

## اعلان داوطلبی و دعوت به نرخ دهی

تاریخ اعلان: 15.08.2018

تاریخ ختم: 01.09.2018

از شما و یا شرکت شما دعوت بعمل میآوریم تا یک آفرمهر و امضاً شده شرکت تان را برای تدارکات ذیل  
ارایه نمایید:

پروژ: اعمار سرک به طول ۱۵۴۳ متر معه جویچه، پلچک و پیاده رو  
شهر: کابل

ناحیه: شانزدهم شاروالی کابل

موقعیت: گذر/وسک ۱۴ و ۱۹

قرارداد کننده: شورای گذر/وسک

موسسه همکار تخنیکی: دفتر اسکان بشر ملل متحد (UN-Habitat)

نظارت کننده: شاروالی کابل و ناحیه شانزدهم

تمویل کننده: دفتر کمک های ایالات متحده امریکا (USAID)

شرکت های علاقمند میتوانند اسناد داوطلبی را از سایت های ذیل دریافت نمایند.

<http://unhabitat.af/procurement/>

<http://kابل-tenders.org>

<http://procurement-notice.undp.org>

## **پس منظر Background:**

برنامه شهر برای همه (CFA) یک برنامه ملی دولت جمهوری اسلامی افغانستان میباشد که ممد و مظمن بهبود انکشاف شهری از طریق مدیریت زمین و رسمی سازی ساحات غیر پلانی بهبود سیستم مالی و مدیریت عواید شاروالی ها و تطبیق پلان های عمل استراتژیک شهری در محراق فعالیت های آنها قرار دارد. این برنامه در همکاری نزدیک شاروالی ها، ریاست اراضی و وزارت شهر سازی و مسکن و اشتراک فعالان مردم و منظم سازی گذرهای مستندرد به همکاری تخنیکی دفتر اسکان بشر ملل متحد (UN-Habitat) و کمک مالی اتحادیه اروپا و کمک های ایالات متحده امریکا (USAID) در یک دوره چهار ساله (2015-2020) مورد تطبیق قرار دارد. این پروژه (سرک، پلچک، و جویچه) در پروسه پلانگذاری عمل استراتژیک تشخیص، اعمار و مورد بهره برداری قرار خواهد گرفت.

## **پیشنهاد (آفر) پروژه:**

اعمار ( سرک، پلچک، و جویچه) واقع ناحیه (16) شهر کابل. قیمت پیشنهاد باید شامل تمام مصارفات پروژه (مواد، کارگران مسلکی و غیر مسلکی، ماشینری، و ترانسپورت) بخاطر اعمار درست و با کیفیت پروژه پیشنهاد شده فوق باشد.

## **بازدید از ساحه کار:**

از تمام شرکت ها جداً تقاضا میگردد به تاریخ.... 20/08/2018 روز (دو شنبه). به ساعت (9) بجه (قبل) از ظهر از ساحه باز دید نمایند.

محل: ( ناحیه شانزدهم شهر کابل ) نمبر مایل ( نازو نیسان 0794488747 ) و ( انجنیر محمود کریمیار 0728436646 )

## **مشخصات تخنیکی:**

تغییر و تعویض در مشخصات تخنیکی پروژه پیشنهادی این پیشنهاد قابل قبول نیست. به جز تایید کتبی مسؤول پروگرام. تمام اسناد پیشنهاد (آفر) مطابق به حصول و مقررات دولت جمهوری اسلامی افغانستان در چوکات و مقررات تهیه و تدارکات صورت میگردد و معیار های ذیل در جریان ارزیابی مدنظر گرفته میشود.

## **اسناد ضروری:**

1. جواز قابل اعتبار ساختمانی.
2. تجربه کاری مشابه حد اقل از سه پروژه با ارایه لست پروژه ها، قرارداد و تصاویر آن.
3. آدرس فیزیکی موکل پروژه های مشابه، شماره های تماس، آدرس الکترونیکی، تصدیق از تکمیل کار.
4. فکت شیت شرکت.
5. صورت حساب بانکی از سه ماه که بیلانس پولی شان حد اقل ۳۵۰۰۰ دالر امریکایی باشد.
6. پلان کاری برای این پروژه که شامل پلان مصونیت کار، پلان کنترول کیفیت و پلان مدیریت پروژه.
7. لست وسایط و وسایل کاراز قبیل: رولر، گریدر، مکسر کانکریت، اکسکواتور، بلدوزر و غیره با کاپی اسناد آنها.
8. لست پرسونل تخنیکی واداری: انجنیر ساحوی، سفتی انجنیر، کارمند اداری و مالی و آمر پروژه با خلص سوانح آنها.
9. نام، شماره تماس و آدرس الکترونیکی نماینده شرکت به پروژه.
10. اسناد تخنیکی و قیمت باید در دو پاکت جداگانه سربسته مهر و امضا شده ترتیب گردد.
11. ۱۰٪ تضمین بانکی از کل قیمت پروژه در جریان دواوطلبی و تضمین کاری پیشنهاد شده به مدت یک سال بعد از تکمیل پروژه

**نوت: تمام اسناد ضروری خواسته شده را بصورت کامل داشته باشند.**

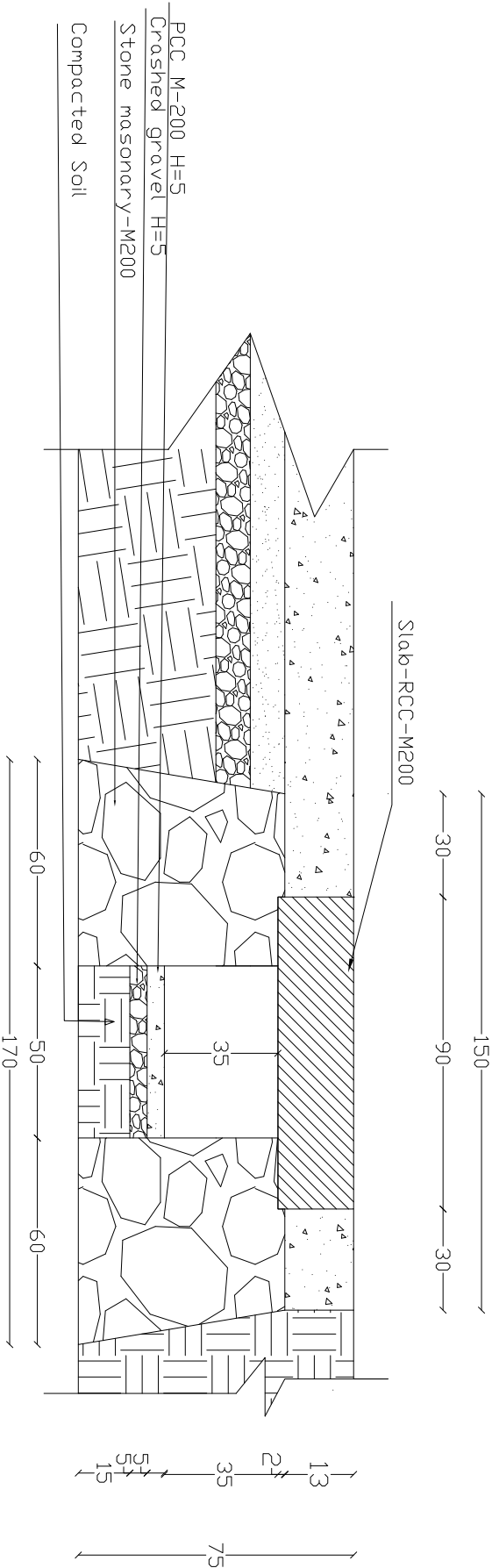
## فکتورهای ارزیابی

1. قیمت واقعی ، مناسب و کمترین
  2. تجربه کافی با اسناد قرارداد پروژه مشابه (سه پروژه کار شده همراه با تصدیق)
  3. ظرفیت مالی
  4. ظرفیت فنی
  5. آنده شرکت های که اسناد فنی ارایه شده شان جوابگوی معیار های فنی نمی باشد. اسناد مالی شان شامل لست ارزیابی نمی گردد.
- نوت: امکانات فنی شرکت ها بعد از ارزیابی اسناد مالی و فنی آن در ساحه نیز بررسی میشود.

