGROUND CONDUIT P-PVC 75Ax1)
- 110Ax1 FOURREAU PVC RIGIDE 110 AX1 (UNDERGROUND CONDUIT P-PVC 110Ax1)
- 110Ax2 FOURREAU PVC RIGIDE 110A x 2 (UNDERGROUND CONDUIT P-PVC 110Ax2)

NOTES

1. LE CABLAGE ET LA MISE A LA TERRE DEVRA SE FAIRE COMME SUIT:
DE L'AMOIRE A N'IMPORTE QUEL FEU: CABLE HFG 1000 7G 1.5mm²
LES CABLES DE TERRES EN CUIVRE NU 25mm² SERONT POSES EN FOND DE FOUILLES

(NOTES)

1. CABLING AND GROUNDING WIRE SHALL BE AS FOLLOWS:
FROM TRAFFIC SIGNAL CONTROLLER TO EVERY SIGNAL : HFG 1000 7C-1.5mm²
BELOW ALL UNDER GROUND CONDUIT RUN : Cu 25mm² x 1

PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE

Ministère de l'Équipement et de l'Entretien Routier



AGENCE DE GESTION DES ROUTES



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/ JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.



INGÉROSEC CORPORATION

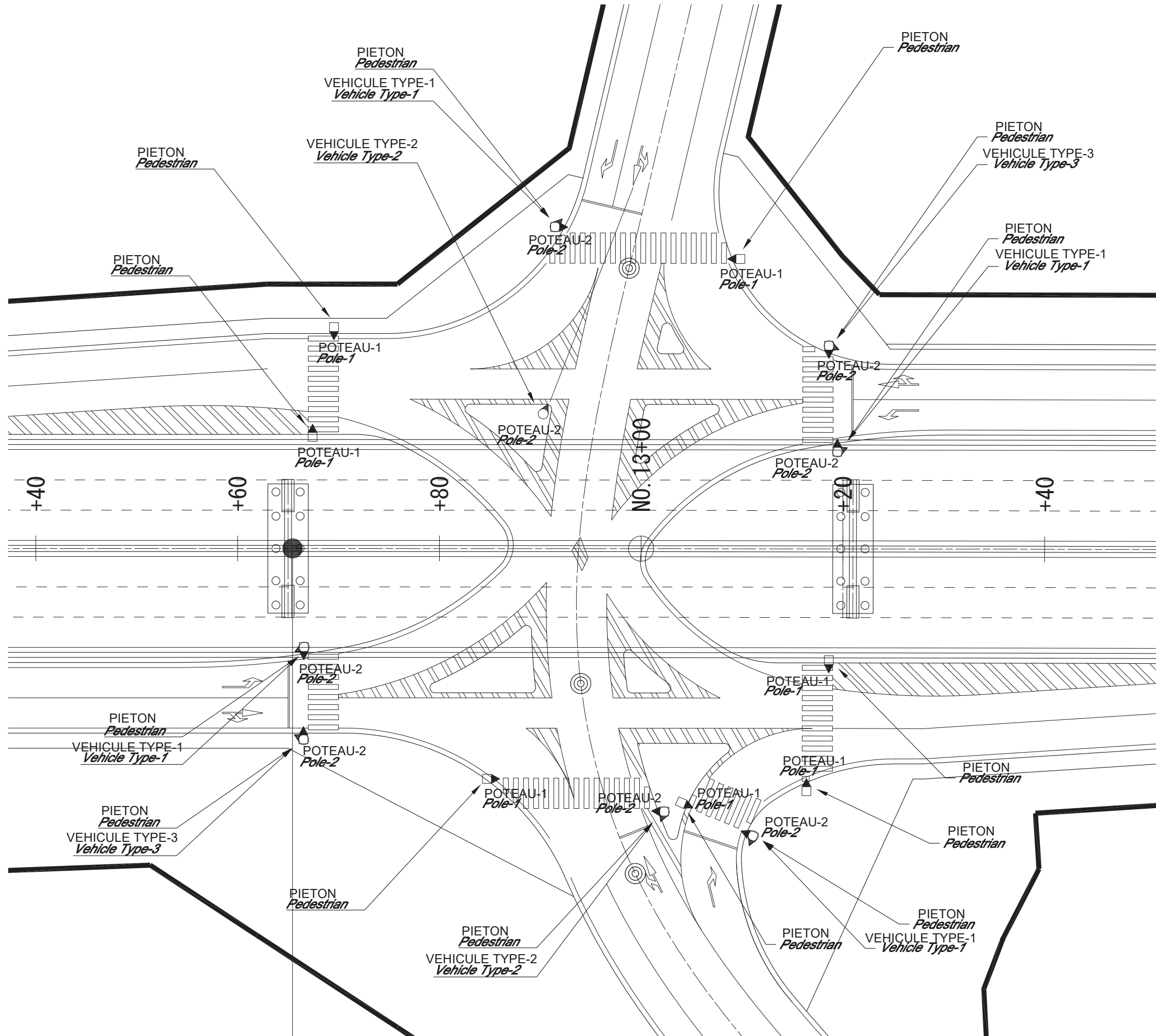
ECHANGEUR DE RIVIERA 3:
FOURREAUX POUR LA SIGNALISATION TRICOLE
(UNDERGROUND CONDUIT FOR TRAFFIC SIGNAL RIVIERA 3)

| Indice / Index | Date / Date | Préparé par / Prepared by | Vérifié par / Checked by | Approuvé par / Approved by | Description / Description | Statut / Status |
|----------------|-------------|---------------------------|--------------------------|----------------------------|---------------------------|-----------------|
| A | 27/12/18 | T.M | S.H | T.K | PREMIERE VERSION | EXT |
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| Format | A3 | Fichier/ File : | | | |
| Émetteur / Issuer | Localisation / Location | Type d'ouvrage -Activité / Type of structure -Activity | Type de document / Type of document | N° / No. | Indice / Index |
| OCG, ISEC | BFM | ST | DESSINS | F-004 | A |

VUE EN ÉLÉVATION DU CARREFOUR PLAN - PALMERAIE
(INTERSECTION PLAN VIEW - PALMERAIE)

A1:Échelle=1:200 (A1:Scale=1:200)
A3:Échelle=1:400 (A3:Scale=1:400)



Legende (Legend)

FEUX TRICOLORES (TRAFFIC SIGNAL)

- VEHICULE (VEHICLE)
- PIETON (PEDESTRIAN)

VEHICULE TYPE-1 : TRICOLORES
 VEHICULE TYPE-2 : TRICOLORES / GAUCHE FLÈCHE
 VEHICULE TYPE-3 : TRICOLORES / DROITE FLÈCHE
 (VEHICLE TYPE-1 : TRICOLOR)
 (VEHICLE TYPE-2 : TRICOLOR / LEFT ARROW)
 (VEHICLE TYPE-3 : TRICOLOR / RIGHT ARROW)

POTEAU-1 : H=3.0m, Tube Φ =88.9mm
 POTEAU-2 : H=4.0m, Tube Φ =88.9mm
 (POLE-1 : H=3.0m, Tube Φ =88.9mm)
 (POLE-2 : H=4.0m, Tube Φ =88.9mm)

PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN

REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de l'Entretien Routier

AGENCE DE GESTION DES ROUTES

AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD.

INGÉROSEC CORPORATION

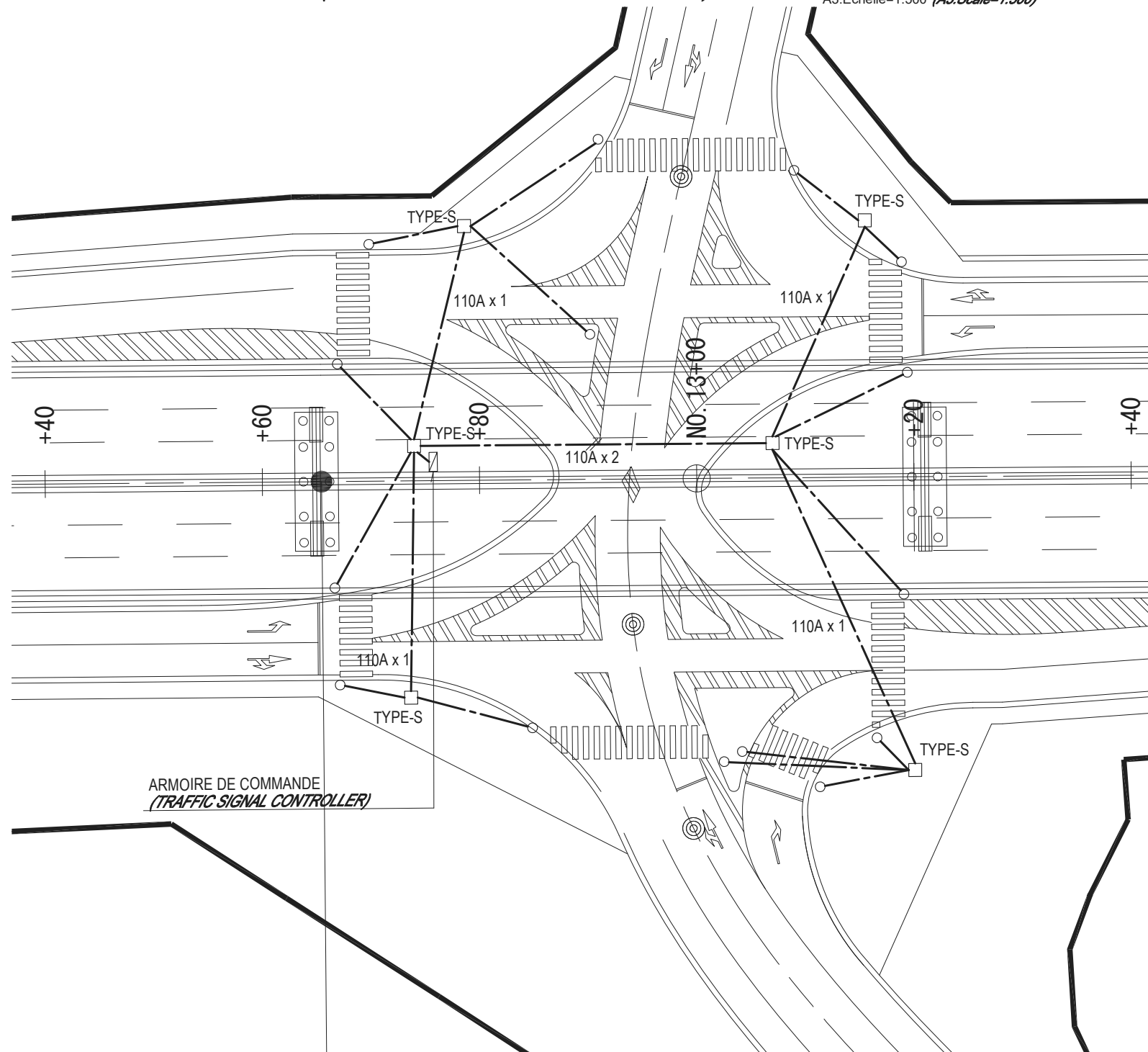
PALMERAIE
ECHANGEUR DE LA PALMERAIE;
PLAN DE MASSE DE LA SIGNALISATION TRICOLORE
LAYOUT PLAN OF TRAFFIC SIGNAL ON PALMERAIE INTERSECTION

| Indice /Index | Date /Date | Préparé par /Prepared by | Vérifié par /Checked by | Approuvé par /Approved by | Description /Description | Statut /Status |
|---------------|------------|--------------------------|-------------------------|---------------------------|--------------------------|----------------|
| A | 27/12/18 | T.M | S.H | T.K | PREMIERE VERSION | EXT |

| | | | | | |
|------------------|------------------------|---|------------------------------------|---------|---------------|
| Format | A3 | Fichier/ File : | | | |
| Émetteur /Issuer | Localisation /Location | Type d'ouvrage -Activité /Type of structure -Activity | Type de document /Type of document | N° /No. | Indice /Index |
| OCG,ISEC | BFM | ST | DESSINS | F-005 | A |

VUE EN ÉLÉVATION DU CARREFOUR PLAN - PALMERAIE
(INTERSECTION PLAN VIEW - PALMERAIE)

A1:Échelle=1:250 (A1:Scale=1:250)
A3:Échelle=1:500 (A3:Scale=1:500)



LEGENDES
(LEGEND)

- FEUX TRICOLERE
(TRAFFIC SIGNAL)
- REGARD TYPE EP 80 800X800X1100 DIMENSIONS INTERIEURES
(HANDHOLE TYPE-S 800X800X1100 INNER DIMENSION)
- ▭ ARMOIRE DE COMMANDE DE LA SIGNALISATION TRICOLERE
(TRAFFIC SIGNAL CONTROLLER)
- FOURREAU PVC RIGIDE 75 A x1
(UNDERGROUND CONDUIT P-PVC 75Ax1)
- 110Ax1 FOURREAU PVC RIGIDE 110 AX1
(UNDERGROUND CONDUIT P-PVC 110Ax1)
- 110Ax2 FOURREAU PVC RIGIDE 110A x 2
(UNDERGROUND CONDUIT P-PVC 110Ax2)

NOTES

1. LE CABLAGE ET LA MISE A LA TERRE DEVRA SE FAIRE COMME SUIT:
DE L'ARMOIRE A N'IMPORTE QUEL FEU: CABLE HFG 1000 7G 1.5mm²
LES CABLES DE TERRES EN CUIVRE NU 25mm² SERONT POSES EN FOND DE FOUILLES

(NOTES)

1. CABLING AND GROUNDING WIRE SHALL BE AS FOLLOWS:
FROM TRAFFIC SIGNAL CONTROLLER TO EVERY SIGNAL : HFG 1000 7C-1.5mm²
BELOW ALL UNDER GROUND CONDUIT RUN : Cu 25mm² x 1

PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE

Ministère de l'Équipement et de l'Entretien Routier



AGENCE DE GESTION DES ROUTES



AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.



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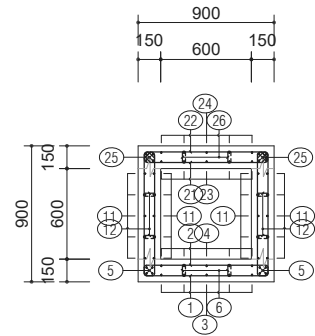
ECHANGEUR DE PALMERAIS:
FOURREAUX POUR SIGNALISATION TRICOLERE
(UNDERGROUND CONDUIT FOR TRAFFIC SIGNAL PALMERAIE)

| Indice /Index | Date /Date | Préparé par /Prepared by | Vérifié par /Checked by | Approuvé par /Approved by | Description /Description | Statut /Status |
|------------------|---------------|-----------------------------|----------------------------|------------------------------|-----------------------------|-------------------|
| A | 27/12/18 | T.M | S.H | T.K | PREMIERE VERSION | EXT |
| | | | | | | |

| Format | A3 | Fichier/ File : | | | | |
|---------------------|---------------------------|--|---------------------------------------|------------|------------------|--|
| Emetteur /Author | Localisation /Location | Type d'ouvrage -Activité /Type of structure -Activity | Type de document /Type of document | N° /No. | Indice /Index | |
| OCG,ISEC | BFM | ST | DESSINS | F-006 | A | |

G. ROUTE -Référence- / ROAD -Reference-

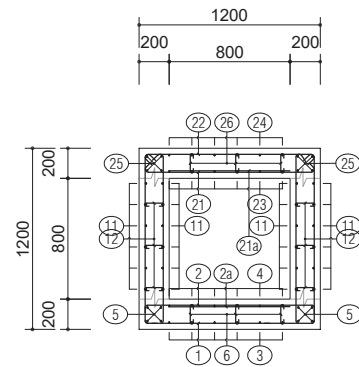
DALOT 600x600
(Box culvert 600x600)



| NOMENCLATURE DES ACIERS (REBAR QUANTITY) | | | | | | | | | |
|--|----------------|-------|------------------------------|------------------------|--|--------------|------------------------------------|---------------------|------------------|
| Rebar (mètre) | TYPE (TYPE) | Ø | NOMBRE (NUMBER) | | | ESP (ESP) | Long. unitaire (Long. unitaire) | SCHEMA (DRAWING) | Total (Total) |
| | | | Par Elément (Par Element) | D'élément (Element) | Total (Total) | | | | |
| Corps de dalot /Radier (Body of Culvert / Radier) | | | | | | | | | |
| 1 | HA | 10 | 8 | 1 | 8 | 12 | 276 | 82 82 | 22.08 |
| 2 | HA | 10 | 8 | 1 | 8 | 12 | 304 | 82 82 | 24.32 |
| 3 | HA | 8 | 4 | 1 | 4 | 15 | 116 | 92 92 | 4.64 |
| 4 | HA | 8 | 4 | 1 | 4 | 15 | 116 | 92 92 | 4.64 |
| 5 | HA | 8 | 4 | 2 | 8 | - | 116 | 92 92 | 9.28 |
| 6 | HA | 8 | 4 | 1 | 4 | 6u/m² | 21 | 3 3 | 0.84 |
| Corps de dalot /Dalle (Body of Culvert / Slab) | | | | | | | | | |
| 11 | HA | 8 | 4*2 | 2 | 16 | 15 | 116 | 92 92 | 18.56 |
| 12 | HA | 8 | 4 | 2 | 8 | 6u/m² | 21 | 3 3 | 1.68 |
| Corps de dalot /Voiles (Body of Culvert / Sails) | | | | | | | | | |
| 21 | HA | 10 | 8 | 1 | 8 | 12 | 112 | 92 92 | 8.96 |
| 22 | HA | 10 | 8 | 1 | 8 | 12 | 112 | 92 92 | 8.96 |
| 23 | HA | 8 | 4 | 1 | 4 | 15 | 116 | 92 92 | 4.64 |
| 24 | HA | 8 | 4 | 1 | 4 | 15 | 116 | 92 92 | 4.64 |
| 25 | HA | 8 | 4 | 2 | 8 | - | 116 | 92 92 | 9.28 |
| 26 | HA | 8 | 4 | 1 | 4 | 6u/m² | 21 | 3 3 | 0.84 |
| RECAPITULATIF ACIERS HA , Fe 500 (SUMMARY STEELS HA, Fe 500) | | | | | | | | | |
| NUANCE | 6 | 8 | 10 | 12 | 14 | 16 | | DIAMETRE MOYEN | |
| POIDS (Kg/ml) | 0,222 | 0,395 | 0,617 | 0,888 | 1,208 | 1,578 | | | 9.26 |
| LONG. (m) | 59.04 | 64.32 | | | | | | TOTAL | |
| POIDS (Kg) | 23.32 | 39.69 | | | | | | | 63.01 |
| DIAMETRE MOYEN : 9.26 (AVERAGE DIAMETER) | | | | | POIDS TOTAL (Kg) : 63.01 (TOTAL WEIGHT) | | | | |

NOTA: - Ces quantités sont valables pour 1 ml de dalot.
(NOTE): / These quantities are valid for 1 ml of culvert.
- Enrobage = 4cm
/ Coating = 4cm

