

NOTES GÉNÉRALES DE STRUCTURES

GÉNÉRAL

- 1. TOUS LES TRAVAUX DOIVENT ÊTRE EXÉCUTÉS CONFORMÉMENT AU CODE NATIONAL DU BÂTIMENT HAÏTIEN (CNBH 2012) ET AU CODE INTERNATIONAL DU BÂTIMENT (IBC 2012).
- 2. L'ENTREPRENEUR DOIT FOURNIR DES SUPPORTS DE MONTAGE TEMPORAIRES PENDANT L'INSTALLATION DE TOUTES LES STRUCTURES ET PENDANT L'ÉVACUATION, AU BESOIN.
- 3. L'ENTREPRENEUR DOIT VÉRIFIER TOUTES LES CONDITIONS DU SITE, LES DIMENSIONS ET LE NIVEAU AVANT DE COMMENCER LES TRAVAUX. SI LES PLANS NE CORRESPONDENT PAS À LA BoQ, LE CONTRACTANT DOIT CONTACTER L'INGÉNIEUR PAR E-MAIL POUR DISCUTER DE LA DIFFÉRENCE.
- 4. L'ENTREPRENEUR DOIT DÉCOUVRIR ET VÉRIFIER LE TYPE D'EMPLACEMENT DE TOUT PIPELINE D'EAU, D'ÉLECTRICITÉ, DE COMMUNICATION, DE CONTRÔLE, D'ÉGOUT ET AUTRE DÉCOUVERT, ENTERRÉ OU DISSIMULÉ SUR LE SITE ET LES PROTÉGER CONTRE TOUT DOMMAGE OU INCONVÉNIENT, PENDANT LA DURÉE DES TRAVAUX, SAUF QU'ILS PEUVENT ÊTRE DÉPLACÉS S'ILS SONT AUTORISÉS PAR L'INGÉNIEUR. L'ENTREPRENEUR SERA RESPONSABLE DE TOUT DOMMAGE SUBI.
- 5. L'ENTREPRENEUR DOIT ENLEVER OU MODIFIER TOUTES LES STRUCTURES EXISTANTES CONFORMÉMENT AUX EXIGENCES DE L'INGÉNIEUR POUR L'INSTALLATION DE NOUVELLES STRUCTURES ET POUR TERMINER LES TRAVAUX. LES STRUCTURES EXISTANTES QUI NE DOIVENT PAS ÊTRE SUPPRIMÉES OU MODIFIÉES NE DOIVENT PAS ÊTRE ENDOMMAGÉES.
- 6. L'ENTREPRENEUR DOIT LIMITER SES ACTIVITÉS ET OPÉRATIONS AU SITE ET EN BORDURE DU CHANTIER DE CONSTRUCTION CONFORMÉMENT AUX EXIGENCES DE L'INGÉNIEUR.
- 7. L'ENTREPRENEUR DOIT LIMITER SES ACTIVITÉS ET OPÉRATIONS SUR SITE ET EN BORDURE DU SITE CONFORMÉMENT AUX EXIGENCES DU PROJET.

BLOC DE BÉTON

- 1. TOUTES LES STRUCTURES EN BÉTON SERONT CONFORMES AUX NORMES ACI 530 DE LA DERNIÈRE ÉDITION.
- 2. TOUTS LES MURS SERONT CONSTRUITS AVEC CMU. TOUTS LES JOINTS DE PAREMENT VERTICAUX, HORIZONTAUX ET EN VIS-À-VIS SERONT REMPLIS DE MORTIER. LES JOINTS SERONT LISSÉS, REPASSÉS ET LÉGÈREMENT CONCAVES.
- 3. LES MATÉRIAUX SERONT CONFORMES AUX NORMES POUR DES BLOCS CMU CREUSES (CAVITÉ VIDE)
 - A. CLASSE N TYPE I ASTM (90) POIS STANDARD 1840Kg / m3
 - B. CAPACITÉ DE CLASSE BI2 = 15 MPA
 - C. MORTIER ET COULIS: CIMENT PORTLAND TYPE I ASTM (CI50)
 - D. COULIS (ASTM C270)
 - E. BARRES D'ARMATURE: (ASTM A 615), GRADE 414 MPA
- 4. TOUTS LES JOINTS AURONT UNE ÉPAISSEUR DE 10 MM ET UNE COUVERTURE COMPLÈTE SUR LES FACES HORIZONTALES ET VERTICALES DES CELLULES DE BLOC.

SPÉCIFICATIONS DES MATÉRIAUX

BÉTON ET ACIER

- 1. PROPRIÉTÉ :
 - A. ARMATURES, LIGATURES, ÉTRIERS 420 A615
 - B. CIMENT (TYPE I)
 - C. GRANULAT (6/20)
 - D. BÉTON 21MPa @ 28JOURS
- 2. TOUTS LES TRAVAUX PRÉPARATOIRES DE BÉTON SERONT CONFORMES AUX-NORMES DE L'ACI 318 «BUILDING CODE REQUIVALENTS FOR STRUCTURAL CONCRETE » ET DE L'ACI301 «"SPÉCIFICATIONS STRUCTURAL CONCRETE "» DERNIÈRE ÉDITION

BLOCS.

I-LES BLOCS DOIVENT AVOIR UNE CAPACITÉ MINIMALE DE 15MPa ET DOIVENT ÊTRE TREMPÉS DANS L'EAU AVANT DE LES POSER.

MORTIER

LE MORTIER DOIT ETRE CONFORME AU EXGENCES DU CNBH.

LE REVÊTEMENT DE BÉTON POUR L'ARMATURE EN ACIER DOIT ÊTRE:

- A. BÉTON COULÉ EN CONTACT PERMANENT AVEC LE SOL: 75MM.
- B. BÉTON EN CONTACT AVEC LE SOL OU EXPOSÉ AUX INTEMPÉRIES:
 - I) # 6 ET PLUS, 50MM
 - II) # 6 ET MOINS, 40MM
- C. BÉTON NON EXPOSÉ AUX INTEMPÉRIES OU EN CONTACT AVEC LE SOL 40MM.
- D. L'ANCRAGE DE BARRES ET SES EMLACEMENTS SERONT FAITS À L'AIDE D'UN GABARIT EN ACIER FIXÉ AU COFFRAGE. LES TIGES D'ANCRAGE NE SERONT PAS DÉPLACÉES DE PLUS DE 20 MM AFIN DE NE PAS GÊNER L'INSTALLATION DES SIÈGES DE COLONNE.
- E. AVANT DE PLACER LE BÉTON, ASSUREZ-VOUS QUE TOUTS LES ANCRAGES, LES PIÈCES DE RENFORT NÉCESSAIRES ET IDENTIFIÉS SUR LES STRUCTURES ET LES DESSINS D'ATELIER ONT ÉTÉ FOURNIS ET CORRECTEMENT PLACÉS. BARRES D'ACIER DÉFORMÉES.

ESSAI ET CONTRÔLE DU BÉTON

- 1. LA PRÉPARATION, LE DURCISSEMENT ET LES ESSAIS DES BOUTEILLES EN BÉTON SERONT CONFORMES AUX NORMES ASTM C31.C172 ET C39
- 2. PRENEZ UN ENSEMBLE DE TROIS CYLINDRES POUR CHAQUE BÉTON COULÉ EN PLACE, SELON LA VALEUR LA PLUS ÉLEVÉES. AU MOINS UN JEU DE CYLINDRES SERA PRÉLEVÉ POUR CHAQUE GRADE DE BÉTON COULÉ AU COURS D'UNE JOURNÉE. LA PRÉPARATION DU CYLINDRE DOIT INCLURE DES TESTS D'AFFAISSEMENT. L'AFFAISSEMENT MAXIMUM SERA DE 75 MM POUR LES EMPATTEMENTS ET LES SEMELLES, DE 100 MM POUR LES COLONNES, LES POUTRES.
- 3. CYLINDRE POUR TEST DE CAPACITÉ.
 - UNE. 3 @ 7 JOURS;
 - B. 3 @ 28 JOURS;
- C. TEST D'AFFAISSEMENT (ASTM) CI43, UNE FOIS POUR CHAQUE SÉRIE;
- RÉ. TEMPÉRATURE ASTM CI064, UNE FOIS POUR CHAQUE JEU;
- 3. L'ENTREPRENEUR SERA SEUL RESPONSABLE DU STOCKAGE, DE L'ASSEMBLAGE ET DU RACCORDEMENT DES BOUTEILLES AU LABORATOIRE D'ESSAI ET FOURNIRA À L'INGÉNIEUR TOUTES LES DONNÉES MATÉRIELLES REQUISES, LE RAPPORT EAU-CIMENT, LES PROPORTIONS D'AFFAISSEMENT, ETC.
- 4. POUR CHAQUE MÉLANGE, LA CAPACITÉ DE COMPRESSION MINIMALE SERA ACCEPTABLE SI LES DEUX CRITÈRES SUIVANTS SONT REMPLIS:
 - A. LA MOYENNE DES TROIS TESTS CONSÉCUTIFS EST ÉGALE OU SUPÉRIEURE AU MINIMUM REQUIS.
 - B. LE RÉSULTAT DE TOUT TEST N'EST PAS SUPÉRIEUR À 3,5 MPA AVANT D'ATTEINDRE LE MINIMUM REQUIS.

LISTE DE PLANS

NI:

NOTES GÉNÉRALES DE STRUCTURES

N2:

NOTES GÉNÉRALES HYDRAULIQUES

PI:

LISTE DE PLAN ET DÉTAILS D'ARMATURES

S-0:

PLAN DE SITE

S-00:

VUE EN PLAN ET ÉLÉVATION BÂTIMENTS

S-01:

VUE EN PLAN FONDATION

S-02A:

VUE EN ÉLÉVATION AXE I

S-02B:

VUE EN ÉLÉVATION AXE 3

S-03:

VUE EN ÉLÉVATION AXE C

S-04:

VUE EN ÉLÉVATION AXE A

S-05:

DÉTAILS FONDATION

S-06:

POUTRE SUPÉRIEURE TYPE

S-07:

FERRAILLAGE COLONNE TYPE

S-08:

PLAN DE TOITURE

S-09:

CONNECTIONS BÂTIMENT EXISTANT ET NOUVELLE TOILETTE

S-10A:

VUE EN PLAN & ÉLÉVATION BÂTIMENT TOILETTE AXE I

S-10B:

VUE EN ÉLÉVATION BÂTIMENT TOILETTE AXE A & B

S-11:

DÉTAILS CHÂÎNAGES HORIZONTALES

S-12:

DÉTAILS CHÂÎNAGE VERTICALE ET FONDATION

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PLAN DE FERMES

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DÉTAILS JOINTS DES FERMES

S-15:

PLAN DE PLOMBERIE

S-16:

PLAN DE PLOMBERIE 2

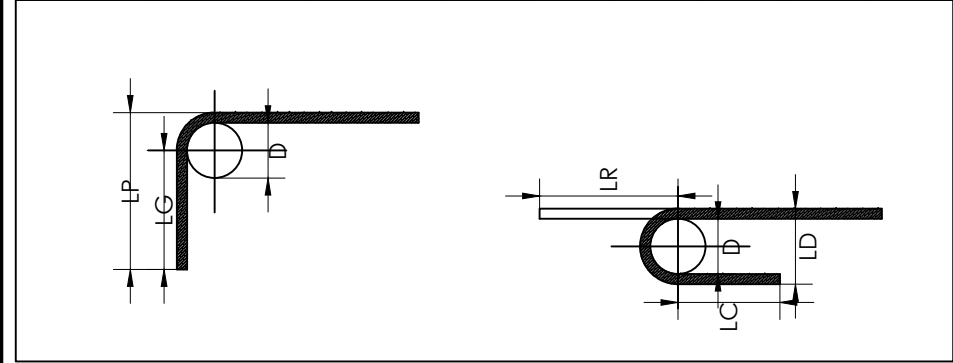
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DÉTAILS PORTES MÉTALLIQUES

S-18:

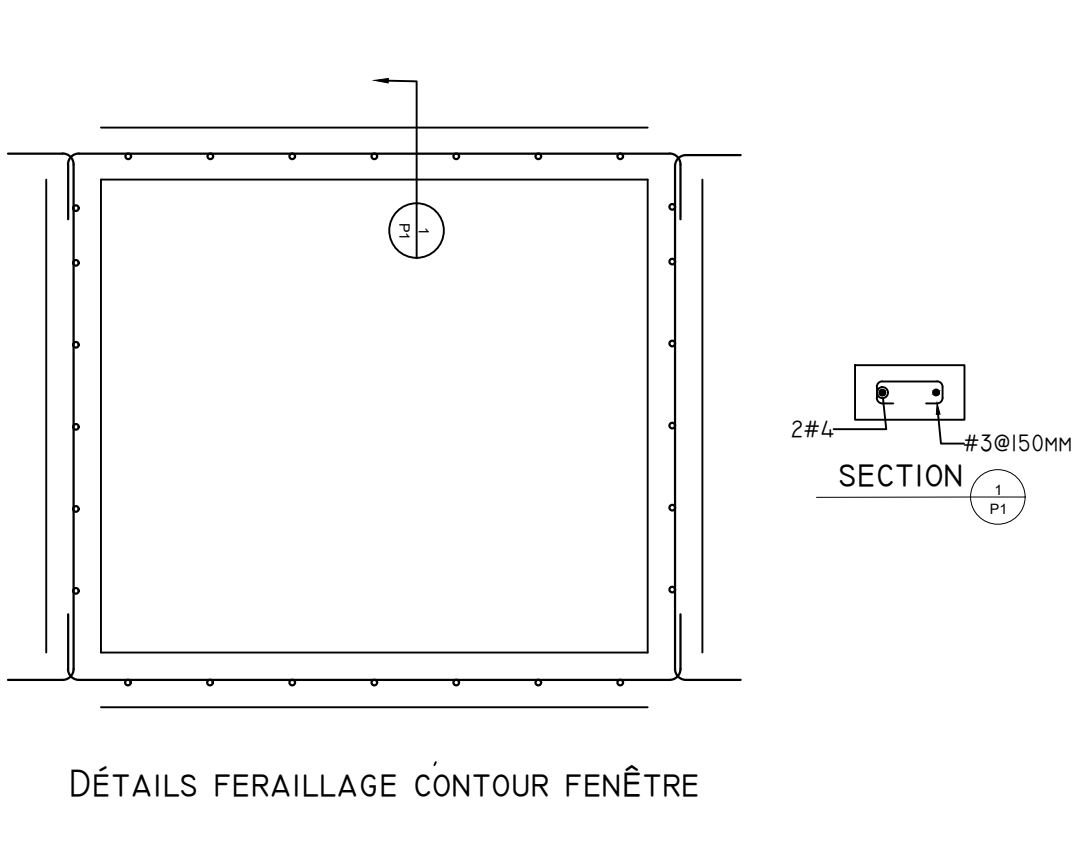
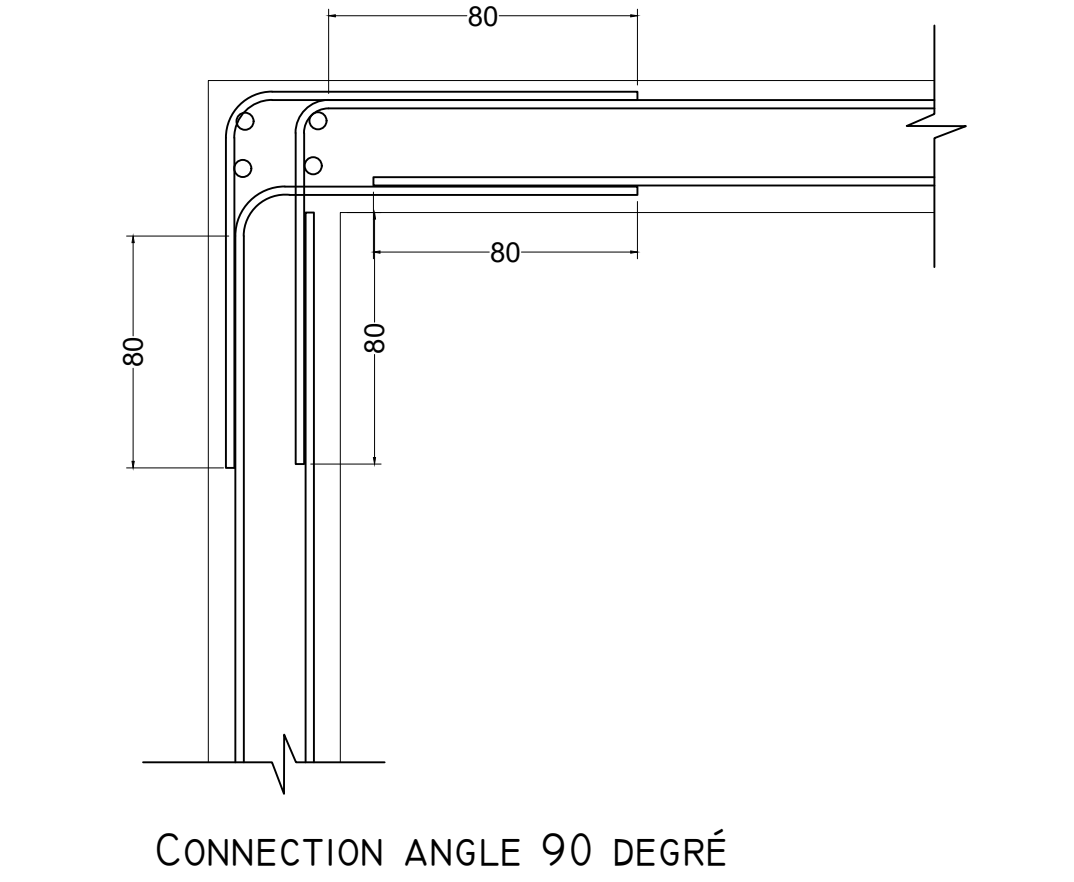
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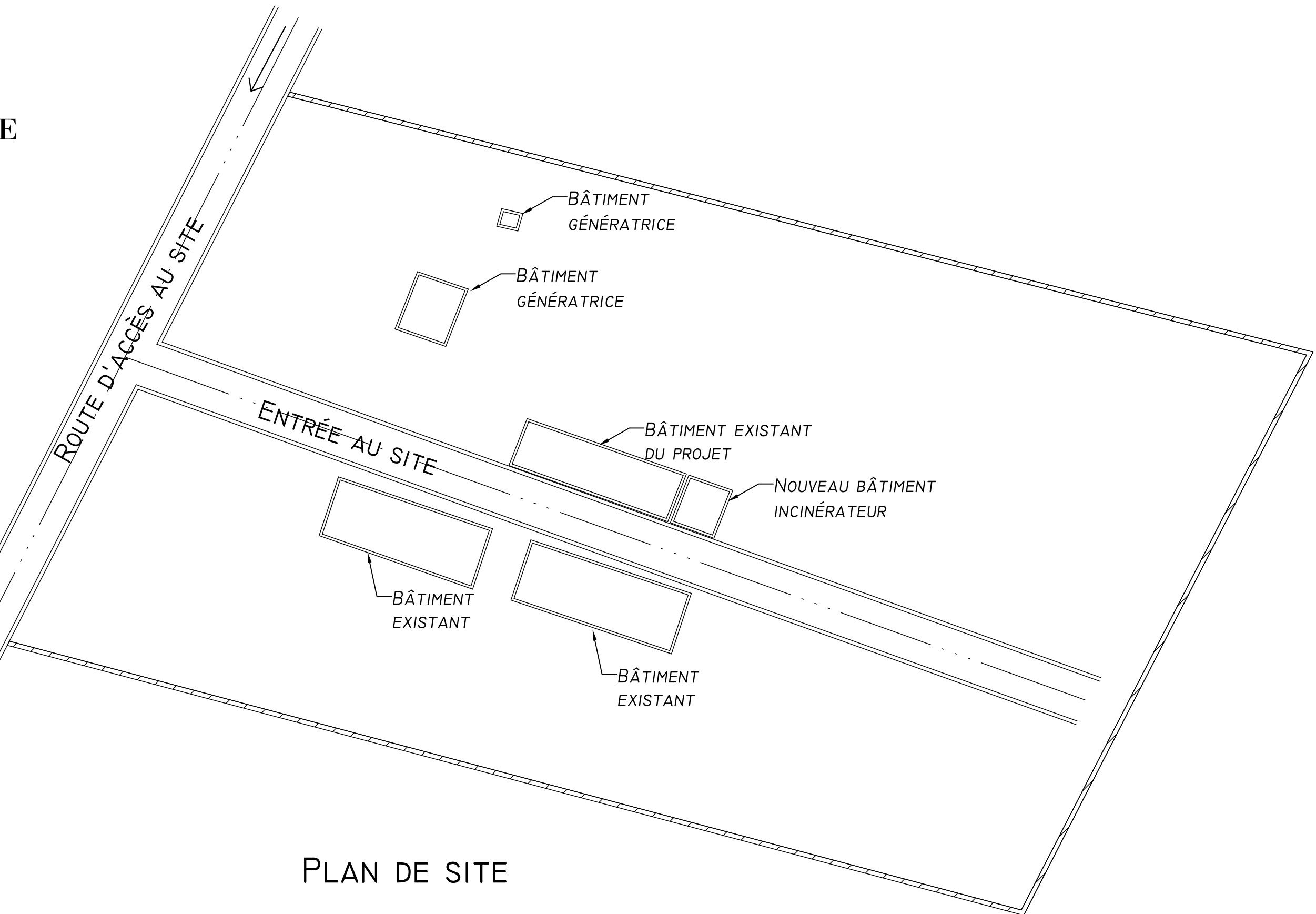
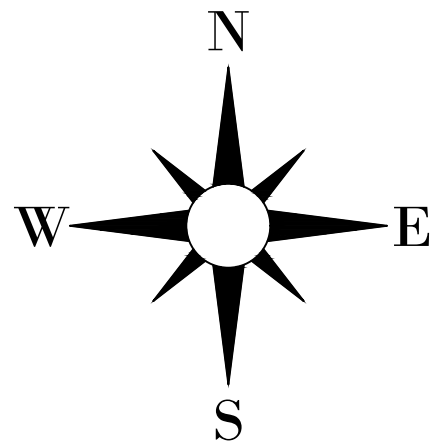
| LONGUEUR ET RAYON DE COURBURE | | | | | | | | |
|-------------------------------|-------|-----------|-----|-----|-----|-----|-----|-----|
| BARRE (SA) | BARRE | DIAM (MM) | D | LG | LP | LC | LD | LR |
| #3 | | 9.5 | 60 | 114 | 155 | 60 | 80 | 170 |
| #4 | | 12.7 | 80 | 152 | 205 | 60 | 105 | 210 |
| #5 | | 15.9 | 95 | 191 | 264 | 65 | 130 | 240 |
| #6 | | 19.1 | 115 | 229 | 306 | 80 | 155 | 290 |
| #7 | | 22.2 | 135 | 266 | 356 | 90 | 175 | 340 |
| #8 | | 25.4 | 155 | 305 | 408 | 105 | 205 | 390 |
| #9 | | 28.7 | 240 | 344 | 390 | 115 | 300 | 540 |



| LONGUEUR DE RECOUVREMENT F'c = 21 MPA Fy = 420 MPA | | | |
|--|---------|-----------|----------------|
| BARRE | DIA(MM) | LONG (MM) | ESPACEMENT(MM) |
| #3 | 9.5 | 540 | 400 |
| #4 | 12.7 | 720 | 500 |
| #5 | 15.9 | 900 | 650 |
| #6 | 19.1 | 1080 | 750 |

| DIMENSIONS DES CROCHETS POUR LES ETRIERS @135° (MM) | | | | |
|--|----------|----|-----|-----|
| BARRE | DIAMETRE | D | LG | LT |
| #3 | 9.5 | 40 | 75 | 105 |
| #4 | 12.7 | 50 | 80 | 118 |
| #5 | 15.9 | 65 | 100 | 148 |