## دستورالعمل برای داوطلبان:

1. از شما درخواست میشود تا آفر خود را تا ساعت ( 2 ) بجه بعد از ظهر به وقت محلی به تاریخ (28/08/2018) روز سه شنبه به آدرس دفتر ساحوی برنامه شهر برای همه (هیئات) واقع در ناحیه شانزدهم شهر کابل تعمیر ناحیه به ( نازو نیسان 0794488747 ) تسلیم نمایند. تسلیمی آفرها بعد از تاریخ و ساعت ذکر شده فوق قابل قبول نمی باشد.
2. نرخ های شما باید برای مدت 90. روز از تاریخ دریافت آن قابل اعتبار بوده و تمام قیمت ها واقعی باشد .
3. داوطلبان باید برای تمام تدارکات درخواست شده در ذیل نرخ بدهند، در غیر آن آفر آنها رد خواهد شد.
4. داوطلبان باید همه صفحات آفر را مهر و امضا نمایند، در غیر آن آفر آنها رد خواهد شد.
5. هر یک داوطلب باید صرف یک آفر ارایه نماید.
6. نرخ ها صرف باید به دالر داده شوند.
7. در صورتیکه تضمین برای اجناس، امور ساختمانی و خدمات درخواست شده لازم باشد، باید در آفرهای خود آن را ذکر نمایند.
8. امر خریداری به داوطلبانیکه آفرهای آنها در اصل جوابگو تشخیص شده و نازلترین و مناسبترین نرخ را ارایه نموده اند، قبل از ختم مدت اعتبار آفر صادر خواهد شد. علی الرغم موارد فوق، فرمایش دهنده حق قبول یا رد آفرها و لغو مراحل داوطلبی را برای خود محفوظ داشته و در هر زمانیکه خواسته باشد تمام آفرها را قبل از اعطای قرارداد رد نموده میتواند.
9. پرداخت ها با در نظر داشت فیصدی پیشرفت امور ساختمانی صورت خواهد گرفت.
10. ما منتظر دریافت آفرهای شما بوده و برای علاقمندی شما در این پروژه تشکر مینماییم.

SECTION B-B



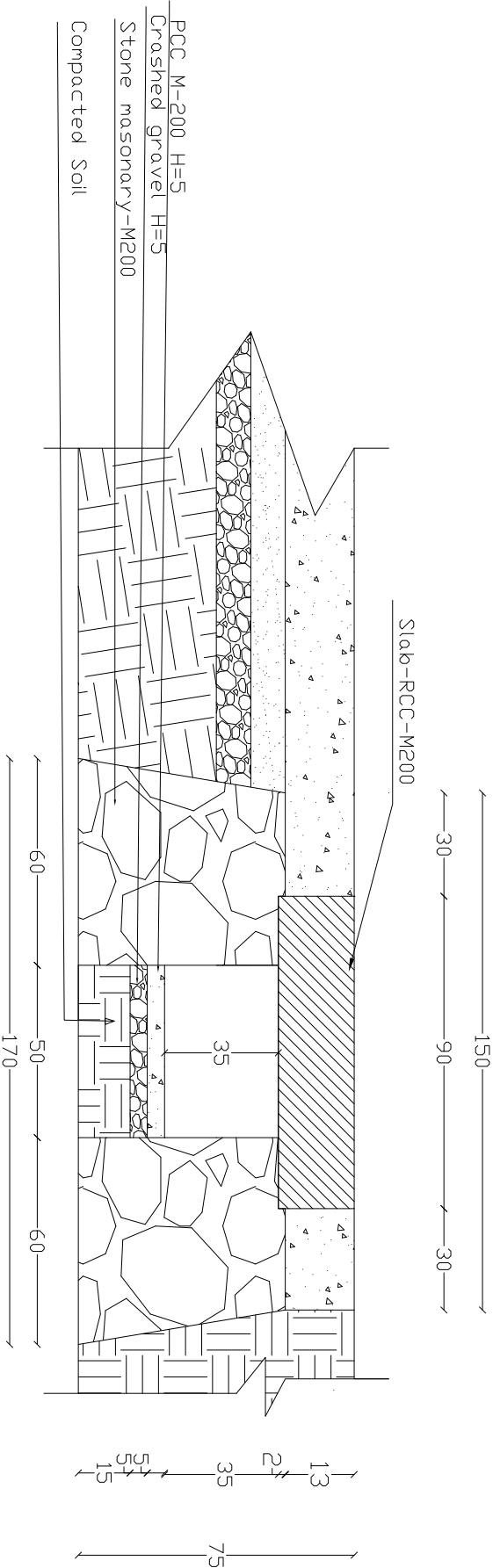
All dimention in Cm

Out of scale

|        |     |
|--------|-----|
| Type   | 4   |
| Lentgh | 3   |
| Width  | 0.9 |
| Number | 4   |

|                 |                          |          |              |                      |                            |             |  |       |  |  |  |
|-----------------|--------------------------|----------|--------------|----------------------|----------------------------|-------------|--|-------|--|--|--|
| Client          |                          |          |              | CITY FOR ALL (C F A) |                            |             |  | C F A |  |  |  |
|                 |                          |          |              | STANDARDIZATION UNIT |                            |             |  |       |  |  |  |
|                 |                          |          |              | STANDARD DESIGN      |                            |             |  |       |  |  |  |
| Project Title   | Culvert Type I Span=50Cm | Sheet No | 1/4          | Design by            | Eng. Mahmood (Karim yar)   | Reviewed by |  | Date  |  |  |  |
| Project Subject | Section B-B              | Scale    | In dimension | Drawn by             | Eng. Ab Mateen (Mujaddadi) | Approved by |  |       |  |  |  |