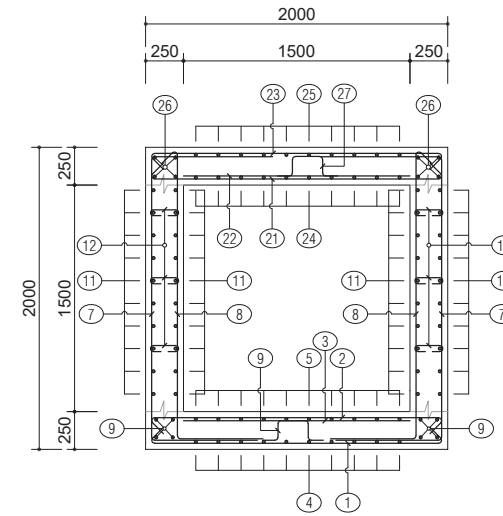
DALOT 800x800
(Box culvert 800x800)



| NOMENCLATURE DES ACIERS (REBAR QUANTITY) | | | | | | | | | |
|--|----------------|-------|------------------------------|------------------------|---|--------------|------------------------------------|---------------------|------------------|
| Rebar (mètre) | TYPE (TYPE) | Ø | NOMBRE (NUMBER) | | | ESP (ESP) | Long. unitaire (Long. unitaire) | SCHEMA (DRAWING) | Total (Total) |
| | | | Par Elément (Par Element) | D'élément (Element) | Total (Total) | | | | |
| Corps de dalot /Radier (Body of Culvert / Radier) | | | | | | | | | |
| 1 | HA | 12 | 7 | 1 | 7 | 15 | 372 | 112 112 | 26.04 |
| 2 | HA | 12 | 7 | 1 | 7 | 15 | 420 | 112 112 | 29.40 |
| 2a | HA | 10 | 7 | 1 | 7 | 15 | 80 | 80 | 5.60 |
| 3 | HA | 8 | 5 | 1 | 5 | 15 | 116 | 92 92 | 5.80 |
| 4 | HA | 8 | 5 | 1 | 5 | 15 | 116 | 92 92 | 5.80 |
| 5 | HA | 8 | 4 | 2 | 8 | - | 116 | 92 92 | 9.28 |
| 6 | HA | 8 | 5 | 1 | 5 | 6u/m² | 26 | 3 3 | 1.30 |
| Corps de dalot /Dalle (Body of Culvert / Slab) | | | | | | | | | |
| 11 | HA | 8 | 5*2 | 2 | 20 | 15 | 116 | 92 92 | 23.20 |
| 12 | HA | 8 | 5 | 2 | 10 | 6u/m² | 26 | 3 3 | 2.60 |
| Corps de dalot /Voiles (Body of Culvert / Sails) | | | | | | | | | |
| 21 | HA | 12 | 7 | 1 | 7 | 15 | 148 | 112 112 | 10.36 |
| 21a | HA | 10 | 7 | 1 | 7 | 15 | 80 | 80 | 5.60 |
| 22 | HA | 12 | 7 | 1 | 7 | 15 | 148 | 112 112 | 10.36 |
| 23 | HA | 8 | 5 | 1 | 5 | 15 | 116 | 92 92 | 5.80 |
| 24 | HA | 8 | 5 | 1 | 5 | 15 | 116 | 92 92 | 5.80 |
| 25 | HA | 8 | 4 | 2 | 8 | - | 116 | 92 92 | 9.28 |
| 26 | HA | 8 | 5 | 1 | 5 | 6u/m² | 26 | 3 3 | 1.30 |
| RECAPITULATIF ACIERS HA , Fe 500 (SUMMARY STEELS HA, Fe 500) | | | | | | | | | |
| NUANCE | 6 | 8 | 10 | 12 | 14 | 16 | | DIAMETRE MOYEN | |
| POIDS (Kg/ml) | 0,222 | 0,395 | 0,617 | 0,888 | 1,208 | 1,578 | | | 10.78 |
| LONG. (m) | 70.16 | 11.20 | 76.16 | | | | | TOTAL | |
| POIDS (Kg) | 27.71 | 6.91 | 67.63 | | | | | | 102.25 |
| DIAMETRE MOYEN : 10.78 (AVERAGE DIAMETER) | | | | | POIDS TOTAL (Kg) : 102.25 (TOTAL WEIGHT) | | | | |

NOTA: - Ces quantités sont valables pour 1 ml de dalot.
(NOTE): / These quantities are valid for 1 ml of culvert.
- Enrobage = 4cm
/ Coating = 4cm

DALOT 1500x1500
(Box culvert 1500x1500)



| NOMENCLATURE DES ACIERS (REBAR QUANTITY) | | | | | | | | | |
|--|----------------|-------|------------------------------|------------------------|---|--------------|------------------------------------|---------------------|------------------|
| Rebar (mètre) | TYPE (TYPE) | Ø | NOMBRE (NUMBER) | | | ESP (ESP) | Long. unitaire (Long. unitaire) | SCHEMA (DRAWING) | Total (Total) |
| | | | Par Elément (Par Element) | D'élément (Element) | Total (Total) | | | | |
| Corps de dalot /Radier (Body of Culvert / Radier) | | | | | | | | | |
| 1 | HA | 12 | 7 | 1 | 7 | 15 | 228 | 192 192 | 15.96 |
| 2 | HA | 12 | 7 | 1 | 7 | 15 | 228 | 192 192 | 15.96 |
| 3 | HA | 12 | 7 | 1 | 7 | 15 | 150 | 150 | 10.50 |
| 4 | HA | 8 | 10 | 1 | 10 | 15 | 116 | 92 92 | 11.60 |
| 5 | HA | 10 | 10 | 1 | 10 | 15 | 122 | 92 92 | 12.20 |
| 6 | HA | 8 | 4 | 2 | 8 | - | 116 | 92 92 | 9.28 |
| 7 | HA | 12 | 7*2 | 1 | 14 | 15 | 348 | 80 188 | 48.72 |
| 8 | HA | 12 | 7*2 | 1 | 14 | 15 | 258 | 190 190 | 36.12 |
| 9 | HA | 8 | 9 | 1 | 9 | 6u/m² | 66 | 13 13 | 5.94 |
| Corps de dalot /Dalle (Body of Culvert / Slab) | | | | | | | | | |
| 11 | HA | 8 | 10*2 | 2 | 40 | 15 | 116 | 92 92 | 46.40 |
| 12 | HA | 8 | 9 | 2 | 18 | 6u/m² | 31 | 3 3 | 5.58 |
| Corps de dalot /Voiles (Body of Culvert / Sails) | | | | | | | | | |
| 21 | HA | 12 | 7 | 1 | 7 | 15 | 228 | 192 192 | 15.96 |
| 22 | HA | 12 | 7 | 1 | 7 | 15 | 150 | 150 | 10.50 |
| 23 | HA | 10 | 7 | 1 | 7 | 15 | 222 | 192 192 | 15.54 |
| 24 | HA | 10 | 10 | 1 | 10 | 15 | 122 | 92 92 | 12.20 |
| 25 | HA | 8 | 10 | 1 | 10 | 15 | 116 | 92 92 | 11.60 |
| 26 | HA | 8 | 4 | 2 | 8 | - | 116 | 92 92 | 9.28 |
| 27 | HA | 8 | 9 | 1 | 9 | 6u/m² | 66 | 13 13 | 5.94 |
| RECAPITULATIF ACIERS HA , Fe 500 (SUMMARY STEELS HA, Fe 500) | | | | | | | | | |
| NUANCE | 6 | 8 | 10 | 12 | 14 | 16 | | DIAMETRE MOYEN | |
| POIDS (Kg/ml) | 0,222 | 0,395 | 0,617 | 0,888 | 1,208 | 1,578 | | | 10.93 |
| LONG. (m) | 105.62 | 39.94 | 153.72 | | | | | TOTAL | |
| POIDS (Kg) | 41.72 | 24.64 | 136.50 | | | | | | 202.87 |
| DIAMETRE MOYEN : 10.93 (AVERAGE DIAMETER) | | | | | POIDS TOTAL (Kg) : 202.87 (TOTAL WEIGHT) | | | | |

NOTA: - Ces quantités sont valables pour 1 ml de dalot.
(NOTE): / These quantities are valid for 1 ml of culvert.
- Enrobage = 4cm
/ Coating = 4cm

PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de
l'Entretien Routier



AGENCE DE GESTION DES ROUTES



AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.



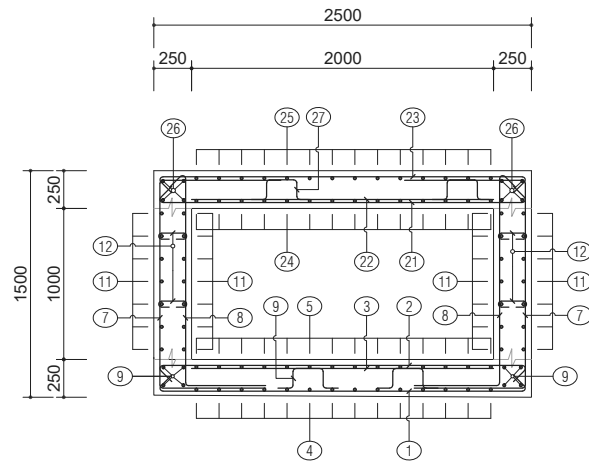
INGÉROSEC CORPORATION

DALOT - DETAIL D'ARMURES (TYPIQUE) (1)
(A1 E=25, A3 E=1:50)
BOX CULVERT - TYPICAL REINFORCEMENT DETAILS(1)
(A1 S=25, A3 S=1:50)

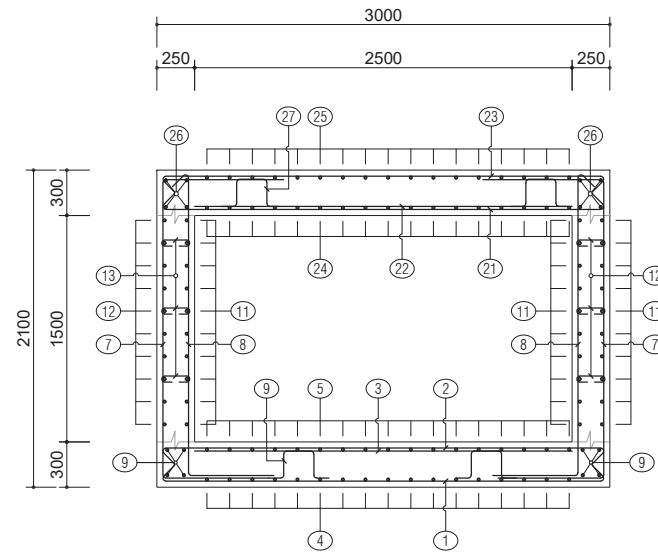
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|------------------|---------------|-----------------------------|----------------------------|------------------------------|-----------------------------|-------------------|
| A | 27/12/18 | K.T | T.N | T.K | PREMIERE VERSION | EXT |

| Format | A3 | Fichier/ File : | Emetteur /Issuer | Localisation /Location | Type d'ouvrage -Activité /Type of structure -Activity | Type de document /Type of document | N° /No. | Indice /Index |
|-----------|-----|-----------------|---------------------|---------------------------|--|---------------------------------------|-------------|------------------|
| OCG, ISEC | BFM | | | | ROUTE | DESSINS | G-EP-DR-001 | A |

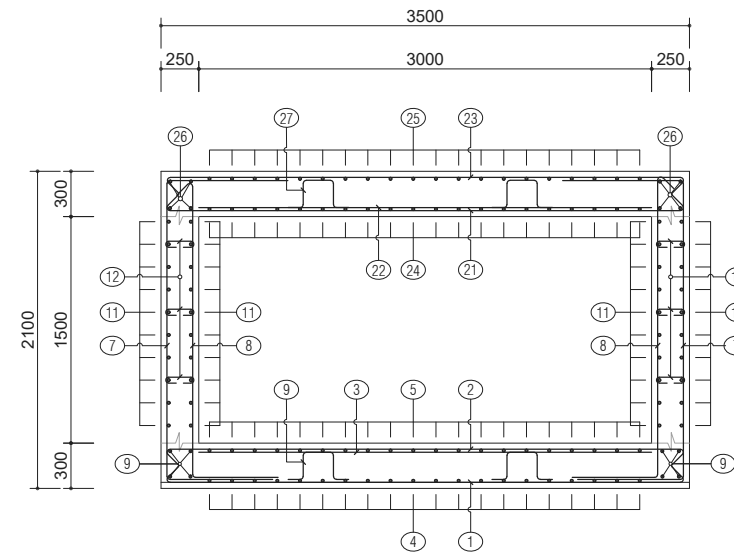
DALOT 2000x1000
(Box culvert 2000x1000)



DALOT 2500x1500
(Box culvert 2500x1500)



DALOT 3000x1500
(Box culvert 3000x1500)



| NOMENCLATURE DES ACIERS (REBAR QUANTITY) | | | | | | | | | |
|--|----------------|-------|------------------------------|------------------------|---|--------------|------------------------------------|---------------------|------------------|
| Rebar Diamètre (mm) | TYPE (TYPE) | Ø | NOMBRE (NUMBER) | | | ESP (ESP) | Long. unitaire (Long. unitaire) | SCHEMA (DRAWING) | Total (Total) |
| | | | Par Elément (Par Elément) | D'élément (Elément) | Total (Total) | | | | |
| Corps de dalot /Radier (Body of Culvert / Radier) | | | | | | | | | |
| 1 | HA | 14 | 7 | 1 | 7 | 15 | 284 | ↖ ↗ | 19.88 |
| 2 | HA | 14 | 7 | 1 | 7 | 15 | 284 | ↖ ↗ | 19.88 |
| 3 | HA | 12 | 7 | 1 | 7 | 15 | 200 | — | 14.00 |
| 4 | HA | 10 | 13 | 1 | 13 | 15 | 122 | ↖ ↗ | 15.86 |
| 5 | HA | 10 | 13 | 1 | 13 | 15 | 122 | ↖ ↗ | 15.86 |
| 6 | HA | 8 | 4 | 2 | 8 | - | 116 | ↖ ↗ | 9.28 |
| 7 | HA | 12 | 7*2 | 1 | 14 | 15 | 298 | ↖ ↗ | 41.72 |
| 8 | HA | 12 | 7*2 | 1 | 14 | 15 | 238 | ↖ ↗ | 33.32 |
| 9 | HA | 8 | 12 | 1 | 12 | 6u/m² | 66 | ↖ ↗ | 7.92 |
| Corps de dalot /Dalle (Body of Culvert / Slab) | | | | | | | | | |
| 11 | HA | 8 | 7*2 | 2 | 28 | 15 | 116 | ↖ ↗ | 32.48 |
| 12 | HA | 8 | 6 | 2 | 12 | 6u/m² | 31 | ↖ ↗ | 3.72 |
| Corps de dalot /Voiles (Body of Culvert / Sails) | | | | | | | | | |
| 21 | HA | 14 | 7 | 1 | 7 | 15 | 284 | ↖ ↗ | 19.88 |
| 22 | HA | 14 | 7 | 1 | 7 | 15 | 200 | — | 14.00 |
| 23 | HA | 12 | 7 | 1 | 7 | 15 | 278 | ↖ ↗ | 19.46 |
| 24 | HA | 10 | 13 | 1 | 13 | 15 | 122 | ↖ ↗ | 15.86 |
| 25 | HA | 10 | 13 | 1 | 13 | 15 | 122 | ↖ ↗ | 15.86 |
| 26 | HA | 8 | 4 | 2 | 8 | - | 116 | ↖ ↗ | 9.28 |
| 27 | HA | 8 | 12 | 1 | 12 | 6u/m² | 66 | ↖ ↗ | 7.92 |
| RECAPITULATIF ACIERS HA , Fe 500 (SUMMARY STEELS HA, Fe 500) | | | | | | | | | |
| NUANCE | 6 | 8 | 10 | 12 | 14 | 16 | | DIAMETRE MOYEN | |
| POIDS (Kg/ml) | 0,222 | 0,395 | 0,617 | 0,888 | 1,208 | 1,578 | | | 11.95 |
| LONG. (m) | | 70.60 | 63.44 | 108.50 | 73.64 | | | TOTAL | |
| POIDS (Kg) | | 27.89 | 39.14 | 96.35 | 88.96 | | | | 252.33 |
| DIAMETRE MOYEN : 11.95 (AVERAGE DIAMETER) | | | | | POIDS TOTAL (Kg) : 252.33 (TOTAL WEIGHT) | | | | |

NOTA: - Ces quantités sont valables pour 1 ml de dalot.
(NOTE): / These quantities are valid for 1 ml of culvert.
- Enrobage = 4cm
/ Coating = 4cm

| NOMENCLATURE DES ACIERS (REBAR QUANTITY) | | | | | | | | | |
|--|----------------|-------|------------------------------|------------------------|---|--------------|------------------------------------|---------------------|------------------|
| Rebar Diamètre (mm) | TYPE (TYPE) | Ø | NOMBRE (NUMBER) | | | ESP (ESP) | Long. unitaire (Long. unitaire) | SCHEMA (DRAWING) | Total (Total) |
| | | | Par Elément (Par Elément) | D'élément (Elément) | Total (Total) | | | | |
| Corps de dalot /Radier (Body of Culvert / Radier) | | | | | | | | | |
| 1 | HA | 12 | 8 | 1 | 8 | 12 | 328 | ↖ ↗ | 26.24 |
| 2 | HA | 14 | 8 | 1 | 8 | 12 | 334 | ↖ ↗ | 26.72 |
| 3 | HA | 14 | 8 | 1 | 8 | 12 | 250 | — | 20.00 |
| 4 | HA | 10 | 17 | 1 | 17 | 15 | 122 | ↖ ↗ | 20.74 |
| 5 | HA | 10 | 17 | 1 | 17 | 15 | 122 | ↖ ↗ | 20.74 |
| 6 | HA | 8 | 4 | 2 | 8 | - | 116 | ↖ ↗ | 9.28 |
| 7 | HA | 14 | 8*2 | 1 | 16 | 12 | 398 | ↖ ↗ | 63.68 |
| 8 | HA | 14 | 8*2 | 1 | 16 | 12 | 271 | ↖ ↗ | 43.36 |
| 9 | HA | 8 | 15 | 1 | 15 | 6u/m² | 76 | ↖ ↗ | 11.40 |
| Corps de dalot /Dalle (Body of Culvert / Slab) | | | | | | | | | |
| 11 | HA | 8 | 10*2 | 2 | 40 | 15 | 116 | ↖ ↗ | 46.40 |
| 12 | HA | 8 | 9 | 2 | 18 | 6u/m² | 31 | ↖ ↗ | 5.58 |
| Corps de dalot /Voiles (Body of Culvert / Sails) | | | | | | | | | |
| 21 | HA | 14 | 8 | 1 | 8 | 12 | 334 | ↖ ↗ | 26.72 |
| 22 | HA | 14 | 8 | 1 | 8 | 12 | 250 | — | 20.00 |
| 23 | HA | 12 | 8 | 1 | 8 | 12 | 328 | ↖ ↗ | 26.24 |
| 24 | HA | 10 | 17 | 1 | 17 | 15 | 122 | ↖ ↗ | 20.74 |
| 25 | HA | 10 | 17 | 1 | 17 | 15 | 122 | ↖ ↗ | 20.74 |
| 26 | HA | 8 | 4 | 2 | 8 | - | 116 | ↖ ↗ | 9.28 |
| 27 | HA | 8 | 15 | 1 | 15 | 6u/m² | 76 | ↖ ↗ | 11.40 |
| RECAPITULATIF ACIERS HA , Fe 500 (SUMMARY STEELS HA, Fe 500) | | | | | | | | | |
| NUANCE | 6 | 8 | 10 | 12 | 14 | 16 | | DIAMETRE MOYEN | |
| POIDS (Kg/ml) | 0,222 | 0,395 | 0,617 | 0,888 | 1,208 | 1,578 | | | 12.62 |
| LONG. (m) | | 93.34 | 82.96 | 52.48 | 200.48 | | | TOTAL | |
| POIDS (Kg) | | 36.87 | 51.19 | 46.60 | 242.18 | | | | 376.84 |
| DIAMETRE MOYEN : 12.62 (AVERAGE DIAMETER) | | | | | POIDS TOTAL (Kg) : 376.84 (TOTAL WEIGHT) | | | | |