PLAN DE SITE

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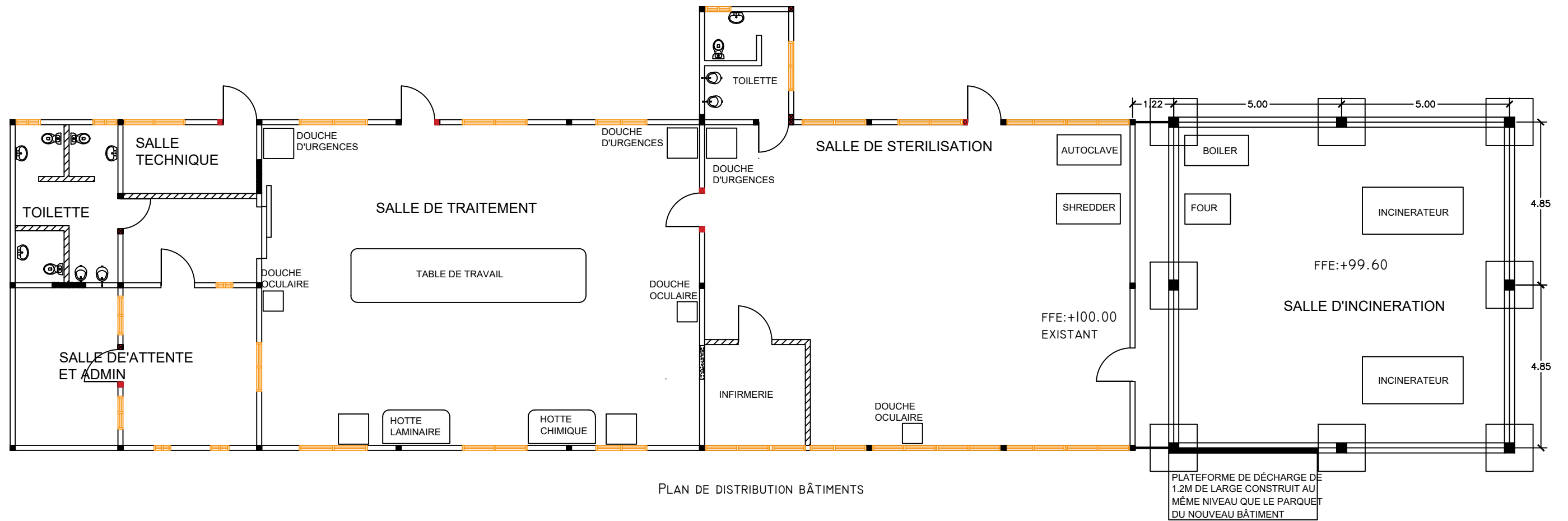
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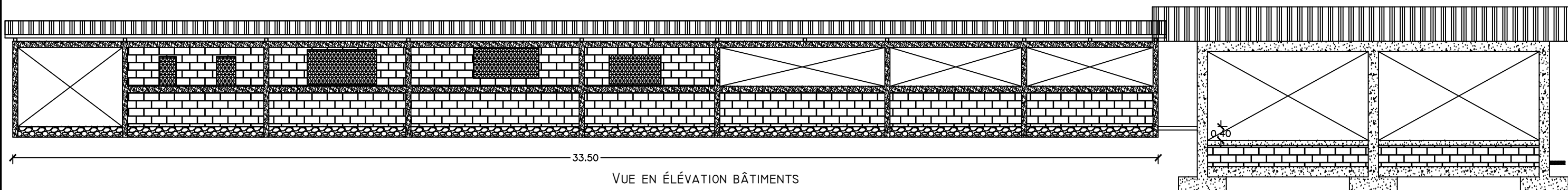
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| APPROVED BY: | RM | |





PLAN DE DISTRIBUTION BÂTIMENTS



VUE EN ÉLÉVATION BÂTIMENTS



USAID
FROM THE AMERICAN PEOPLE



HAITI



DINEPA
Direction Nationale
de l'Eau Potable
et de l'Assainissement

509 SANITATION

PCITYPSTATE

VUE EN PLAN & ÉLÉVATION
BÂTIMENTS

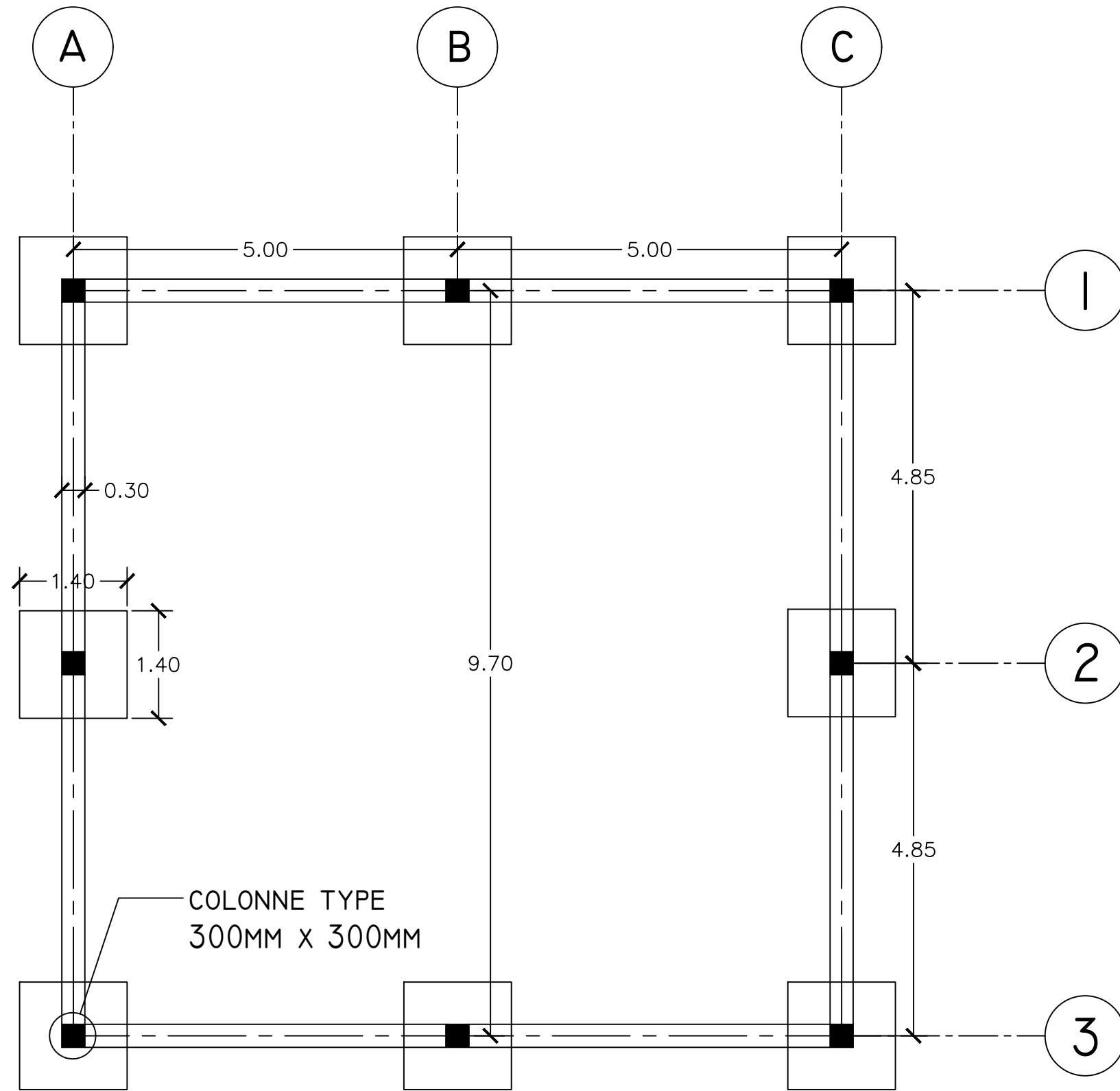
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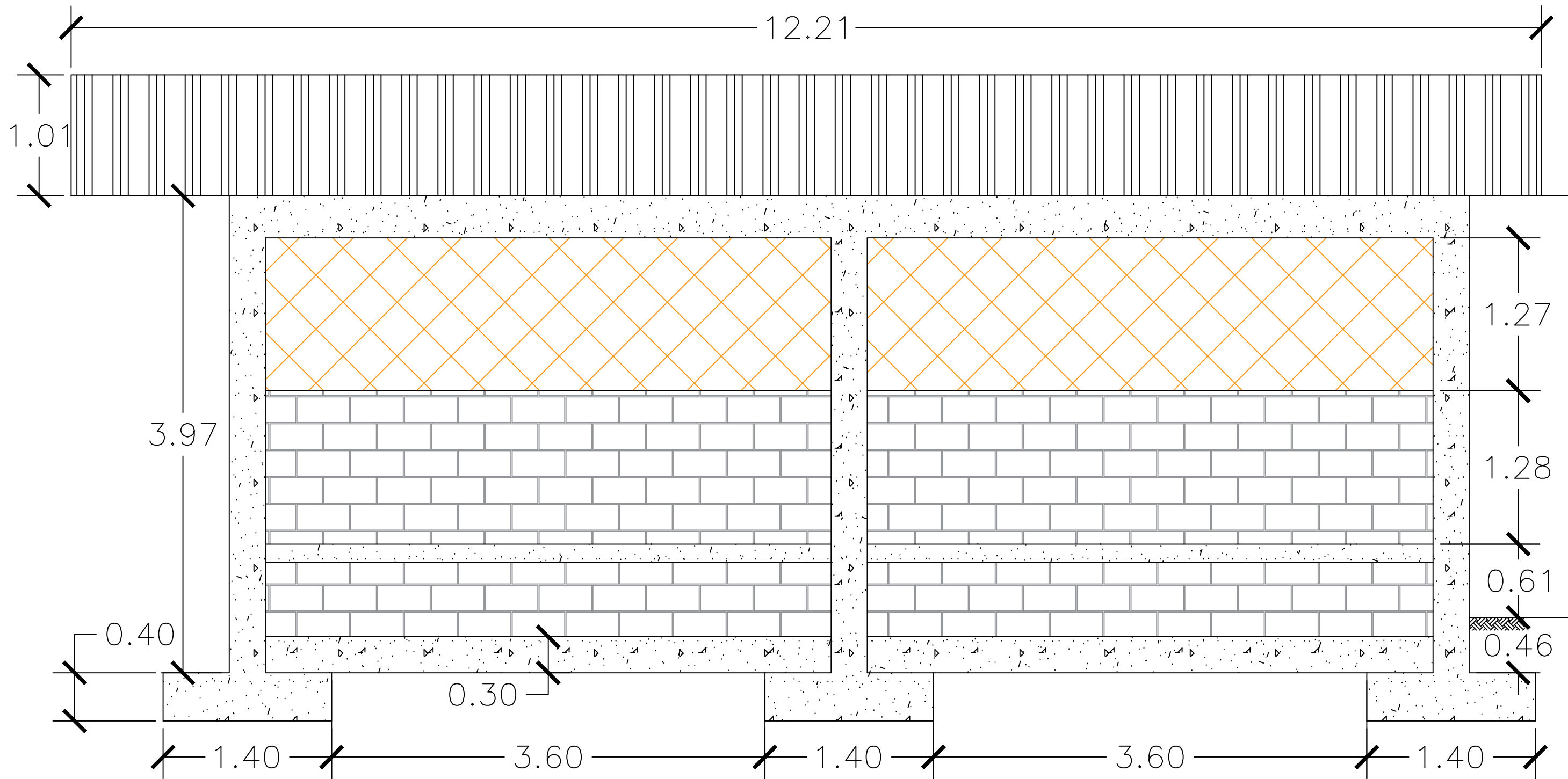


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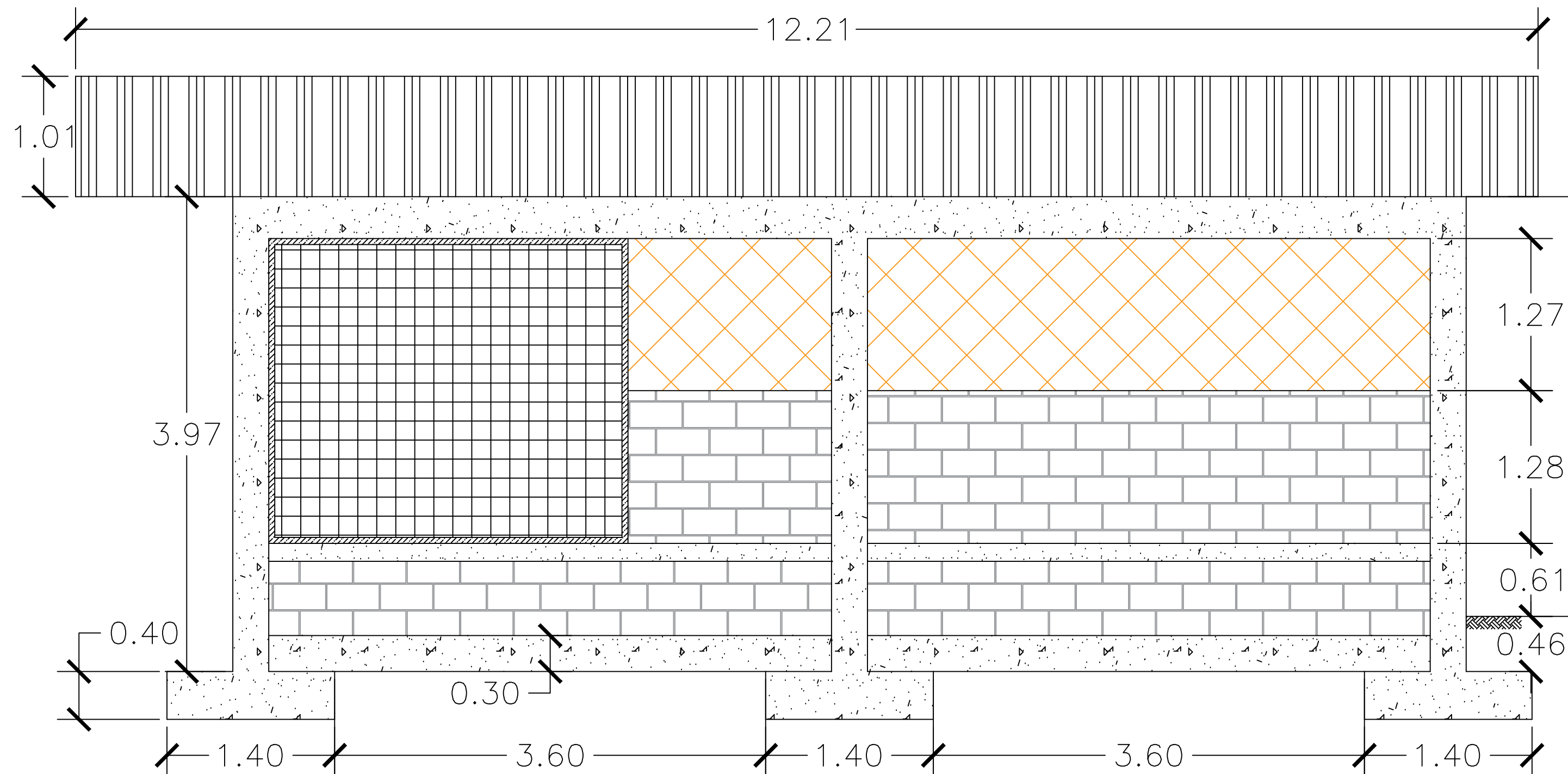
VUE EN PLAN FONDATION

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| USAID WATER AND SANITATION PROJECT | | 509 SANITATION | | VUE EN PLAN FONDATION | |
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| FROM THE AMERICAN PEOPLE | | Direction Nationale de l'Eau Potable et de l'Assainissement | | DAI | |
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VUE EN ÉLÉVATION AXE I

|   | | 509 SANITATION PCITY PSTATE | VUE EN ÉLÉVATION AXE 1 S-02a | <table border="1"> <thead> <tr> <th>PROJECT NO.:</th> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DESIGNED BY:</td> <td>PROJNUM</td> <td></td> </tr> <tr> <td>DRAWN BY:</td> <td>RB</td> <td>OIDATE</td> </tr> <tr> <td>CHECKED BY:</td> <td>CKBY</td> <td></td> </tr> <tr> <td>APPROVED BY:</td> <td>PM</td> <td></td> </tr> </tbody> </table> | PROJECT NO.: | NAME | DATE | DESIGNED BY: | PROJNUM | | DRAWN BY: | RB | OIDATE | CHECKED BY: | CKBY | | APPROVED BY: | PM | |  |
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VUE EN ÉLÉVATION AXE 3

USAID WATER AND SANITATION PROJECT



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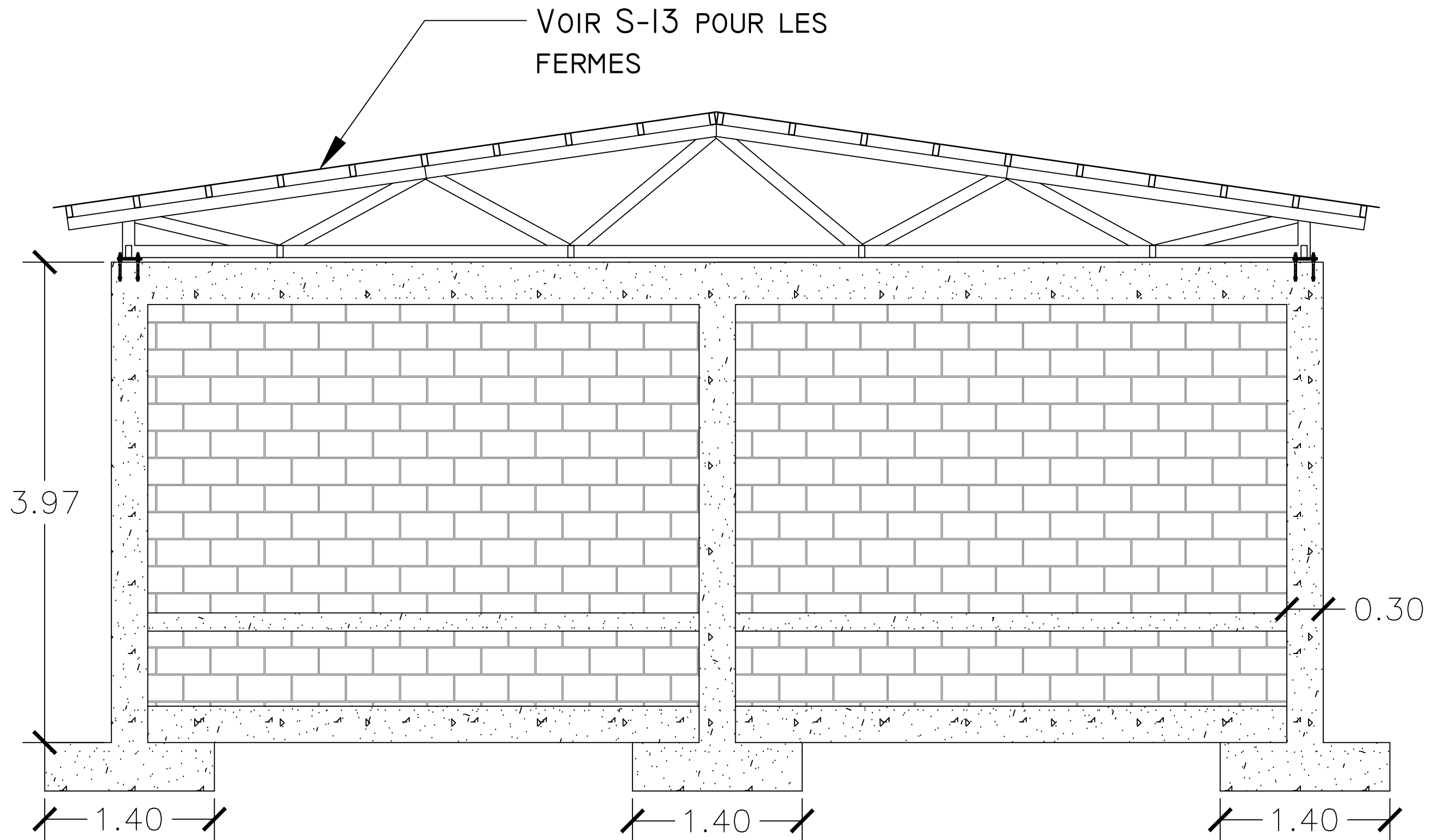
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VUE EN ÉLÉVATION AXE C

USAID WATER AND SANITATION PROJECT



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PCITY

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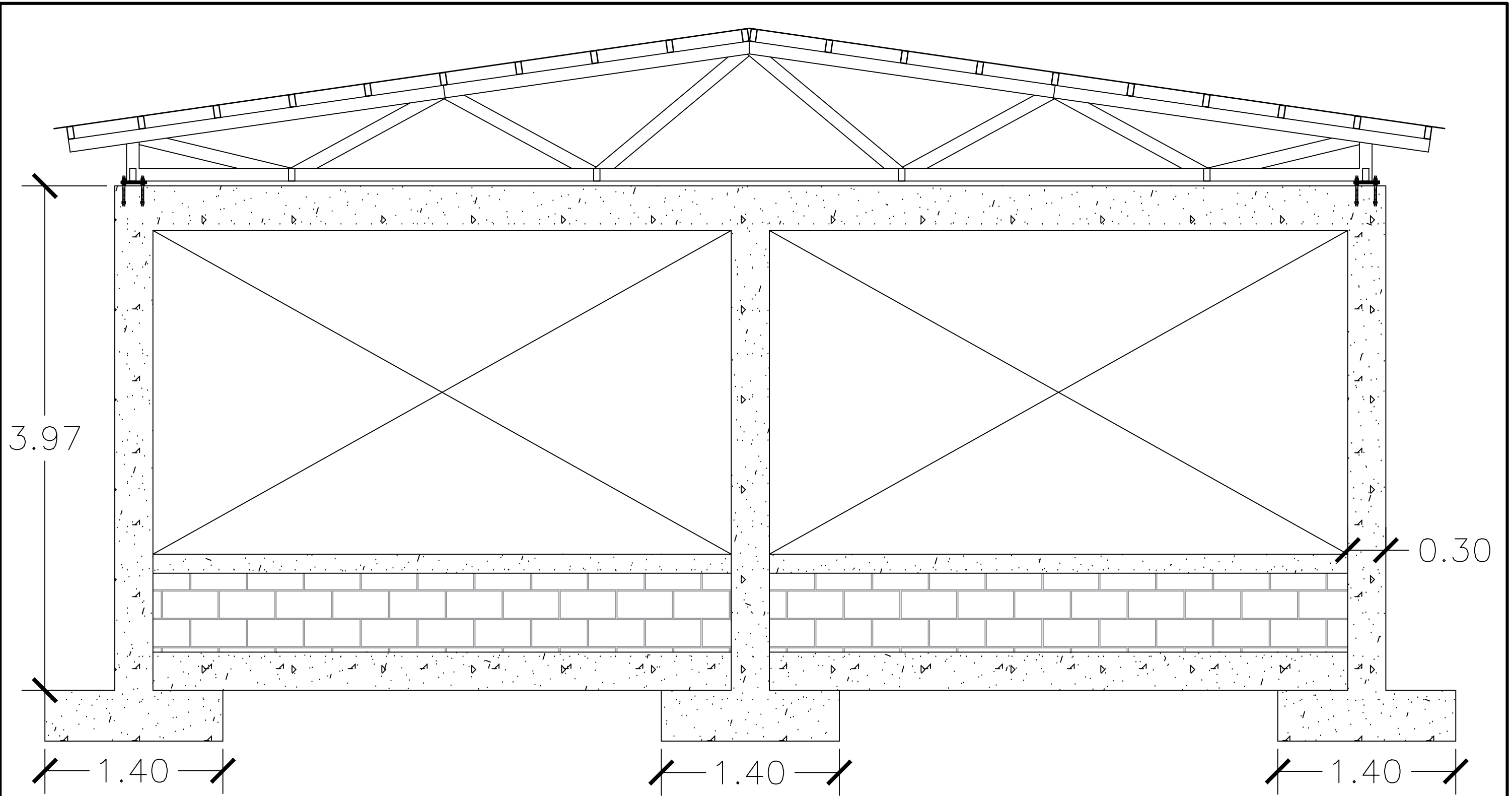
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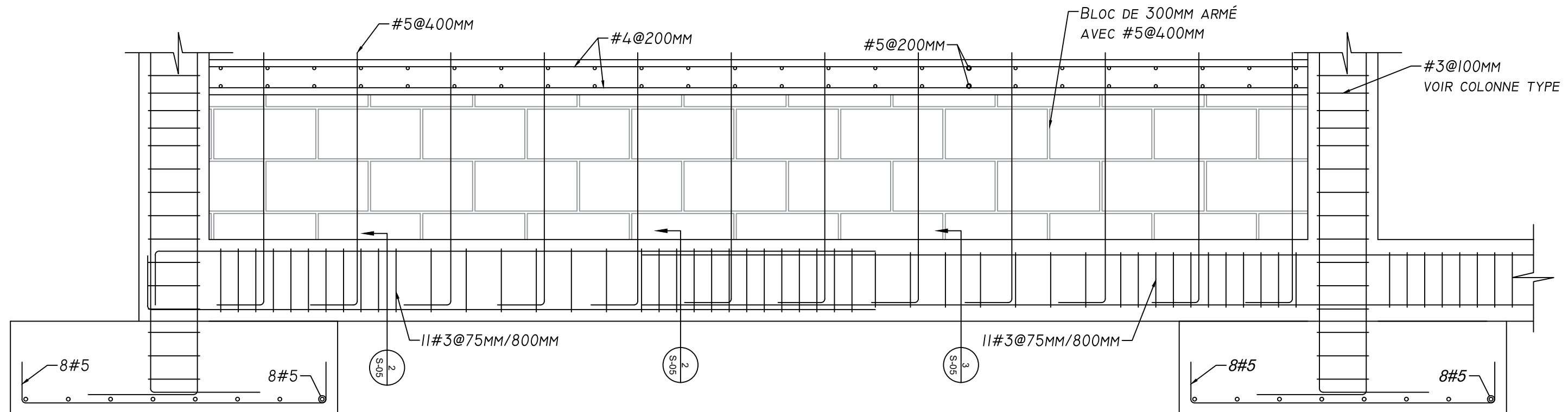
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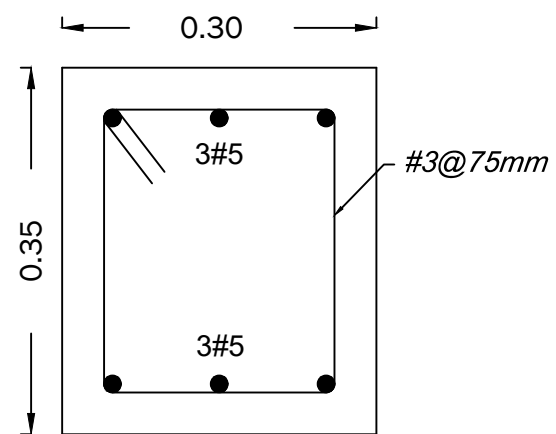
VUE EN ÉLEVATION AXE A