SECTION B-B



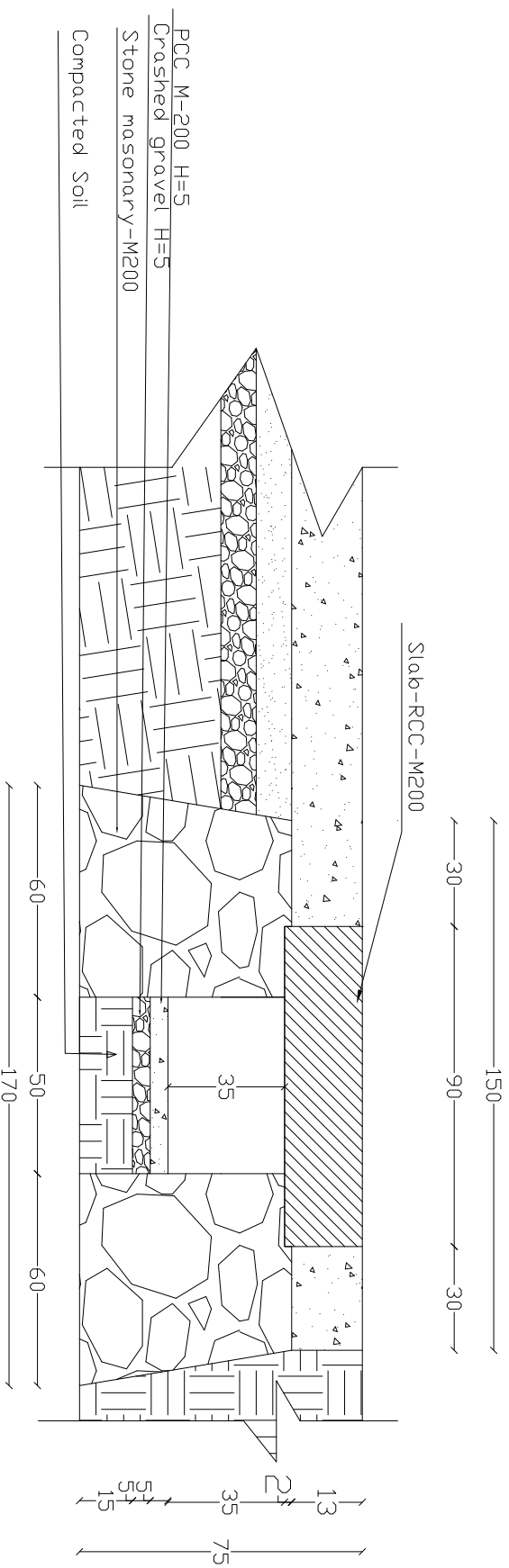
All dimention in Cm

Out of scale

| Type   | 3   |
|--------|-----|
| Lentgh | 4   |
| Width  | 0.9 |
| Number | 6   |

|                 |  |  |  |                      |           |              |           |                           |             |  |      |  |
|-----------------|--|--|--|----------------------|-----------|--------------|-----------|---------------------------|-------------|--|------|--|
| Client          |  |  |  | CITY FOR ALL (C F A) |           |              |           | C F A                     |             |  |      |  |
|                 |  |  |  | STANDARDIZATION UNIT |           |              |           |                           |             |  |      |  |
|                 |  |  |  | STANDARD DESIGN      |           |              |           |                           |             |  |      |  |
| Project Title   |  |  |  | Culvert Type I       | Span=50Cm | Sheet No 1/4 | Design by | Eng. Mahmood (Karim yar)  | Reviewed by |  | Date |  |
| Project Subject |  |  |  | Section B-B          | Scale     | In dimension | Drawn by  | Eng. Ab Mateen (Mujaddai) | Approved by |  |      |  |

## SECTION B-B



All dimention in Cm

Out of scale

|        |     |
|--------|-----|
| Type   | 2   |
| Length | 6   |
| Width  | 0.9 |
| Number | 9   |

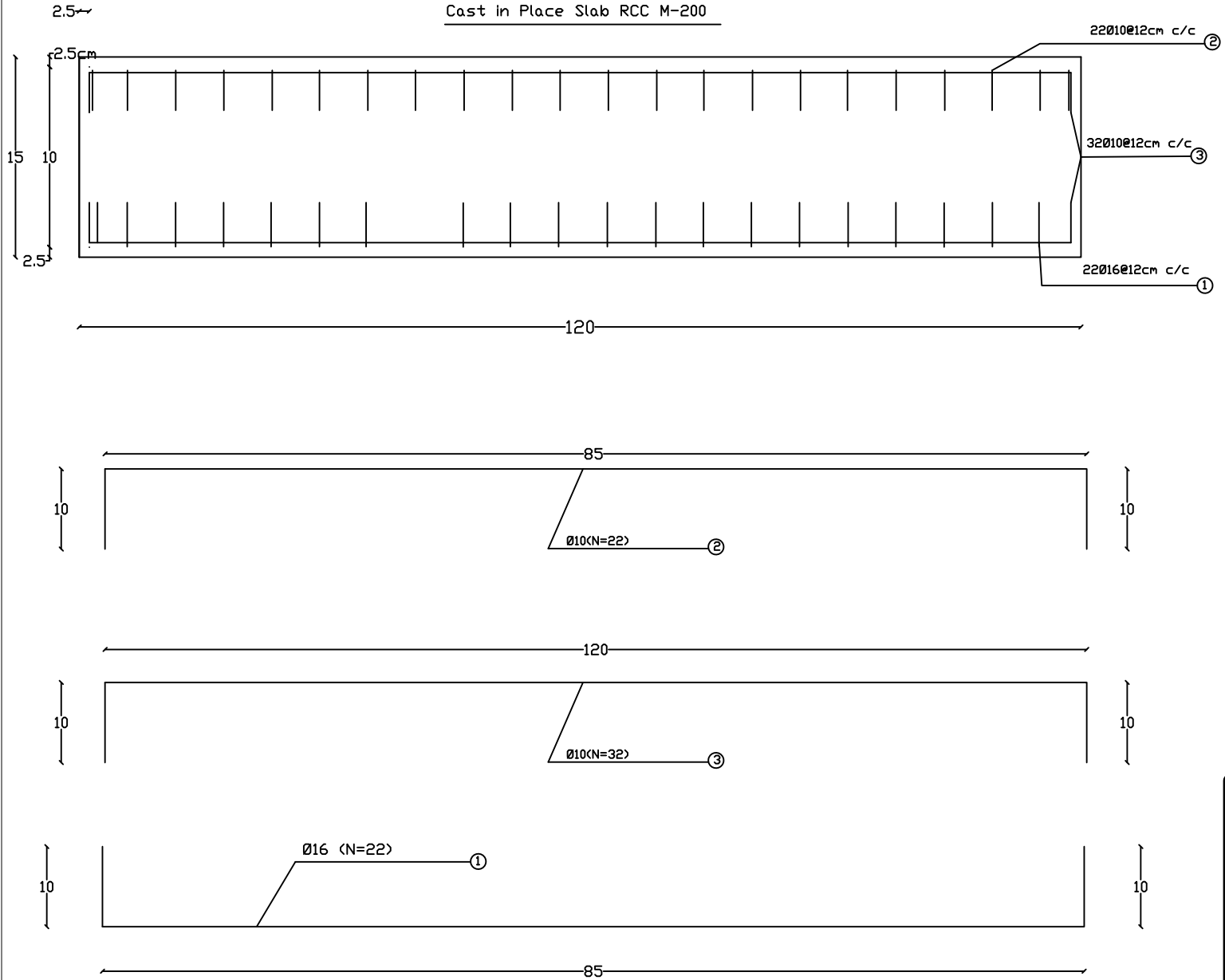
**CITY FOR ALL (CFA)**  
STANDARDIZATION UNIT

## STANDARD DESIGN

|                 |                                       |                            |
|-----------------|---------------------------------------|----------------------------|
| Project Title   | Culvert Type I Span=50cm(ribs narrow) | Sheet No 1/4               |
| Design by       | Eng. Mahmood (Karim yar)              | Reviewed by                |
| Project Subject | Section B-B                           | Scale                      |
| In dimension    | Drawn by                              | Eng. Ab Mateen (Mu jadaal) |
| Approved by     |                                       |                            |
| Date            |                                       |                            |

## SECTION C-C

Cast in Place Slab RCC M-200



Steel Bar Chart for Cast in Place slab

| Bar no.                                     | Bar dia (mm) | Num. of bar | Length (m) | Total length (m) | Weight (kg/m) | Total weight (kg) | Total weight + 5 % (kg) | Shape of bar          |
|---------------------------------------------|--------------|-------------|------------|------------------|---------------|-------------------|-------------------------|-----------------------|
| 1                                           | 16           | 22          | 1.05       | 23.1             | 1.58          | 36.498            | 38.322                  |                       |
| 2                                           | 10           | 22          | 1.05       | 23.1             | 0.62          | 14.322            | 15.038                  |                       |
| 3                                           | 10           | 32          | 1.4        | 44.8             | 0.62          | 27.776            | 29.165                  |                       |
|                                             |              |             |            |                  |               |                   |                         |                       |
|                                             |              |             |            |                  |               |                   |                         |                       |
|                                             |              |             |            |                  |               |                   |                         |                       |
| Total Weight for one Cast in Place RCC Slab |              |             |            |                  |               |                   | 82.525                  | * 4 Culvert =330.1 Kg |