NOTA: - Ces quantités sont valables pour 1 ml de dalot.
(NOTE): / These quantities are valid for 1 ml of culvert.
- Enrobage = 4cm
/ Coating = 4cm

| NOMENCLATURE DES ACIERS (REBAR QUANTITY) | | | | | | | | | |
|--|----------------|--------|------------------------------|------------------------|---|--------------|------------------------------------|---------------------|------------------|
| Rebar Diamètre (mm) | TYPE (TYPE) | Ø | NOMBRE (NUMBER) | | | ESP (ESP) | Long. unitaire (Long. unitaire) | SCHEMA (DRAWING) | Total (Total) |
| | | | Par Elément (Par Elément) | D'élément (Elément) | Total (Total) | | | | |
| Corps de dalot /Radier (Body of Culvert / Radier) | | | | | | | | | |
| 1 | HA | 12 | 8 | 1 | 8 | 12 | 378 | ↖ ↗ | 30.24 |
| 2 | HA | 14 | 8 | 1 | 8 | 12 | 384 | ↖ ↗ | 30.72 |
| 3 | HA | 14 | 8 | 1 | 8 | 12 | 300 | — | 24.00 |
| 4 | HA | 10 | 20 | 1 | 20 | 15 | 122 | ↖ ↗ | 24.40 |
| 5 | HA | 10 | 20 | 1 | 20 | 15 | 122 | ↖ ↗ | 24.40 |
| 6 | HA | 8 | 4 | 2 | 8 | - | 116 | ↖ ↗ | 9.28 |
| 7 | HA | 14 | 8*2 | 1 | 16 | 12 | 488 | ↖ ↗ | 78.08 |
| 8 | HA | 14 | 8*2 | 1 | 16 | 12 | 271 | ↖ ↗ | 43.36 |
| 9 | HA | 8 | 18 | 1 | 18 | 6u/m² | 76 | ↖ ↗ | 13.68 |
| Corps de dalot /Dalle (Body of Culvert / Slab) | | | | | | | | | |
| 11 | HA | 8 | 10*2 | 2 | 40 | 15 | 116 | ↖ ↗ | 46.40 |
| 12 | HA | 8 | 9 | 2 | 18 | 6u/m² | 31 | ↖ ↗ | 5.58 |
| Corps de dalot /Voiles (Body of Culvert / Sails) | | | | | | | | | |
| 21 | HA | 14 | 8 | 1 | 8 | 12 | 384 | ↖ ↗ | 30.72 |
| 22 | HA | 14 | 8 | 1 | 8 | 12 | 300 | — | 24.00 |
| 23 | HA | 12 | 8 | 1 | 8 | 12 | 378 | ↖ ↗ | 30.24 |
| 24 | HA | 10 | 20 | 1 | 20 | 15 | 122 | ↖ ↗ | 24.40 |
| 25 | HA | 8 | 20 | 1 | 20 | 15 | 116 | ↖ ↗ | 23.20 |
| 26 | HA | 8 | 4 | 2 | 8 | - | 116 | ↖ ↗ | 9.28 |
| 27 | HA | 8 | 18 | 1 | 18 | 6u/m² | 76 | ↖ ↗ | 13.68 |
| RECAPITULATIF ACIERS HA , Fe 500 (SUMMARY STEELS HA, Fe 500) | | | | | | | | | |
| NUANCE | 6 | 8 | 10 | 12 | 14 | 16 | | DIAMETRE MOYEN | |
| POIDS (Kg/ml) | 0,222 | 0,395 | 0,617 | 0,888 | 1,208 | 1,578 | | | 12.62 |
| LONG. (m) | | 112.10 | 73.20 | 60.48 | 222.88 | | | TOTAL | |
| POIDS (Kg) | | 47.83 | 45.16 | 53.71 | 269.24 | | | | 415.94 |
| DIAMETRE MOYEN : 12.62 (AVERAGE DIAMETER) | | | | | POIDS TOTAL (Kg) : 415.94 (TOTAL WEIGHT) | | | | |

NOTA: - Ces quantités sont valables pour 1 ml de dalot.
(NOTE): / These quantities are valid for 1 ml of culvert.
- Enrobage = 4cm
/ Coating = 4cm

PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de
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AGENCE DE GESTION DES ROUTES



AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.



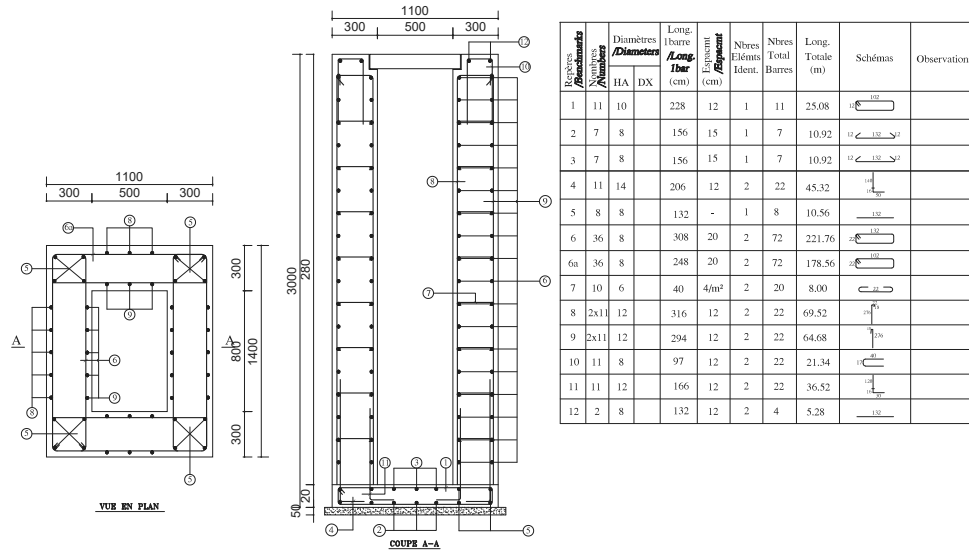
INGÉROSEC CORPORATION

DALOT - DETAIL D'ARMURES (TYPIQUE) (1)
(A1 E=25, A3 E=1:50)
BOX CULVERT - TYPICAL REINFORCEMENT DETAILS(1)
(A1 S=25, A3 S=1:50)

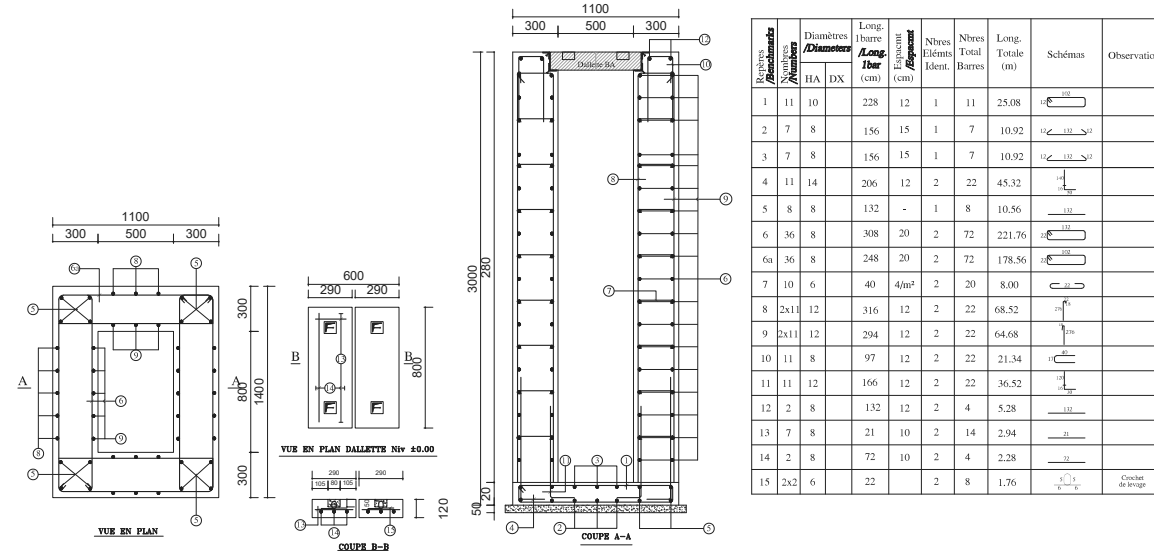
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| A | 27/12/18 | K.T | T.N | T.K | PREMIERE VERSION | EXT |

| Format | A3 | Fichier/ File : |
|---------------------------------------|---------------------------|--|
| Emetteur /Issuer | Localisation /Location | Type d'ouvrage -Activité /Type of structure -Activity |
| OCG, ISEC | BFM | ROUTE |
| Type de document /Type of document | N° /No. | Indice /Index |
| DESSINS | G-EP-DR-002 | A |

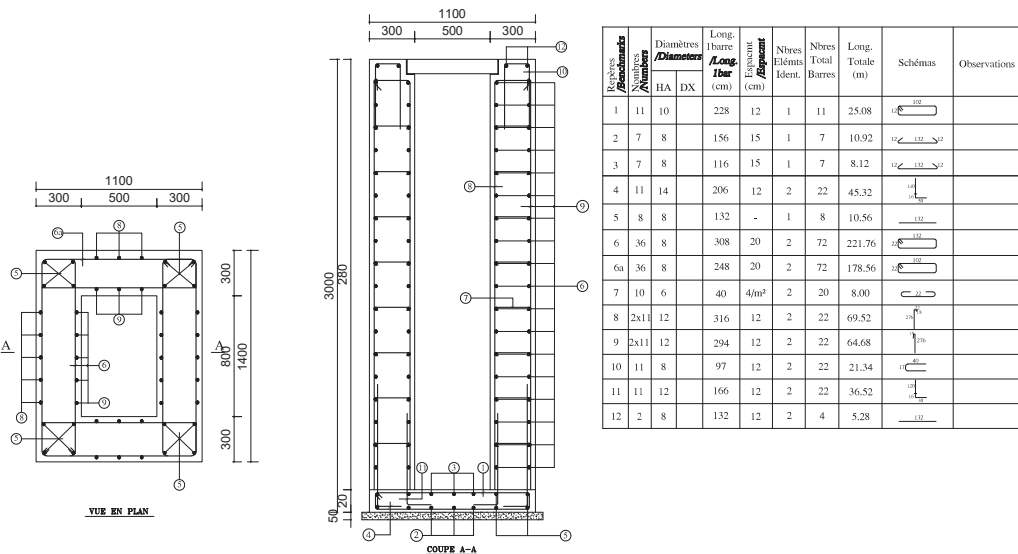
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(Catchbasin 500x800x2800)



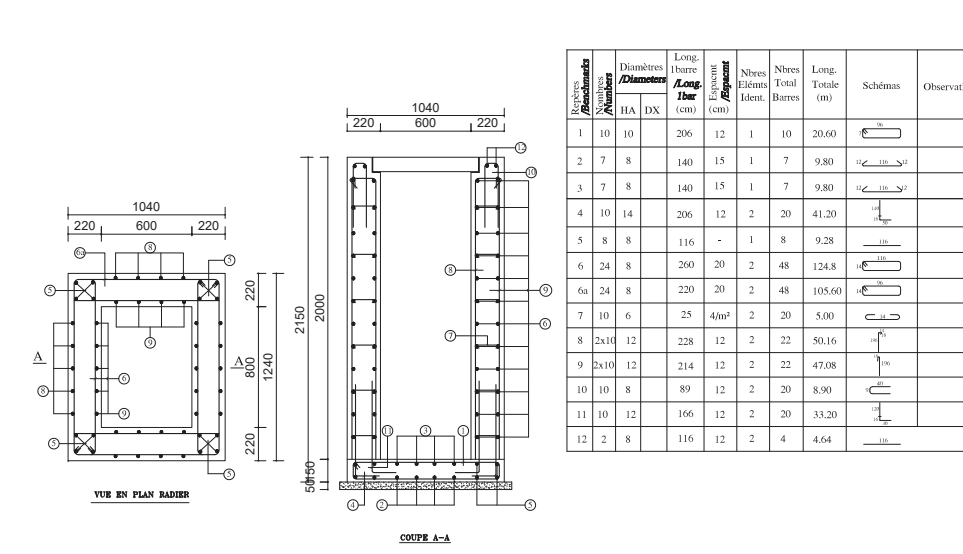
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(Catchbasin 500x800x2800)



REGARD 500x800x2800
(Catchbasin 500x800x2800)



REGARD 600x800x2000
(Catchbasin 600x800x2000)



PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de
l'Entretien Routier



AGENCE DE GESTION DES ROUTES



AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.



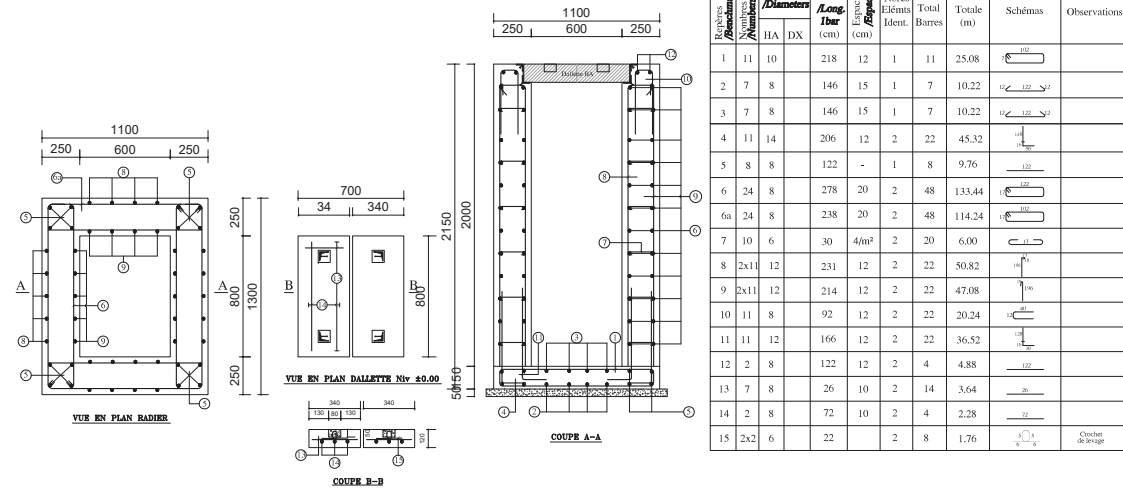
INGÉROSEC CORPORATION

REGARD - DETAIL D'ARMURES (TYPIQUE) (1)
(A1 E=25, A3 E=1:50)
CATCH PIT - TYPICAL REINFORCEMENT DETAILS (1)
(A1 S=25, A3 S=1:50)

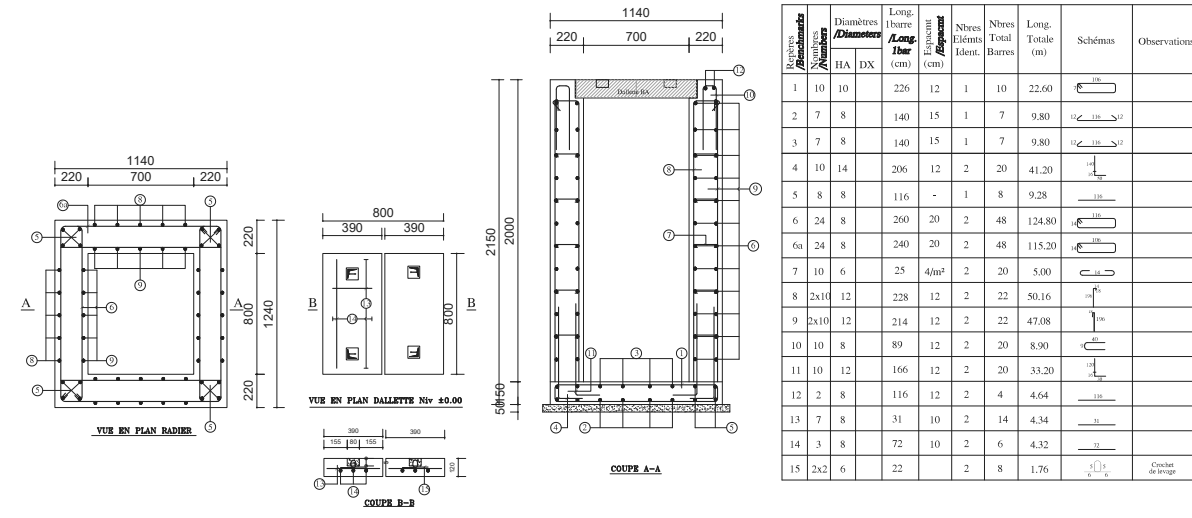
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|------------------|---------------|-----------------------------|----------------------------|------------------------------|-----------------------------|-------------------|
| A | 27/12/18 | K.T | T.N | T.K | PREMIERE VERSION | EXT |

| Format | A3 | Fichier/ File : | Emetteur /Author | Localisation /Location | Type d'ouvrage -Activité /Type of structure -Activity | Type de document /Type of document | N° /No. | Indice /Index |
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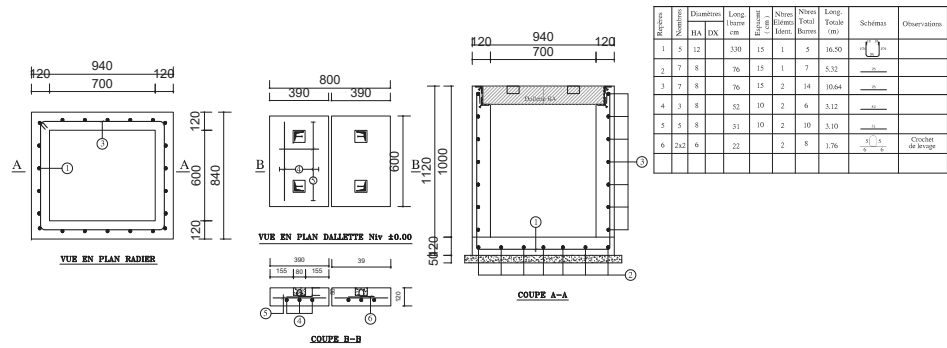
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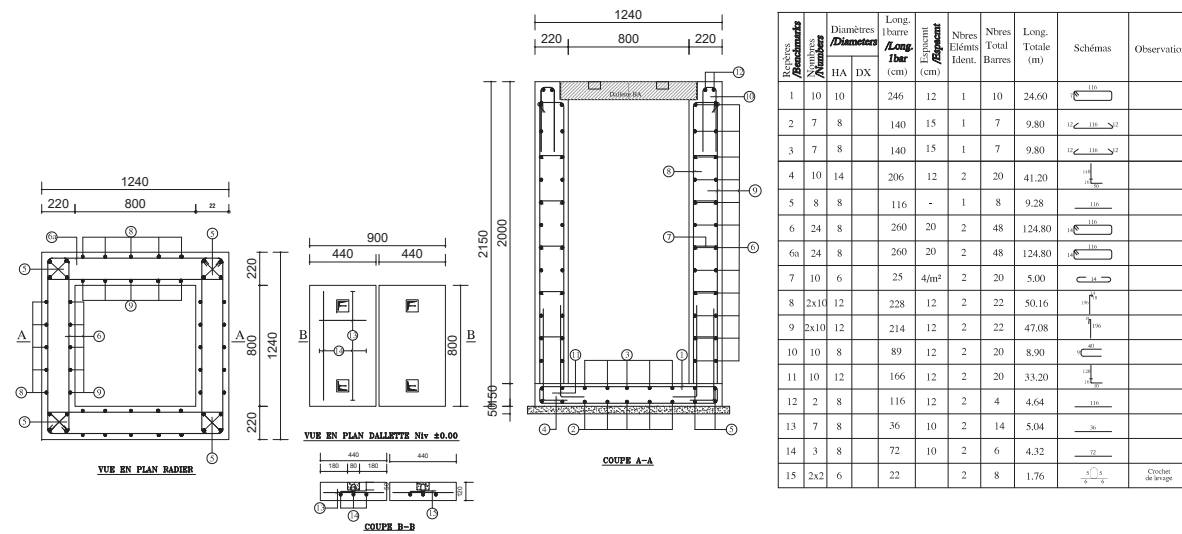
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(Catchbasin 700x800x2000)



REGARD 700x600x1000
(Catchbasin 700x600x1000)



REGARD 800x800x2000
(Catchbasin 800x800x2000)



PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de l'Entretien Routier



AGENCE DE GESTION DES ROUTES



AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.