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|  USAID HAITI | |  DINEPA Direction Nationale de l'Eau Potable et de l'Assainissement | | 509 SANITATION | | VUE EN ÉLEVATION AXE A | | S-04 | | | | | | | | | | | | | | | | | | |
|  USAID HAITI | |  DINEPA Direction Nationale de l'Eau Potable et de l'Assainissement | | PCITY | | PSTATE | |  | | | | | | | | | | | | | | | | | | |



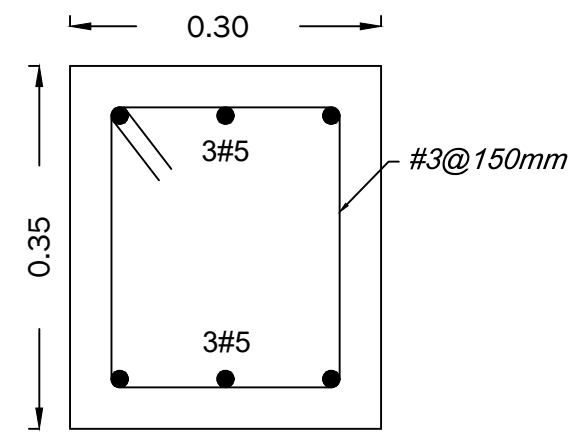
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S-05



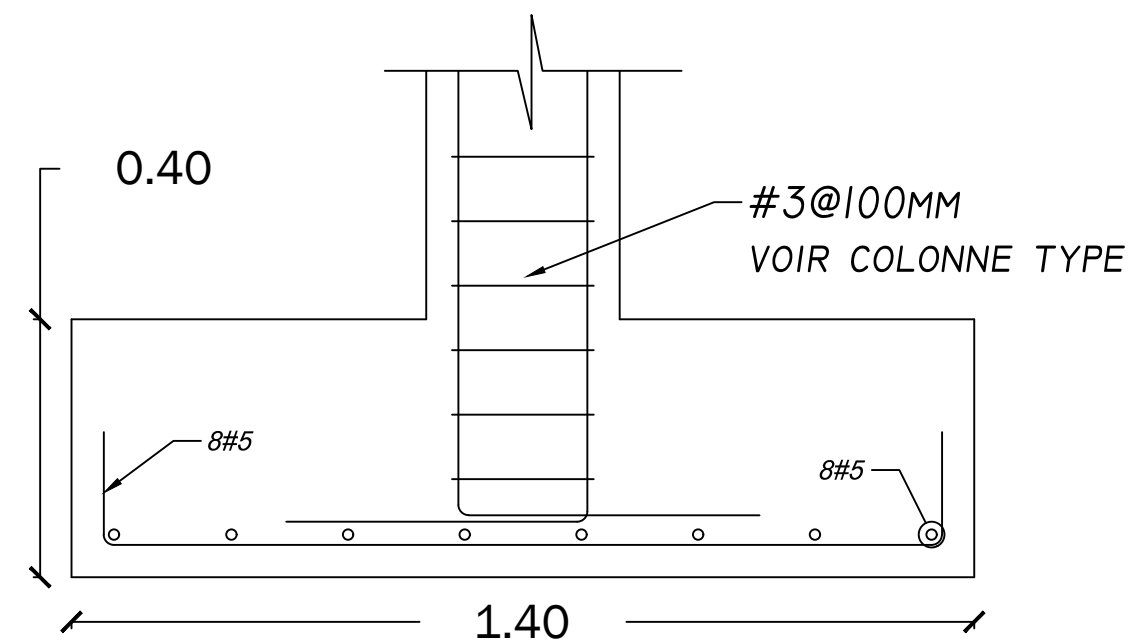
SECTION 2

2
S-05



SECTION 3

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S-05



SEMELLE TYPE

4
S-05

USAID WATER AND SANITATION PROJECT



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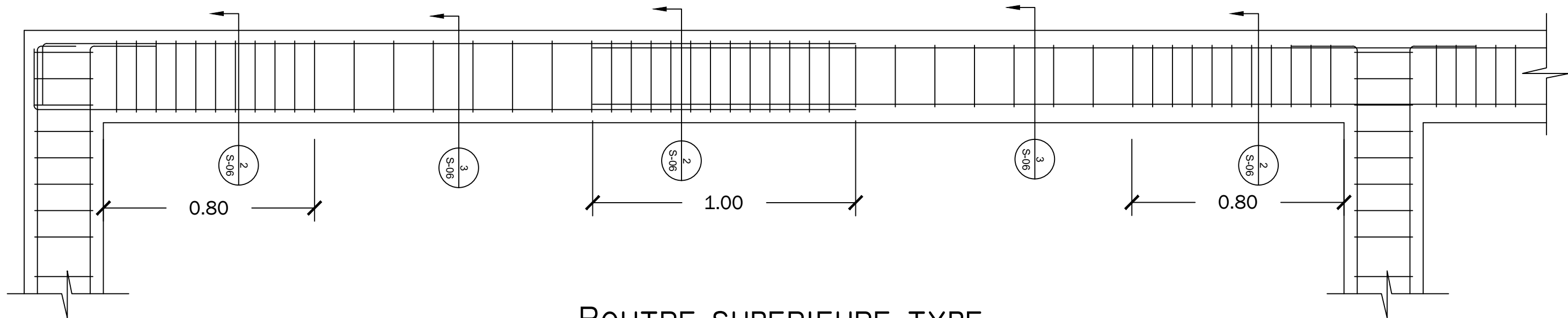
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DRAWING NO.

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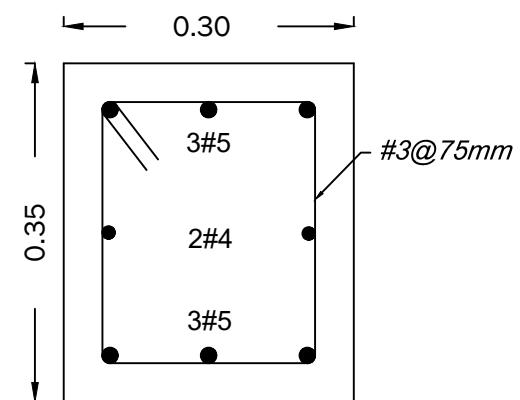
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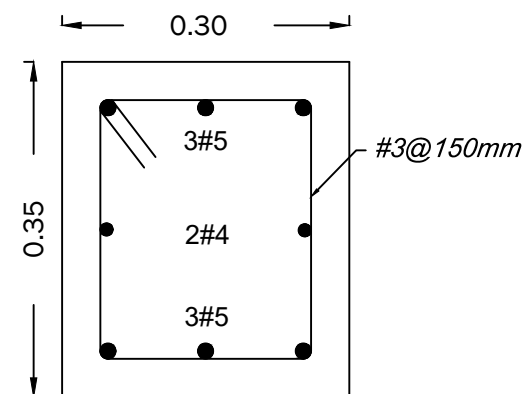
POUTRE SUPERIEURE TYPE

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S-05



SECTION 2

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SECTION 2

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USAID WATER AND SANITATION PROJECT



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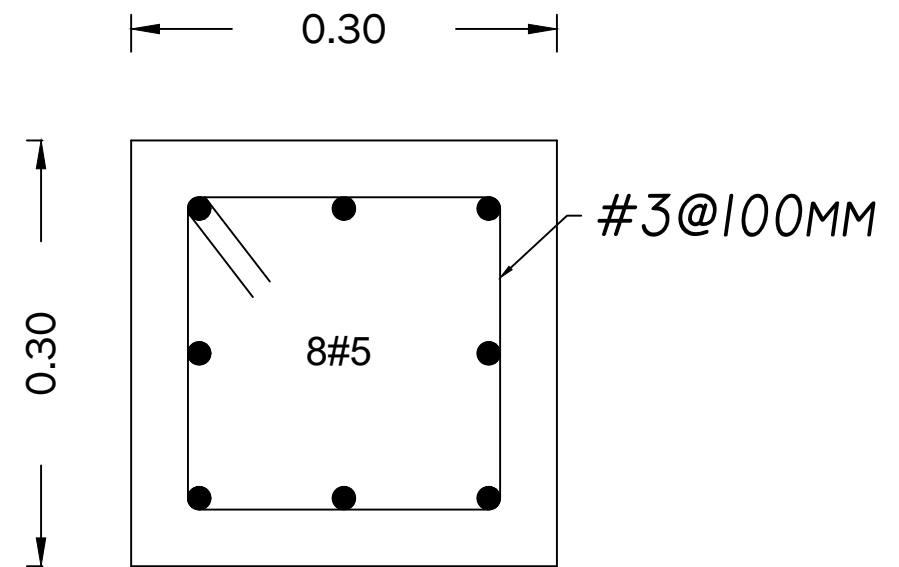
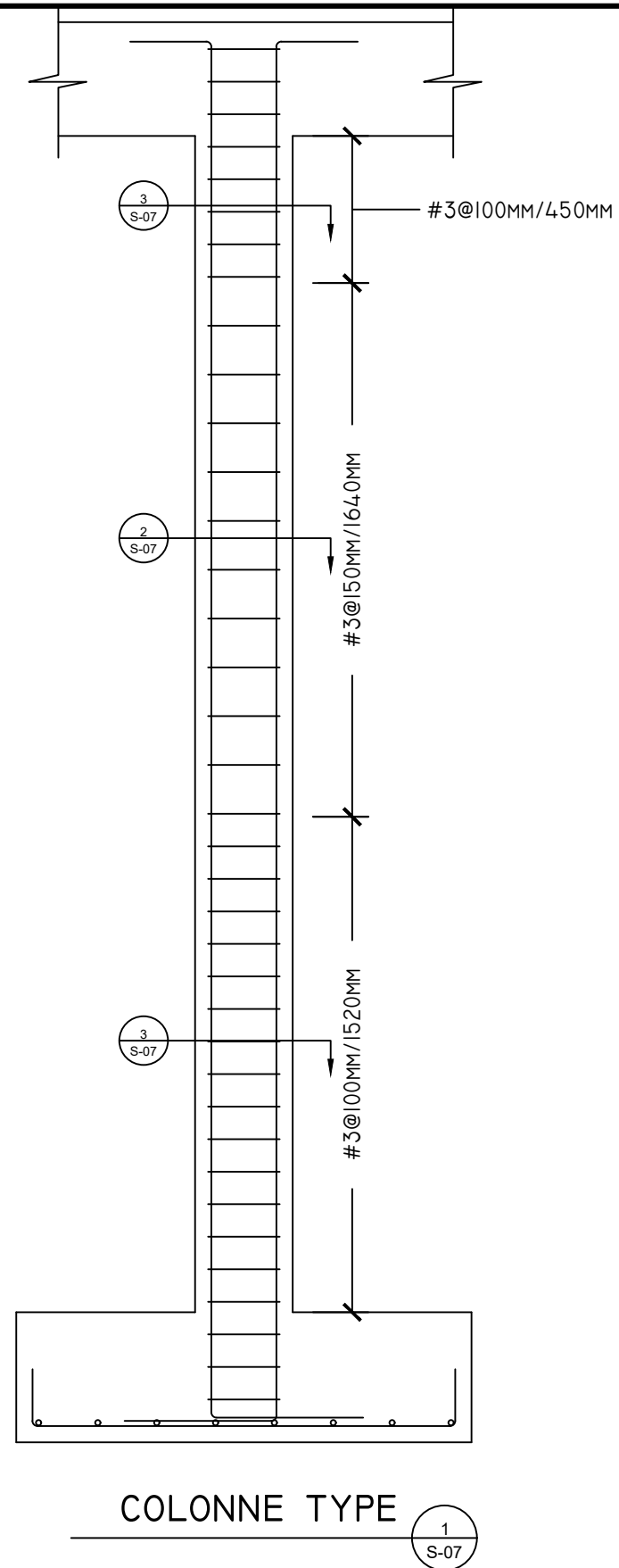
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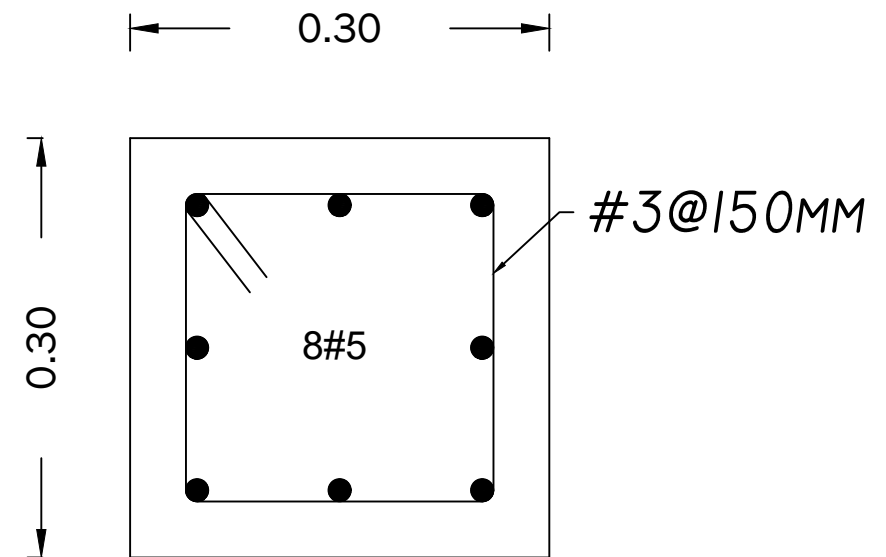
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SECTION 2

2 S-07



SECTION 3

3 S-07

USAID WATER AND SANITATION PROJECT



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PCITY

PSTATE

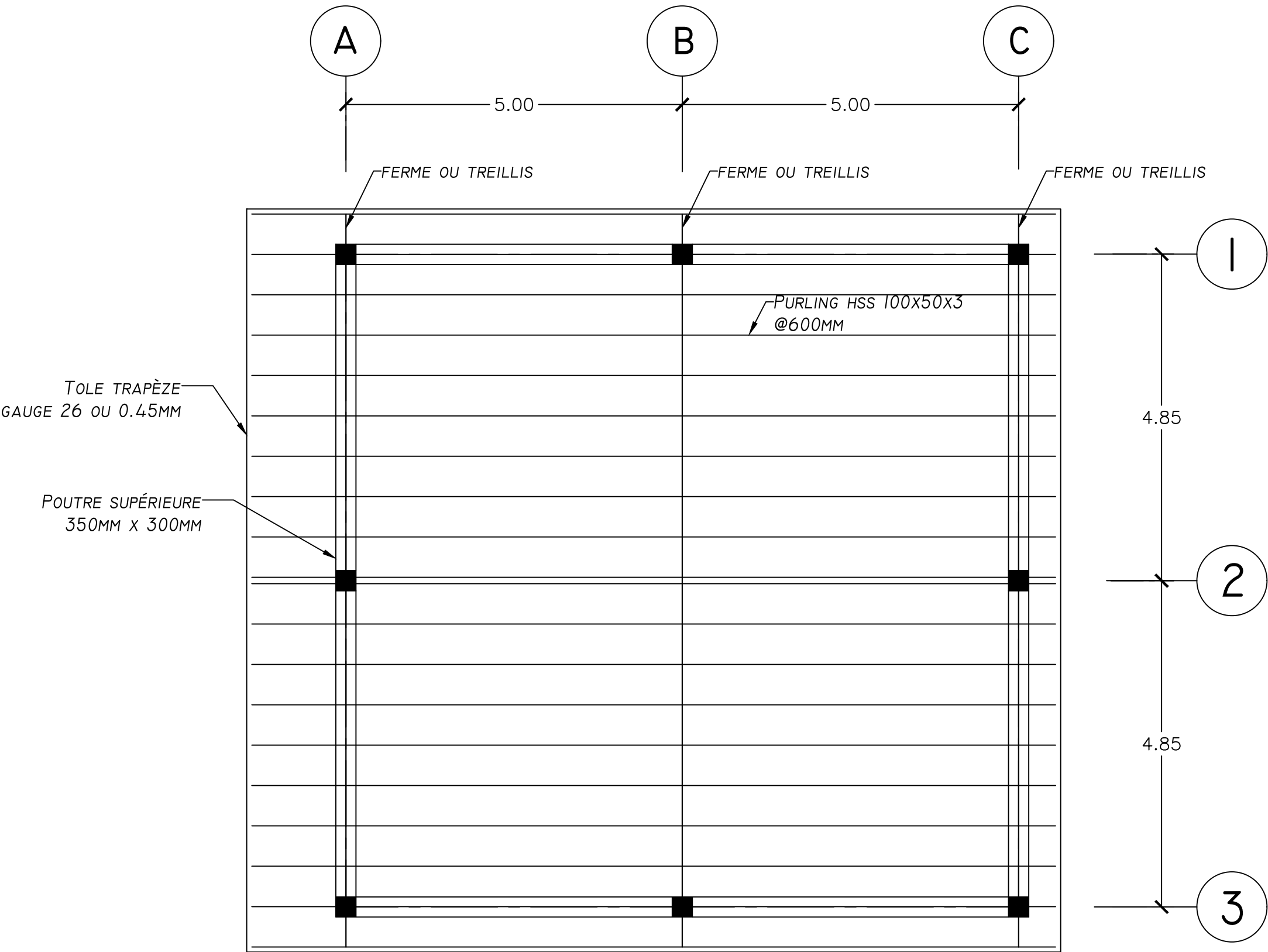
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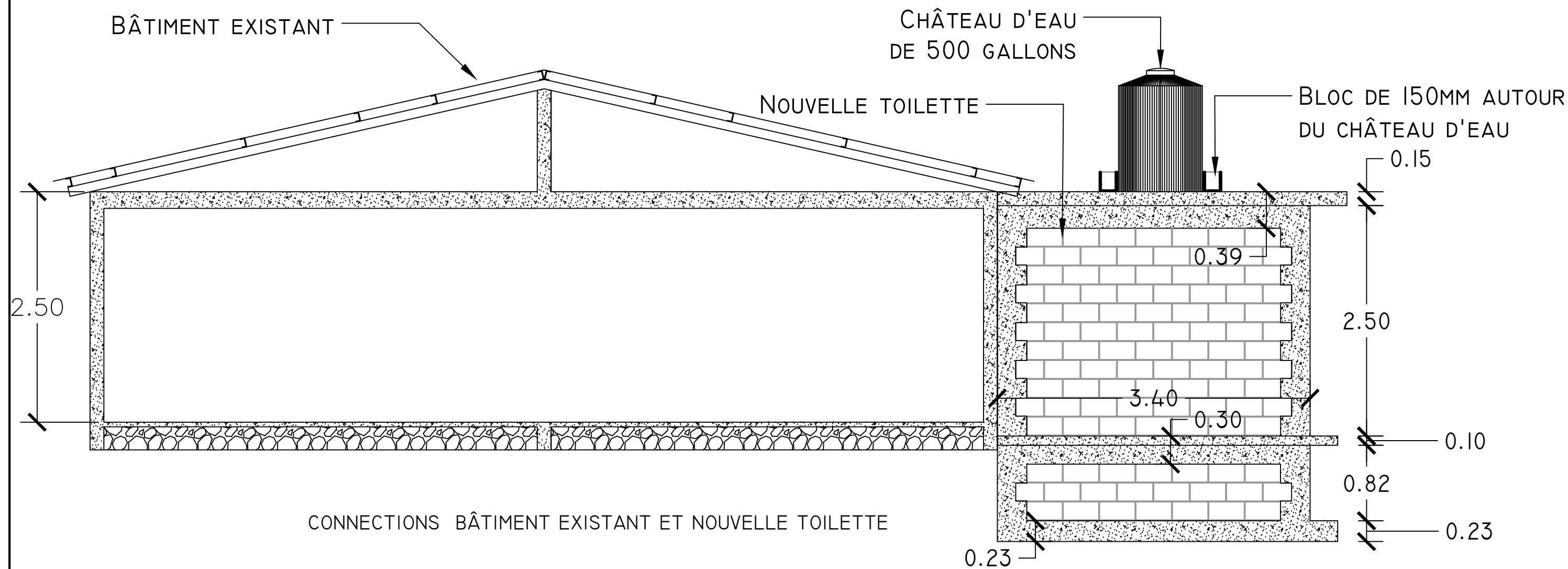
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PLAN DE TOITURE