All dimension in Cm

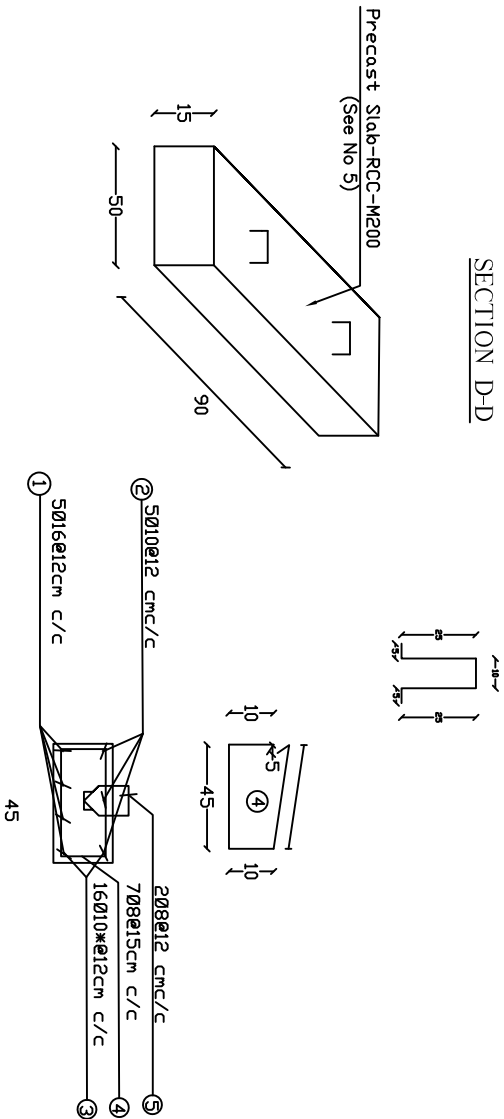
Out of Scale

|        |     |
|--------|-----|
| Type   | 4   |
| Length | 3   |
| Width  | 0.9 |
| Number | 4   |

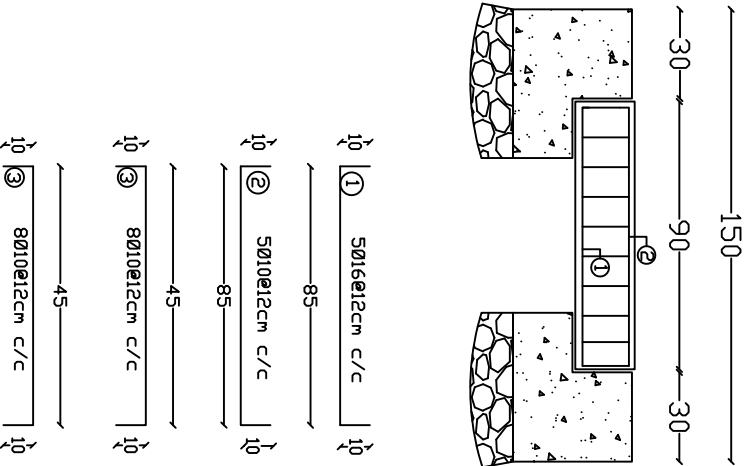
| CLIENT  | SHEET CONTENTS | PROVINCE    | DISTRICT | UNH PROJECT No. | NAMES              | POSITION                 | SIGNATURE | DATE | SHEET NO. | REVISION    |
|---------|----------------|-------------|----------|-----------------|--------------------|--------------------------|-----------|------|-----------|-------------|
| PROJECT | DISTRICT 16    | KABUL       | GOZARS   | CFA             | DESIGNED BY:       | Eng. Mahmood Karimyar    |           |      | PROFILE   | FIRST ISSUE |
| TIT-1   | G14,15,17,19   | 14,15,17,19 | SIXTEEN  | UNH PROJECT     | DRAWN BY:          | Eng. Abulhasan (Mujaddi) |           |      | Sheet-1/1 |             |
| TIT-2   | ROADWAY PLAN   |             |          |                 | CHECKED BY:        | Eng. Karimulla (Atae)    |           |      | Scale:    |             |
| TIT-3   |                |             |          |                 | APPROVED SR ENG    |                          |           |      | AS SHOWN  |             |
|         |                |             |          |                 | UNH REPRESENTATIVE |                          |           |      |           |             |



SECTION D-D



SECTION B-B



Steel Bar Chart for Precast slab

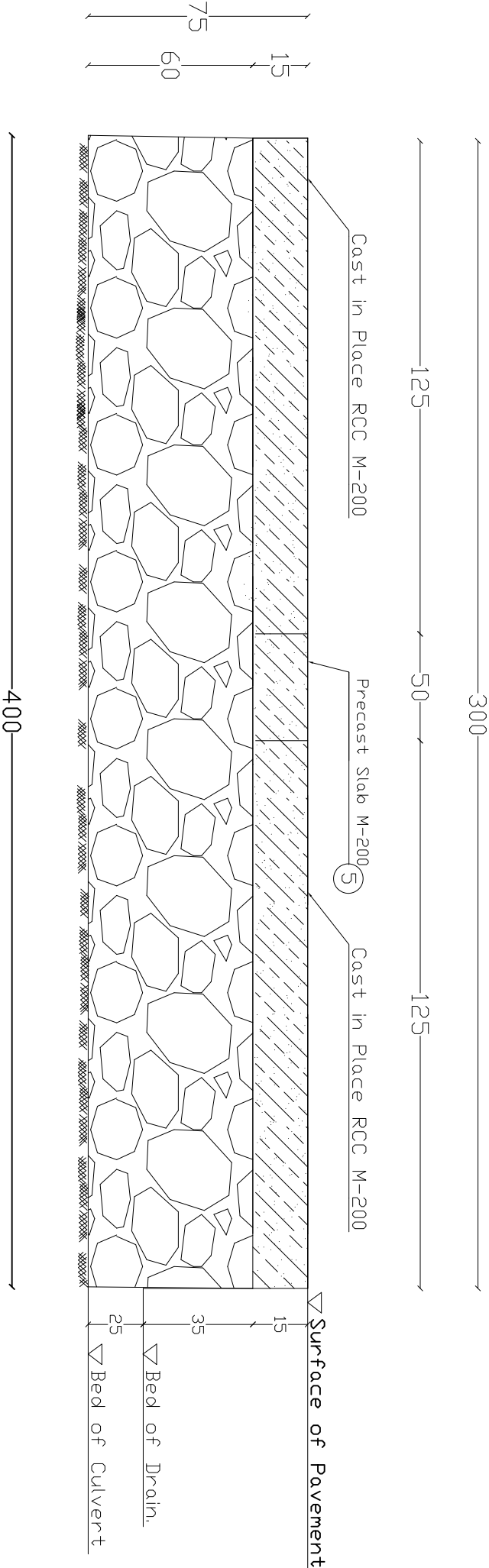
| Bar no.                               | Bar dia (mm) | Num. of bar | Length (m) | Total length (m) | Weight (kg/m) | Total weight (kg) | 5 % (kg) | Total weight + 5 % (kg) | Shape of bar         |
|---------------------------------------|--------------|-------------|------------|------------------|---------------|-------------------|----------|-------------------------|----------------------|
| 1                                     | 16           | 5           | 1.05       | 5.25             | 1.58          | 8.295             | 8.71     |                         |                      |
| 2                                     | 10           | 5           | 1.05       | 5.25             | 0.62          | 3.255             | 3.418    |                         |                      |
| 3                                     | 10           | 16          | 0.65       | 10.4             | 0.62          | 6.448             | 6.77     |                         |                      |
| 4                                     | 8            | 7           | 1.20       | 8.4              | 0.40          | 3.36              | 3.528    |                         |                      |
| 5                                     | 8            | 2           | 0.70       | 1.4              | 0.56          | 0.568             | 0.588    |                         |                      |
| 6                                     | 10           | 2           | 0.70       | 1.4              | 0.62          | 0.868             | 0.911    |                         |                      |
| Total Weight for one Precast RCC Slab |              |             |            |                  |               |                   |          | 23.925                  | * 4 Culvert =95.7 Kg |