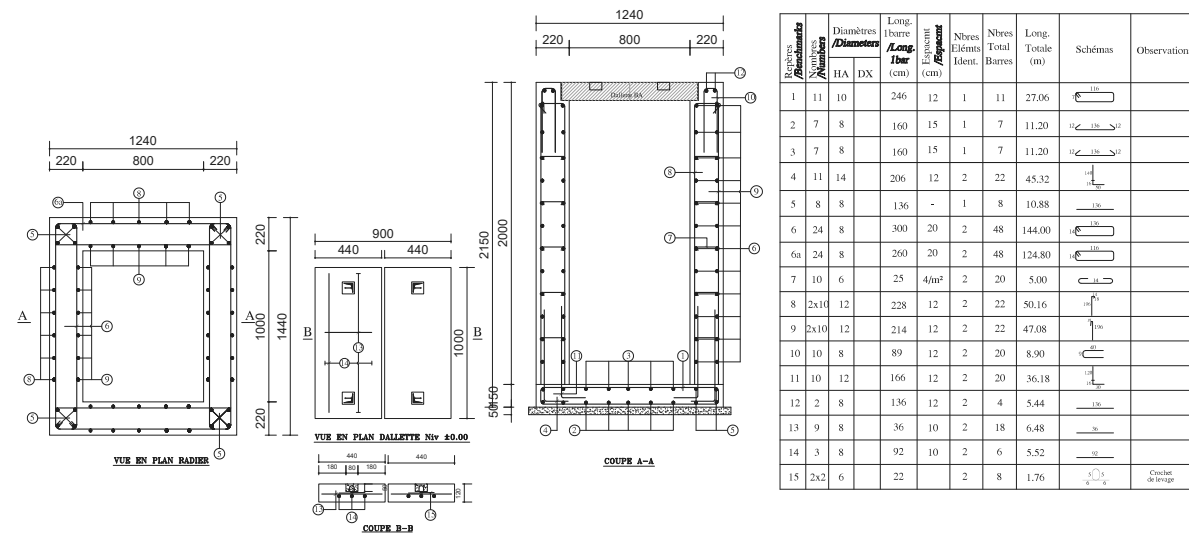
INGÉROSEC CORPORATION

REGARD - DETAIL D'ARMURES (TYPIQUE) (2)
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CATCH PIT - TYPICAL REINFORCEMENT DETAILS (2)
(A1 S=25, A3 S=1:50)

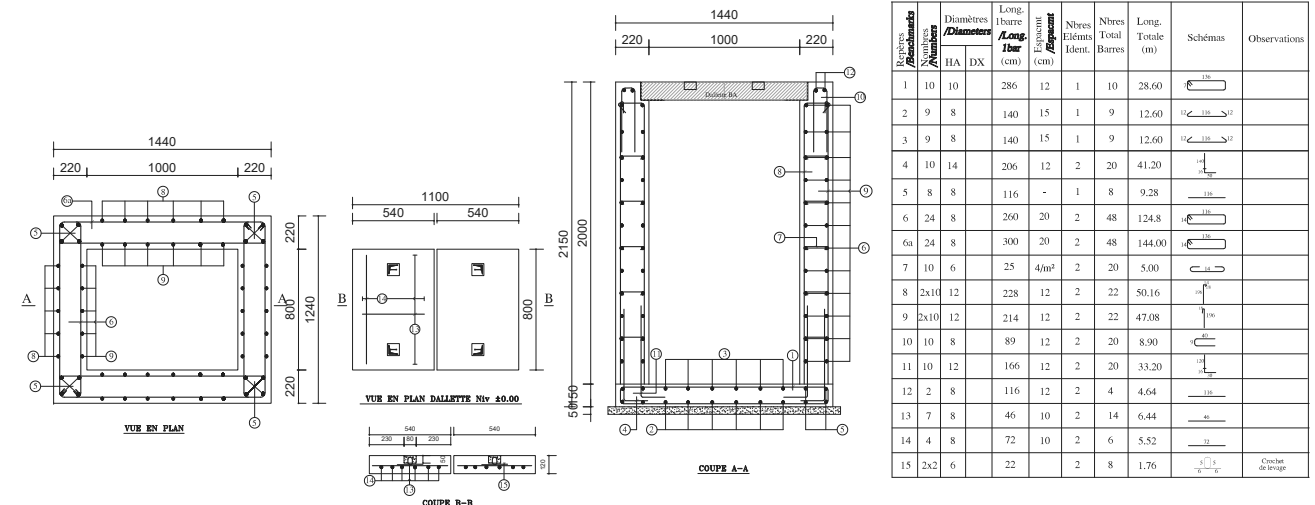
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|----------------|-------------|---------------------------|--------------------------|----------------------------|---------------------------|-----------------|
| A | 27/12/18 | K.T | T.N | T.K | PREMIERE VERSION | EXT |

| Format | A3 | Fichier / File | Emetteur / Issuer | Localisation / Location | Type d'ouvrage - Activité / Type of structure - Activity | Type de document / Type of document | N° / No. | Indice / Index |
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| | | | OCG, ISEC | BFM | ROUTE | DESSINS | G-EP-DR-004 | A |

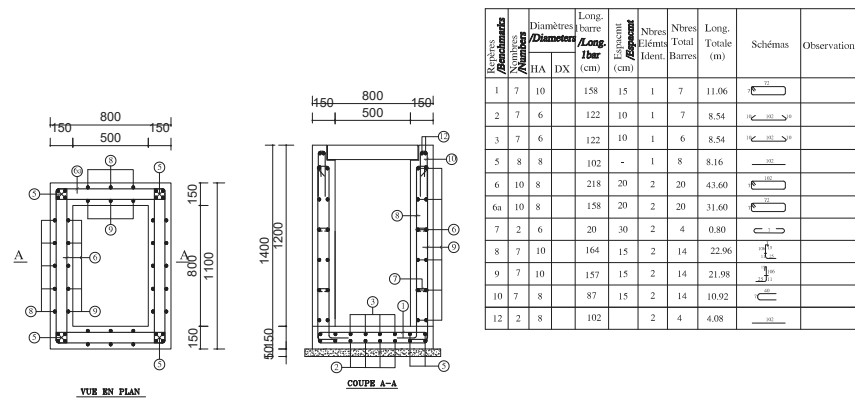
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(Catchbasin 800x1000x2000)



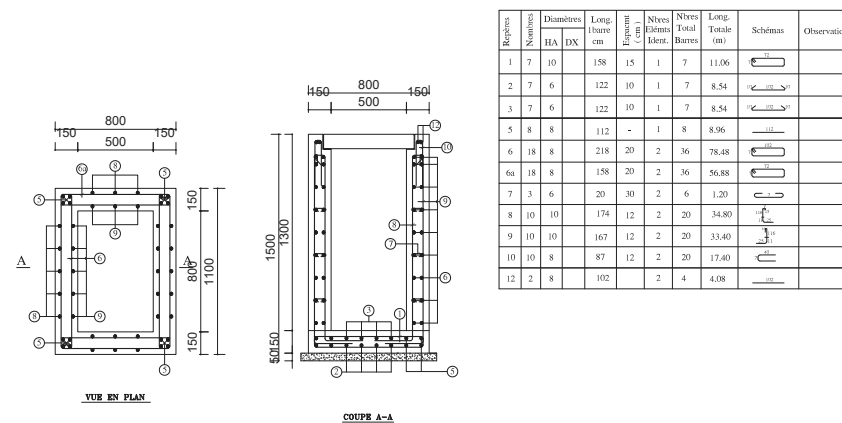
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(Catchbasin 1000x800x2000)



REGARD 500x800x1200
(Catchbasin 500x800x1200)



REGARD 500x800x1300
(Catchbasin 500x800x1300)



PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de l'Entretien Routier



AGENCE DE GESTION DES ROUTES



AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.



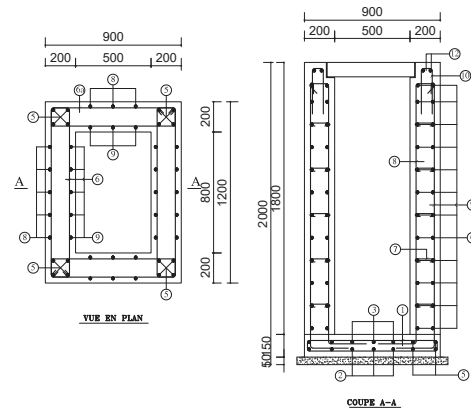
INGÉROSEC CORPORATION

REGARD - DETAIL D'ARMURES (TYPIQUE) (3)
(A1 E=25, A3 E=1:50)
CATCH PIT - TYPICAL REINFORCEMENT DETAILS (3)
(A1 S=25, A3 S=1:50)

| Indice / Index | Date / Date | Préparé par / Prepared by | Vérifié par / Checked by | Approuvé par / Approved by | Description / Description | Statut / Status |
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| A | 27/12/18 | K.T | T.N | T.K | PREMIERE VERSION | EXT |

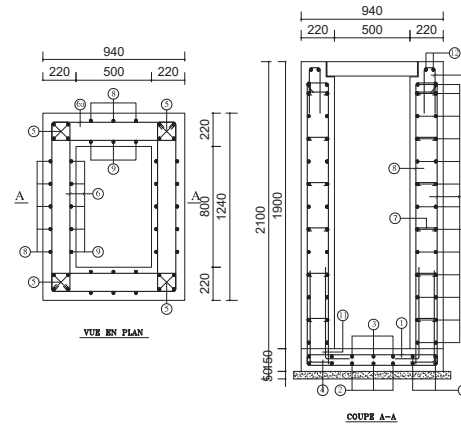
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| Émetteur / Issuer | Localisation / Location | Type d'ouvrage - Activité / Type of structure - Activity | Type de document / Type of document | N° / No. | Indice / Index |
| OCG, ISEC | BFM | ROUTE | DESSINS | G-EP-DR-005 | A |

REGARD 500x800x1800
(Catchbasin 500x800x1800)



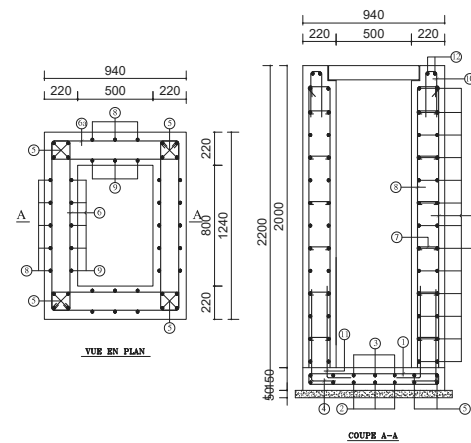
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|----------------------------|-----------------------|----|------------------------------|---------------------------|---|------------------|---------|--------------|
| | HA | DX | | | | | | |
| 1 | 10 | 10 | 178 | 12 | 1 | 10 | 17.80 | |
| 2 | 8 | 6 | 132 | 10 | 1 | 8 | 10.56 | |
| 3 | 8 | 6 | 132 | 10 | 1 | 8 | 10.56 | |
| 5 | 8 | 8 | 112 | - | 1 | 8 | 8.96 | |
| 6 | 24 | 8 | 248 | 20 | 2 | 48 | 119.04 | |
| 6a | 24 | 8 | 188 | 20 | 2 | 48 | 90.24 | |
| 7 | 5 | 6 | 25 | 30 | 2 | 10 | 2.50 | |
| 8 | 10 | 10 | 231 | 12 | 2 | 20 | 46.20 | |
| 9 | 10 | 10 | 217 | 12 | 2 | 20 | 43.40 | |
| 10 | 10 | 8 | 89 | 12 | 2 | 20 | 17.80 | |
| 12 | 2 | 8 | 112 | - | 2 | 4 | 4.48 | |

REGARD 500x800x1900
(Catchbasin 500x800x1900)



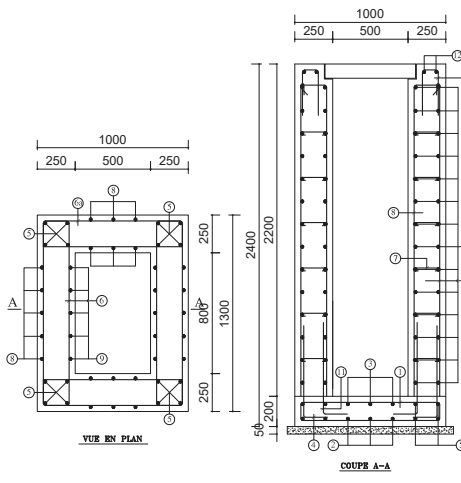
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|----------------------------|-----------------------|----|------------------------------|---------------------------|---|------------------|---------|--------------|
| | HA | DX | | | | | | |
| 1 | 10 | 10 | 186 | 12 | 1 | 10 | 18.60 | |
| 2 | 9 | 6 | 136 | 10 | 1 | 9 | 12.24 | |
| 3 | 9 | 6 | 136 | 10 | 1 | 9 | 12.24 | |
| 4 | 10 | 12 | 181 | 12 | 2 | 20 | 36.20 | |
| 5 | 8 | 8 | 112 | - | 1 | 8 | 8.96 | |
| 6 | 26 | 8 | 260 | 20 | 2 | 52 | 135.20 | |
| 6a | 26 | 8 | 200 | 20 | 2 | 52 | 104.00 | |
| 7 | 6 | 6 | 25 | 30 | 2 | 12 | 2.50 | |
| 8 | 10 | 12 | 208 | 12 | 2 | 20 | 41.60 | |
| 9 | 10 | 12 | 194 | 12 | 2 | 20 | 38.80 | |
| 10 | 10 | 8 | 89 | 12 | 2 | 20 | 17.80 | |
| 11 | 10 | 12 | 161 | 12 | 2 | 20 | 32.20 | |
| 12 | 2 | 8 | 116 | - | 2 | 4 | 4.64 | |

REGARD 500x800x2000
(Catchbasin 500x800x2000)



| Revers / Branches / Number | Diamètres / Diameters | | Long. barre / Long. Bar (cm) | Espacement / Spacing (cm) | Nbres. Éléms. Ident. / Nbrs. Total Bars | Long. Totale (m) | Schémas | Observations |
|----------------------------|-----------------------|----|------------------------------|---------------------------|---|------------------|---------|--------------|
| | HA | DX | | | | | | |
| 1 | 10 | 10 | 186 | 12 | 1 | 10 | 18.60 | |
| 2 | 9 | 6 | 136 | 10 | 1 | 9 | 12.24 | |
| 3 | 9 | 6 | 136 | 10 | 1 | 9 | 12.24 | |
| 4 | 10 | 12 | 181 | 12 | 2 | 20 | 36.20 | |
| 5 | 8 | 8 | 112 | - | 1 | 8 | 8.96 | |
| 6 | 26 | 8 | 260 | 20 | 2 | 52 | 135.20 | |
| 6a | 26 | 8 | 200 | 20 | 2 | 52 | 104.00 | |
| 7 | 6 | 6 | 25 | 30 | 2 | 12 | 3.00 | |
| 8 | 10 | 12 | 218 | 12 | 2 | 20 | 43.60 | |
| 9 | 10 | 12 | 204 | 12 | 2 | 20 | 40.80 | |
| 10 | 10 | 8 | 89 | 12 | 2 | 20 | 17.80 | |
| 11 | 10 | 12 | 161 | 12 | 2 | 20 | 32.20 | |
| 12 | 2 | 8 | 116 | - | 2 | 4 | 4.64 | |

REGARD 500x800x2200
(Catchbasin 500x800x2200)



| Revers / Branches / Number | Diamètres / Diameters | | Long. barre / Long. Bar (cm) | Espacement / Spacing (cm) | Nbres. Éléms. Ident. / Nbrs. Total Bars | Long. Totale (m) | Schémas | Observations |
|----------------------------|-----------------------|----|------------------------------|---------------------------|---|------------------|---------|--------------|
| | HA | DX | | | | | | |
| 1 | 8 | 10 | 188 | 15 | 1 | 8 | 15.04 | |
| 2 | 6 | 8 | 106 | 15 | 1 | 6 | 6.36 | |
| 3 | 6 | 8 | 106 | 15 | 1 | 6 | 6.36 | |
| 4 | 8 | 12 | 186 | 15 | 2 | 20 | 37.20 | |
| 5 | 8 | 8 | 112 | - | 1 | 8 | 8.96 | |
| 6 | 28 | 8 | 258 | 20 | 2 | 56 | 144.48 | |
| 6a | 28 | 8 | 198 | 20 | 2 | 56 | 110.88 | |
| 7 | 6 | 6 | 30 | 30 | 2 | 12 | 3.60 | |
| 8 | 8 | 12 | 241 | 15 | 2 | 16 | 38.56 | |
| 9 | 8 | 12 | 224 | 15 | 2 | 16 | 35.84 | |
| 10 | 10 | 8 | 92 | 12 | 2 | 20 | 18.40 | |
| 11 | 8 | 12 | 166 | 15 | 2 | 16 | 26.56 | |
| 12 | 2 | 8 | 122 | - | 2 | 4 | 4.88 | |

PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de l'Entretien Routier



AGENCE DE GESTION DES ROUTES



AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.



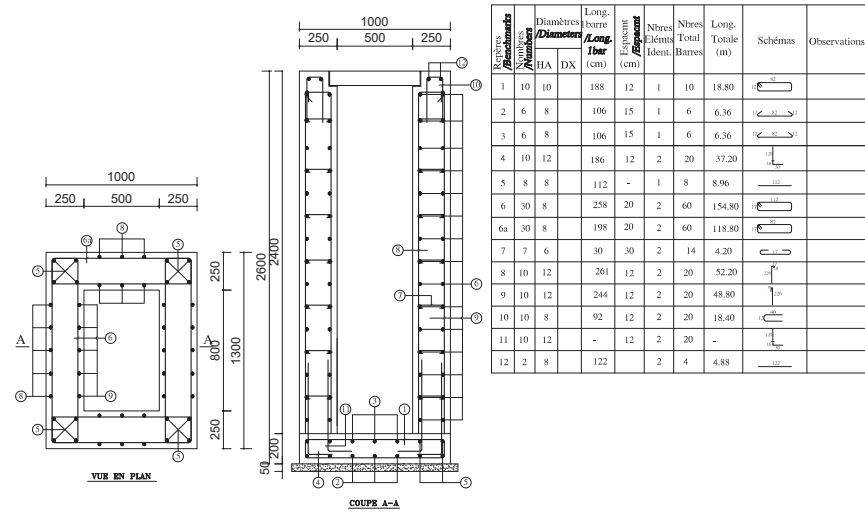
INGÉROSEC CORPORATION

REGARD - DETAIL D'ARMURES (TYPIQUE) (4)
(A1 E=25, A3 E=1:50)
CATCH PIT - TYPICAL REINFORCEMENT DETAILS (4)
(A1 S=25, A3 S=1:50)