USAID WATER AND SANITATION PROJECT



509 SANITATION

PCITY

PSTATE

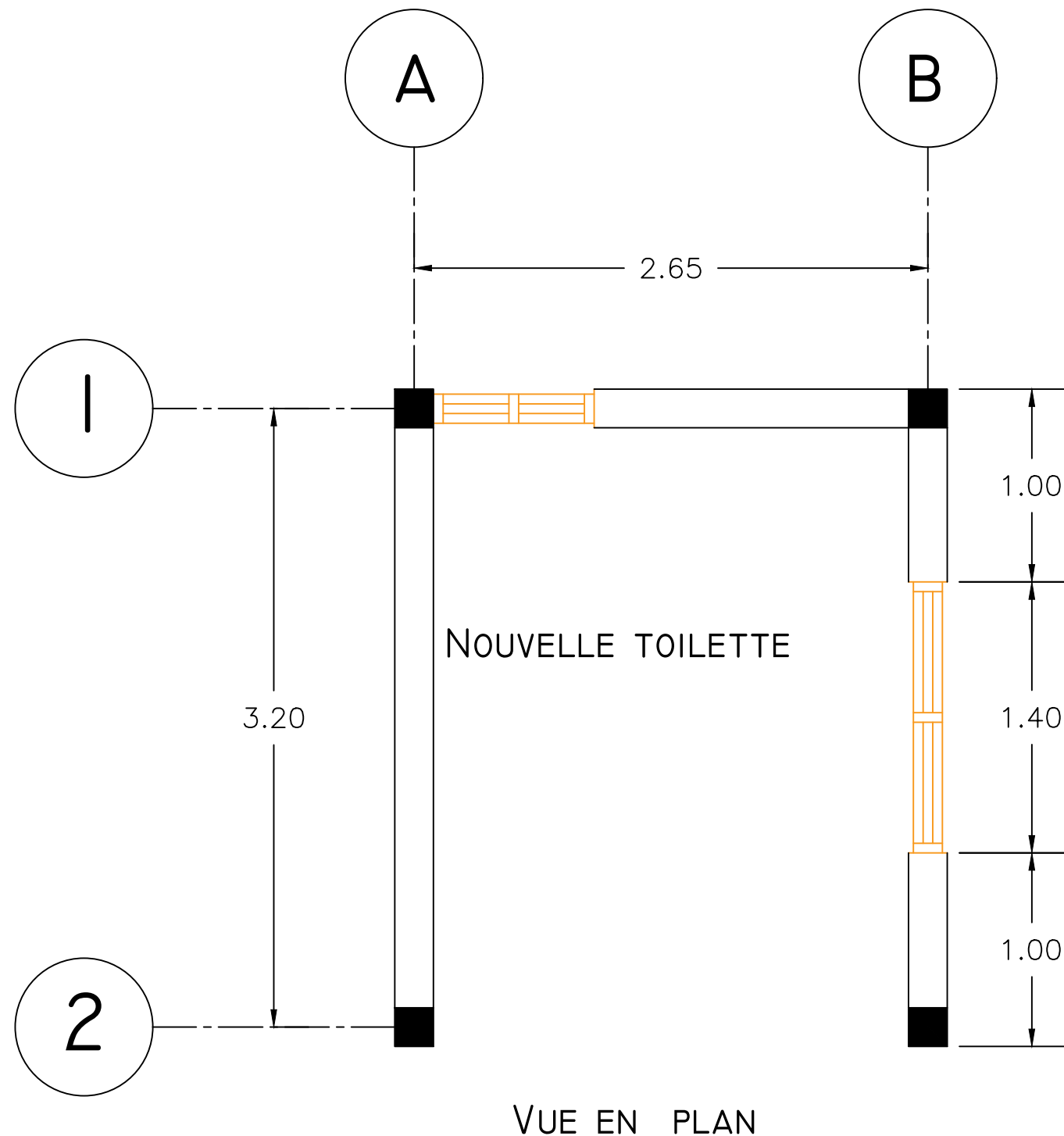
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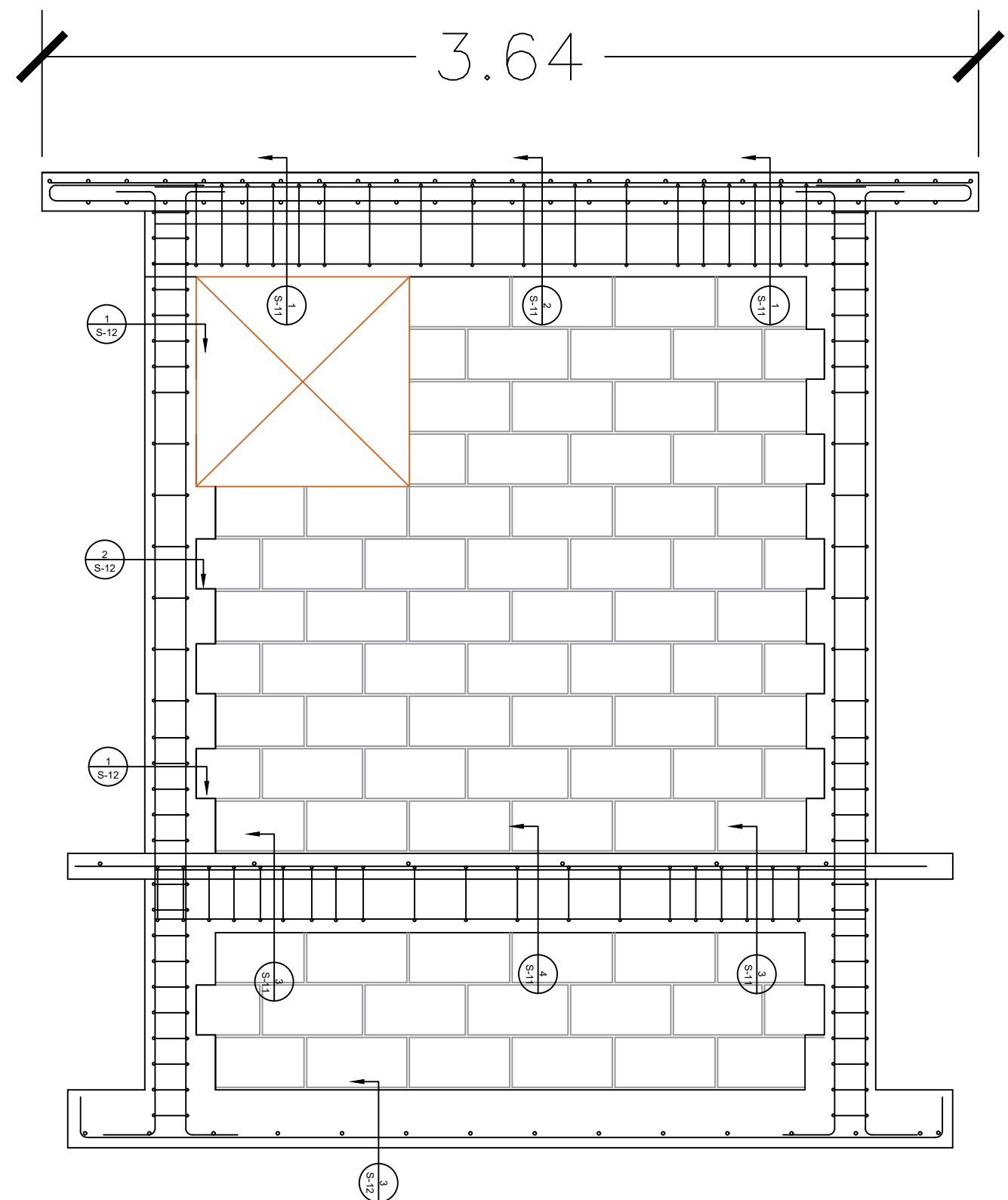
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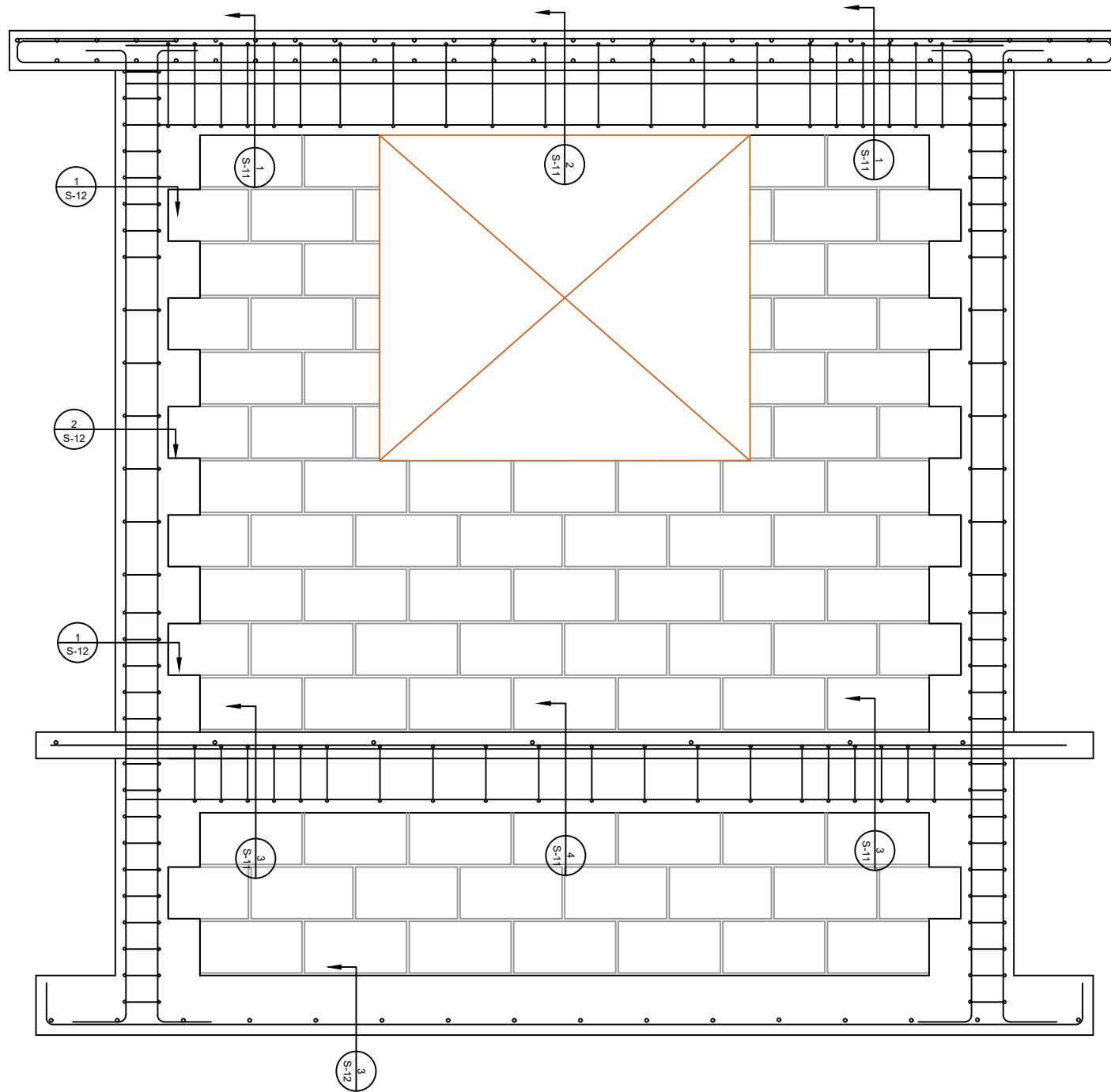




NB: VOIR PLAN S-09 POUR LES DIMENSIONS EN ÉLÉVATION

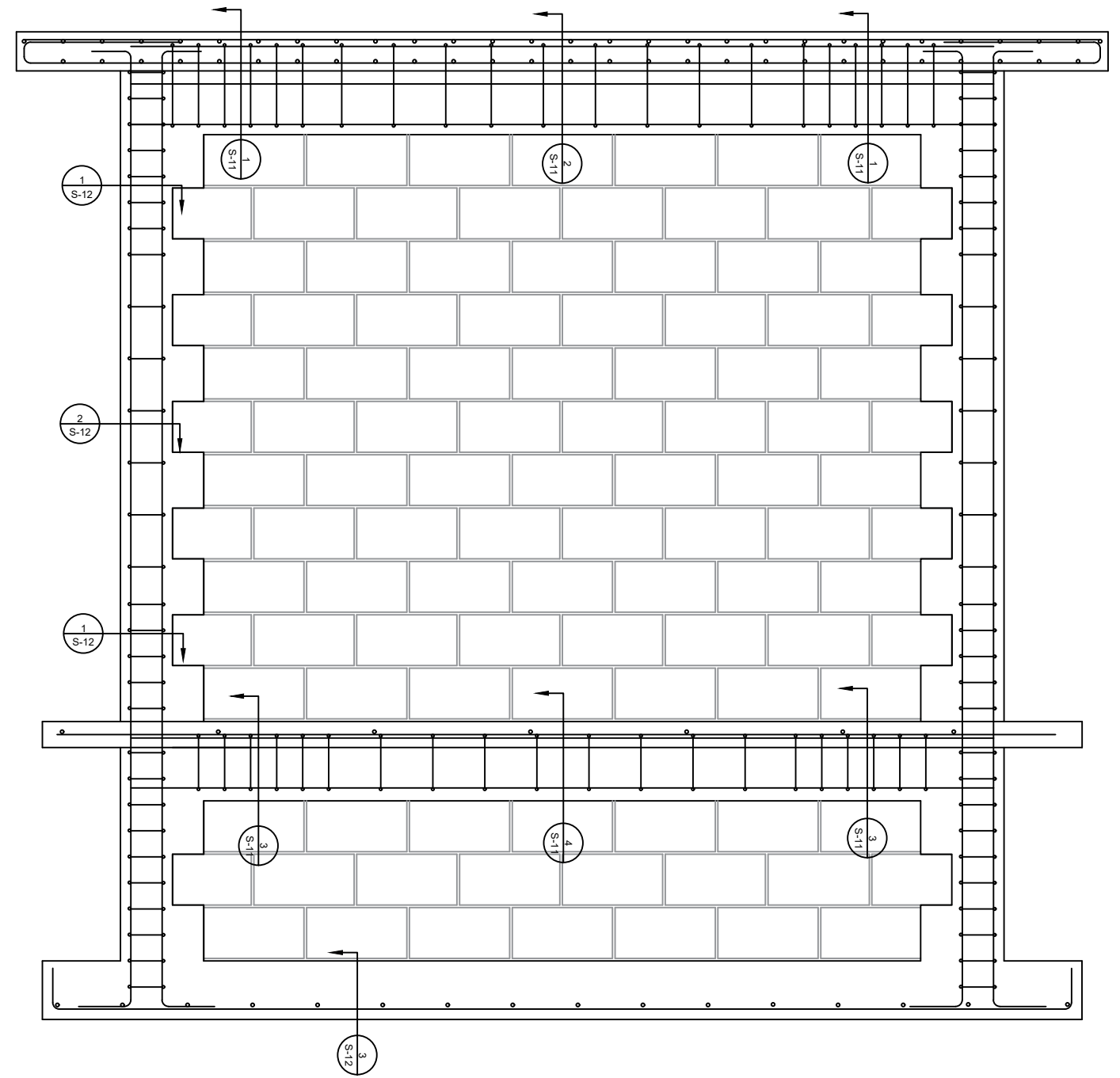


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| USAID WATER AND SANITATION PROJECT | | 509 SANITATION | VUE EN PLAN & ÉLÉVATION BÂTIMENT TOILETTE AXE 1 | DRAWING NO. S-10a | <table><tr><td></td><td>NAME</td><td>DATE</td></tr><tr><td>PROJECT NO.:</td><td>PROJNUM</td><td></td></tr><tr><td>DESIGNED BY:</td><td>EE</td><td>O/DATE</td></tr><tr><td>DRAWN BY:</td><td>RB & EE</td><td>O/DATE</td></tr><tr><td>CHECKED BY:</td><td>RM</td><td></td></tr><tr><td>APPROVED BY:</td><td>RM</td><td></td></tr></table> | | | NAME | DATE | PROJECT NO.: | PROJNUM | | DESIGNED BY: | EE | O/DATE | DRAWN BY: | RB & EE | O/DATE | CHECKED BY: | RM | | APPROVED BY: | RM | |  |
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|  | | | | | | | | | | | | | | | | | | | | | | | | | |
| PCITY | | PSTATE | | | | | | | | | | | | | | | | | | | | | | | |



VUE EN ÉLÉVATION AXE B

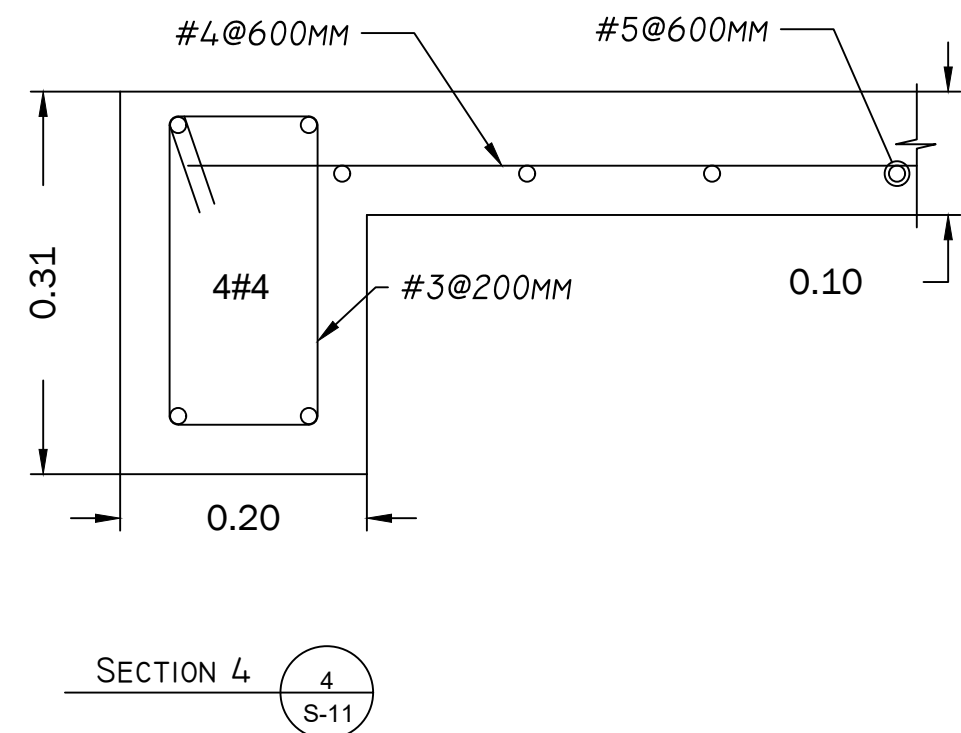
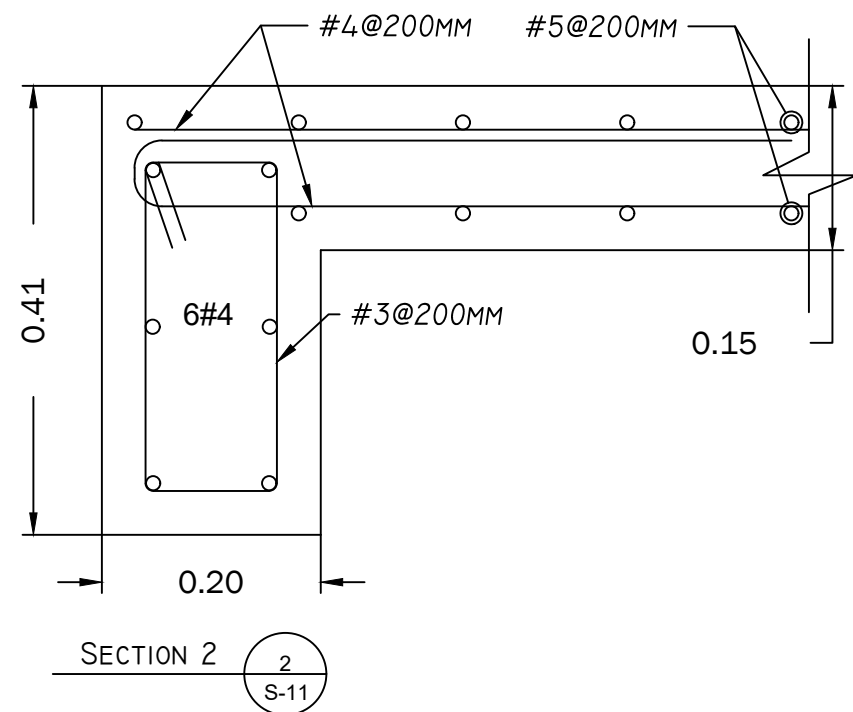
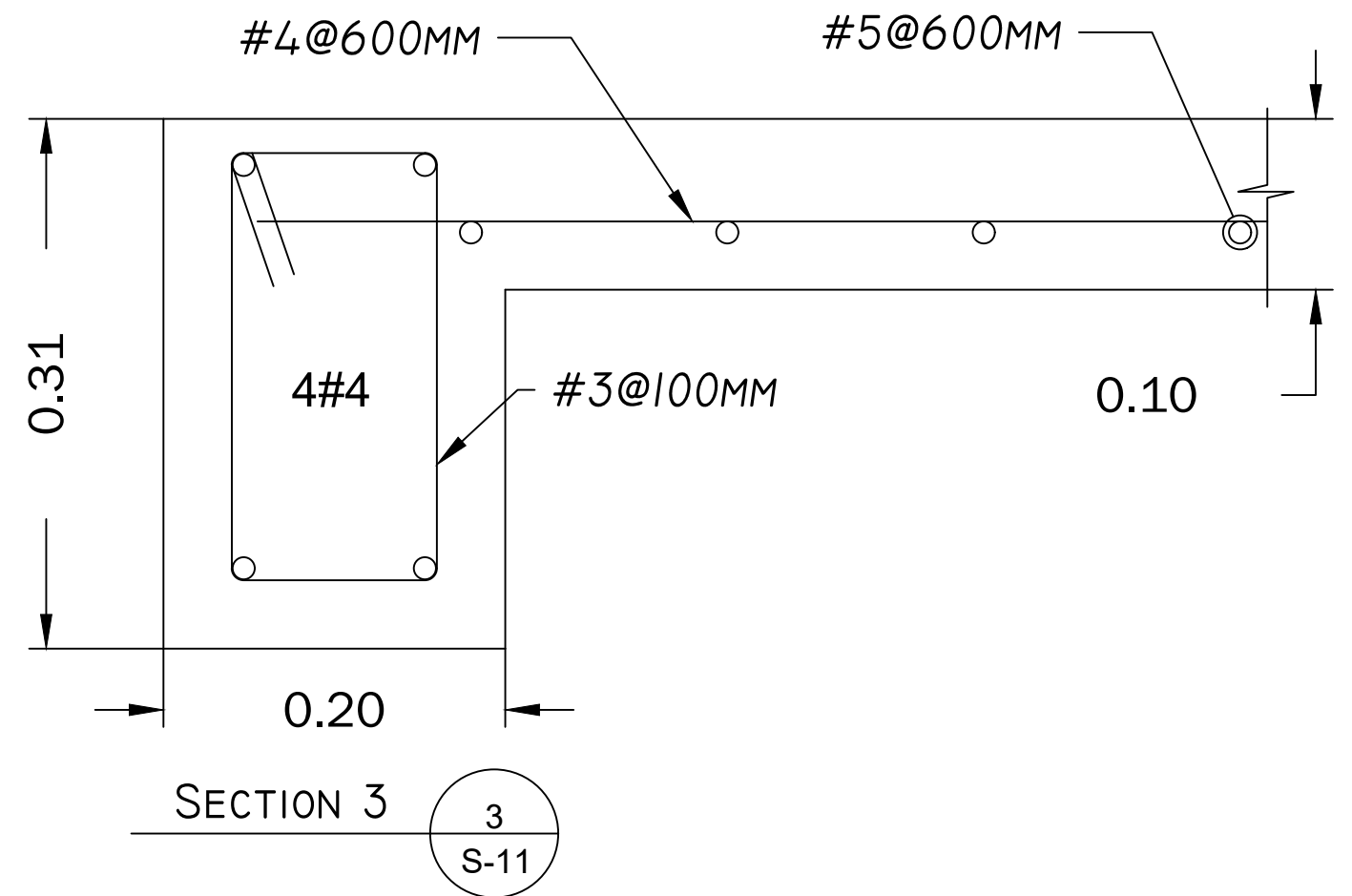
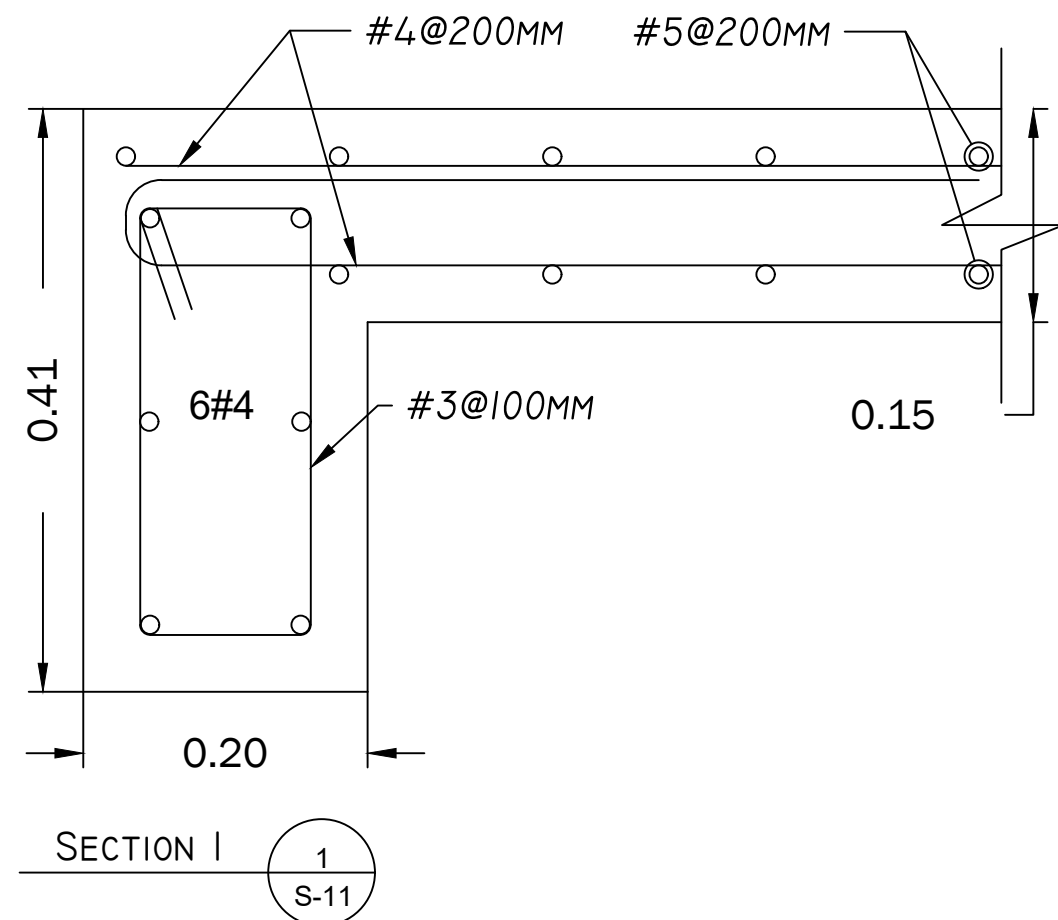
NB: VOIR PLAN S-09 POUR LES DIMENSIONS EN ÉLÉVATION