All dimation in Cm  
Out of Scale

|        |     |
|--------|-----|
| Type   | 4   |
| Length | 3   |
| Width  | 0.9 |
| Number | 4   |

| CLIENT  |  | SHEET CONTENTS |  | PROVINCE    | KABUL       | DESIGNED BY.       | Eng. Mahmood Karimyar | NAMES | POSITION | SIGNATURE | DATE | SHEET NO. | REVISION    |
|---------|--|----------------|--|-------------|-------------|--------------------|-----------------------|-------|----------|-----------|------|-----------|-------------|
| PROJECT |  | DISTRICT 16    |  | GOZARS      | 14.15.17.19 | DRAWN BY.          | Eng. Ashkezar (Jalil) |       |          |           |      | PROFILE   | FIRST ISSUE |
| TIT-1   |  | G14,15,17,19   |  | CDISTRICT   | SIXTEEN     | CHECKED BY.        | Eng. Korhulla (Ghase) |       |          |           |      | Sheet-1/1 |             |
| TIT-2   |  | ROADWAY PLAN   |  | UNH PROJECT | CFA         | APPROVED SR ENG    |                       |       |          |           |      | AS SHOWN  |             |
| TIT-3   |  | UNHABITAT      |  | UNH PROJECT | CFA         | UNH REPRESENTATIVE |                       |       |          |           |      |           |             |

SECTION A-A



All dimension in Cm

Out of scale

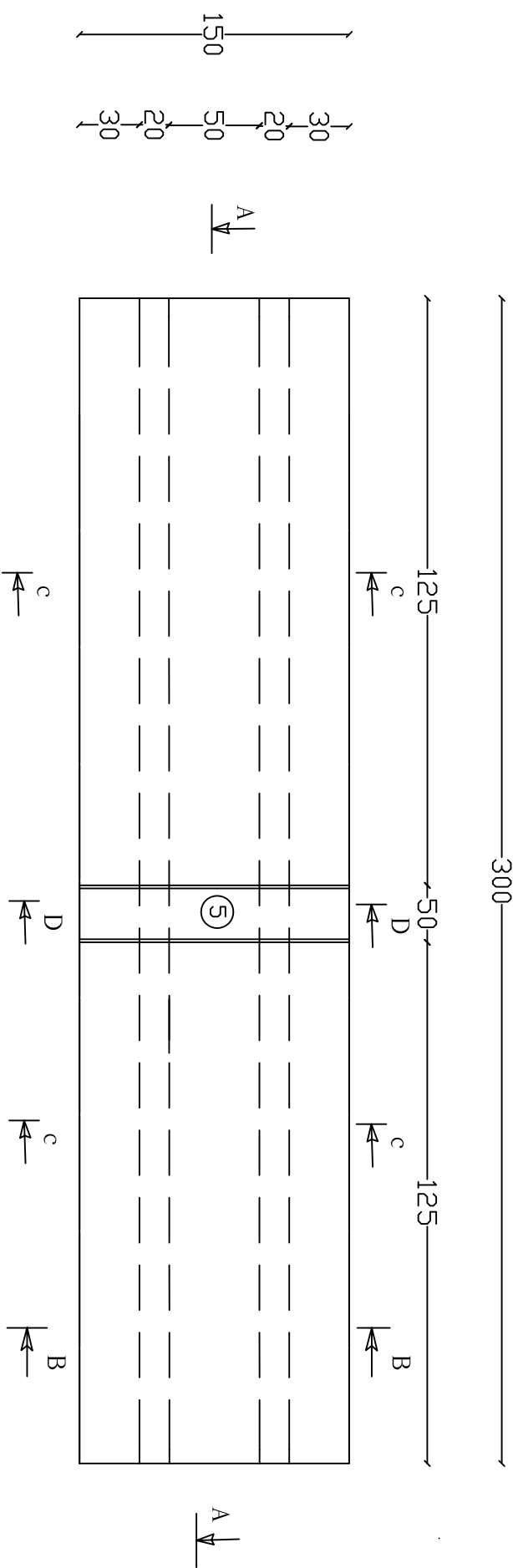
|        |     |
|--------|-----|
| Type   | 4   |
| Lenth  | 3   |
| Width  | 0.9 |
| Number | 4   |

|         |                |             |         |                 |                       |                        |           |          |           |             |
|---------|----------------|-------------|---------|-----------------|-----------------------|------------------------|-----------|----------|-----------|-------------|
| CLIENT  | SHEET CONTENTS |             |         | NAMES           |                       | POSITION               | SIGNATURE | DATE     | SHEET NO. | REVISION    |
| PROJECT | DISTRICT 16    | PROVINCE    | GUZARS  | KABUL           | DESIGNED BY:          | Eng Mahmoodkarimyar    |           |          | PROFILE   | FIRST ISSUE |
| TIT-1   | G14,15,17,19   | CDISTRICT   | SIXTEEN | 14.15.17.19     | DRAWN BY:             | Eng Abulmteernduladadi |           |          | Sheet-1/1 |             |
| TIT-2   | ROADWAY PLAN   | UNH PROJECT | CFA     | CHECKED BY:     | Eng Korinulla (Ataee) |                        |           | Scale:   |           |             |
| TIT-3   |                | No.         |         | APPROVED SR ENG | UNH REPRESENTATIVE    |                        |           | AS SHOWN |           |             |



UNH HABITAT  
FOR A BETTER URBAN FUTURE

PLAN SECTION



All dimention in Cm

Out of scale

|        |     |
|--------|-----|
| Type   | 4   |
| Lentgh | 3   |
| Width  | 0.9 |
| Number | 4   |