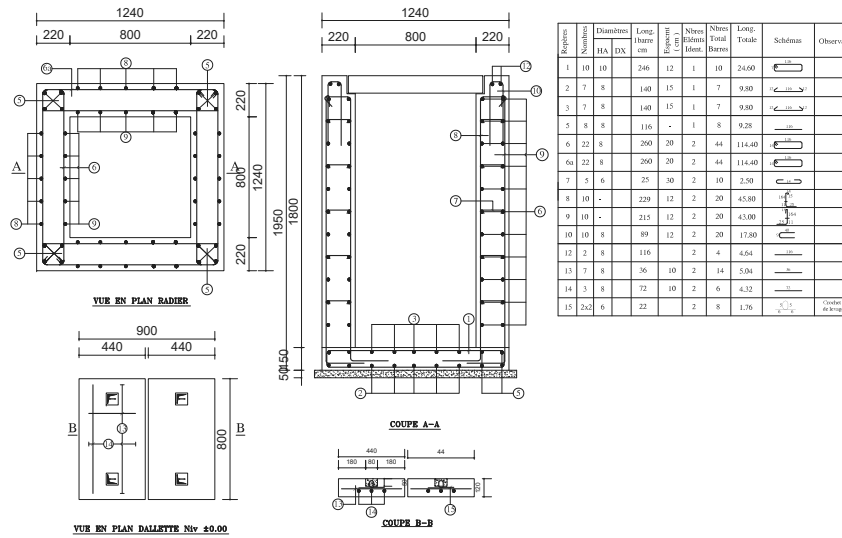
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| A | 27/12/18 | K.T | T.N | T.K | PREMIERE VERSION | EXT |

| Format | A3 | Fichier / File | | Emetteur / Issuer | | Localisation / Location | | Type d'ouvrage - Activité / Type of structure - Activity | ROUTE | Type de document / Type of document | DESSINS | N° / No. | G-EP-DR-006 | Indice / Index | A |
|--------|----|----------------|--|-------------------|--|-------------------------|--|--|-------|-------------------------------------|---------|----------|-------------|----------------|---|
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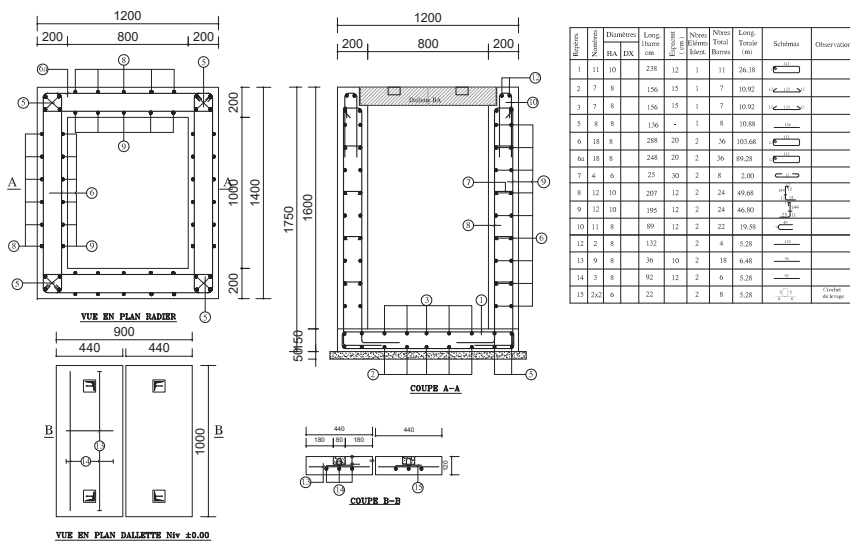
REGARD 500x800x2400
(Catchbasin 500x800x2400)



REGARD 800x800x1800
(Catchbasin 800x800x1800)



REGARD 800x1000x1600
(Catchbasin 800x1000x1600)



PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN

REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de l'Entretien Routier

AGENCE DE GESTION DES ROUTES

JICA AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY

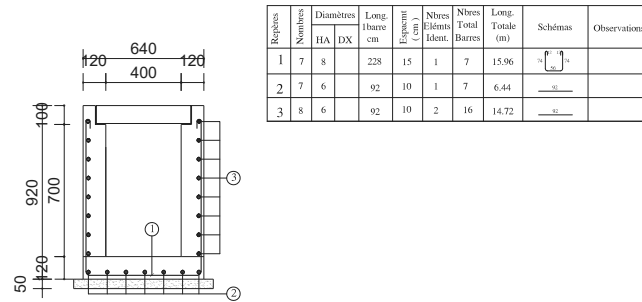
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
INGÉROSEC CORPORATION

REGARD - DETAIL D'ARMURES (TYPIQUE) (5)
(A1 E=25, A3 E=1:50)
CATCH PIT - TYPICAL REINFORCEMENT DETAILS (5)
(A1 S=25, A3 S=1:50)

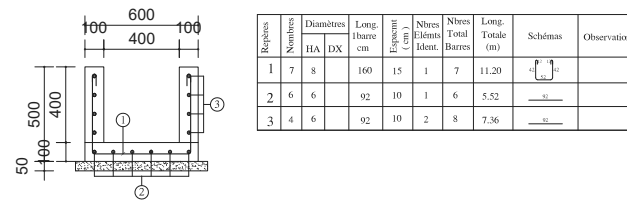
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|------------------|-------------|---------------------------|--------------------------|----------------------------|---------------------------|-----------------|
| A | 27/12/18 | K.T | T.N | T.K | PREMIERE VERSION | EXT |
| | | | | | | |
| | | | | | | |

| | | | | | |
|-------------------|-------------------------|--|-------------------------------------|-------------|----------------|
| Format | A3 | Fichier/ File : | | | |
| Émetteur / Issuer | Localisation / Location | Type d'ouvrage - Activité / Type of structure - Activity | Type de document / Type of document | N° / No. | Indice / Index |
| OCG, ISEC | BFM | ROUTE | DESSINS | G-EP-DR-007 | A |

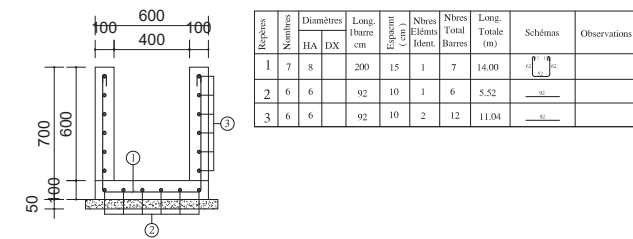
CANIVEAU EN U 400x700
(U-ditch 400x700)



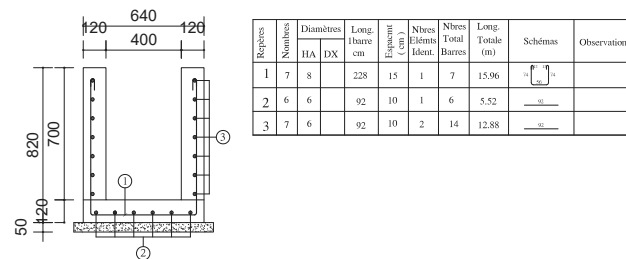
CANIVEAU EN U 400x400
(U-ditch 400x400)



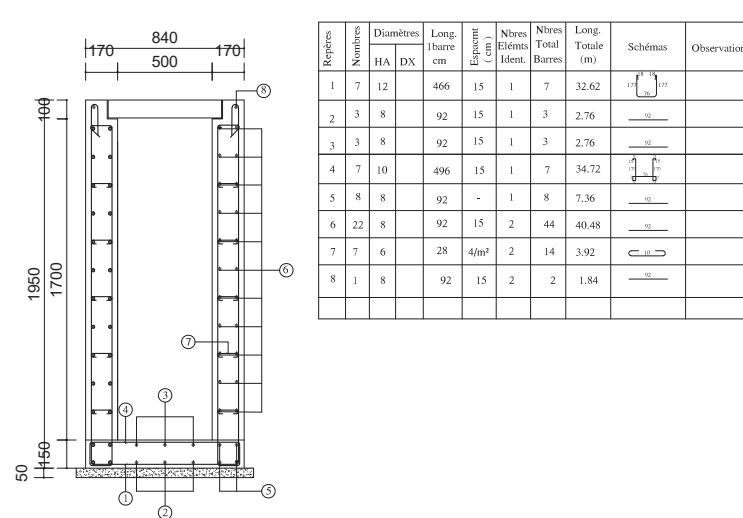
CANIVEAU EN U 400x600
(U-ditch 400x600)



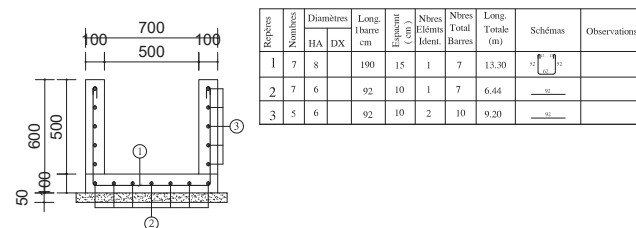
CANIVEAU EN U 400x700
(U-ditch 400x700)



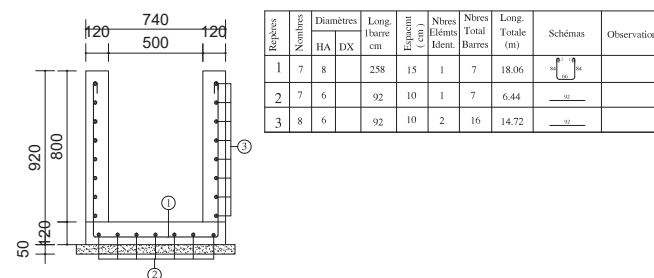
CANIVEAU EN U 500x1700
(U-ditch 500x1700)



CANIVEAU EN U 500x500
(U-ditch 500x500)



CANIVEAU EN U 500x800
(U-ditch 500x800)



PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE
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l'Entretien Routier



AGENCE DE GESTION DES ROUTES



AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.



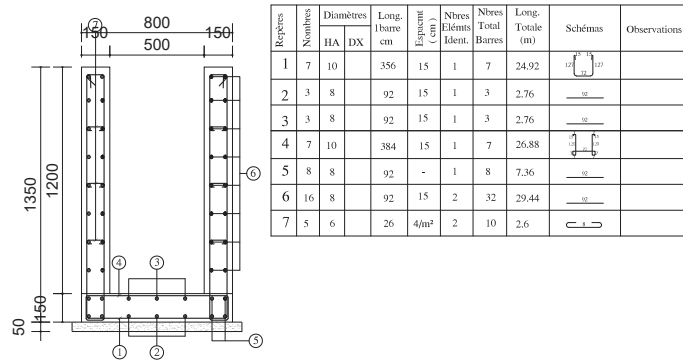
INGÉROSEC CORPORATION

CANIVEAU EN U - DETAIL D'ARMURES (TYPIQUE)(1)
(A1 E=20, A3 E=1:40)
U DITCH - TYPICAL REINFORCEMENT DETAILS(1)
(A1 S=20, A3 S=1:40)

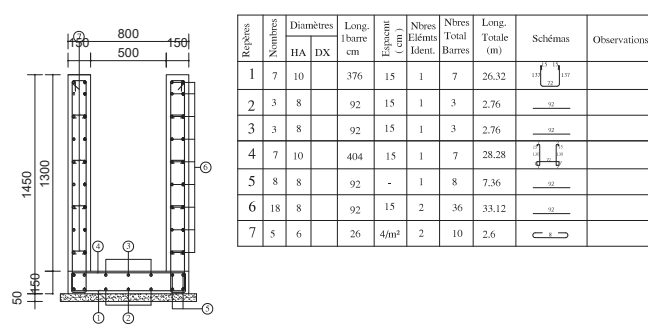
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|------------------|---------------|-----------------------------|----------------------------|------------------------------|-----------------------------|-------------------|
| A | 27/12/18 | K.T | T.N | T.K | PREMIERE VERSION | EXT |
| | | | | | | |
| | | | | | | |

| Format | A3 | Fichier/ File : | | | |
|---------------------|---------------------------|--|---------------------------------------|-------------|------------------|
| Emetteur /Issuer | Localisation /Location | Type d'ouvrage -Activité /Type of structure -Activity | Type de document /Type of document | N° /No. | Indice /Index |
| OCG, ISEC | BFM | ROUTE | DESSINS | G-EP-DR-008 | A |

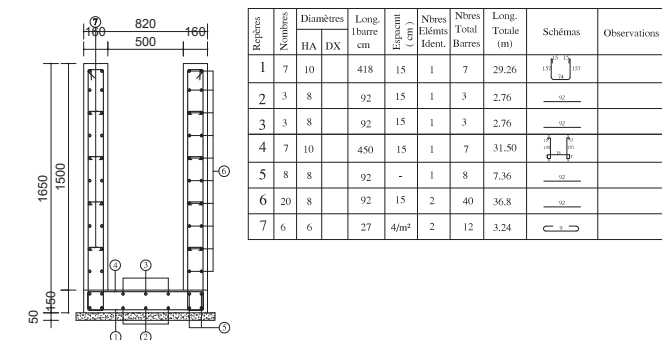
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(U-ditch 500x1200)



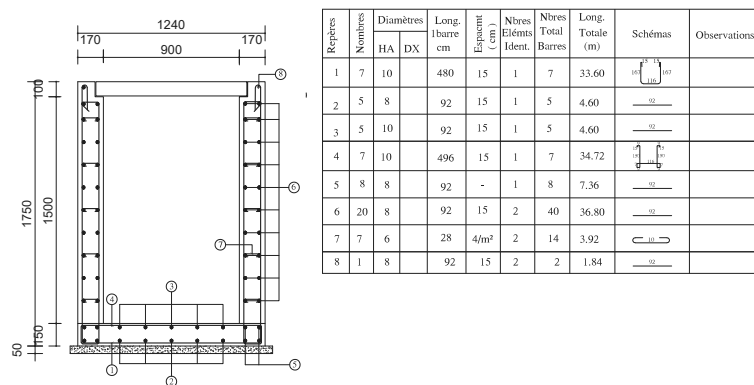
CANIVEAU EN U 500x1300
(U-ditch 500x1300)



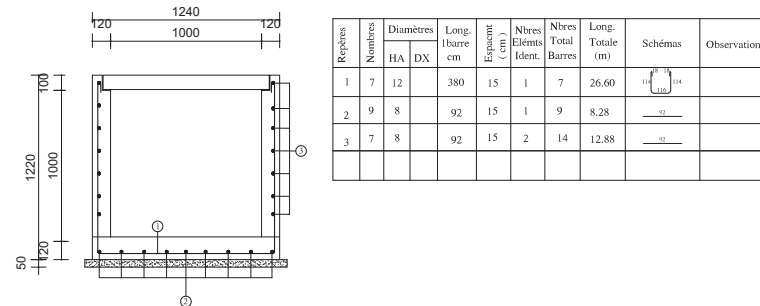
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(U-ditch 500x1500)



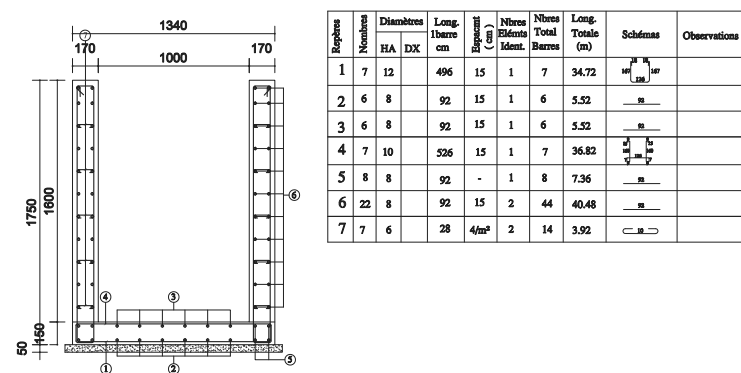
CANIVEAU EN U 900x1500
(U-ditch 900x1500)



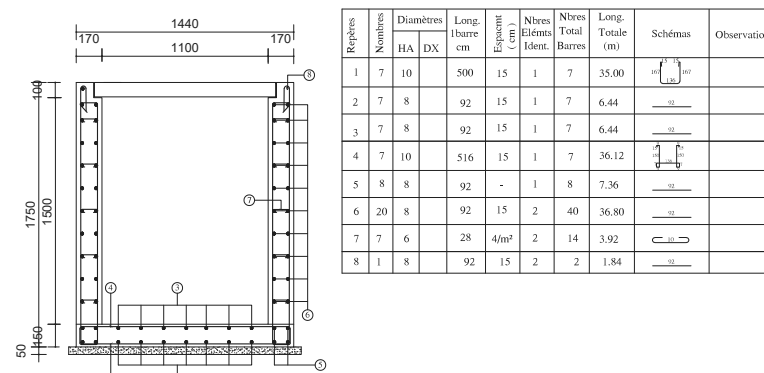
CANIVEAU EN U 1000x1000
(U-ditch 1000x1000)



CANIVEAU EN U 1000x1600
(U-ditch 1000x1600)



CANIVEAU EN U 1100x1500
(U-ditch 1100x1500)



PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de l'Entretien Routier



AGENCE DE GESTION DES ROUTES



AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.



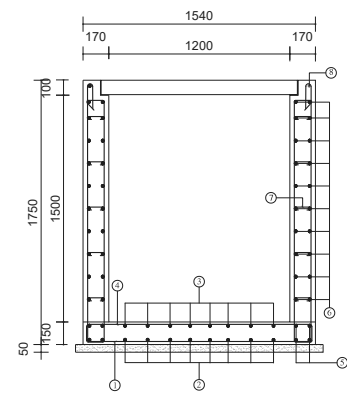
INGÉROSEC CORPORATION

CANIVEAU EN U - DETAIL D'ARMURES (TYPIQUE)(2)
(A1 E=20, A3 E=1:40)
U DITCH - TYPICAL REINFORCEMENT DETAILS(2)
(A1 S=20, A3 S=1:40)

| Indice / Révis | Date / Date | Préparé par / Prepared by | Vérifié par / Checked by | Approuvé par / Approved by | Description / Description | Statut / Status |
|----------------|-------------|---------------------------|--------------------------|----------------------------|---------------------------|-----------------|
| A | 27/12/18 | K.T | T.N | T.K | PREMIERE VERSION | EXT |

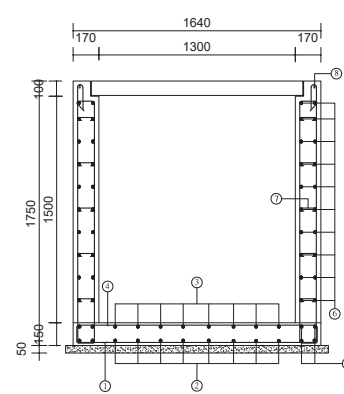
| Format | A3 | Fichier/ File : | | | |
|-------------------|-------------------------|--|-------------------------------------|-------------|----------------|
| Émetteur / Issuer | Localisation / Location | Type d'ouvrage - Activité / Type of structure - Activity | Type de document / Type of document | N° / No. | Indice / Index |
| OCG, ISEC | BFM | ROUTE | DESSINS | G-EP-DR-009 | A |

CANIVEAU EN U 1200x1500
(U-ditch 1200x1500)



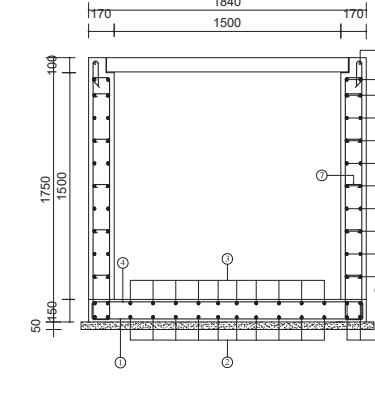
| Repères Nombres | Diamètres | | Long. barre cm | Espacem (cm) | Nbrs Elémts Ident. | Nbrs Total Barres | Long. Totale (m) | Schémas | Observations |
|-----------------|-----------|----|----------------|--------------|--------------------|-------------------|------------------|---------|--------------|
| | HA | DX | | | | | | | |
| 1 | 7 | 10 | 510 | 15 | 1 | 7 | 35.70 | | |
| 2 | 8 | 8 | 92 | 15 | 1 | 8 | 7.36 | | |
| 3 | 8 | 8 | 92 | 15 | 1 | 8 | 7.36 | | |
| 4 | 7 | 10 | 526 | 15 | 1 | 7 | 36.82 | | |
| 5 | 8 | 8 | 92 | - | 1 | 8 | 7.36 | | |
| 6 | 20 | 8 | 92 | 15 | 2 | 40 | 36.80 | | |
| 7 | 7 | 6 | 28 | 4/m² | 2 | 14 | 3.92 | | |
| 8 | 1 | 8 | 92 | 15 | 2 | 2 | 1.84 | | |

CANIVEAU EN U 1300x1500
(U-ditch 1300x1500)