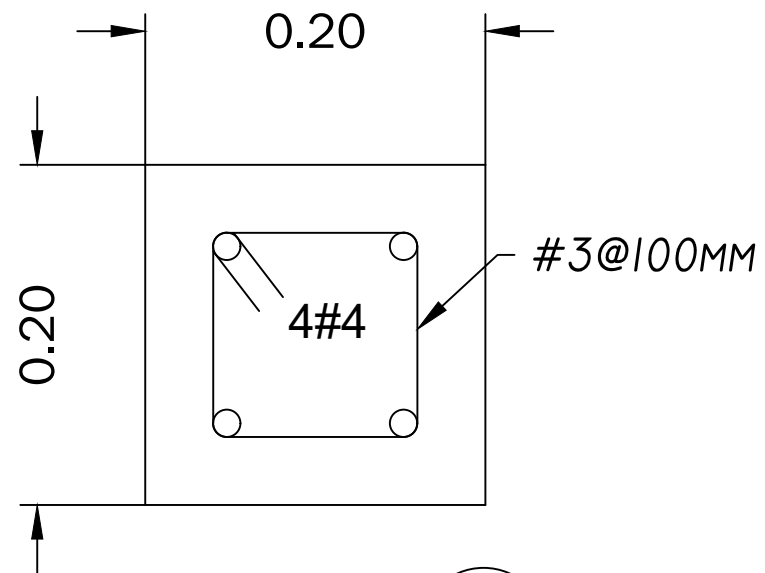


VUE EN ÉLÉVATION AXE A

NB: VOIR PLAN S-09 POUR LES DIMENSIONS EN ÉLÉVATION

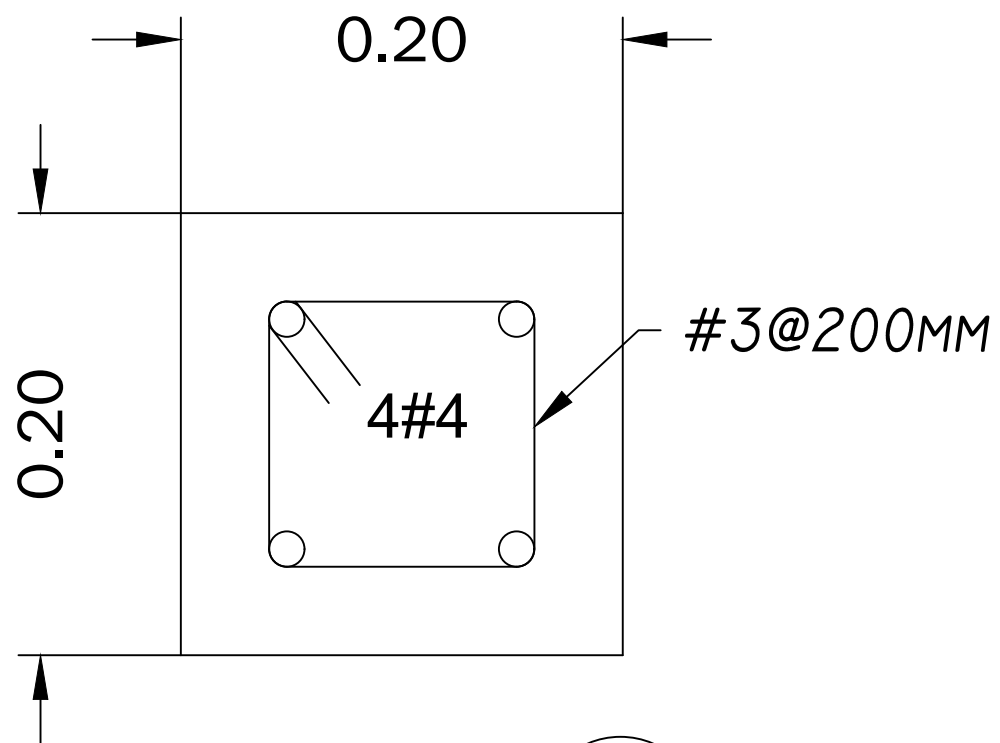
| <div>USAID WATER AND SANITATION PROJECT</div> <div> USAID HAITI  DINEPA Direction Nationale de l'Eau Potable et de l'Assainissement</div> | | 509 SANITATION | VUE EN ÉLÉVATION BÂTIMENT TOILETTE AXE A&B | <div>DRAWING NO.</div> <div>S-10</div> | <table><tr><th></th><th>NAME</th><th>DATE</th></tr><tr><td>PROJECT NO.:</td><td>PROJNUM</td><td></td></tr><tr><td>DESIGNED BY:</td><td>EE</td><td>O/DATE</td></tr><tr><td>DRAWN BY:</td><td>RB & EE</td><td>O/DATE</td></tr><tr><td>CHECKED BY:</td><td>RM</td><td></td></tr><tr><td>APPROVED BY:</td><td>RM</td><td></td></tr></table> | | NAME | DATE | PROJECT NO.: | PROJNUM | | DESIGNED BY: | EE | O/DATE | DRAWN BY: | RB & EE | O/DATE | CHECKED BY: | RM | | APPROVED BY: | RM | |   |
|--|---------|----------------|---|--|---|--|------|------|--------------|---------|--|--------------|----|--------|-----------|---------|--------|-------------|----|--|--------------|----|--|---|
| | NAME | DATE | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT NO.: | PROJNUM | | | | | | | | | | | | | | | | | | | | | | | |
| DESIGNED BY: | EE | O/DATE | | | | | | | | | | | | | | | | | | | | | | |
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| <div>PCITY</div> <div>PSTATE</div> | | | | | | | | | | | | | | | | | | | | | | | | |





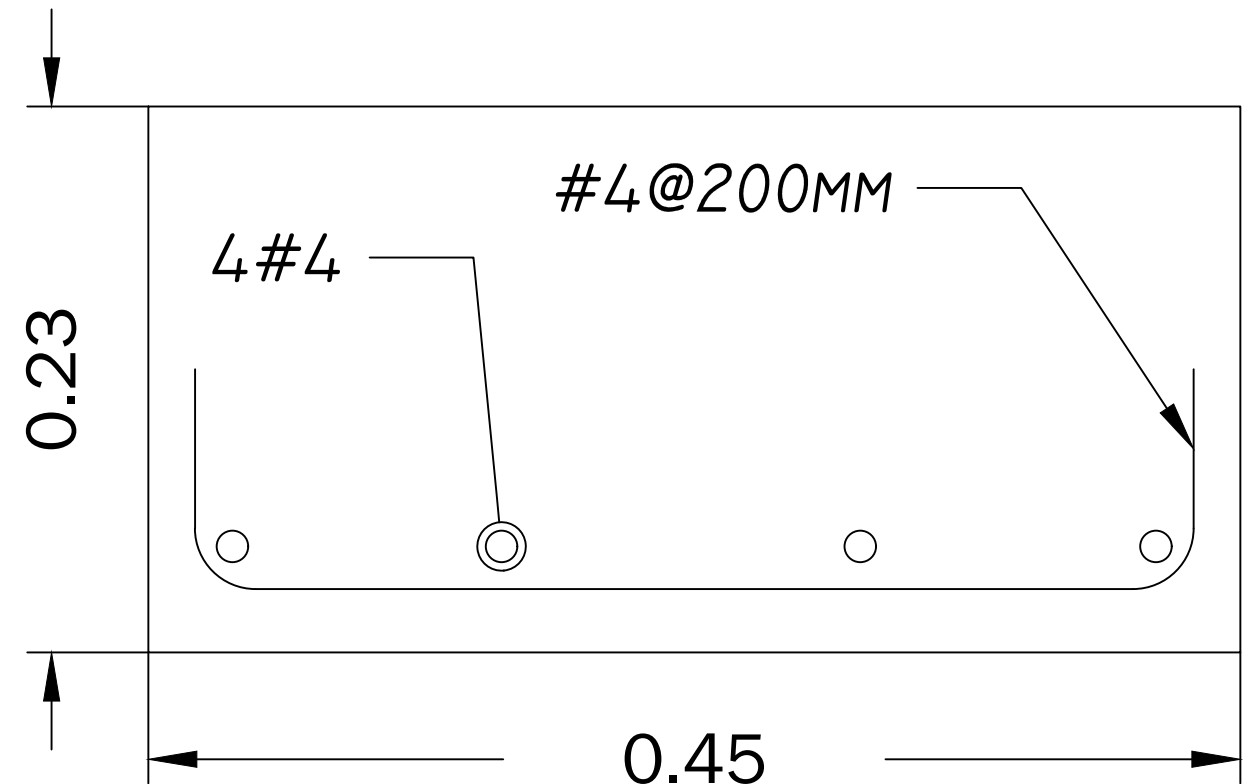
SECTION 1

1
S-12



SECTION 2

2
S-12



SECTION 3

3
S-12

USAID WATER AND SANITATION PROJECT



509 SANITATION

PCITY

PSTATE

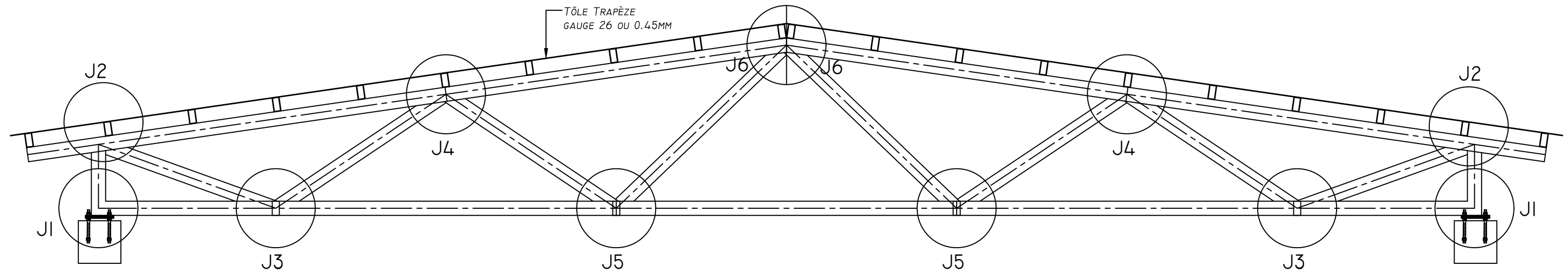
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ET FONDATION

DRAWING NO.

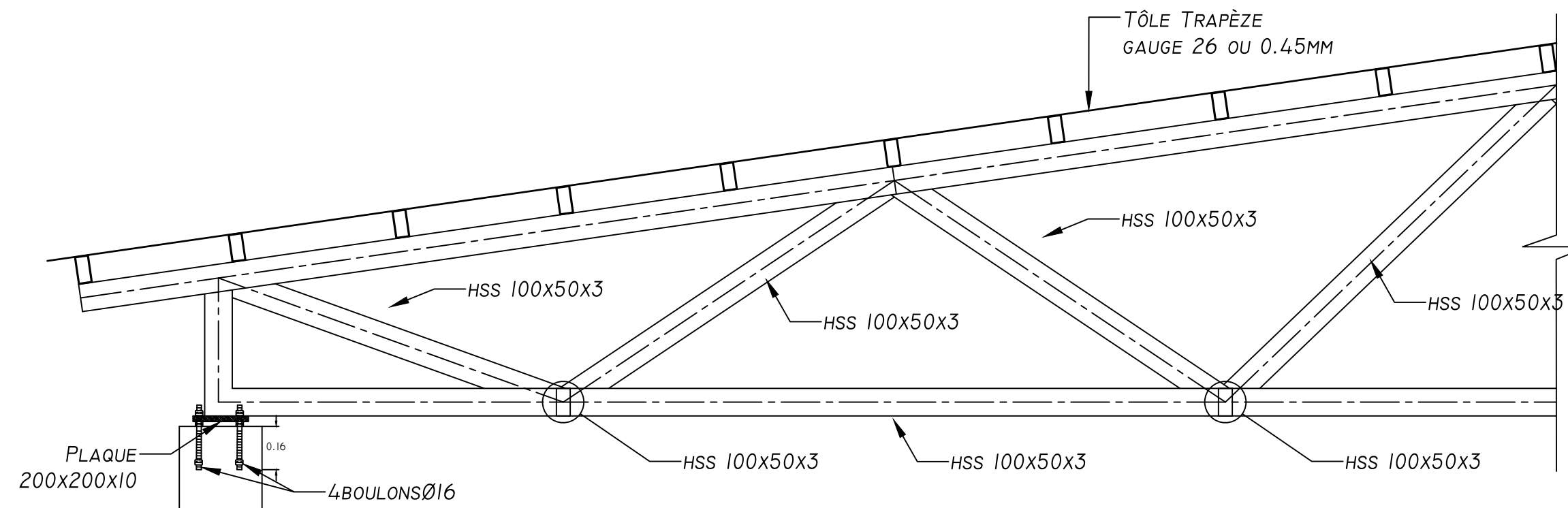
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| | NAME | DATE |
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| DRAWN BY: | RB & EE | O/DATE |
| CHECKED BY: | RM | |
| APPROVED BY: | RM | |





FERME DE LA TOITURE



DÉTAILS FERME DE LA TOITURE

USAID WATER AND SANITATION PROJECT



509 SANITATION

PCITY

PSTATE

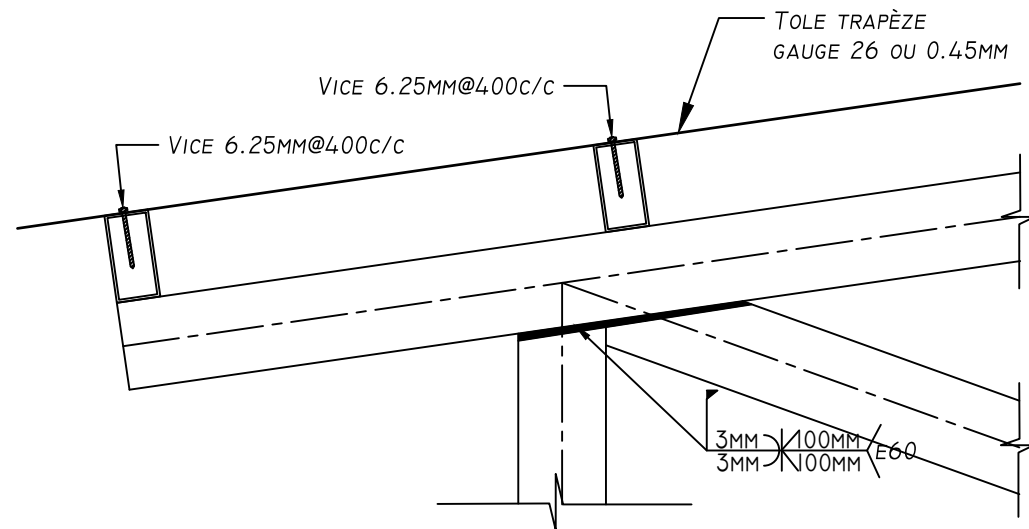
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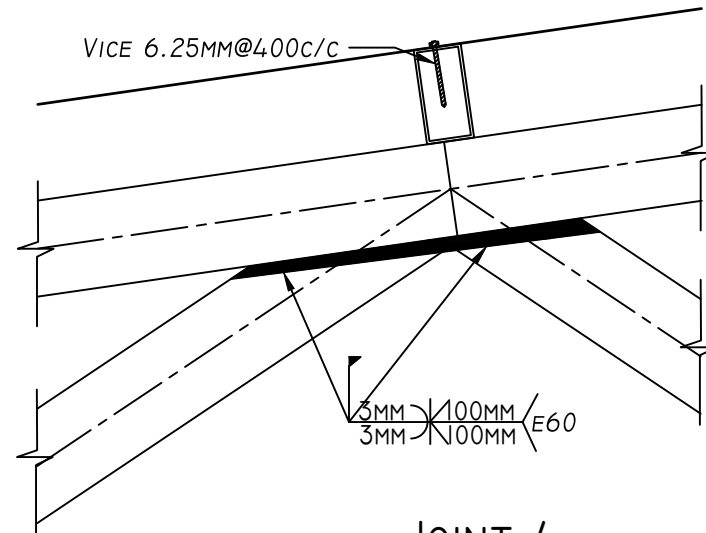
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| APPROVED BY: | PM | |

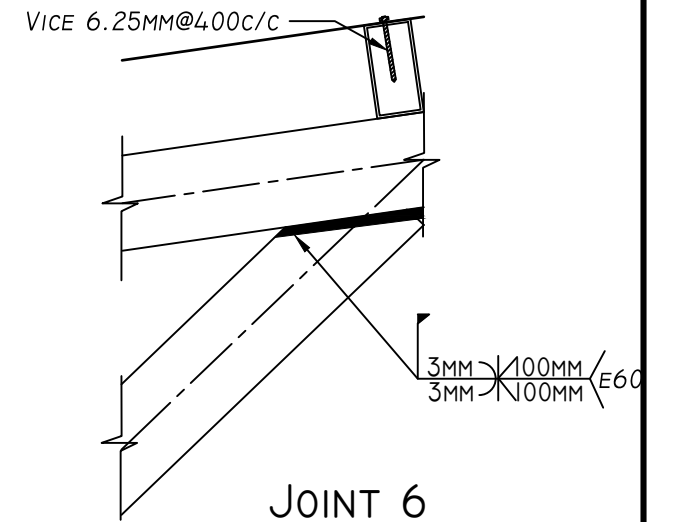




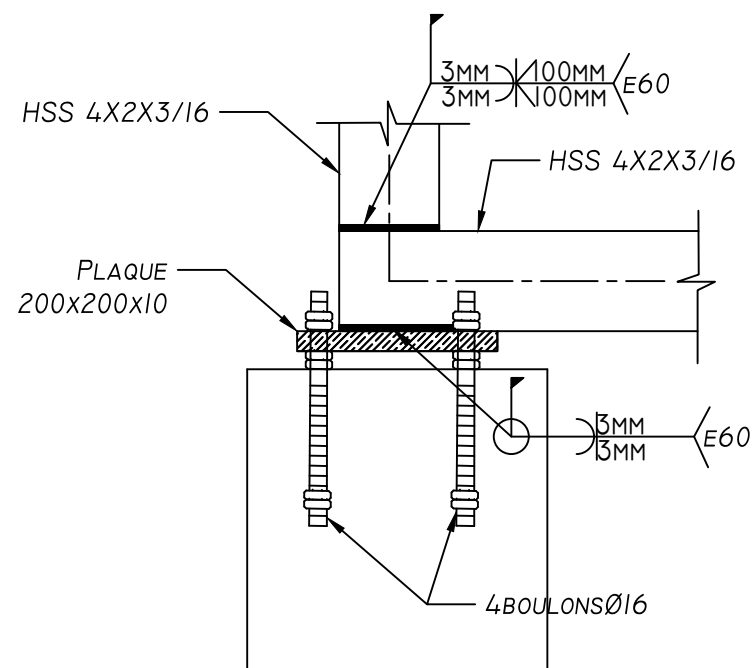
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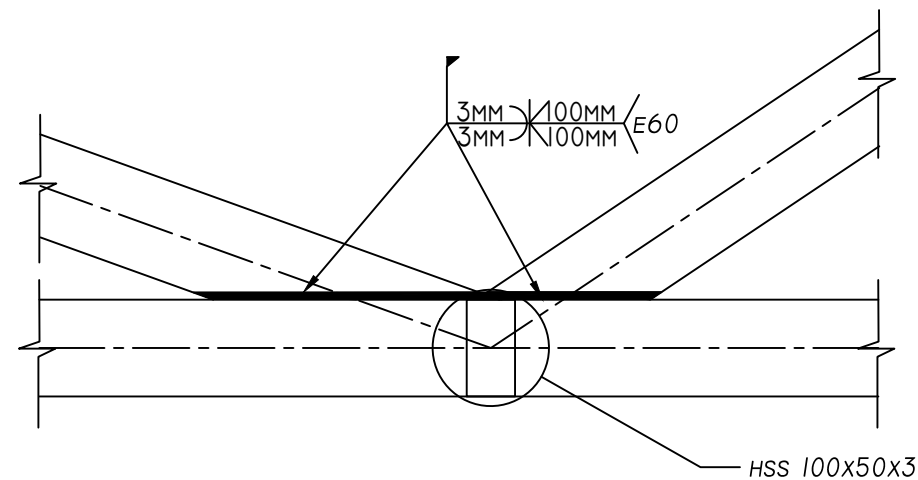
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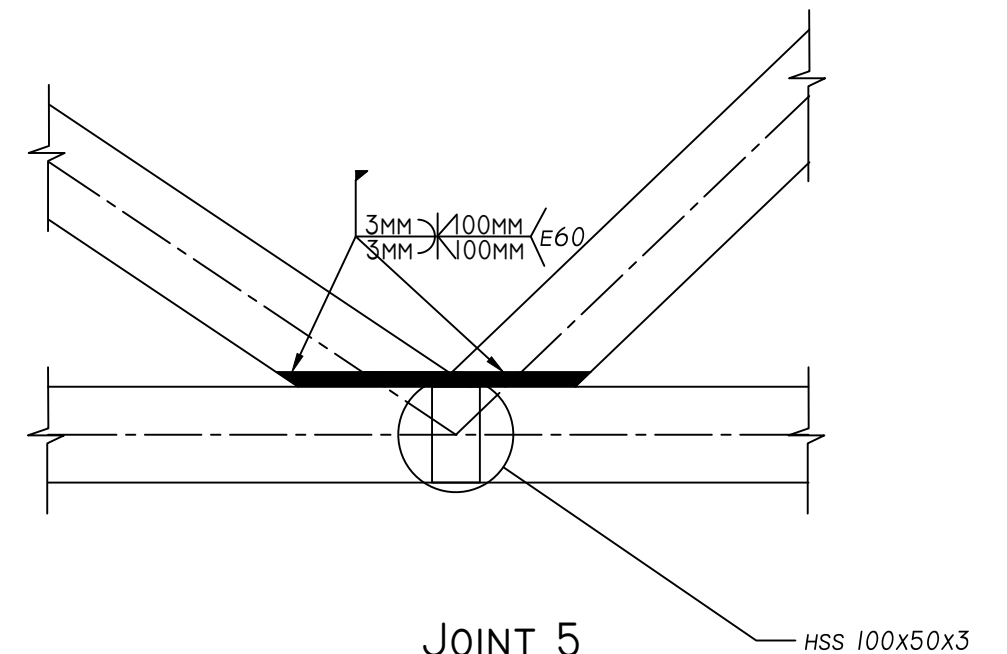
JOINT 6