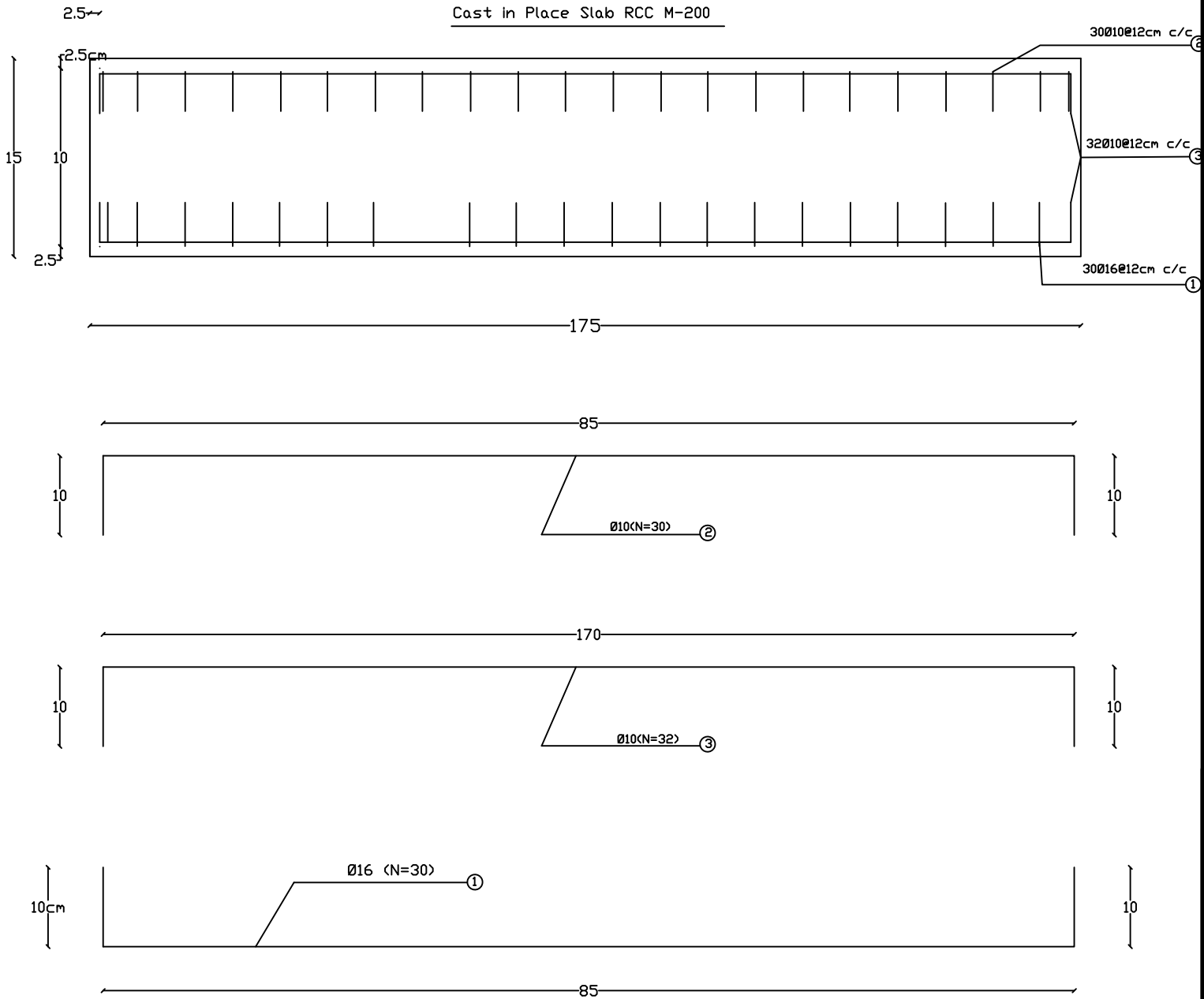
| CLIENT  |  | SHEET CONTENTS |  | NAMES              |  | POSITION | SIGNATURE | DATE | SHEET NO. | REVISION  |  |
|---------|--|----------------|--|--------------------|--|----------|-----------|------|-----------|-----------|--|
| PROJECT |  | DISTRICT 16    |  | PROVINCE           |  |          |           |      |           | PROFILE   |  |
| TIT-1   |  | G14,15,17,19   |  | GUZARS             |  |          |           |      |           | Sheet-1/1 |  |
| TIT-2   |  | ROADWAY PLAN   |  | CDISTRICT          |  |          |           |      |           | Scale:    |  |
| TIT-3   |  |                |  | UNH PROJECT No.    |  |          |           |      |           | AS SHOWN  |  |
|         |  |                |  | KABUL              |  |          |           |      |           |           |  |
|         |  |                |  | 14.15.17.19        |  |          |           |      |           |           |  |
|         |  |                |  | DRAWN BY:          |  |          |           |      |           |           |  |
|         |  |                |  | SIXTEEN            |  |          |           |      |           |           |  |
|         |  |                |  | CFA                |  |          |           |      |           |           |  |
|         |  |                |  | UNH REPRESENTATIVE |  |          |           |      |           |           |  |



UN HABITAT  
FROM A BETTER URBAN FUTURE

# SECTION C-C

Cast in Place Slab RCC M-200



**Steel Bar Chart for Cast in Place slab**

| Bar no.                                     | Bar dia (mm) | Num. of bar | Length (m) | Total length (m) | Weight (kg/m) | Total weight (kg) | Total weight + 5 % (kg) | Shape of bar            |
|---------------------------------------------|--------------|-------------|------------|------------------|---------------|-------------------|-------------------------|-------------------------|
| 1                                           | 16           | 30          | 1.05       | 31.5             | 1.58          | 49.77             | 52.258                  |                         |
| 2                                           | 10           | 30          | 1.05       | 31.5             | 0.62          | 19.53             | 20.506                  |                         |
| 3                                           | 10           | 32          | 1.9        | 60.8             | 0.62          | 37.696            | 39.581                  |                         |
| Total Weight for one Cast in Place RCC Slab |              |             |            |                  |               |                   | 112.345                 | * 6 Culvert = 674.07 Kg |

All dimension in Cm

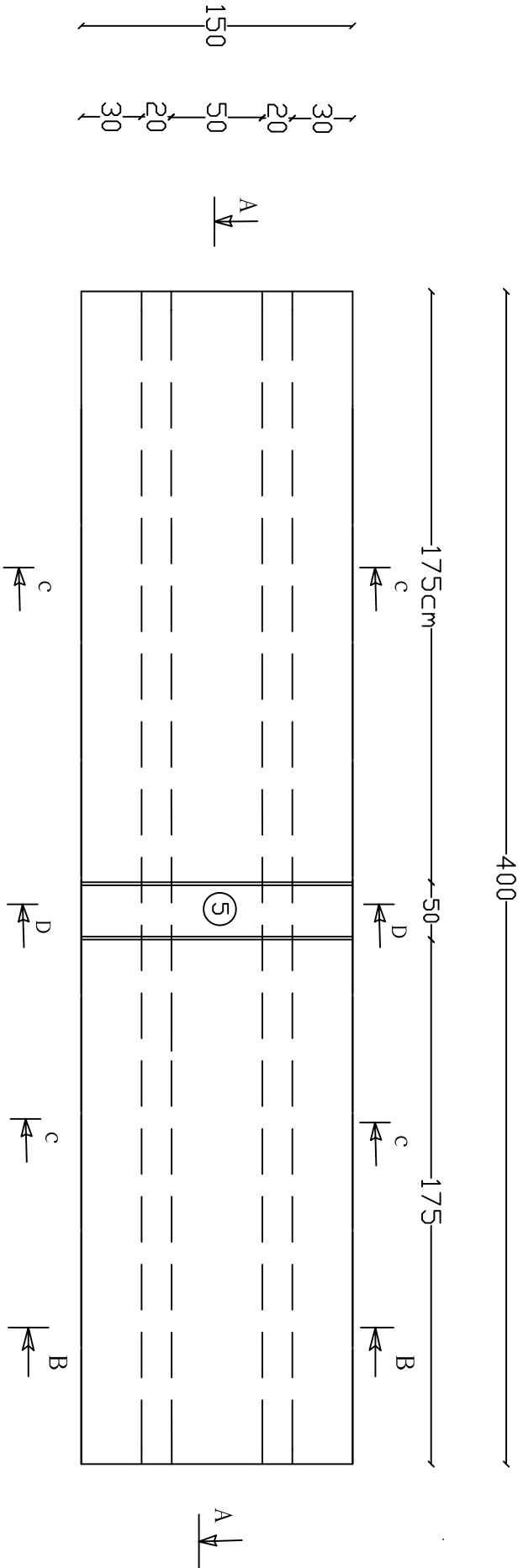
Out of scale

|        |     |
|--------|-----|
| Type   | 3   |
| Length | 4   |
| Width  | 0.9 |
| Number | 6   |

| CLIENT  | SHEET CONTENTS | PROVINCE    | KABUL       | DESIGNED BY        | Eng. Mahmood Karimyar  | POSITION | SIGNATURE | DATE | SHEET NO. | REVISION    |
|---------|----------------|-------------|-------------|--------------------|------------------------|----------|-----------|------|-----------|-------------|
| PROJECT | DISTRICT 16    | GOZARS      | 14.15.17.19 | DRAWN BY           | Eng. Abulhasan Ghajdar |          |           |      | PROFILE   | FIRST ISSUE |
| TIT-1   | G14,15,17,19   | DISTRICT    | SIXTEEN     | CHECKED BY         | Eng. Karimulla (Atase) |          |           |      | Sheet-1/1 |             |
| TIT-2   | ROADWAY PLAN   | UNH PROJECT | CFA         | APPROVED SR ENG    |                        |          |           |      | Scale     |             |
| TIT-3   |                | No.         |             | UNH REPRESENTATIVE |                        |          |           |      | AS SHOWN  |             |