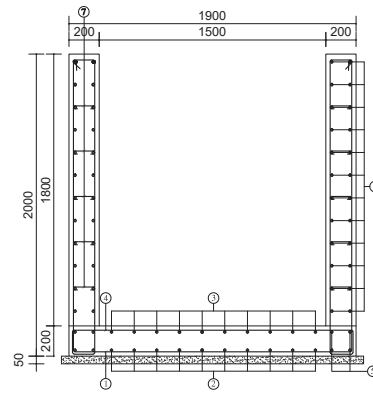
| Repères Nombres | Diamètres | | Long. barre cm | Espacem (cm) | Nbrs Elémts Ident. | Nbrs Total Barres | Long. Totale (m) | Schémas | Observations |
|-----------------|-----------|----|----------------|--------------|--------------------|-------------------|------------------|---------|--------------|
| | HA | DX | | | | | | | |
| 1 | 7 | 10 | 520 | 15 | 1 | 7 | 36.40 | | |
| 2 | 8 | 8 | 92 | 15 | 1 | 8 | 7.36 | | |
| 3 | 8 | 8 | 92 | 15 | 1 | 8 | 7.36 | | |
| 4 | 7 | 10 | 336 | 15 | 1 | 7 | 37.52 | | |
| 5 | 8 | 8 | 92 | - | 1 | 8 | 7.36 | | |
| 6 | 20 | 8 | 92 | 15 | 2 | 40 | 36.80 | | |
| 7 | 7 | 6 | 28 | 4/m² | 2 | 14 | 3.92 | | |
| 8 | 1 | 8 | 92 | 15 | 2 | 2 | 1.84 | | |

CANIVEAU EN U 1500x1500
(U-ditch 1500x1500)



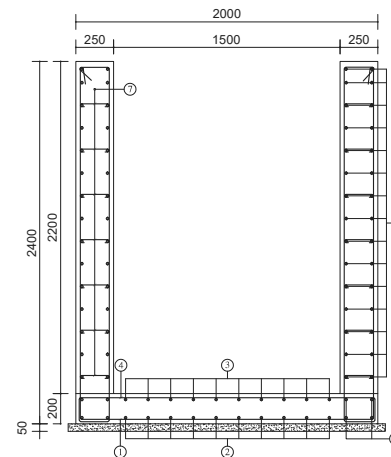
| Repères Nombres | Diamètres | | Long. barre cm | Espacem (cm) | Nbrs Elémts Ident. | Nbrs Total Barres | Long. Totale (m) | Schémas | Observations |
|-----------------|-----------|----|----------------|--------------|--------------------|-------------------|------------------|---------|--------------|
| | HA | DX | | | | | | | |
| 1 | 7 | 10 | 540 | 15 | 1 | 7 | 37.80 | | |
| 2 | 10 | 8 | 92 | 15 | 1 | 10 | 9.20 | | |
| 3 | 10 | 8 | 92 | 15 | 1 | 10 | 9.20 | | |
| 4 | 7 | 10 | 556 | 15 | 1 | 7 | 38.92 | | |
| 5 | 8 | 8 | 92 | - | 1 | 8 | 7.36 | | |
| 6 | 20 | 8 | 92 | 15 | 2 | 40 | 36.80 | | |
| 7 | 7 | 6 | 28 | 4/m² | 2 | 14 | 3.92 | | |
| 8 | 1 | 8 | 92 | 15 | 2 | 2 | 1.84 | | |

CANIVEAU EN U 1500x1800
(U-ditch 1500x1800)



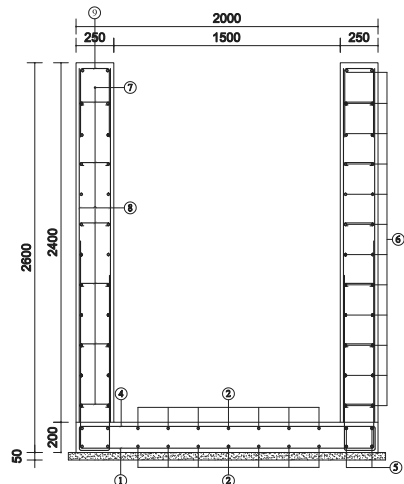
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|-----------------|-----------|----|----------------|--------------|--------------------|-------------------|------------------|---------|--------------|
| | HA | DX | | | | | | | |
| 1 | 7 | 12 | 602 | 15 | 1 | 7 | 42.17 | | |
| 2 | 10 | 8 | 92 | 15 | 1 | 10 | 9.20 | | |
| 3 | 10 | 8 | 92 | 15 | 1 | 10 | 9.20 | | |
| 4 | 7 | 10 | 644 | 15 | 1 | 7 | 45.08 | | |
| 5 | 8 | 8 | 92 | - | 1 | 8 | 7.36 | | |
| 6 | 24 | 8 | 92 | 15 | 2 | 48 | 44.16 | | |
| 7 | 7 | 6 | 30 | 4/m² | 2 | 14 | 4.20 | | |

CANIVEAU EN U 1500x2200
(U-ditch 1500x2200)



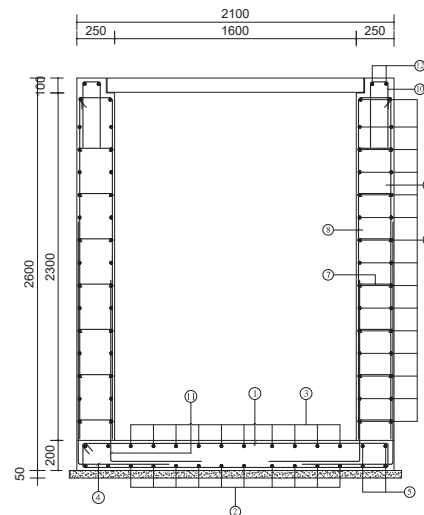
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|-----------------|-----------|----|----------------|--------------|--------------------|-------------------|------------------|---------|--------------|
| | HA | DX | | | | | | | |
| 1 | 7 | 12 | 692 | 15 | 1 | 7 | 48.44 | | |
| 2 | 10 | 8 | 92 | 15 | 1 | 10 | 9.20 | | |
| 3 | 10 | 8 | 92 | 15 | 1 | 10 | 9.20 | | |
| 4 | 7 | 10 | 754 | 15 | 1 | 7 | 52.78 | | |
| 5 | 8 | 8 | 92 | - | 1 | 8 | 7.36 | | |
| 6 | 30 | 8 | 92 | 15 | 2 | 60 | 55.20 | | |
| 7 | 9 | 6 | 35 | 4/m² | 2 | 18 | 6.30 | | |

CANIVEAU EN U 1500x2400
(U-ditch 1500x2400)



| Repères Nombres | Diamètres | | Long. barre cm | Espacem (cm) | Nbrs Elémts Ident. | Nbrs Total Barres | Long. Totale (m) | Schémas | Observations |
|-----------------|-----------|----|----------------|--------------|--------------------|-------------------|------------------|---------|--------------|
| | HA | DX | | | | | | | |
| 1 | 9 | 12 | 464 | 12 | 1 | 9 | 41.76 | | |
| 2 | 7 | 8 | 92 | 20 | 1 | 7 | 6.44 | | |
| 3 | 7 | 8 | 92 | 20 | 1 | 7 | 6.44 | | |
| 4 | 9 | 10 | 450 | 12 | 1 | 9 | 40.50 | | |
| 5 | 8 | 8 | 92 | - | 1 | 8 | 7.36 | | |
| 6 | 24 | 8 | 92 | 20 | 2 | 48 | 44.16 | | |
| 7 | 10 | 6 | 35 | 4/m² | 2 | 20 | 7.00 | | |
| 8 | 2x9 | 10 | 236 | 12 | 2 | 36 | 84.96 | | |
| 9 | 9 | 8 | 97 | 12 | 2 | 18 | 17.46 | | |

CANIVEAU EN U 1600x2300
(U-ditch 1600x2300)



| Repères Nombres | Diamètres | | Long. barre cm | Espacem (cm) | Nbrs Elémts Ident. | Nbrs Total Barres | Long. Totale (m) | Schémas | Observations |
|-----------------|-----------|----|----------------|--------------|--------------------|-------------------|------------------|---------|--------------|
| | HA | DX | | | | | | | |
| 1 | 9 | 10 | 428 | 12 | 1 | 9 | 38.52 | | |
| 2 | 10 | 8 | 92 | 15 | 1 | 10 | 9.20 | | |
| 3 | 10 | 8 | 92 | 15 | 1 | 10 | 9.20 | | |
| 4 | 9 | 12 | 196 | 12 | 2 | 18 | 35.28 | | |
| 5 | 8 | 8 | 92 | - | 1 | 8 | 7.36 | | |
| 6 | 30 | 8 | 92 | 20 | 2 | 60 | 55.20 | | |
| 7 | 12 | 6 | 40 | 4/m² | 2 | 24 | 9.60 | | |
| 8 | 2x9 | 10 | 258 | 12 | 2 | 36 | 92.88 | | |
| 9 | 2x9 | 10 | 241 | 12 | 2 | 36 | 86.76 | | |
| 10 | 9 | 8 | 92 | 12 | 2 | 18 | 16.56 | | |
| 11 | 9 | 10 | 176 | 12 | 2 | 18 | 31.68 | | |
| 12 | 2 | 8 | 92 | 12 | 2 | 4 | 3.68 | | |

PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de l'Entretien Routier



AGENCE DE GESTION DES ROUTES



AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.



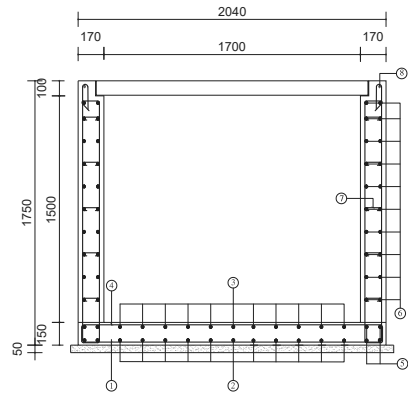
INGÉROSEC CORPORATION

CANIVEAU EN U - DETAIL D'ARMURES (TYPIQUE)(3)
(A1 E=20, A3 E=1:40)
U DITCH - TYPICAL REINFORCEMENT DETAILS(3)
(A1 S=20, A3 S=1:40)

| Indice | Date | Préparé par | Vérifié par | Approuvé par | Description | Statut |
|--------|----------|-------------|-------------|--------------|------------------|--------|
| Andar | Date | Prepared by | Checked by | Approved by | Description | Status |
| A | 27/12/18 | K.T | T.N | T.K | PREMIERE VERSION | EXT |

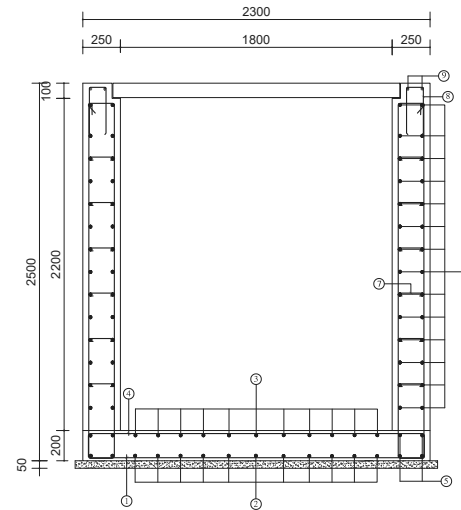
| Format | A3 | Fichier/ File : | | | |
|-----------|--------------|------------------------------|------------------|-------------|--------|
| Emetteur | Localisation | Type d'ouvrage - Activité | Type de document | N° | Indice |
| Author | Location | Type of structure - Activity | Type of document | No. | Index |
| OCG, ISEC | BFM | ROUTE | DESSINS | G-EP-DR-010 | A |

CANIVEAU EN U 1700x1500
(U-ditch 1700x1500)



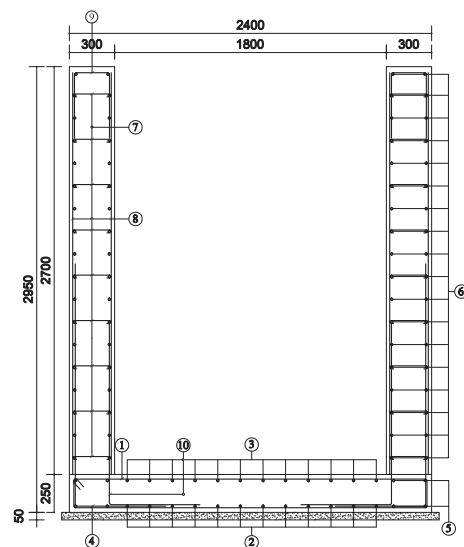
| Repères Nombres | Diamètres | | Long. lbarre cm | Espacement (cm) | Nbres Eléments Ident. | Nbres Total Barres | Long. Totale (m) | Schémas | Observations |
|-----------------|-----------|----|-----------------|-----------------|-----------------------|--------------------|------------------|---------|--------------|
| | HA | DX | | | | | | | |
| 1 | 7 | 10 | 560 | 15 | 1 | 7 | 39.20 | | |
| 2 | 11 | 8 | 92 | 15 | 1 | 11 | 10.12 | | |
| 3 | 11 | 8 | 92 | 15 | 1 | 11 | 10.12 | | |
| 4 | 7 | 10 | 576 | 15 | 1 | 7 | 40.32 | | |
| 5 | 8 | 8 | 92 | - | 1 | 8 | 7.36 | | |
| 6 | 20 | 8 | 92 | 15 | 2 | 40 | 36.80 | | |
| 7 | 7 | 6 | 28 | 4/m² | 2 | 14 | 3.92 | | |
| 8 | 1 | 8 | 92 | 15 | 2 | 2 | 1.84 | | |

CANIVEAU EN U 1800x2200
(U-ditch 1800x2200)



| Repères Nombres | Diamètres | | Long. lbarre cm | Espacement (cm) | Nbres Eléments Ident. | Nbres Total Barres | Long. Totale (m) | Schémas | Observations |
|-----------------|-----------|----|-----------------|-----------------|-----------------------|--------------------|------------------|---------|--------------|
| | HA | DX | | | | | | | |
| 1 | 7 | 12 | 742 | 15 | 1 | 7 | 51.94 | | |
| 2 | 11 | 8 | 92 | 15 | 1 | 11 | 10.12 | | |
| 3 | 11 | 8 | 92 | 15 | 1 | 11 | 10.12 | | |
| 4 | 7 | 10 | 774 | 15 | 1 | 7 | 54.18 | | |
| 5 | 8 | 8 | 92 | - | 1 | 8 | 7.36 | | |
| 6 | 28 | 8 | 92 | 15 | 2 | 56 | 51.52 | | |
| 7 | 7 | 6 | 28 | 4/m² | 2 | 14 | 3.92 | | |
| 8 | 7 | 8 | 128 | 15 | 2 | 14 | 17.92 | | |
| 9 | 2 | 8 | 92 | 15 | 2 | 4 | 3.68 | | |

CANIVEAU EN U 1800x2700
(U-ditch 1800x2700)



| Repères Nombres | Diamètres | | Long. lbarre cm | Espacement (cm) | Nbres Eléments Ident. | Nbres Total Barres | Long. Totale (m) | Schémas | Observations |
|-----------------|-----------|----|-----------------|-----------------|-----------------------|--------------------|------------------|---------|--------------|
| | HA | DX | | | | | | | |
| 1 | 9 | 12 | 534 | 12 | 1 | 9 | 48.06 | | |
| 2 | 12 | 8 | 92 | 15 | 1 | 12 | 11.04 | | |
| 3 | 12 | 8 | 92 | 15 | 1 | 12 | 11.04 | | |
| 4 | 9 | 14 | 221 | 12 | 2 | 18 | 39.78 | | |
| 5 | 8 | 8 | 92 | - | 1 | 8 | 7.36 | | |
| 6 | 36 | 8 | 92 | 20 | 2 | 72 | 66.24 | | |
| 7 | 11 | 6 | 40 | 4/m² | 2 | 22 | 8.80 | | |
| 8 | 2x9 | 10 | 266 | 12 | 2 | 36 | 95.76 | | |
| 9 | 9 | 8 | 102 | 12 | 2 | 18 | 18.36 | | |
| 10 | 9 | 10 | 181 | 12 | 2 | 18 | 32.58 | | |

PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de
l'Entretien Routier



AGENCE DE GESTION DES ROUTES



AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY



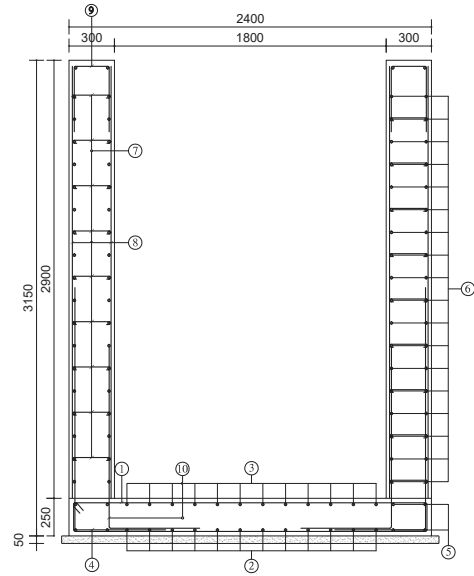
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
INGÉROSEC CORPORATION

CANIVEAU EN U - DETAIL D'ARMURES (TYPIQUE)(4)
(A1 E=20, A3 E=1:40)
U DITCH - TYPICAL REINFORCEMENT DETAILS(4)
(A1 S=20, A3 S=1:40)

| Indice / Réviser | Date / Date | Préparé par / Prepared by | Vérifié par / Checked by | Approuvé par / Approved by | Description / Description | Statut / Status |
|------------------|-------------|---------------------------|--------------------------|----------------------------|---------------------------|-----------------|
| A | 27/12/18 | K.T | T.N | T.K | PREMIERE VERSION | EXT |
| | | | | | | |

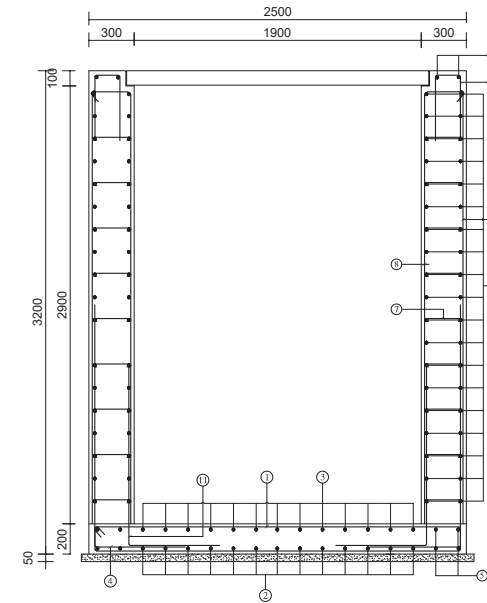
| Format | A3 | Fichier/ File : | Emetteur / Author | Localisation / Location | Type d'ouvrage - Activité / Type of structure - Activity | Type de document / Type of document | N° / No. | Indice / Index |
|--------|----|-----------------|-------------------|-------------------------|--|-------------------------------------|-------------|----------------|
| | | | OCG, ISEC | BFM | ROUTE | DESSINS | G-EP-DR-011 | A |

CANIVEAU EN U 1800x2900
(U-ditch 1800x2900)



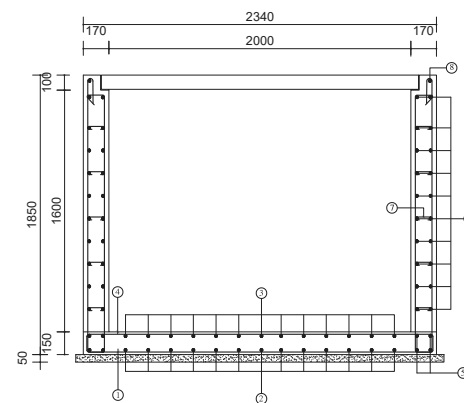
| Repères | Nombres | Diamètres | | Long. 1 barre cm | Espacim (cm) | Nbres Eléments Ident. | Nbres Total Barres | Long. Totale (m) | Schémas | Observations |
|---------|---------|-----------|----|------------------|--------------|-----------------------|--------------------|------------------|-----------|--------------|
| | | HA | DX | | | | | | | |
| 1 | 9 | 12 | | 534 | 12 | 1 | 9 | 48.06 | 17 | |
| 2 | 12 | 8 | | 92 | 15 | 1 | 12 | 11.04 | 92 | |
| 3 | 12 | 8 | | 92 | 15 | 1 | 12 | 11.04 | 92 | |
| 4 | 9 | 14 | | 221 | 12 | 2 | 18 | 39.78 | 140 21 | |
| 5 | 8 | 8 | | 92 | - | 1 | 8 | 7.36 | 92 | |
| 6 | 38 | 8 | | 92 | 20 | 2 | 76 | 69.92 | 92 | |
| 7 | 12 | 6 | | 40 | 4/m² | 2 | 24 | 9.60 | 22 | |
| 8 | 2x9 | 10 | | 286 | 12 | 2 | 36 | 102.96 | 286 | |
| 9 | 9 | 8 | | 102 | 12 | 2 | 18 | 18.36 | 22 | |
| 10 | 9 | 10 | | 181 | 12 | 2 | 18 | 32.58 | 100 21 | |