JOINT 1



JOINT 3



JOINT 5

USAID WATER AND SANITATION PROJECT



509 SANITATION

PCITY

PSTATE

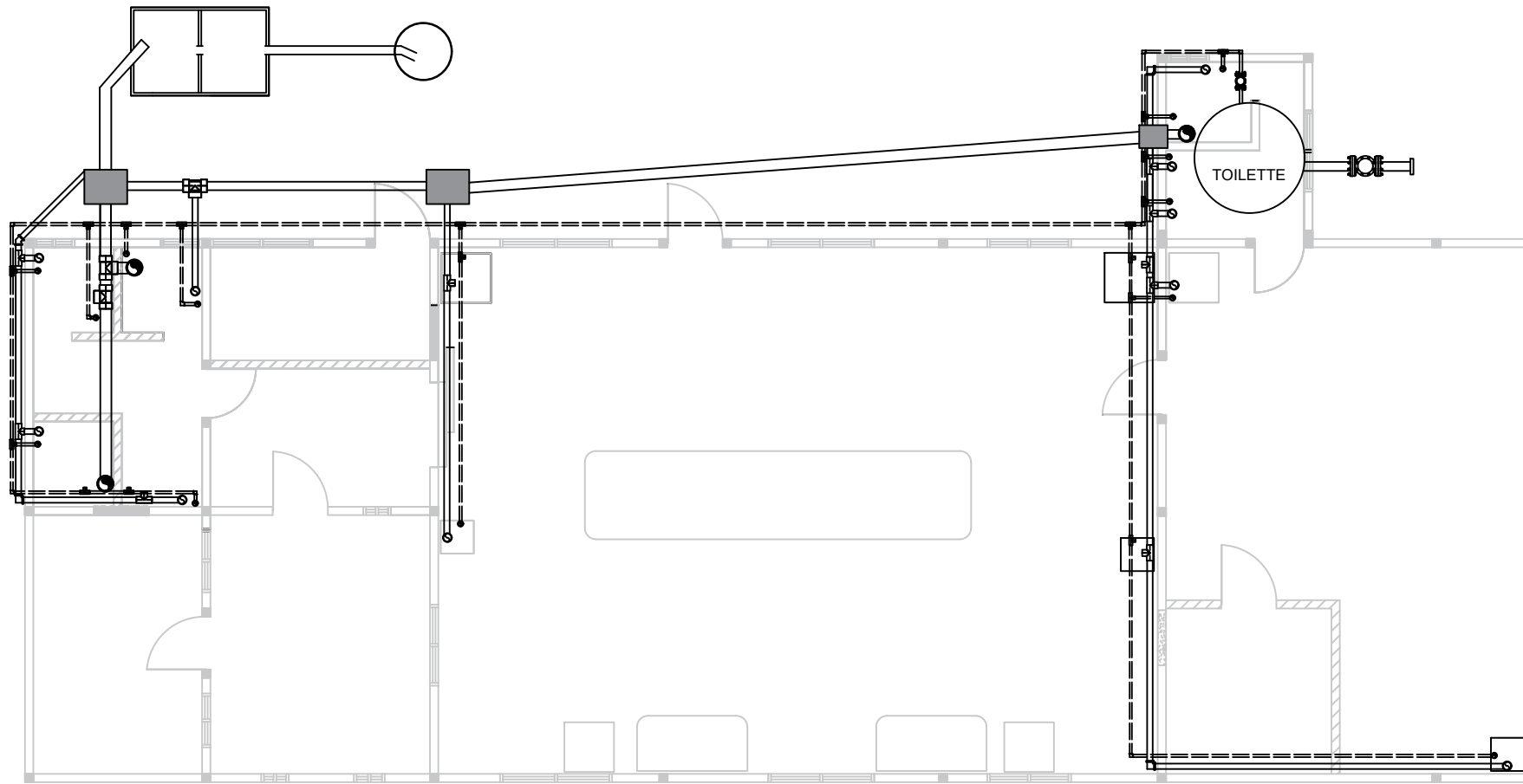
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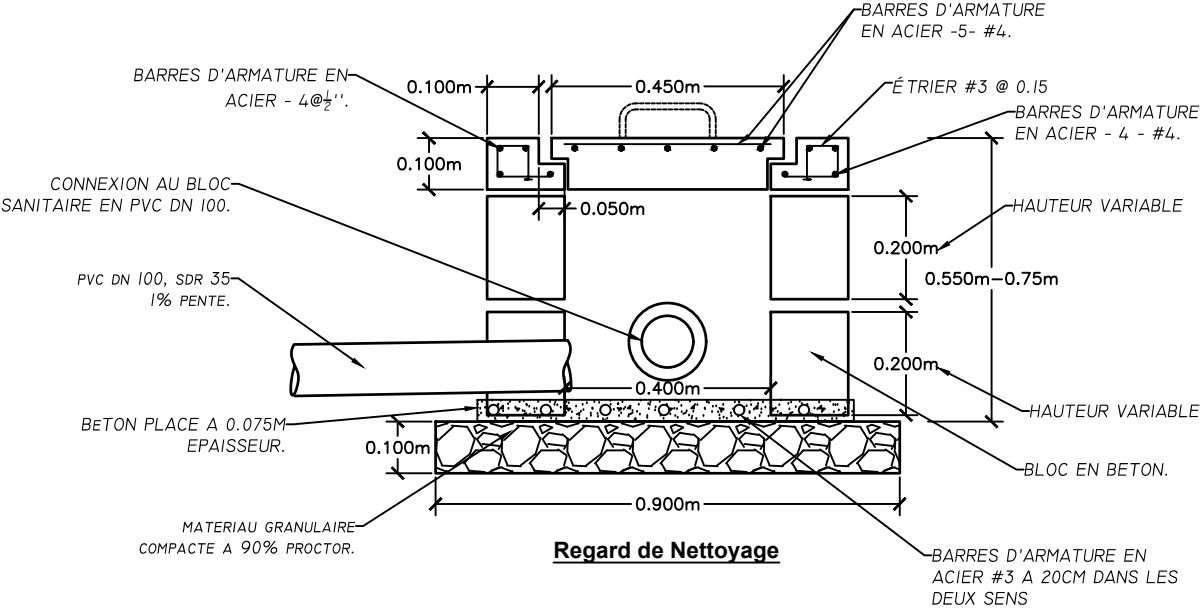
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| | NAME | DATE |
|--------------|---------|--------|
| PROJECT NO.: | PROJNUM | |
| DESIGNED BY: | RB | O/DATE |
| DRAWN BY: | RB | O/DATE |
| CHECKED BY: | CKBY | |
| APPROVED BY: | PM | |





PLAN DE PLOMBERIE



USAID WATER AND SANITATION PROJECT

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509 SANITATION

PCITY

PSTATE

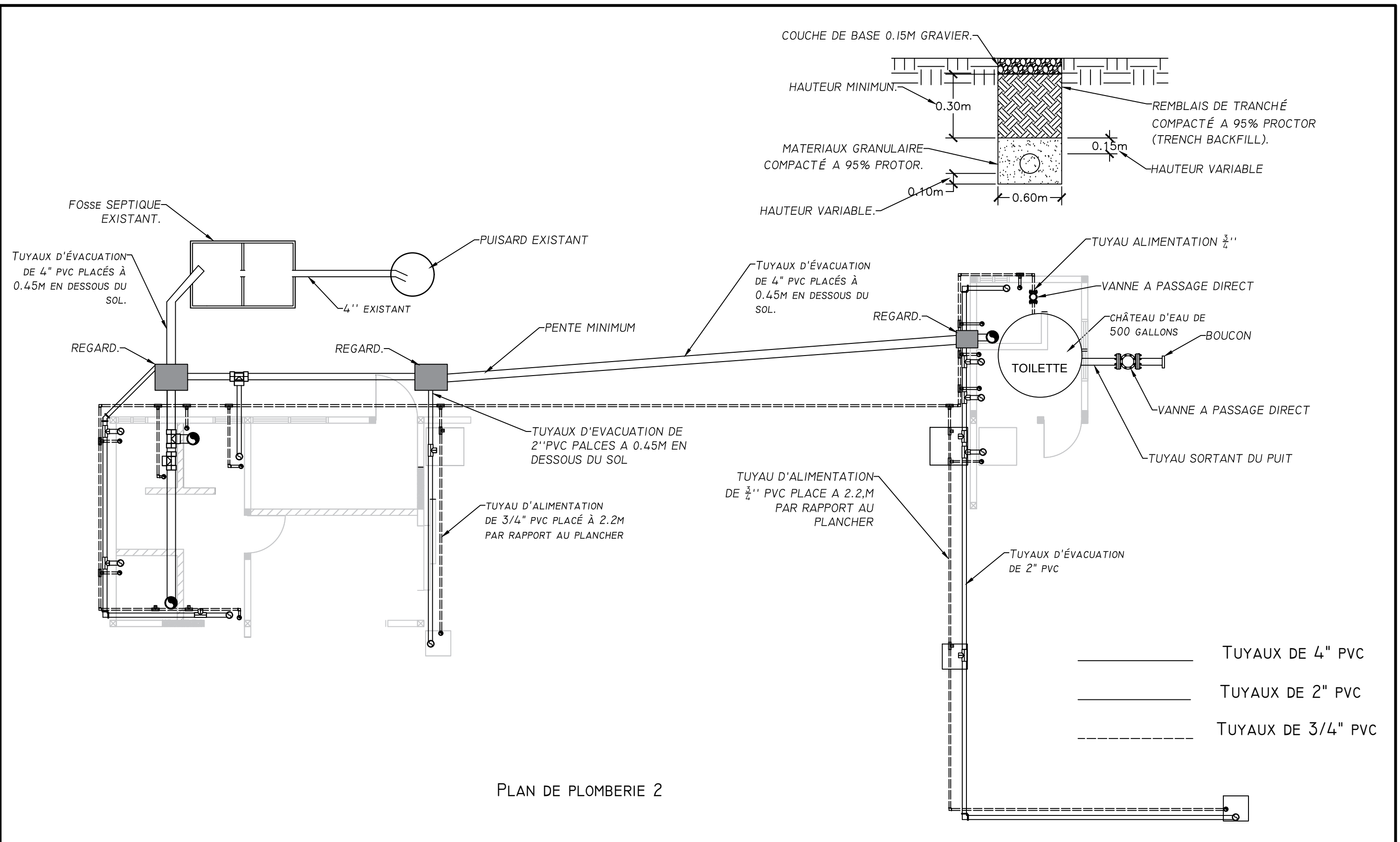
PLAN DE PLOMBERIE

DRAWING NO.

S-15

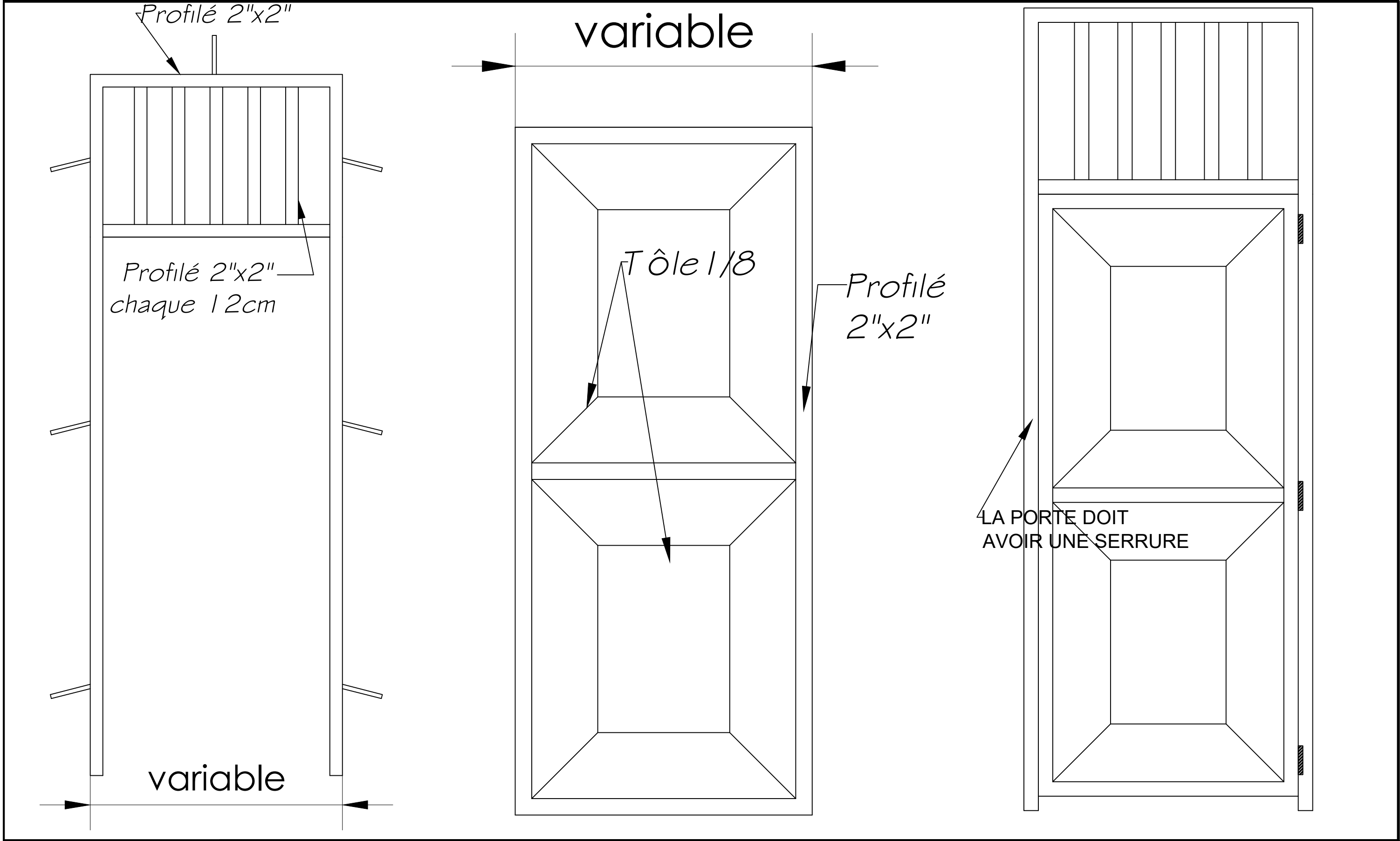
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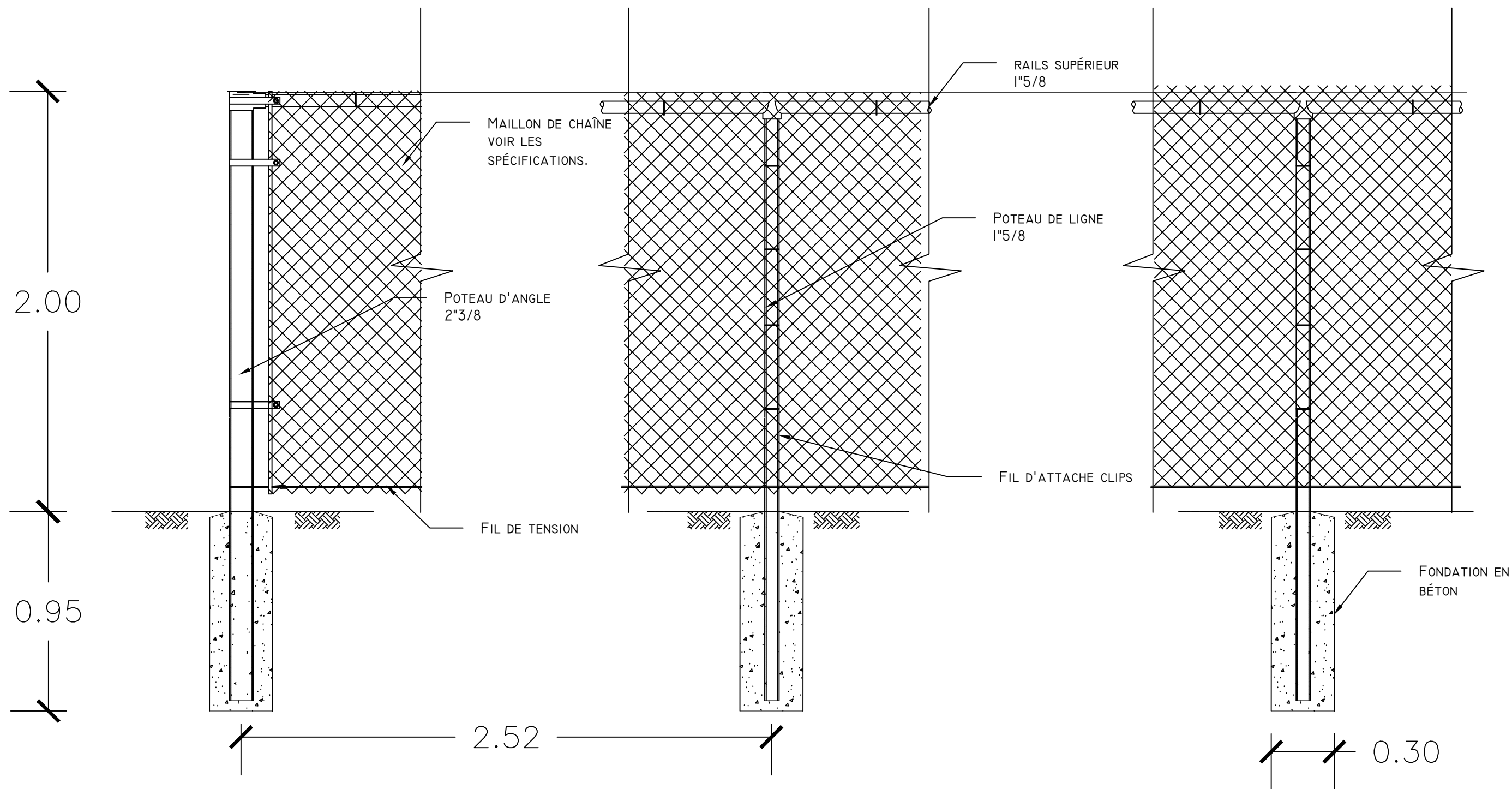
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PLAN DE PLOMBERIE 2

| | | | | | | | | |
|---|--|----------------|---------------------|-------------------------|--------------|---------|--------|---|
| USAID WATER AND SANITATION PROJECT | | 509 SANITATION | PLAN DE PLOMBERIE 2 | DRAWING NO. S-16 | | NAME | DATE | ..\\..\\..\\..\\Desktop\\All Folders\\Logos\\Logo 2.PNG |
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| | | | | | CHECKED BY: | RM | | |
| | | | | | APPROVED BY: | RM | | |
| | | | | | PCITY | | PSTATE | |





VUE EN ÉLÉVATION CLÔTURE EN CYCLO-FENCE

USAID WATER AND SANITATION PROJECT



509 SANITATION

PCITY

PSTATE

DÉTAILS CLÔTURE

DRAWING NO.






S-18

| | NAME | DATE |
|--------------|---------|--------|
| PROJECT NO.: | PROJNUM | |
| DESIGNED BY: | EE | OIDATE |
| DRAWN BY: | RB & EE | OIDATE |
| CHECKED BY: | RM | |
| APPROVED BY: | RM | |





LÉGENDES





SERVICES

| | | |
|---|------------------------------------|--|
|  | PANNEAU DE LA GÉNÉRATRICE PG | 300AMPS, 120/208V, 60HZ, 3P |
|  | PANNEAU ÉLECTRIQUE PRINCIPAL PB | 100 AMPS, 120/208V, 60HZ,3P |
|  | PANNEAU ÉLECTRIQUE LC | 40AMPS, 120/208V, 60HZ, 2P |
|  | CHARGEUR ONDULEUR HYBRIDE ANY-GRID | PHOCOS (PSH-H-3kW-120/24V) - 24 VCC - 3000 VA / 3000 W 120 Vca - 60HZ |
|  | TRANSFORMATEUR SEC | 75KVA, 3P, 120/208Y - 480 |




PRISES ELECTRIQUES

| | | |
|---|----------------------------------|--|
|  | PRISE DUPLEX @H:35CM DU SOL FINI | LEVITON DECORA 15 AMP TAMPER-RESISTANT DUPLEX OUTLET, WHITE + LEVITON 1-GANG DECORATOR/ROCKER PLATE, WHITE QT:22 |
|  | PRISE DUPLEX DE TABLE AVEC GFCI | POP-UP FLOOR BOX WITH DUAL TYPE A, 3.6 AMP USB CHARGER, 15 AMP OUTLET, BRUSHED NICKEL QT:2 |

CTR (COUNTERTOP): PLACÉ À 10 CM DE LA SUURFACE FINIE - - - WP (WEATHERPROOF) PRISE ÉLECTRQUE AVEC COUVERTURE IMPERMÉABLE
GFCI (GROUND FAULT CIRCUIT INTERRUPTOR)

| | |
|---|------------------------------------|
|  | BOITE DE JONCTION |
|  | BOITE DE JONCTION |
|  | INTERRUPTEUR DE SÉCURITÉ |
|  | INTERRUPTEUR DE SÉCURITÉ A FUSIBLE |

LUMINAIRE

| | | |
|---|--|--|
|  | LUMINAIRE SUSPENDU 1X5W 120VOLTS, 60HZ - 450 LUMENS | LIGHT BLACK WARE HOUSE PENDANT WITH METAL SHADE BY HAMPTON BAY +SOFT WHITE (2700K) A15 CLEAR GLASS E26 BASE REFRIGERATOR LED LIGHT BULB BY FEIT ELECTRIC QT:7 |
|  | LUMINAIRE SUSPENDU A LED (60W) 120VOLTS, 60HZ - 5500 LUMENS | 4 FT LED HEAVY DUTY SHOPLIGHT (MODÈLE 54591142) BRUSHED NICKEL SHOP LIGHT 4000K HIGH OUTPUT 5500 LUMENS LINKABLE BY COMMERCIAL ELECTRIC QT:37 |
|  | LUMINAIRE MURAL POUR ÉCLAIRAGE EXTÉRIEUR | AL BRONZE INTERATED LED SECURITY AREA LIGHT WITH REPLACEABLE PHOTO CONTROL QT:8 |

INTERRUPTEUR

| | | |
|---|--------------------------|---|
|  | INTERRUPTEUR SIMPLE 120V | LEVITON DECORA 15 AMP SINGLE-POLE ROCKER AC QUIET SWITCH, WHITE + LEVITON 1-GANG DECORATOR/ROCKER PLATE, WHITE QT:9 |
|---|--------------------------|---|

SYSTÈME DE CLIMATISATION










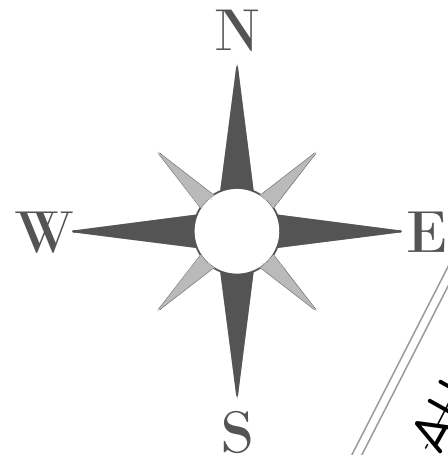
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|---|----------------------------------|
|  | UNITÉ MURALE INTÉRIEURE SPLIT AC |
|  | UNITÉ EXTÉRIEURE SPLIT AC |