PLAN SECTION



|        |     |
|--------|-----|
| Type   | 3   |
| Lentgh | 4   |
| Width  | 0.9 |
| Number | 6   |

All dimention in Cm

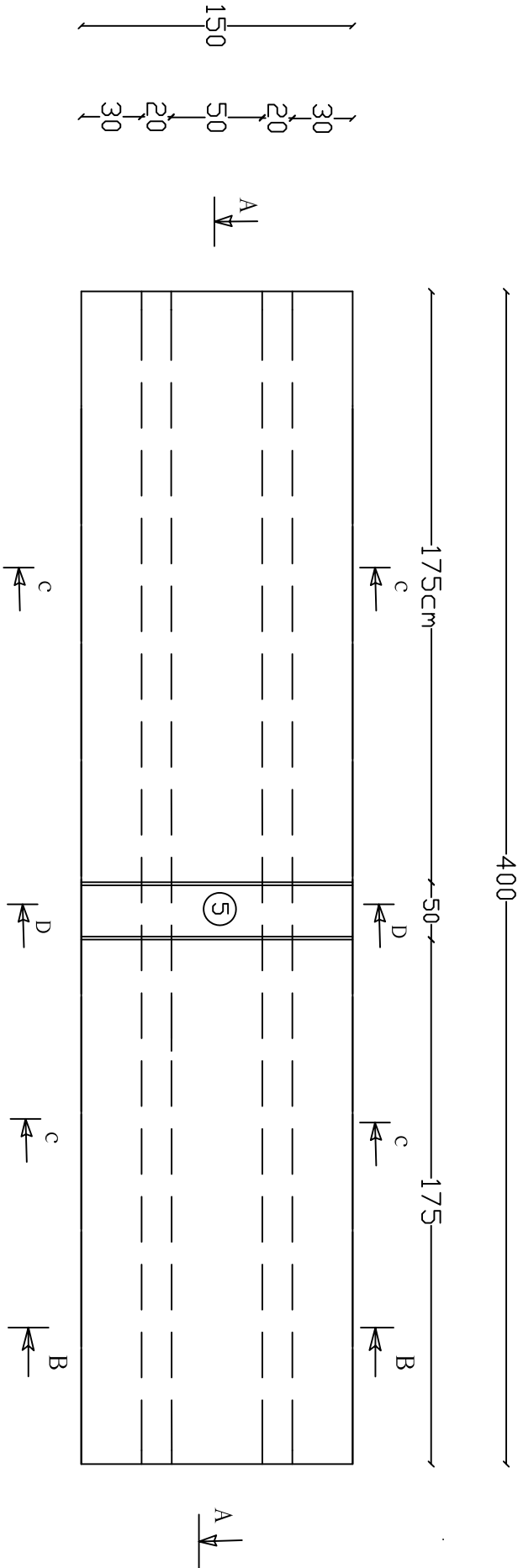
Out of scdle

| CLIENT  |  | SHEET CONTENTS |  | NAMES              |  | POSITION | SIGNATURE | DATE | SHEET NO. | REVISION  |  |
|---------|--|----------------|--|--------------------|--|----------|-----------|------|-----------|-----------|--|
| PROJECT |  | DISTRICT 16    |  | PROVINCE           |  |          |           |      |           | PROFILE   |  |
| TIT-1   |  | G14,15,17,19   |  | GUZARS             |  |          |           |      |           | Sheet-1/1 |  |
| TIT-2   |  | ROADWAY PLAN   |  | CDISTRICT          |  |          |           |      |           | Scale:    |  |
| TIT-3   |  |                |  | UNH PROJECT No.    |  |          |           |      |           | AS SHOWN  |  |
|         |  |                |  | KABUL              |  |          |           |      |           |           |  |
|         |  |                |  | 14.15.17.19        |  |          |           |      |           |           |  |
|         |  |                |  | DRAWN BY:          |  |          |           |      |           |           |  |
|         |  |                |  | CHECKED BY:        |  |          |           |      |           |           |  |
|         |  |                |  | APPROVED SR ENG    |  |          |           |      |           |           |  |
|         |  |                |  | UNH REPRESENTATIVE |  |          |           |      |           |           |  |



UN HABITAT  
FOR A BETTER URBAN FUTURE

PLAN SECTION



|        |     |
|--------|-----|
| Type   | 3   |
| Lentgh | 4   |
| Width  | 0.9 |
| Number | 6   |