CANIVEAU EN U 1900x2900
(U-ditch 1900x2900)



| Repères | Nombres | Diamètres | | Long. 1 barre cm | Espacim (cm) | Nbres Eléments Ident. | Nbres Total Barres | Long. Totale (m) | Schémas | Observations |
|---------|---------|-----------|----|------------------|--------------|-----------------------|--------------------|------------------|-----------|--------------|
| | | HA | DX | | | | | | | |
| 1 | 9 | 12 | | 508 | 12 | 1 | 9 | 45.72 | 12 | |
| 2 | 13 | 8 | | 92 | 15 | 1 | 13 | 11.96 | 92 | |
| 3 | 13 | 8 | | 92 | 15 | 1 | 13 | 11.96 | 92 | |
| 4 | 9 | 14 | | 216 | 12 | 2 | 18 | 38.88 | 140 14 | |
| 5 | 8 | 8 | | 92 | - | 1 | 8 | 7.36 | 92 | |
| 6 | 38 | 8 | | 92 | 20 | 2 | 76 | 69.92 | 92 | |
| 7 | 12 | 6 | | 40 | 4/m² | 2 | 24 | 9.60 | 22 | |
| 8 | 2x9 | 12 | | 330 | 12 | 2 | 36 | 118.80 | 286 | |
| 9 | 2x9 | 12 | | 308 | 12 | 2 | 36 | 110.88 | 290 | |
| 10 | 9 | 8 | | 114 | 12 | 2 | 18 | 20.52 | 17 | |
| 11 | 9 | 12 | | 196 | 12 | 2 | 18 | 35.28 | 120 14 | |
| 12 | 2 | 8 | | 92 | 15 | 2 | 4 | 3.68 | 92 | |

CANIVEAU EN U 2000x1600
(U-ditch 2000x1600)



| Repères | Nombres | Diamètres | | Long. 1 barre cm | Espacim (cm) | Nbres Eléments Ident. | Nbres Total Barres | Long. Totale (m) | Schémas | Observations |
|---------|---------|-----------|----|------------------|--------------|-----------------------|--------------------|------------------|------------|--------------|
| | | HA | DX | | | | | | | |
| 1 | 8 | 10 | | 610 | 15 | 1 | 8 | 48.80 | 170 170 | |
| 2 | 13 | 8 | | 92 | 15 | 1 | 13 | 11.96 | 92 | |
| 3 | 13 | 8 | | 92 | 15 | 1 | 13 | 11.96 | 92 | |
| 4 | 8 | 10 | | 626 | 12 | 1 | 8 | 50.08 | 140 140 | |
| 5 | 8 | 8 | | 92 | - | 1 | 8 | 7.36 | 92 | |
| 6 | 20 | 8 | | 92 | 15 | 2 | 40 | 36.80 | 92 | |
| 7 | 7 | 6 | | 28 | 4/m² | 2 | 14 | 3.92 | 10 | |
| 8 | 1 | 8 | | 92 | 15 | 2 | 2 | 1.84 | 92 | |

PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de l'Entretien Routier



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AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
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ORIENTAL CONSULTANTS GLOBAL CO., LTD.



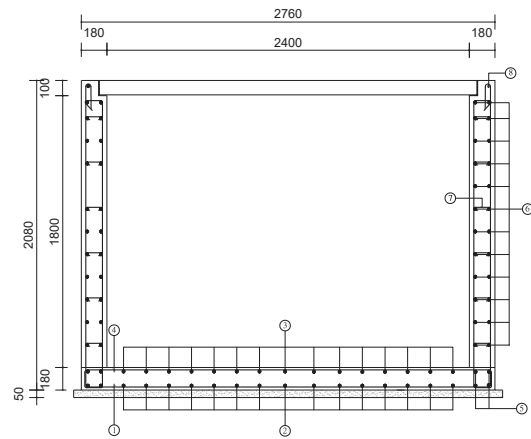
INGÉROSEC CORPORATION

CANIVEAU EN U - DETAIL D'ARMURES (TYPIQUE)(5)
(A1 E=20, A3 E=1:40)
U DITCH - TYPICAL REINFORCEMENT DETAILS(5)
(A1 S=20, A3 S=1:40)

| Indice / Index | Date / Date | Préparé par / Prepared by | Vérifié par / Checked by | Approuvé par / Approved by | Description / Description | Statut / Status |
|----------------|-------------|---------------------------|--------------------------|----------------------------|---------------------------|-----------------|
| A | 27/12/18 | K.T | T.N | T.K | PREMIERE VERSION | EXT |

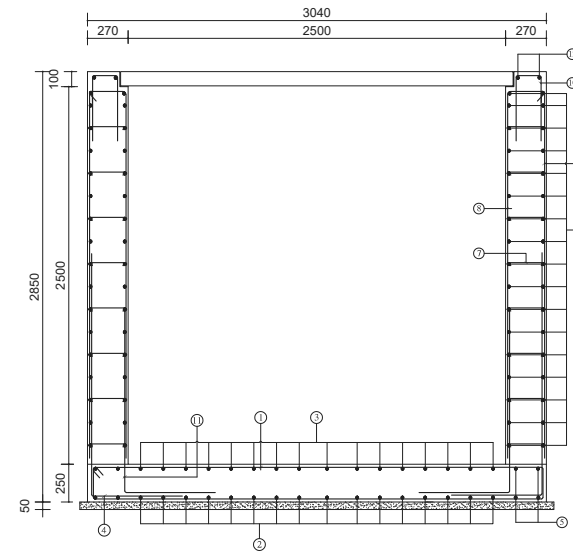
| Format | A3 | Fichier/ File : | Emetteur / Issuer | Localisation / Location | Type d'ouvrage -Activité / Type of structure -Activity | Type de document / Type of document | N° / No. | Indice / Index |
|--------|----|-----------------|-------------------|-------------------------|--|-------------------------------------|-------------|----------------|
| | | | OCG, ISEC | BFM | ROUTE | DESSINS | G-EP-DR-012 | A |

CANIVEAU EN U 2400x1800
(U-ditch 2400x1800)



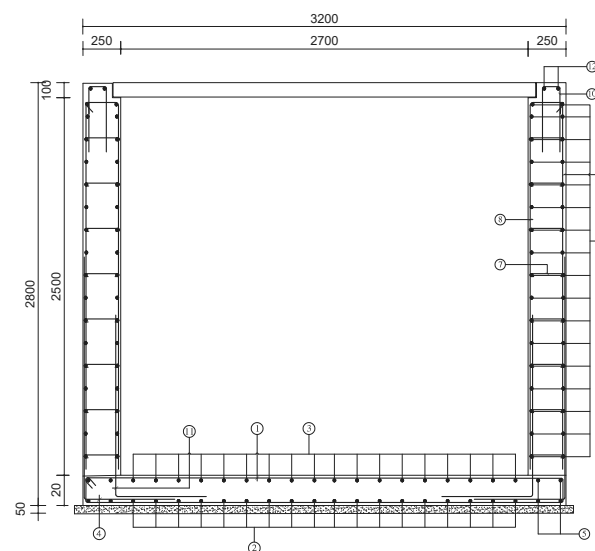
| Repères | Nombres | Diamètres | | Long. lbarre cm | Espacim (cm) | Nbres Elémts Ident. | Nbres Total Barres | Long. Totale (m) | Schémas | Observations |
|---------|---------|-----------|----|-----------------|--------------|---------------------|--------------------|------------------|---------|--------------|
| | | HA | DX | | | | | | | |
| 1 | 7 | 12 | | 704 | 15 | 1 | 7 | 49.28 | | |
| 2 | 15 | 8 | | 92 | 15 | 1 | 15 | 13.80 | | |
| 3 | 15 | 8 | | 92 | 15 | 1 | 15 | 13.80 | | |
| 4 | 7 | 10 | | 708 | 15 | 1 | 7 | 49.56 | | |
| 5 | 8 | 8 | | 92 | - | 1 | 8 | 7.36 | | |
| 6 | 24 | 8 | | 92 | 15 | 2 | 48 | 44.16 | | |
| 7 | 7 | 6 | | 28 | 4/m² | 2 | 14 | 3.92 | | |
| 8 | 1 | 8 | | 92 | 15 | 2 | 2 | 1.84 | | |

CANIVEAU EN U 2500x2500
(U-ditch 2500x2500)



| Repères | Nombres | Diamètres | | Long. lbarre cm | Espacim (cm) | Nbres Elémts Ident. | Nbres Total Barres | Long. Totale (m) | Schémas | Observations |
|---------|---------|-----------|----|-----------------|--------------|---------------------|--------------------|------------------|---------|--------------|
| | | HA | DX | | | | | | | |
| 1 | 9 | 10 | | 650 | 12 | 1 | 9 | 58.50 | | |
| 2 | 16 | 8 | | 92 | 15 | 1 | 16 | 14.72 | | |
| 3 | 16 | 8 | | 92 | 15 | 1 | 16 | 14.72 | | |
| 4 | 9 | 12 | | 201 | 12 | 2 | 18 | 36.18 | | |
| 5 | 8 | 8 | | 92 | - | 1 | 8 | 7.36 | | |
| 6 | 34 | 8 | | 92 | 20 | 2 | 68 | 62.56 | | |
| 7 | 12 | 6 | | 40 | 4/m² | 2 | 24 | 9.60 | | |
| 8 | 2x9 | 10 | | 284 | 12 | 2 | 36 | 102.24 | | |
| 9 | 2x9 | 10 | | 265 | 12 | 2 | 36 | 95.40 | | |
| 10 | 9 | 8 | | 94 | 12 | 2 | 18 | 16.92 | | |
| 11 | 9 | 10 | | 181 | 12 | 2 | 18 | 32.58 | | |
| 12 | 2 | 8 | | 92 | 12 | 2 | 4 | 3.68 | | |

CANIVEAU EN U 2700x2500
(U-ditch 2700x2500)



| Repères | Nombres | Diamètres | | Long. lbarre cm | Espacim (cm) | Nbres Elémts Ident. | Nbres Total Barres | Long. Totale (m) | Schémas | Observations |
|---------|---------|-----------|----|-----------------|--------------|---------------------|--------------------|------------------|---------|--------------|
| | | HA | DX | | | | | | | |
| 1 | 9 | 10 | | 650 | 12 | 1 | 9 | 58.50 | | |
| 2 | 18 | 8 | | 92 | 15 | 1 | 18 | 16.56 | | |
| 3 | 18 | 8 | | 92 | 15 | 1 | 18 | 16.56 | | |
| 4 | 9 | 12 | | 196 | 12 | 2 | 18 | 35.28 | | |
| 5 | 8 | 8 | | 92 | - | 1 | 8 | 7.36 | | |
| 6 | 34 | 8 | | 92 | 20 | 2 | 68 | 62.56 | | |
| 7 | 12 | 6 | | 40 | 4/m² | 2 | 24 | 9.60 | | |
| 8 | 2x9 | 10 | | 278 | 12 | 2 | 36 | 100.08 | | |
| 9 | 2x9 | 10 | | 261 | 12 | 2 | 36 | 93.96 | | |
| 10 | 9 | 8 | | 92 | 12 | 2 | 18 | 16.56 | | |
| 11 | 9 | 10 | | 176 | 12 | 2 | 18 | 31.68 | | |
| 12 | 2 | 8 | | 92 | 12 | 2 | 4 | 3.68 | | |

PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de l'Entretien Routier



AGENCE DE GESTION DES ROUTES



AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.



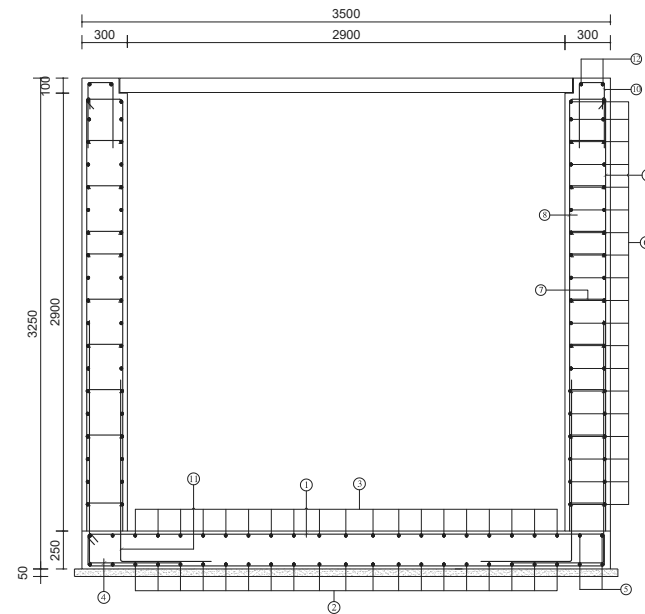
INGÉROSEC CORPORATION

CANIVEAU EN U - DETAIL D'ARMURES (TYPIQUE)(6)
(A1 E=20, A3 E=1:40)
U DITCH - TYPICAL REINFORCEMENT DETAILS(6)
(A1 S=20, A3 S=1:40)

| Indice / Réviser | Date / Date | Préparé par / Prepared by | Vérifié par / Checked by | Approuvé par / Approved by | Description / Description | Statut / Status |
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| A | 27/12/18 | K.T | T.N | T.K | PREMIERE VERSION | EXT |
| | | | | | | |

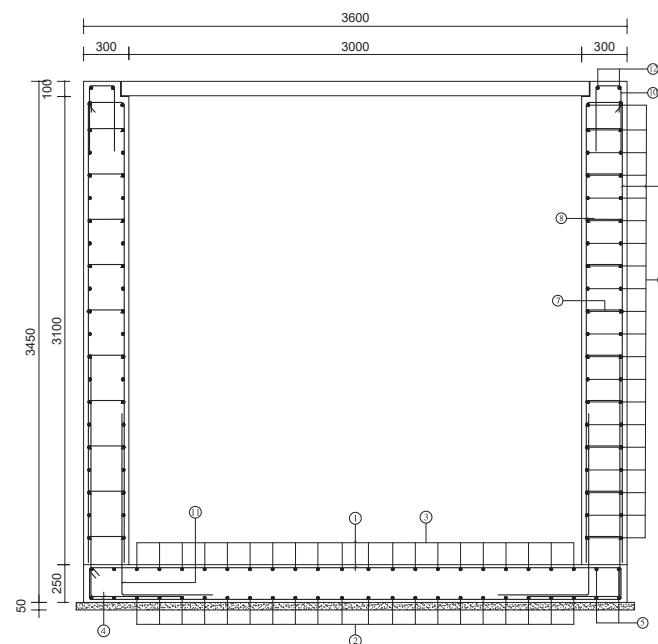
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|-------------------|-------------------------|--|-------------------------------------|-------------|----------------|
| Émetteur / Issuer | Localisation / Location | Type d'ouvrage - Activité / Type of structure - Activity | Type de document / Type of document | N° / No. | Indice / Index |
| OCG, ISEC | BFM | ROUTE | DESSINS | G-EP-DR-013 | A |

CANIVEAU EN U 2900x2900
(U-ditch 2900x2900)



| Repères | Nombres | Diamètres | | Long. lbarre cm | Espacmt (cm) | Nbres Elémts Ident. | Nbres Total Barres | Long. Totale (m) | Schémas | Observations |
|---------|---------|-----------|----|-----------------|------------------|---------------------|--------------------|------------------|-----------------|--------------|
| | | HA | DX | | | | | | | |
| 1 | 9 | 12 | | 718 | 12 | 1 | 9 | 64.62 | 17 | |
| 2 | 19 | 8 | | 92 | 15 | 1 | 19 | 17.48 | 92 | |
| 3 | 19 | 8 | | 92 | 15 | 1 | 19 | 17.48 | 92 | |
| 4 | 9 | 14 | | 216 | 12 | 2 | 18 | 38.88 | 140 16 20 | |
| 5 | 8 | 8 | | 92 | - | 1 | 8 | 7.36 | 92 | |
| 6 | 38 | 8 | | 92 | 20 | 2 | 76 | 69.92 | 92 | |
| 7 | 12 | 6 | | 40 | 4/m ² | 2 | 24 | 9.60 | 22 | |
| 8 | 2x9 | 12 | | 326 | 12 | 2 | 36 | 117.36 | 206 20 | |
| 9 | 2x9 | 12 | | 304 | 12 | 2 | 36 | 109.44 | 286 | |
| 10 | 9 | 8 | | 97 | 12 | 2 | 18 | 17.46 | 40 17 | |
| 11 | 9 | 12 | | 201 | 12 | 2 | 18 | 36.18 | 120 21 20 | |
| 12 | 2 | 8 | | 92 | 15 | 2 | 19 | 3.68 | 92 | |

CANIVEAU EN U 3000x3100
(U-ditch 3000x3100)



| Repères | Nombres | Diamètres | | Long. lbarre cm | Espacmt (cm) | Nbres Elémts Ident. | Nbres Total Barres | Long. Totale (m) | Schémas | Observations |
|---------|---------|-----------|----|-----------------|------------------|---------------------|--------------------|------------------|-----------------|--------------|
| | | HA | DX | | | | | | | |
| 1 | 9 | 12 | | 738 | 12 | 1 | 9 | 66.44 | 17 | |
| 2 | 20 | 8 | | 92 | 15 | 1 | 20 | 18.40 | 92 | |
| 3 | 20 | 8 | | 92 | 15 | 1 | 20 | 18.40 | 92 | |
| 4 | 9 | 14 | | 221 | 12 | 2 | 18 | 39.78 | 140 21 20 | |
| 5 | 8 | 8 | | 92 | - | 1 | 8 | 7.36 | 92 | |
| 6 | 40 | 8 | | 92 | 20 | 2 | 80 | 73.60 | 92 | |
| 7 | 12 | 6 | | 40 | 4/m ² | 2 | 24 | 9.60 | 22 | |
| 8 | 2x9 | 12 | | 346 | 12 | 2 | 36 | 124.56 | 206 20 | |
| 9 | 2x9 | 12 | | 324 | 12 | 2 | 36 | 116.64 | 306 | |
| 10 | 9 | 8 | | 97 | 12 | 2 | 18 | 17.46 | 40 17 | |
| 11 | 9 | 12 | | 201 | 12 | 2 | 18 | 36.18 | 120 21 20 | |
| 12 | 2 | 8 | | 92 | 12 | 2 | 4 | 3.68 | 92 | |

PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de l'Entretien Routier



AGENCE DE GESTION DES ROUTES



AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
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ORIENTAL CONSULTANTS GLOBAL CO., LTD.