DIAGRAMME UNIFILAIRE

| | |
|---|------------------------------------|
|  | GÉNÉRATRICE |
|  | COMMUTATEUR DE TRANSFERT MANUEL |
|  | DISJONCTEUR |
|  | INTERRUPTEUR DE SÉCURITÉ |
|  | INTERRUPTEUR DE SÉCURITÉ A FUSIBLE |
|  | TRANSFORMATEUR |
|  | PANNEAU ÉLECTRIQUE |



ROUTE D'ACCÈS AU SITE

ENTRÉE AU SITE

BÂTIMENT
GÉNÉRATRICE

MAISON GARDIEN

GÉNÉRATRICE EXISTANTE SDMO - JI00U
208/120V - 60HZ - Cos PHI 0.8 - 3 PHASES
PRP 114KVA / 91KW
ESP 125KVA / 100KVA

SALLE TECHNIQUE

CONDUIT SOUTERRAIN VERS PANNEAU PG
2 X(4#2/0 AWG + 1#2Cu - 2" PVC)
D≈30 MÈTRES

BÂTIMENT EXISTANT
DU PROJET

NOUVEAU BÂTIMENT
INCINÉRATEUR

CONDUIT TOURNANT VERS LE HAUT
À 2.50M PAR RAPPORT AU PARQUET DU BÂTIMENT

CONDUIT TOURNANT VERS LE BAS

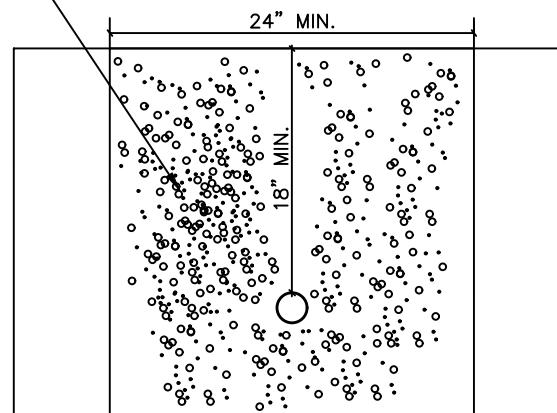
BÂTIMENT
EXISTANT

CONDUIT SOUTERRAIN VERS ONDULEURS/PANNEAU LC
2X(2#10AWG Cu + 1#8Cu G) - 1" PVC
D≈4.0 MÈTRES

PANNEAUX SOLAIRES INSTALLÉS SUR HYBRID RACKING SYSTEM
VOIR HRS1600 INSTALLATION MANUEL VI.9 HYBRID RACKING SYSTEM POUR PLUS DE DÉTAILS
DISPONIBLE SUR WWW.SOLARSPEEDRACK.COM

BÂTIMENT
EXISTANT

SABLE FIN



Détails Conduit souterrain

PLAN DE SITE



USAID | HAITI
FROM THE AMERICAN PEOPLE

USAID WATER AND SANITATION PROJECT

509 SANITATION

Port-au-Prince

QUEST

PLAN D'AMÉNAGEMENT DU SITE

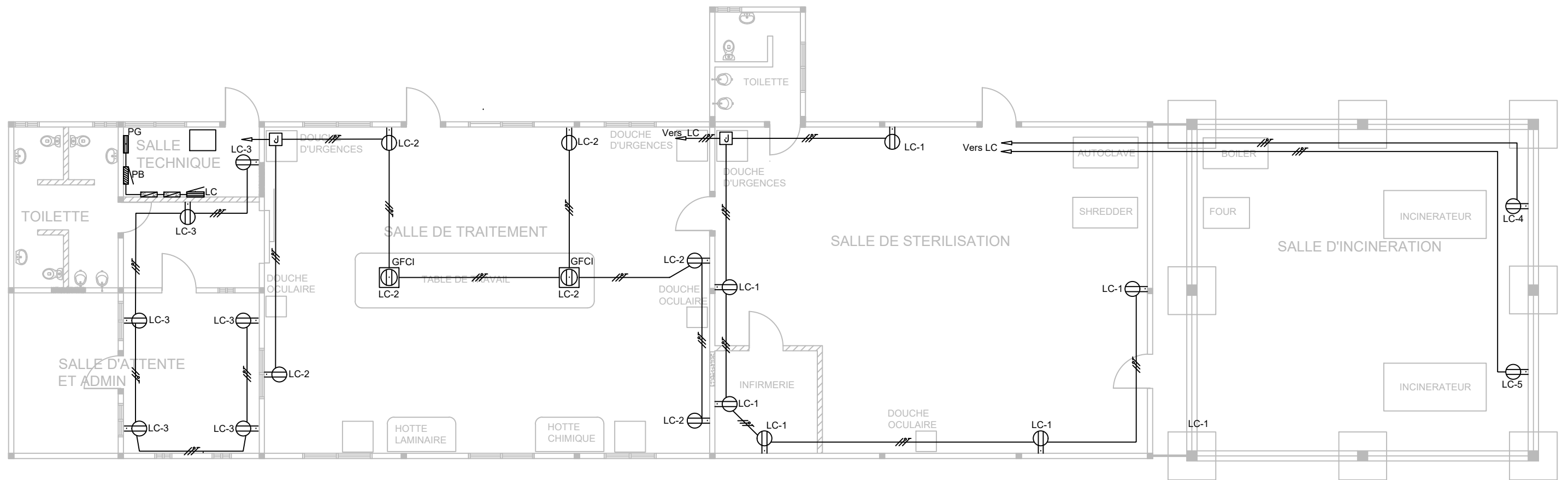
DRAWING NO.

E002

| | NAME | DATE |
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| PROJECT NO.: | PROJNUM | |
| DESIGNED BY: | ASV | 12/02/2021 |
| DRAWN BY: | ASV | 12/02/2021 |
| CHECKED BY: | CKBY | |
| APPROVED BY: | PM | |



PROJNUM - SHEET TITLE



Electrical LC Schedule

| | | | | | | | | | | | |
|----------------------------------|----------------------------------|---------------------|-----------|-------------------------------|------|--------------------|-----------|--|-------------|---------------------------|--|
| VOLTS/PHASE/WIRE: 120/208/1/3 | | PANEL SIZE: 60 A | | MAIN TYPE & SIZE: 40 A MCB | | CABINET: NEMA 1 | | MIN SCC: 10000 | | FED FROM: PB/ONDULEURS | |
| CIRCUIT NO. | AREA SERVED | TRIP AMPS | NO. POLES | PHASE LOAD VA | | NO. POLES | TRIP AMPS | AREA SERVED | CIRCUIT NO. | | |
| | | | | A | B | | | | | | |
| LC-1 | Salle de stérilisation | 20 | 1 | 1080 | 0 | 1 | 20 | Salle de traitement | LC-2 | | |
| | | | | 1260 | 0 | | | | | | |
| LC-3 | Salle Technique / Administration | 20 | 1 | 0 | 1080 | 1 | 15 | Incinérateur 1 | LC-4 | | |
| | | | | 0 | 180 | | | | | | |
| LC-5 | Incinérateur 2 | 15 | 1 | 180 | 0 | 1 | 15 | Eclairage Toilettes / Salle technique / Administration | LC-6 | | |
| | | | | 265 | 0 | | | | | | |
| LC-7 | Eclairage Salle d'incinération | 15 | 1 | 0 | 540 | 1 | 15 | Eclairage Salle de Stérilisation / Infirmerie | LC-8 | | |
| | | | | 0 | 730 | | | | | | |
| LC-9 | Eclairage Salle de traitement | 15 | 1 | 720 | 0 | 1 | 15 | Eclairage Extérieur | LC-10 | | |
| | | | | 160 | 0 | | | | | | |
| CONNECTED LOAD | | | | 3665 | 2530 | 6.2 KVA | | | | | |

| LOAD CATEGORY | CONN. LOAD | DEMAND FACTOR | EST. LOAD |
|--------------------------|------------|---------------|-----------|
| Lighting | 2.4 | 1.25 | 3.0 |
| Receptacles (0 - 10 KVA) | 3.8 | 1.00 | 3.8 |
| TOTAL | 6.2 | | 6.8 |

| CONNECTED LOAD | | LOAD CATEGORY |
|----------------|-------|---------------|
| VA | AMPS | |
| 1080 | 9.00 | Receptacles |
| 1260 | 10.50 | Receptacles |
| 1080 | 9.00 | Receptacles |
| 180 | 1.50 | Receptacles |
| 180 | 1.50 | Receptacles |
| 265 | 2.21 | Lighting |
| 540 | 4.50 | Lighting |
| 730 | 6.08 | Lighting |
| 720 | 6.00 | Lighting |
| 160 | 1.33 | Lighting |
| | 29.8 | |

Circuits de services LC

LC-1 1P/20A , D≈ 60 mètres
2#12 + 1#12 G, type THHN Cuivre - Conduit 1/2" EMT.
Phase (Noir) / Neutre(Blanc) + Terre (Vert)

LC-2 1P/20A , D≈ 60 mètres
2#12 + 1#12 G, type THHN Cuivre - Conduit 1/2" EMT.
Phase (Noir) / Neutre(Blanc) + Terre (Vert)

LC-3 1P/20A , D≈ 30 mètres
2#12 + 1#12 G, type THHN Cuivre - Conduit 1/2" EMT.
Phase (Noir) / Neutre(Blanc) + Terre (Vert)

Circuits dédiés de LC

LC-4 1P/15A , D≈ 45 mètres (Dédié a incinérateur)
2#12 + 1#12 G, type THHN Cuivre - Conduit 1/2" EMT.
Phase (Noir) / Neutre(Blanc) + Terre (Vert)

LC-5 1P/15A , D≈ 50 mètres (Dédié a incinérateur)
2#12 + 1#12 G, type THHN Cuivre - Conduit 1/2" EMT.
Phase (Noir) / Neutre(Blanc) + Terre (Vert)

USAID WATER AND SANITATION PROJECT



509 SANITATION

Port-au-Prince

PLAN DE SERVICES

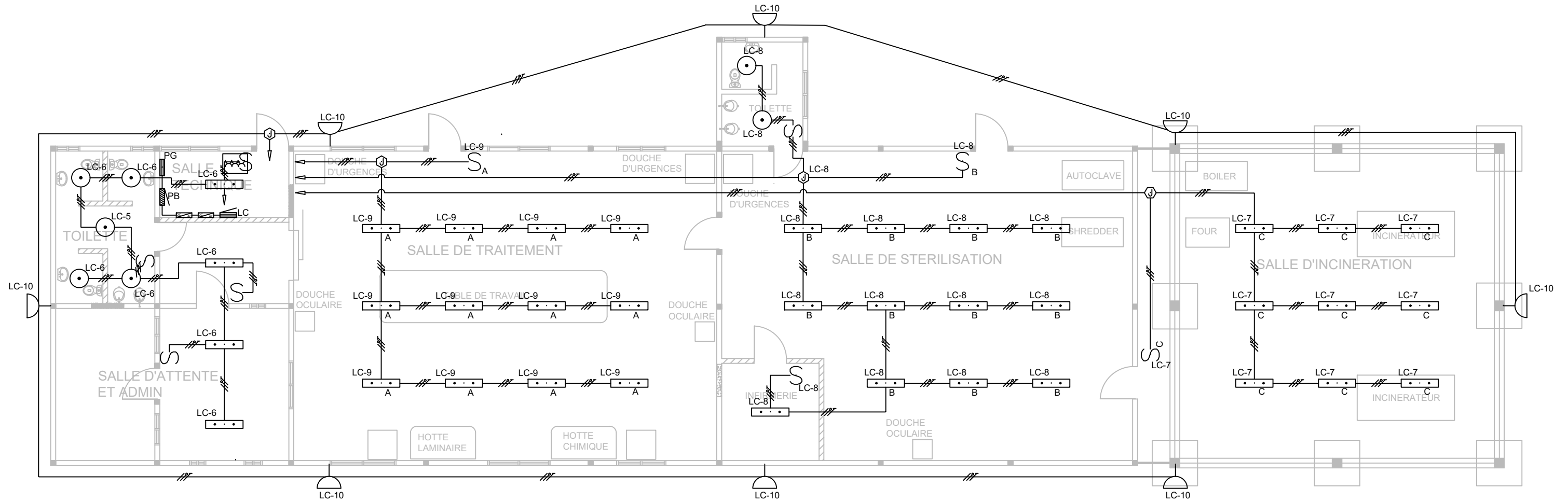
QUEST

DRAWING NO.

E003

| | NAME | DATE |
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| DESIGNED BY: | ASV | 12/02/2021 |
| DRAWN BY: | ASV | 12/02/2021 |
| CHECKED BY: | CKBY | |
| APPROVED BY: | PM | |





Circuits d'éclairage du panneau LC

LC-6 1P/15A , D≈ 60 mètres
2#12 + 1#12 G, type thhn Cuivre - Conduit 1/2" EMT
Phase (Noir) / Neutre(Blanc) + Terre (Vert)

LC-7 1P/15A , D≈ 70 mètres
2#10 + 1#12 G, type thhn Cuivre - Conduit 1/2" EMT
Phase (Noir) / Neutre(Blanc) + Terre (Vert)

LC-8 1P/15A , D≈ 80 mètres
2#10 + 1#12 G, type thhn Cuivre - Conduit 1/2" EMT
Phase (Noir) / Neutre(Blanc) + Terre (Vert)

LC-9 1P/15A , D≈ 50 mètres
2#10 + 1#12 G, type thhn Cuivre - Conduit 1/2" EMT
Phase (Noir) / Neutre(Blanc) + Terre (Vert)

LC-10 1P/15A , D≈ 110 mètres
2#12 + 1#12 G, type thhn Cuivre - Conduit 1/2"
Phase (Noir) / Neutre(Blanc) + Terre (Vert)

Electrical LC Schedule

| | | | | | | | | | | | |
|----------------------------------|----------------------------------|---------------------|-----------|-------------------------------|------|--------------------|-----------|--|--|---------------------------|--|
| VOLTS/PHASE/WIRE: 120/208/1/3 | | PANEL SIZE: 60 A | | MAIN TYPE & SIZE: 40 A MCB | | CABINET: NEMA 1 | | MIN SCC: 10000 | | FED FROM: PB/ONDULEURS | |
| CIRCUIT NO. | AREA SERVED | TRIP AMPS | NO. POLES | PHASE LOAD VA | | NO. POLES | TRIP AMPS | AREA SERVED | | CIRCUIT NO. | |
| | | | | A | B | | | | | | |
| LC-1 | Salle de stérilisation | 20 | 1 | 1080 | 0 | 1 | 20 | Salle de traitement | | LC-2 | |
| | | | | 1260 | 0 | | | | | | |
| LC-3 | Salle Technique / Administration | 20 | 1 | 0 | 1080 | 1 | 15 | Incinérateur 1 | | LC-4 | |
| | | | | 0 | 180 | | | | | | |
| LC-5 | Incinérateur 2 | 15 | 1 | 180 | 0 | 1 | 15 | Eclairage Toilettes / Salle technique / Administration | | LC-6 | |
| | | | | 265 | 0 | | | | | | |
| LC-7 | Eclairage Salle d'incinération | 15 | 1 | 0 | 540 | 1 | 15 | Eclairage Salle de Stérilisation / Infirmerie | | LC-8 | |
| | | | | 0 | 730 | | | | | | |
| LC-9 | Eclairage Salle de traitement | 15 | 1 | 720 | 0 | 1 | 15 | Eclairage Extérieur | | LC-10 | |
| | | | | 160 | 0 | | | | | | |
| CONNECTED LOAD | | | | 3665 | 2530 | 6.2 KVA | | | | | |

| CONNECTED LOAD | | LOAD CATEGORY |
|----------------|-------|---------------|
| VA | AMPS | |
| 1080 | 9.00 | Receptacles |
| 1260 | 10.50 | Receptacles |
| 1080 | 9.00 | Receptacles |
| 180 | 1.50 | Receptacles |
| 180 | 1.50 | Receptacles |
| 265 | 2.21 | Lighting |
| 540 | 4.50 | Lighting |
| 730 | 6.08 | Lighting |
| 720 | 6.00 | Lighting |
| 160 | 1.33 | Lighting |
| 29.8 | | |

| LOAD CATEGORY | CONN. LOAD | DEMAND FACTOR | EST. LOAD |
|--------------------------|------------|---------------|-----------|
| Lighting | 2.4 | 1.25 | 3.0 |
| Receptacles (0 - 10 KVA) | 3.8 | 1.00 | 3.8 |
| TOTAL | 6.2 | | 6.8 |

USAID WATER AND SANITATION PROJECT



509 SANITATION

Port-au-Prince

CIRCUITS D'ÉCLAIRAGE

QUEST

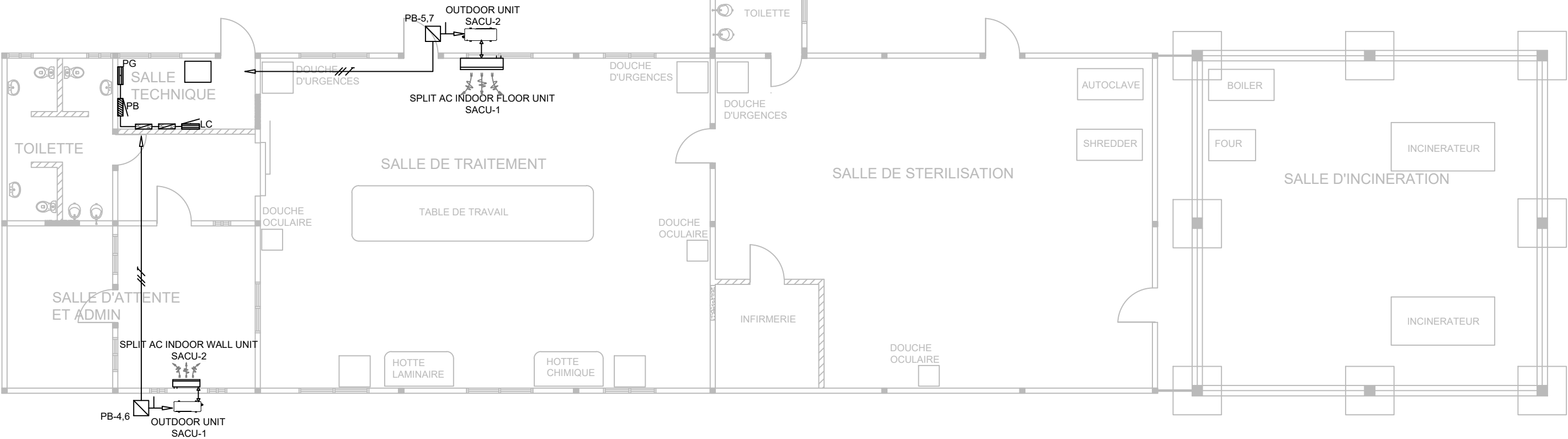
DRAWING NO.

E004

| | NAME | DATE |
|--------------|---------|------------|
| PROJECT NO.: | PROJNUM | |
| DESIGNED BY: | ASV | 12/02/2021 |
| DRAWN BY: | ASV | 12/02/2021 |
| CHECKED BY: | CKBY | |
| APPROVED BY: | PM | |



| | COOLING CAPACITY BTU/H | POWER SUPPLY V, HZ, PH | W | MINIMUM CIRCUIT (DISCONNECT) | MINIMUM FUSE (BREAKER) | MODEL |
|--------|---------------------------|---------------------------|-------|---------------------------------|---------------------------|---------------------------|
| SACU-1 | 48000 | 220-230,60,1 | 14064 | 64A | 77A | WESPOINT WFM-4818.LV.2 |
| SACU-2 | 12000 | 208-230,60,1 | 3516 | 16A | 20A | WESPOINT WM-1216.LE.2 |



Electrical PB Schedule

| | | | | | | | | | | | | |
|----------------------------------|---------------------|----------------------|-----------|--------------------------------|------|-------|--------------------|-----------|-------------------|--|-----------------|--|
| VOLTS/PHASE/WIRE: 120/208/3/4 | | PANEL SIZE: 125 A | | MAIN TYPE & SIZE: 100 A MCB | | | CABINET: NEMA 1 | | MIN SCC: 22000 | | FED FROM: PG | |
| CIRCUIT NO. | AREA SERVED | TRIP AMPS | NO. POLES | PHASE LOAD VA | | | NO. POLES | TRIP AMPS | AREA SERVED | | CIRCUIT NO. | |
| PB-1,3 | Onduleurs>>PANEL LC | 40 | 2 | A | B | C | 1 | 20 | Hotte Laminaire | | PB-2 | |
| | | | | 3665 | 2530 | 0 | | | | | | |
| PB-4,6 | SACU-1 | 30 | 2 | 950 | 0 | 0 | 2 | 80 | SACU-2 | | PB-5,7 | |
| | | | | 0 | 1758 | 1758 | | | | | | |
| PB-8 | Hotte Chimique | 20 | 1 | 7032 | 0 | 7032 | 3 | 20 | Autoclave | | PB-9,11,13 | |
| | | | | 950 | 0 | 0 | | | | | | |
| PB-14 | Shredder | 20 | 1 | 740 | 740 | 740 | 3 | 40 | Boiler | | PB-15,17,19 | |
| | | | | 746 | 0 | 0 | | | | | | |
| CONNECTED LOAD | | | | 3333 | 3333 | 3333 | 38.6 KVA | | | | | |
| | | | | 17416 | 8361 | 12863 | | | | | | |

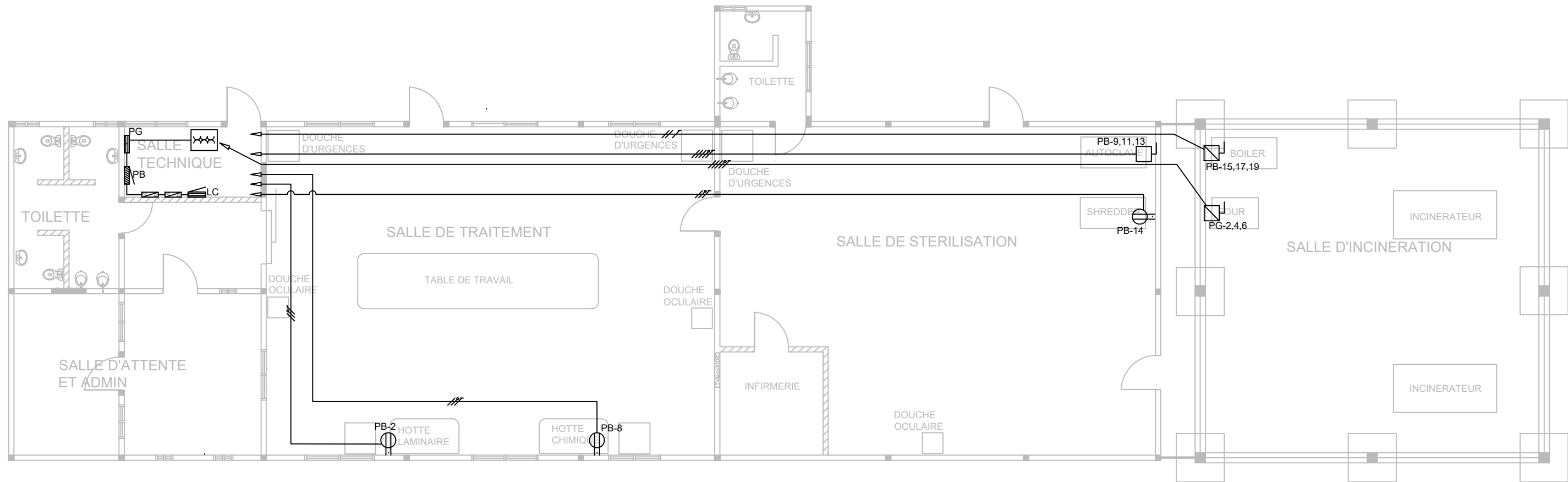
| LOAD CATEGORY | CONN. LOAD | DEMAND FACTOR | EST. LOAD |
|--------------------------|------------|---------------|-----------|
| Lighting | 2.4 | 1.25 | 3.0 |
| Receptacles (0 - 10 KVA) | 6.4 | 1.00 | 6.4 |
| Equipment | 15.7 | 1.00 | 15.7 |
| Motors | 0.0 | 1.00 | 0.0 |
| Motors (Largest) | 14.1 | 1.25 | 17.6 |
| TOTAL | 38.6 | | 42.8 |

| CONNECTED LOAD | | LOAD CATEGORY |
|----------------|-------|---------------|
| VA | AMPS | |
| 6799 | 32.69 | *VARIES* |
| 950 | 7.92 | Receptacles |
| 3516 | 16.90 | Equipment |
| 14064 | 67.62 | Equipment |
| 950 | 7.92 | Receptacles |
| 2220 | 6.16 | Equipment |
| 746 | 6.22 | Receptacles |
| 9999 | 27.76 | Equipment |
| | 107.3 | |

Circuits des unités de climatisation

PB-4,6 2P/20A , D≈ 15 mètres
3#10 + 1#10 G, type thhn Cuivre - Conduit 1/2" EMT- Electrical Metallic Tubing.
Phase1(Noir) / Phase 2(Rouge) / Neutre(Blanc) + Terre (Vert)

PB-5,7 2P/80A , D≈ 15 mètres
3#6 + 1#8 G, type thhn Cuivre - Conduit 3/4" EMT- Electrical Metallic Tubing.
Phase1(Noir) / Phase 2(Rouge) / Neutre(Blanc) + Terre (Vert)



Electrical PB Schedule

| Electrical PB Schedule | | | | | | | | | | | |
|----------------------------------|---------------------|----------------------|-----------|--------------------------------|------|-------|--------------------|-----------|-------------------|-------------|-----------------|
| VOLTS/PHASE/WIRE: 120/208/3/4 | | PANEL SIZE: 125 A | | MAIN TYPE & SIZE: 100 A MCB | | | CABINET: NEMA 1 | | MIN SCC: 22000 | | FED FROM: PG |
| CIRCUIT NO. | AREA SERVED | TRIP AMPS | NO. POLES | PHASE LOAD VA | | | NO. POLES | TRIP AMPS | AREA SERVED | CIRCUIT NO. | |
| | | | | A | B | C | | | | | |
| PB-1,3 | Onduleurs>>PANEL LC | 40 | 2 | 3665 | 2530 | 0 | 1 | 20 | Hotte Laminaire | PB-2 | |
| PB-4,6 | SACU-1 | 30 | 2 | 950 | 0 | 0 | | | | | |
| PB-8 | Hotte Chimique | 20 | 1 | 7032 | 0 | 7032 | 2 | 80 | SACU-2 | PB-5,7 | |
| | | | | 950 | 0 | 0 | | | | | |
| PB-14 | Shredder | 20 | 1 | 740 | 740 | 740 | 3 | 20 | Autoclave | PB-9,11,13 | |
| | | | | 746 | 0 | 0 | | | | | |
| | | | | | | | | 3333 | 3333 | 3333 | 3 |
| CONNECTED LOAD | | | | 17416 | 8361 | 12863 | 38.6 KVA | | | | |

| CONNECTED LOAD | | LOAD CATEGORY |
|----------------|-------|---------------|
| VA | AMPS | |
| 6799 | 32.69 | *VARIES* |
| 950 | 7.92 | Receptacles |
| 3516 | 16.90 | Equipment |
| 14064 | 67.62 | Equipment |
| 950 | 7.92 | Receptacles |
| 2220 | 6.16 | Equipment |
| 746 | 6.22 | Receptacles |
| 9999 | 27.76 | Equipment |
| | 107.3 | |

| LOAD CATEGORY | CONN. LOAD | DEMAND FACTOR | EST. LOAD |
|--------------------------|------------|---------------|-----------|
| Lighting | 2.4 | 1.25 | 3.0 |
| Receptacles (0 - 10 KVA) | 6.4 | 1.00 | 6.4 |
| Equipment | 15.7 | 1.00 | 15.7 |
| Motors | 0.0 | 1.00 | 0.0 |
| Motors (Largest) | 14.1 | 1.25 | 17.6 |
| TOTAL | 38.6 | | 42.8 |

Circuits dédiés

PB-2 1P/20A , D≈ 25 mètres
2#12 + 1#12 G, type thhn Cuivre - Conduit 1/2" EMT- Electrical Metallic Tubing.
Phase(Noir) / Neutre(Blanc) + Terre (Vert)

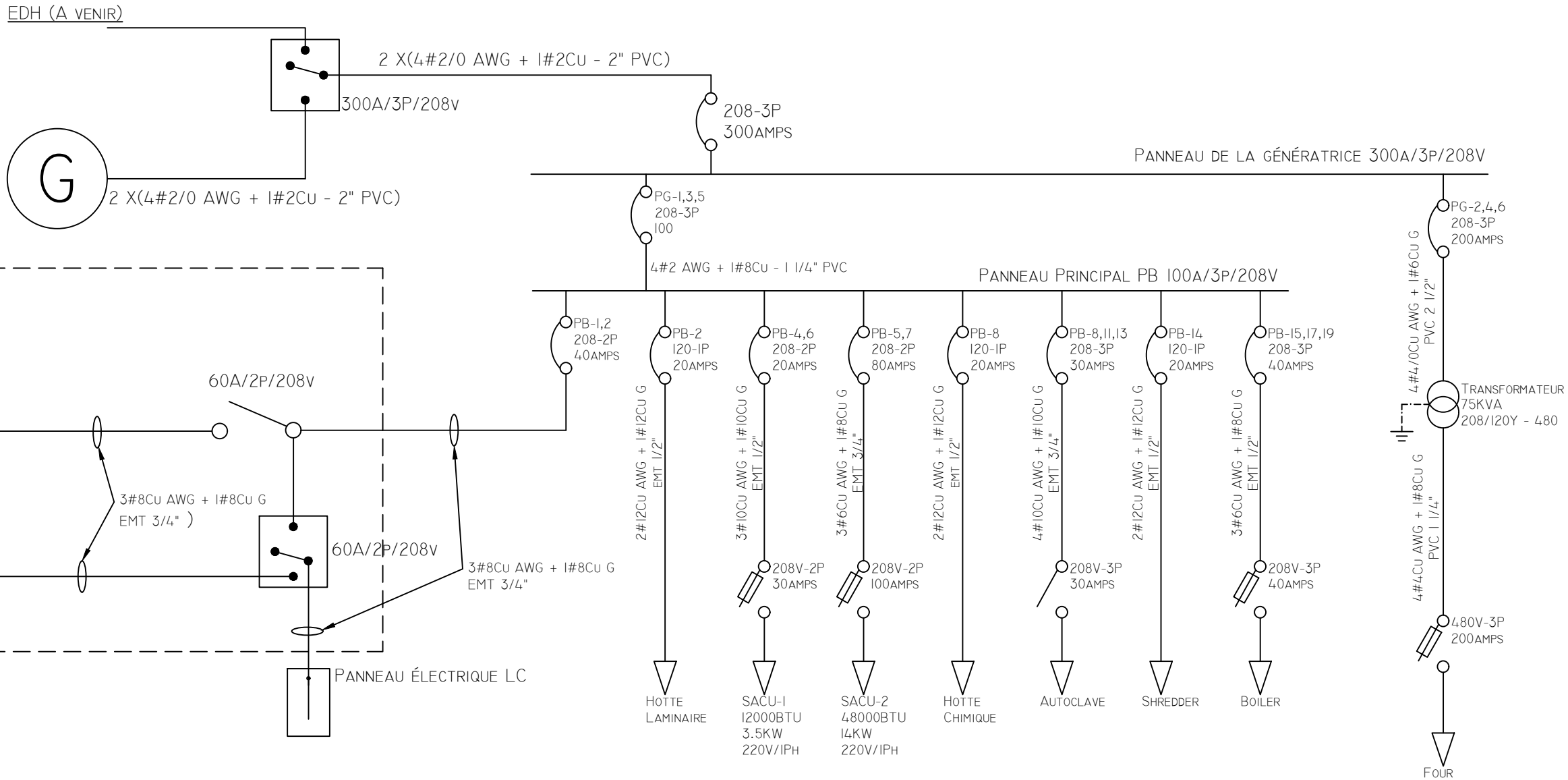
PB-8, 1P/20A , D≈ 35 mètres
2#12 + 1#12 G, type thhn Cuivre - Conduit 1/2" EMT- Electrical Metallic Tubing.
Phase(Noir) / Neutre(Blanc) + Terre (Vert)

PB-9,11,13 3P/30A , D≈ 35 mètres
4#10 + 1#10 G, type thhn Cuivre - Conduit 1/2" EMT- Electrical Metallic Tubing.
Phase1(Noir) / Phase 2(Rouge) / Phase 3 (bleu)/ Neutre(Blanc) + Terre (Vert)

PB-14 1P/20A , D≈ 35 mètres
2#10 + 1#10 G, type thhn Cuivre - Conduit 1/2" EMT- Electrical Metallic Tubing.
Phase(Noir) / Neutre(Blanc) + Terre (Vert)

PB-15,17,19 3P/40A , D≈ 40 mètres
4#6 + 1#8 G, type thhn Cuivre - Conduit 3/4" EMT- Electrical Metallic Tubing.
Phase1(Noir) / Phase 2(Rouge) / Neutre(Blanc) + Terre (Vert)

GÉNÉRATRICE EXISTANTE SDMO - J100U
208/12-60HZ - Cos PHI 0.8 - 3 PHASES
PRP 114KVA/91KW
ESP 125KVA/100KVA



| PANEL | | | | | | | | | | PG | | | | | | | | | |
|----------------------------------|-------------|-----------|------|------------------|---------|---------------|-------|-------------------|-------|--------------------------|-----------|-------------|----------|--|---------|--|--|--|--|
| VOLTAGE (L-N): | | | | | 120 | | | | | ENCLOSURE TYPE: | | | | | NEMA 1 | | | | |
| VOLTAGE (L-L): | | | | | 208 | | | | | MOUNTING: | | | | | SURFACE | | | | |
| PHASES, WIRES: | | | | | 3 ϕ 4 W | | | | | AIC RATING (A): | | | | | 33000 | | | | |
| MINIMUM BUS CAPACITY (A): | | | | | 300 A | | | | | NOTES: ----- | | | | | | | | | |
| MAIN O.C. DEVICE (A): | | | | | 300 A | | | | | | | | | | | | | | |
| CKT NO | DESCRIPTION | TRIP AMPS | POLE | PHASE LOADS (VA) | | | | | | POLE | TRIP AMPS | DESCRIPTION | CKT NO | | | | | | |
| | | | | A | | B | | C | | | | | | | | | | | |
| PG-1,3,5 | PANEL PB | 150 | 3 | 17416 | 16666 | | | | | 3 | 200 | Four | PG-2,4,6 | | | | | | |
| PG-1,3,5 | PANEL PB | 150 | 3 | | | 8361 | 16666 | | | 3 | 200 | Four | PG-2,4,6 | | | | | | |
| PG-1,3,5 | PANEL PB | 150 | 3 | | | | | 12863 | 16666 | 3 | 200 | Four | PG-2,4,6 | | | | | | |
| CONNECTED LOAD PHASE TOTALS (VA) | | | | | | | | | | | | | | | | | | | |
| | | | | 34082 | | 25027 | | 29529 | | | | | | | | | | | |
| CONNECTED LOAD | | | | | | | | | | | | | | | | | | | |
| | | | | (KVA) | | DEMAND FACTOR | | DEMAND LOAD (KVA) | | DEMAND LOAD 92.8 KVA | | | | | | | | | |
| Lighting | | | | 2.4 | | 1.25 | | 3.0 | | SPARE CAPACITY 15.3 KVA | | | | | | | | | |
| Receptacles (0 - 10 KVA) | | | | 6.4 | | 1.00 | | 6.4 | | SPARE CAPACITY 42.5 AMPS | | | | | | | | | |
| Equipment | | | | 65.7 | | 1.00 | | 65.7 | | SPARE CAPACITY 14 % | | | | | | | | | |
| Motors | | | | 0.0 | | 1.00 | | 0.0 | | PHASE BALANCE | | | | | | | | | |
| Motors (Largest) | | | | 14.1 | | 1.25 | | 17.6 | | A TO B 73 % | | | | | | | | | |
| B TO C 85 % | | | | | | | | | | | | | | | | | | | |
| C TO A 87 % | | | | | | | | | | | | | | | | | | | |
| TOTAL: | | | | 88.6 | | | | 92.8 | | | | | | | | | | | |
| LOAD (AMPS): | | | | 246.0 | | | | 257.5 | | | | | | | | | | | |

USAID WATER AND SANITATION PROJECT

509 SANITATION

DIAGRAMME UNIFILAIRE

DRAWING NO.

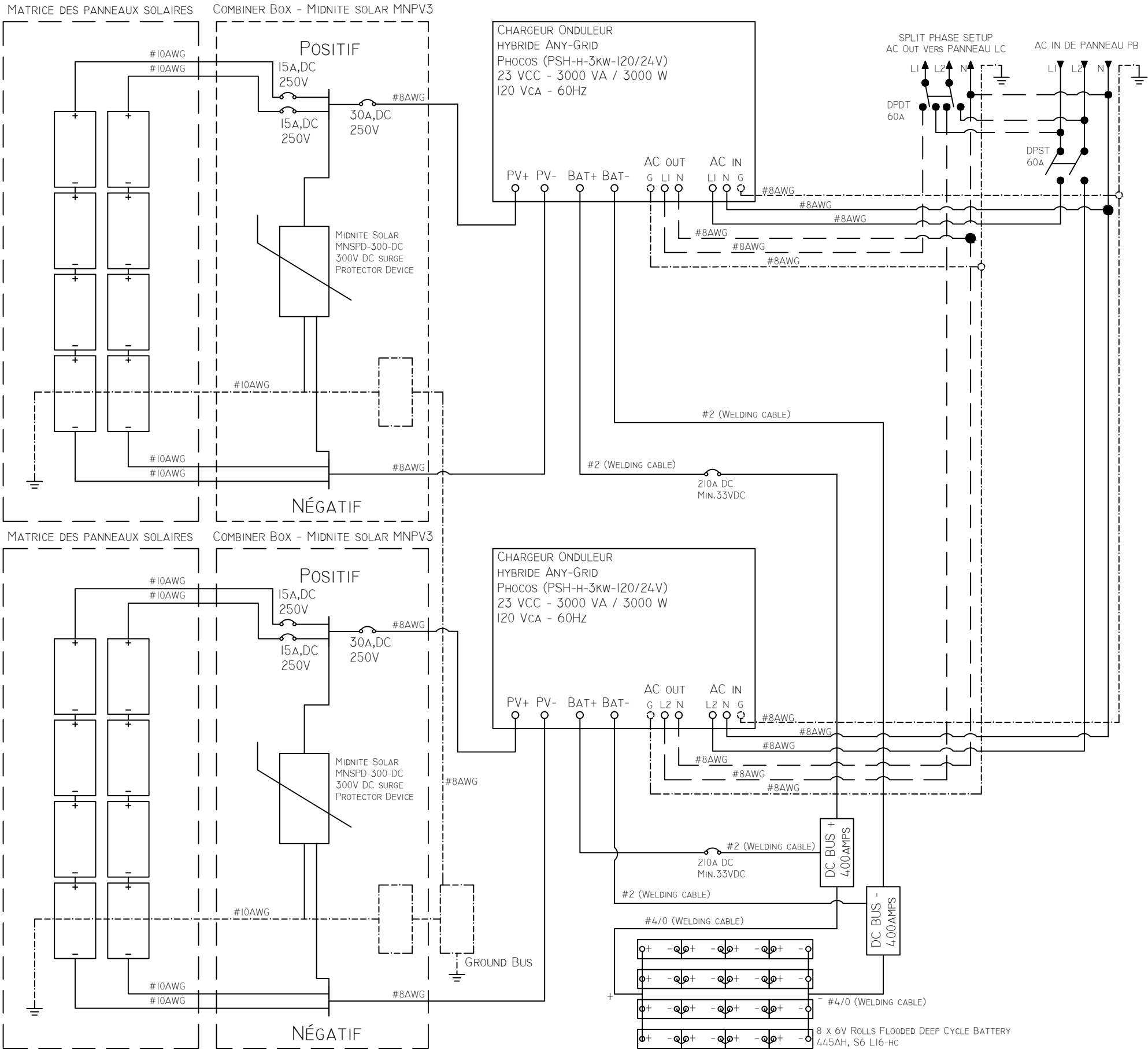
E007

| | NAME | DATE |
|--------------|---------|------------|
| PROJECT NO.: | PROJNUM | |
| DESIGNED BY: | ASV | 12/02/2021 |
| DRAWN BY: | ASV | 12/02/2021 |
| CHECKED BY: | CKBY | |
| APPROVED BY: | PM | |



Port-au-Prince

QUEST



| | |
|---|----------------------------------|
| 2 X PSW-H(3KW) CHARGEUR ONDULEUR HYBRIDE ANY-GRID | |
| OUTPUT WAVEFORM PURE SINE WAVE | |
| SYSTEM VOLTAGE | 24V |
| RATED AC OUTPUT POWER | 3000VA/3000KW |
| MAX. CHARGE CURRENT (PV) | 80Adc |
| MAX. CHARGE CURRENT (AC) | 80Adc |
| MAX.TOTAL CHARGE CURRENT | 80Adc |
| MAX. AC INPUT CURRENT | 38.3Aac |
| OVERVOLTAGE PROTECTION | 33 Vdc |
| UNDERVOLTAGE PROTECTION | 18.8 Vdc |
| MAX. PV PANEL VOLTAGE | 250Vdc |
| PV PANEL MPP VOLTAGE | 90~230Vdc |
| MAX. USABLE PV POWER | 4000W(2400 FOR BATTERY CHARGING) |
| MAX. PV ARRAY POWER | 5000Wp |
| AC FREQUENCY | 50 / 60 HZ AUTO RECOGNITION |
| AC OUTPUT VOLTAGE | 110~127 Vac±5%(ADJUSTABLE) |
| FUSE / BREAKER RATING | 210Adc, MIN.33Vdc |
| CIRCUIT BREAKER RATING | 40Aac, ≥140VAC |

| | |
|------------------------------|------------|
| MODULE MAKE | SUNPAL |
| MODULE MODEL | SP500M6-96 |
| ELECTRICAL DATA STC | |
| PEAK POWER WATTS-PMAX | 500 W |
| POWER TOLERANCE | 0~+5W |
| MAXIMUM POWER VOLTAGE (VMPP) | 48.63 |
| MAXIMUM POWER CURRENT (IMPP) | 10.28 |
| OPEN CIRCUIT VOLTAGE (Voc) | 58.95 |
| SHORT CIRCUIT CURRENT (Isc) | 10.87 |
| MODULE EFFICIENCY (%) | 19.51% |

STC IRRADINANCE 1000W/M2, CELL TEMPERATURE 25 C,AMI.5G

Note: Tous les modèles de fabricant peuvent être sujets aux substitutions avec des produits équivalents, sous approbation de l'ingénieur

DPDT : DOUBLE POLE DOUBLE THROW
DPST : DOUBLE POLE SINGLE THROW

| DISTRIBUTION BOARD PG | | | | |
|--------------------------|-------------|-------------------------------|--------------------------------|--|
| 120/208 VOLTS | | 3 ϕ 4 W | 300 A AMP MCB 300 A AMP BUS | 33000 A.I.C. RATING SURFACE MOUNTED |
| CKT NO. | TRIP/ POLES | DESCRIPTION | DEMAND LOAD VA | WIRE SIZE |
| PG-1,3,5 | 150/3 | PANEL PB | 42760 | 3x2; 1x2; 1x8;- |
| PG-2,4,6 | 200/3 | Four | 49998 | 3x4/0; 1x4/0; 1x6;- |
| | | | | |
| Load Category | | Connected Load (KVA) x | Demand Factor = | Demand Load (KVA) |
| Lighting | | 2.4 | 1.25 | 3.0 |
| Receptacles (0 - 10 KVA) | | 6.4 | 1.00 | 6.4 |
| Equipment | | 65.7 | 1.00 | 65.7 |
| Motors | | 0.0 | 1.00 | 0.0 |
| Motors (Largest) | | 14.1 | 1.25 | 17.6 |
| | | TOTAL CONN. LOAD: 88.6 KVA | | |
| | | TOTAL DEMAND LOAD: 92.8 KVA | | |
| | | TOTAL DEMAND LOAD: 257.5 AMPS | | |
| | | SPARE CAPACITY: 42.5 AMPS | | |

| DISTRIBUTION BOARD PB | | | | |
|--------------------------|-------------|-------------------------------|--------------------------------|--|
| 120/208 VOLTS | | 3 ϕ 4 W | 100 A AMP MCB 125 A AMP BUS | 22000 A.I.C. RATING SURFACE MOUNTED |
| CKT NO. | TRIP/ POLES | DESCRIPTION | DEMAND LOAD VA | WIRE SIZE |
| PB-1,3 | 40/2 | Onduleurs>>PANEL LC | 6799 | 2x8;1x8,1x8; |
| PB-2 | 20/1 | Hotte Laminaire | 950 | 1x12;1x12;1x12; |
| PB-4,6 | 30/2 | SACU-1 | 3516 | 2x10;1x10;1x10; |
| PB-5,7 | 80/2 | SACU-2 | 14064 | 2x6;1x6;1x8; |
| PB-8 | 20/1 | Hotte Chimique | 950 | 1x12;1x12;1x12; |
| PB-9,11,13 | 20/3 | Autoclave | 2220 | 3x10;1x10;1x10 |
| PB-14 | 20/1 | Shredder | 746 | 1x12;1x12;1x12;- |
| PB-15,17,19 | 40/3 | Boiler | 9999 | 3x6;1x6;1x8 |
| | | | | |
| Load Category | | Connected Load (KVA) x | Demand Factor = | Demand Load (KVA) |
| Lighting | | 2.4 | 1.25 | 3.0 |
| Receptacles (0 - 10 KVA) | | 6.4 | 1.00 | 6.4 |
| Equipment | | 15.7 | 1.00 | 15.7 |
| Motors | | 0.0 | 1.00 | 0.0 |
| Motors (Largest) | | 14.1 | 1.25 | 17.6 |
| | | TOTAL CONN. LOAD: 38.6 KVA | | |
| | | TOTAL DEMAND LOAD: 42.8 KVA | | |
| | | TOTAL DEMAND LOAD: 118.7 AMPS | | |
| | | SPARE CAPACITY: 6.3 AMPS | | |

| DISTRIBUTION BOARD LC | | | | |
|--------------------------|-------------|--|------------------------------|--|
| 120/208 VOLTS | | 1 ϕ 3 W | 40 A AMP MCB 60 A AMP BUS | 10000 A.I.C. RATING SURFACE MOUNTED |
| CKT NO. | TRIP/ POLES | DESCRIPTION | DEMAND LOAD VA | WIRE SIZE |
| LC-1 | 20/1 | Salle de stérilisation | 1080 | 1X12;1X12;1X12 |
| LC-2 | 20/1 | Salle de traitement | 1260 | 1X12;1X12;1X12 |
| LC-3 | 20/1 | Salle Technique / Administration | 1080 | 1X12;1X12;1X12 |
| LC-4 | 15/1 | Incinérateur 1 | 180 | 1X12,1X12,1X12;- |
| LC-5 | 15/1 | Incinérateur 2 | 180 | 1X12,1X12,1X12;- |
| LC-6 | 15/1 | Eclairage Toilettes / Salle technique / Administration | 265 | 1X12,1X12,1X12;- |
| LC-7 | 15/1 | Eclairage Salle d'incinération | 540 | 1X10;1X10;1X10;- |
| LC-8 | 15/1 | Eclairage Salle de Stérilisation / Infirmerie | 730 | 1X10;1X10;1X10;- |
| LC-9 | 15/1 | Eclairage Salle de traitement | 720 | 1X10;1X10;1X10;- |
| LC-10 | 15/1 | Eclairage Extérieur | 160 | 1X12,1X12,1X12;- |
| | | | | |
| Load Category | | Connected Load (KVA) x | Demand Factor = | Demand Load (KVA) |
| Lighting | | 2.4 | 1.25 | 3.0 |
| Receptacles (0 - 10 KVA) | | 3.8 | 1.00 | 3.8 |
| | | TOTAL CONN. LOAD: 6.2 KVA | | |
| | | TOTAL DEMAND LOAD: 6.8 KVA | | |
| | | TOTAL DEMAND LOAD: 32.7 AMPS | | |
| | | SPARE CAPACITY: 27.3 AMPS | | |