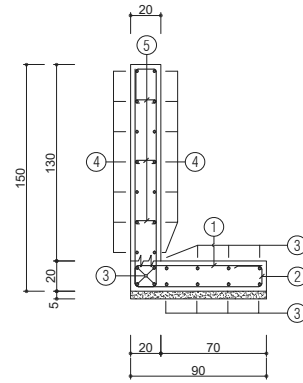
INGÉROSEC CORPORATION

CANIVEAU EN U - DETAIL D'ARMURES (TYPIQUE)(7)
(A1 E=20, A3 E=1:40)
U DITCH - TYPICAL REINFORCEMENT DETAILS(7)
(A1 S=20, A3 S=1:40)

| Indice / Révis | Date / Date | Préparé par / Prepared by | Vérifié par / Checked by | Approuvé par / Approved by | Description / Description | Statut / Status |
|----------------|-------------|---------------------------|--------------------------|----------------------------|---------------------------|-----------------|
| A | 27/12/18 | K.T | T.N | T.K | PREMIERE VERSION | EXT |
| | | | | | | |
| | | | | | | |

| Format | A3 | Fichier/ File : | | | |
|-------------------|-------------------------|--|-------------------------------------|-------------|----------------|
| Émetteur / Author | Localisation / Location | Type d'ouvrage - Activité / Type of structure - Activity | Type de document / Type of document | N° / No. | Indice / Index |
| OCG, ISEC | BFM | ROUTE | DESSINS | G-EP-DR-014 | A |

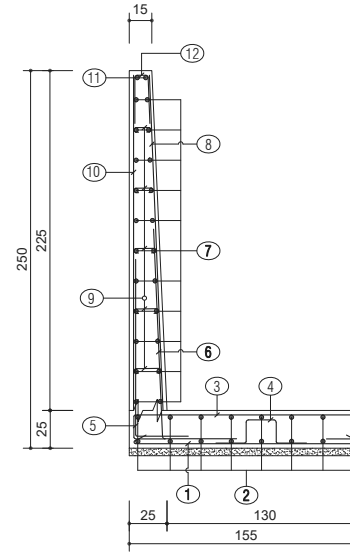
MUR DE HAUTEUR 1.5 m
(WALL HEIGHT 1.5 m)



| NOMENCLATURE DES ACIERS (REBAR QUANTITY) | | | | | | | | | |
|--|--------------------|-----------------------------------|----------------------------------|------------------|---------------------------|---------------------------------|-----------------------|----------------------|------------------------|
| Rebar (mark) | Number (Number) | Diameters (Diameters) HA DX | Long. tbarre (t bar) cm | Espace (cm) | No. Eléments Ident. | No. Total Barres (bar) | Long. Total (m) | Schémas (diagram) | Observat. (Remarks) |
| Mur de soutènement VL6/SF6 Longueur: 1m (Retaining wall VL6 / SF6 Length: 1m) | | | | | | | | | |
| 1 | 5 | 10 | 288 | 20 | 1 | 5 | 14.40 | 20 144 | |
| 2 | 5 | 8 | 257 | 20 | 1 | 5 | 12.85 | 127 15 13 | |
| 3 | 6x2 | 8 | 100 | 20 | 1 | 12 | 12.00 | 100 | |
| 4 | 7x2 | 8 | 100 | 20 | 1 | 14 | 14.00 | 100 | |
| 5 | 6 | 8 | 30 | 4/m ² | 1 | 6 | 1.80 | 14 | |

NOTA: - Enrobage 3cm
(NOTE): - (Covering 3 cm)
* Longueur moyenne
(Average length)

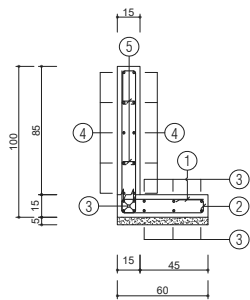
MUR DE HAUTEUR 2.5 m
(WALL HEIGHT 2.5 m)



| NOMENCLATURE DES ACIERS (REBAR QUANTITY) | | | | | | | | | |
|--|--------------------|-----------------------------------|----------------------------------|------------------|---------------------------|---------------------------------|-----------------------|----------------------|------------------------|
| Rebar (mark) | Number (Number) | Diameters (Diameters) HA DX | Long. tbarre (t bar) cm | Espace (cm) | No. Eléments Ident. | No. Total Barres (bar) | Long. Total (m) | Schémas (diagram) | Observat. (Remarks) |
| Mur de soutènement VL4/SF4 Longueur: 1m (Retaining wall VL4 / SF4 Length: 1m) | | | | | | | | | |
| 1 | 7 | 8 | 173 | 15 | 1 | 7 | 12.11 | 12 140 12 | |
| 2 | 2x8 | 8 | 100 | 20 | 1 | 16 | 16.00 | 100 | |
| 3 | 7 | 12 | 227 | 15 | 1 | 7 | 15.89 | 148 21 18 | |
| 4 | 6 | 8 | 92 | 4/m ² | 1 | 6 | 5.52 | 14 15 20 | |
| 5 | 7 | 8 | 124 | 15 | 1 | 7 | 8.68 | 21 14 20 | |
| 6 | 7 | 12 | 229 | 15 | 1 | 7 | 16.03 | 144 170 | |
| 7 | 2x11 | 8 | 100 | 20 | 1 | 22 | 22.00 | 100 | |
| 8 | 7 | 10 | 222 | 15 | 1 | 7 | 15.54 | 222 | |
| 9 | 9 | 8 | 38* | 4/m ² | 1 | 9 | 3.42 | 38 | |
| 10 | 7 | 8 | 222 | 15 | 1 | 7 | 15.54 | 222 | |
| 11 | 2 | 10 | 100 | - | 1 | 2 | 2.00 | 100 | |
| 12 | 7 | 8 | 72 | 15 | 1 | 7 | 5.04 | 14 12 | |

NOTA: - Enrobage 3cm
(NOTE): - (Covering 3 cm)
* Longueur moyenne
(Average length)

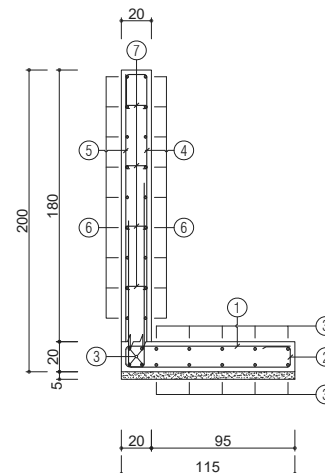
MUR DE HAUTEUR 1.0 m
(WALL HEIGHT 1.0 m)



| NOMENCLATURE DES ACIERS (REBAR QUANTITY) | | | | | | | | | |
|--|--------------------|-----------------------------------|----------------------------------|------------------|---------------------------|---------------------------------|-----------------------|----------------------|------------------------|
| Rebar (mark) | Number (Number) | Diameters (Diameters) HA DX | Long. tbarre (t bar) cm | Espace (cm) | No. Eléments Ident. | No. Total Barres (bar) | Long. Total (m) | Schémas (diagram) | Observat. (Remarks) |
| Mur de soutènement VL7/SF7 Longueur: 1m (Retaining wall VL7 / SF7 Length: 1m) | | | | | | | | | |
| 1 | 5 | 10 | 194 | 20 | 1 | 5 | 9.70 | 20 194 | |
| 2 | 5 | 8 | 173 | 20 | 1 | 5 | 8.65 | 173 15 13 | |
| 3 | 5x2 | 8 | 100 | 20 | 1 | 10 | 10.00 | 100 | |
| 4 | 5x2 | 8 | 100 | 20 | 1 | 10 | 10.00 | 100 | |
| 5 | 4 | 8 | 25 | 4/m ² | 1 | 4 | 1.00 | 4 | |

NOTA: - Enrobage 3cm
(NOTE): - (Covering 3 cm)
* Longueur moyenne
(Average length)

MUR DE HAUTEUR 2.0 m
(WALL HEIGHT 2.0 m)



| NOMENCLATURE DES ACIERS (REBAR QUANTITY) | | | | | | | | | |
|--|--------------------|-----------------------------------|----------------------------------|------------------|---------------------------|---------------------------------|-----------------------|----------------------|------------------------|
| Rebar (mark) | Number (Number) | Diameters (Diameters) HA DX | Long. tbarre (t bar) cm | Espace (cm) | No. Eléments Ident. | No. Total Barres (bar) | Long. Total (m) | Schémas (diagram) | Observat. (Remarks) |
| Mur de soutènement VL5/SF5 Longueur: 1m (Retaining wall VL5 / SF5 Length: 1m) | | | | | | | | | |
| 1 | 7 | 10 | 253 | 15 | 1 | 7 | 17.71 | 105 130 | |
| 2 | 7 | 8 | 235 | 15 | 1 | 7 | 16.45 | 84 13 105 3 | |
| 3 | 7x2 | 8 | 100 | 20 | 1 | 14 | 14.00 | 100 | |
| 4 | 7 | 10 | 211 | 15 | 1 | 7 | 14.77 | 127 14 | |
| 5 | 7 | 8 | 177 | 15 | 1 | 7 | 12.39 | 177 | |
| 6 | 9x2 | 8 | 100 | 15 | 1 | 18 | 18.00 | 100 | |
| 7 | 8 | 8 | 30 | 4/m ² | 1 | 8 | 2.40 | 14 | |

NOTA: - Enrobage 3cm
(NOTE): - (Covering 3 cm)
* Longueur moyenne
(Average length)

PROJET DE CONSTRUCTION DE TROIS ECHANGEURS À ABIDJAN



REPUBLIQUE DE COTE D'IVOIRE
Ministère de l'Équipement et de
l'Entretien Routier



AGENCE DE GESTION DES ROUTES



AGENCE JAPONAISE DE COOPÉRATION INTERNATIONALE
/ JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.



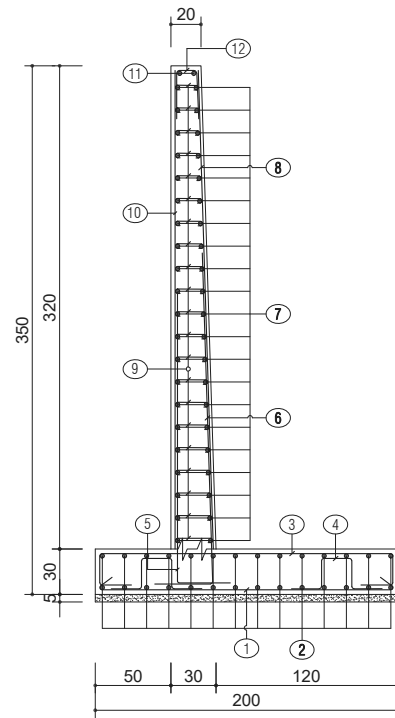
INGÉROSEC CORPORATION

MUR DE SOUTÈNEMENT EN L PREFABRIQUE - SHAPED RETAINING WALL - DETAIL D'ARMURES (TYPIQUE) (A1 E=25, A3 E=1:50)
PRECAST L-SHAPED RETAINING WALL - TYPICAL REINFORCEMENT DETAILS (A1 S=25, A3 S=1:50)

| Indice /Index | Date /Date | Préparé par /Prepared by | Vérifié par /Checked by | Approuvé par /Approved by | Description /Description | Statut /Status |
|------------------|---------------|-----------------------------|----------------------------|------------------------------|-----------------------------|-------------------|
| A | 27/12/18 | K.T | T.N | T.K | PREMIERE VERSION | EXT |

| Format | A3 | Fichier/ File : | Emetteur /Author | Localisation /Location | Type d'ouvrage -Activité /Type of structure -Activity | Type de document /Type of document | N° /No. | Indice /Index |
|-----------|-----|-----------------|---------------------|---------------------------|--|---------------------------------------|-------------|------------------|
| OCG, ISEC | BFM | | | | ROUTE | DESSINS | G-EP-MU-001 | A |

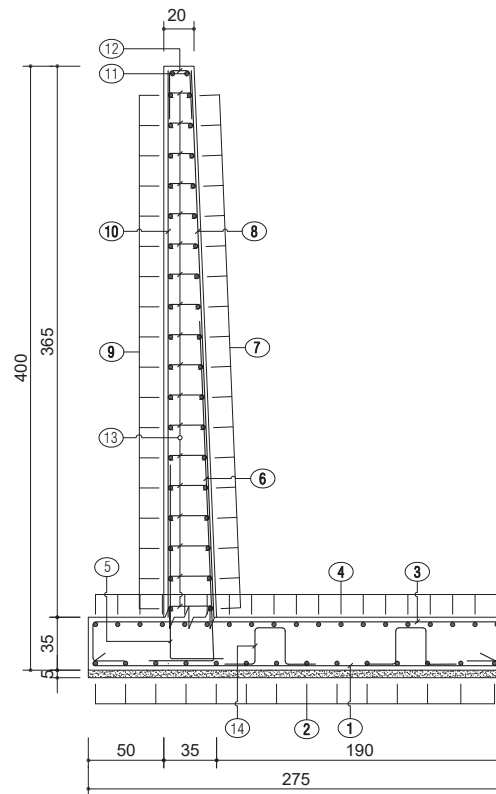
MUR DE HAUTEUR 3.5 m
(WALL HEIGHT 3.5 m)



| NOMENCLATURE DES ACIERS (REBAR QUANTITY) | | | | | | | | | |
|--|-----------------|-----------------------|--------------------------|--------------------|------------------------|-----------------|-------------------|---------------------|--|
| Repères (marks) | Nombre (Number) | Diamètres (Diameters) | Long. barre (l bar) (cm) | No. Eléments (bar) | No. Total Barres (bar) | Long. Total (m) | Schémas (diagram) | Observat. (Remarks) | |
| Mur de soutènement VL2/SF2 Longueur: 1m (Retaining wall VL2 / SF2 Length: 1m) | | | | | | | | | |
| 1 | 7 | 8 | 218 | 14 | 7 | 15.26 | 12-194-32 | | |
| 2 | 2x14 | 8 | 100 | 15 | 1 | 28 | 100 | | |
| 3 | 8 | 12 | 274 | 14 | 1 | 8 | 21.92 | 22-194-18-22-18-18 | |
| 4 | 8 | 8 | 100 | 4/m² | 1 | 8 | 8.00 | 20-20-20-20 | |
| 5 | 9 | 8 | 131 | 12 | 1 | 9 | 11.79 | 24-23-80 | |
| 6 | 9 | 14 | 269 | 12 | 1 | 9 | 24.21 | 44-24-196 | |
| 7 | 2x21 | 8 | 100 | 15 | 1 | 42 | 42.00 | 100 | |
| 8 | 9 | 8 | 317 | 12 | 1 | 9 | 28.53 | 317 | |
| 9 | 21 | 8 | 43* | 4/m² | 1 | 21 | 9.03 | 1424 | |
| 10 | 9 | 8 | 317 | 12 | 1 | 9 | 28.53 | 317 | |
| 11 | 2 | 10 | 100 | - | 1 | 2 | 2.00 | 100 | |
| 12 | 9 | 8 | 76 | 12 | 1 | 9 | 6.84 | 32-12-32 | |

NOTA: - Enrobage 3cm
(NOTE): - (Covering 3 cm)
* Longueur moyenne
* (Average length)

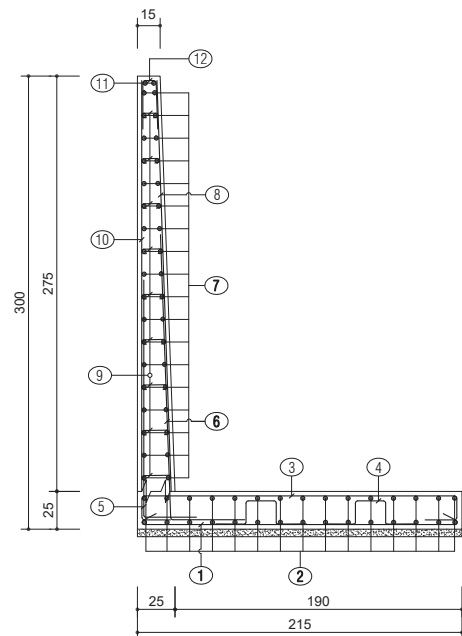
MUR DE HAUTEUR 4.0 m
(WALL HEIGHT 4.0 m)



| NOMENCLATURE DES ACIERS (REBAR QUANTITY) | | | | | | | | | |
|--|-----------------|-----------------------|--------------------------|--------------------|------------------------|-----------------|-------------------|---------------------|--|
| Repères (marks) | Nombre (Number) | Diamètres (Diameters) | Long. barre (l bar) (cm) | No. Eléments (bar) | No. Total Barres (bar) | Long. Total (m) | Schémas (diagram) | Observat. (Remarks) | |
| Mur de soutènement VL1/SF1 Longueur: 1m (Retaining wall VL1 / SF1 Length: 1m) | | | | | | | | | |
| 1 | 5 | 10 | 299 | 20 | 1 | 5 | 14.95 | 15-269-15 | |
| 2 | 14 | 8 | 100 | 20 | 1 | 14 | 14.00 | 100 | |
| 3 | 11 | 12 | 359 | 10 | 1 | 11 | 39.49 | 27-269-18-27-18-18 | |
| 4 | 19 | 8 | 100 | 15 | 1 | 19 | 19.00 | 100 | |
| 5 | 11 | 8 | 137 | 10 | 1 | 11 | 15.07 | 24-29-80 | |
| 6 | 11 | 14 | 275 | 10 | 1 | 11 | 30.25 | 44-30-196 | |
| 7 | 18 | 10 | 100 | 20 | 1 | 18 | 18.00 | 100 | |
| 8 | 11 | 10 | 362 | 10 | 1 | 11 | 39.82 | 362 | |
| 9 | 18 | 8 | 100 | 20 | 1 | 18 | 18.00 | 100 | |
| 10 | 11 | 8 | 362 | 10 | 1 | 11 | 39.82 | 362 | |
| 11 | 2 | 10 | 100 | - | 1 | 2 | 2.00 | 100 | |
| 12 | 11 | 8 | 76 | 10 | 1 | 11 | 8.36 | 32-12-32 | |
| 13 | 18 | 8 | 46* | 20 | 1 | 18 | 8.28 | 1424 | |
| 14 | 11 | 8 | 110 | 4/m² | 1 | 11 | 12.10 | 20-25-20-20 | |

NOTA: - Enrobage 3cm
(NOTE): - (Covering 3 cm)
* Longueur moyenne
* (Average length)

MUR DE HAUTEUR 3.0 m
(WALL HEIGHT 3.0 m)



| NOMENCLATURE DES ACIERS (REBAR QUANTITY) | | | | | | | | | |
|--|-----------------|-----------------------|--------------------------|--------------------|------------------------|-----------------|-------------------|---------------------|--|
| Repères (marks) | Nombre (Number) | Diamètres (Diameters) | Long. barre (l bar) (cm) | No. Eléments (bar) | No. Total Barres (bar) | Long. Total (m) | Schémas (diagram) | Observat. (Remarks) | |
| Mur de soutènement VL3/SF3 Longueur: 1m (Retaining wall VL3 / SF3 Length: 1m) | | | | | | | | | |
| 1 | 10 | 8 | 233 | 10 | 1 | 10 | 23.30 | 12-209-32 | |
| 2 | 2x15 | 8 | 100 | 15 | 1 | 30 | 30.00 | 100 | |
| 3 | 10 | 12 | 287 | 10 | 1 | 10 | 28.70 | 16-209-21-16-21-18 | |
| 4 | 8 | 8 | 92 | 4/m² | 1 | 8 | 7.36 | 16-20-16-20-20 | |
| 5 | 10 | 8 | 191 | 10 | 1 | 10 | 19.10 | 34-16-160 | |
| 6 | 10 | 12 | 236 | 10 | 1 | 10 | 23.60 | 44-17-172 | |
| 7 | 2x18 | 8 | 100 | 15 | 1 | 36 | 36.00 | 100 | |
| 8 | 10 | 10 | 272 | 10 | 1 | 10 | 27.20 | 272 | |
| 9 | 11 | 8 | 38* | 4/m² | 1 | 11 | 4.18 | 818 | |
| 10 | 10 | 8 | 272 | 10 | 1 | 10 | 27.20 | 272 | |
| 11 | 2 | 10 | 100 | - | 1 | 2 | 2.00 | 100 | |
| 12 | 10 | 8 | 72 | 10 | 1 | 10 | 7.20 | 32-8-32 | |

NOTA: - Enrobage 3cm
(NOTE): - (Covering 3 cm)
* Longueur moyenne
* (Average length)

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|-----------|----|----------------|----------------------|-------------------------|--|-------------------------------------|-------------|----------------|
| OCG, ISEC | | | BFM | | ROUTE | DESSINS | G-EP-MU-002 | A |