All dimention in Cm

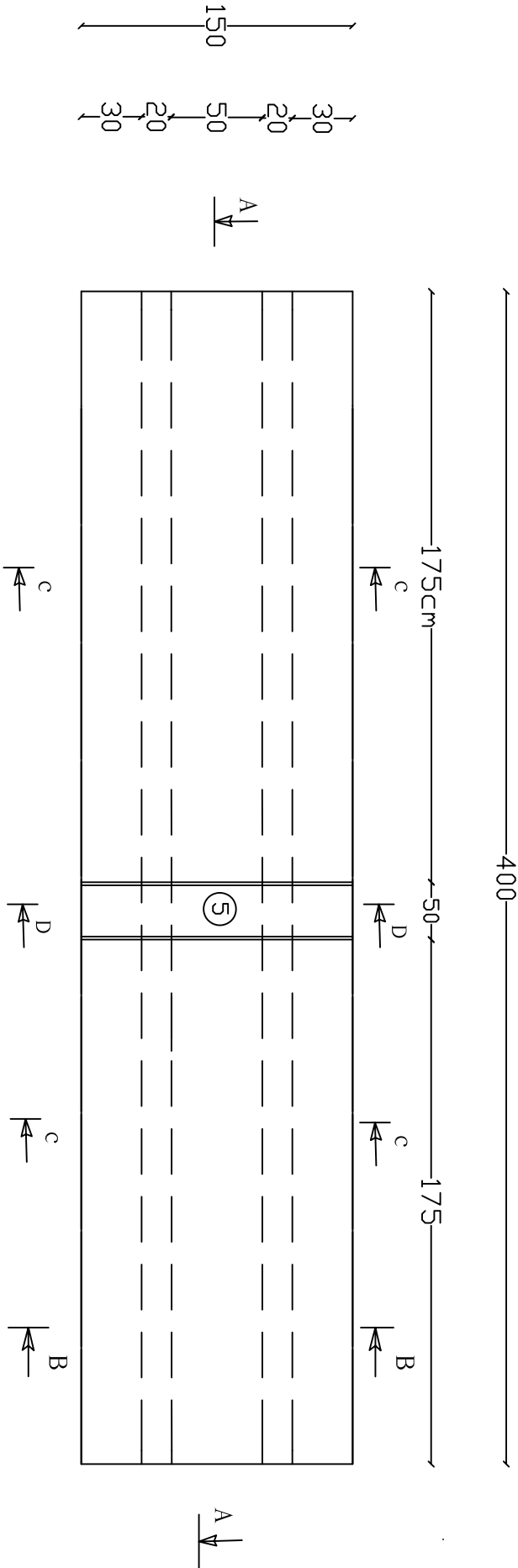
Out of scdle

| CLIENT  |  | SHEET CONTENTS |  | NAMES              |  | POSITION | SIGNATURE | DATE | SHEET NO. | REVISION  |             |
|---------|--|----------------|--|--------------------|--|----------|-----------|------|-----------|-----------|-------------|
| PROJECT |  | DISTRICT 16    |  | PROVINCE           |  |          |           |      |           | PROFILE   | FIRST ISSUE |
| TIT-1   |  | G14,15,17,19   |  | GUZARS             |  |          |           |      |           | Sheet-1/1 |             |
| TIT-2   |  | ROADWAY PLAN   |  | CDISTRICT          |  |          |           |      |           | Scale:    |             |
| TIT-3   |  |                |  | UNH PROJECT No.    |  |          |           |      |           | AS SHOWN  |             |
|         |  |                |  | KABUL              |  |          |           |      |           |           |             |
|         |  |                |  | 14.15.17.19        |  |          |           |      |           |           |             |
|         |  |                |  | SIXTEEN            |  |          |           |      |           |           |             |
|         |  |                |  | CFA                |  |          |           |      |           |           |             |
|         |  |                |  | DESIGNED BY:       |  |          |           |      |           |           |             |
|         |  |                |  | DRAWN BY:          |  |          |           |      |           |           |             |
|         |  |                |  | CHECKED BY:        |  |          |           |      |           |           |             |
|         |  |                |  | APPROVED SR ENG    |  |          |           |      |           |           |             |
|         |  |                |  | UNH REPRESENTATIVE |  |          |           |      |           |           |             |



UN HABITAT  
FOR A BETTER URBAN FUTURE

PLAN SECTION



|        |     |
|--------|-----|
| Type   | 3   |
| Lentgh | 4   |
| Width  | 0.9 |
| Number | 6   |

All dimention in Cm

Out of scdle

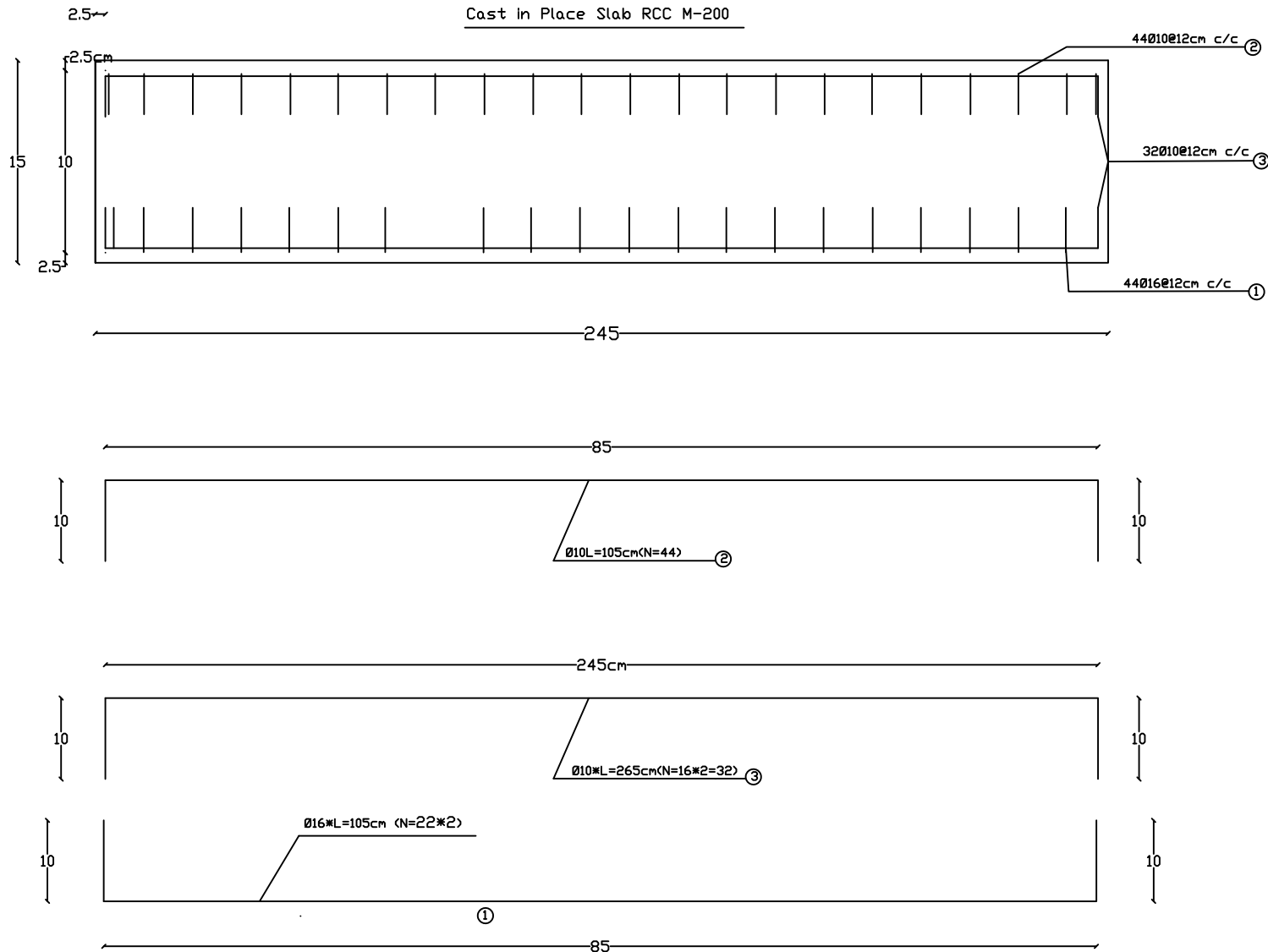
| CLIENT  |  | SHEET CONTENTS |  | NAMES              |  | POSITION | SIGNATURE | DATE | SHEET NO. | REVISION  |  |
|---------|--|----------------|--|--------------------|--|----------|-----------|------|-----------|-----------|--|
| PROJECT |  | DISTRICT 16    |  | PROVINCE           |  |          |           |      |           | PROFILE   |  |
| TIT-1   |  | G14,15,17,19   |  | GUZARS             |  |          |           |      |           | Sheet-1/1 |  |
| TIT-2   |  | ROADWAY PLAN   |  | CDISTRICT          |  |          |           |      |           | Scale:    |  |
| TIT-3   |  |                |  | UNH PROJECT No.    |  |          |           |      |           | AS SHOWN  |  |
|         |  |                |  | KABUL              |  |          |           |      |           |           |  |
|         |  |                |  | 14.15.17.19        |  |          |           |      |           |           |  |
|         |  |                |  | DRAWN BY:          |  |          |           |      |           |           |  |
|         |  |                |  | CHECKED BY:        |  |          |           |      |           |           |  |
|         |  |                |  | APPROVED SR ENG    |  |          |           |      |           |           |  |
|         |  |                |  | UNH REPRESENTATIVE |  |          |           |      |           |           |  |



UN HABITAT  
FOR A BETTER URBAN FUTURE

## SECTION C-C

Cast in Place Slab RCC M-200



Steel Bar Chart for Cast in Place slab

| Bar no.                                     | Bar dia (mm) | Num. of bar | Length (m) | Total length (m) | Weight (kg/m) | Total weight (kg) | Total weight + 5 % (kg) | Shape of bar              |
|---------------------------------------------|--------------|-------------|------------|------------------|---------------|-------------------|-------------------------|---------------------------|
| 1                                           | 16           | 44          | 1.05       | 46.2             | 1.58          | 72.996            | 76.646                  |                           |
| 2                                           | 10           | 44          | 1.05       | 46.2             | 0.62          | 28.644            | 30.08                   |                           |
| 3                                           | 10           | 32          | 2.65       | 84.8             | 0.62          | 52.576            | 55.205                  |                           |
|                                             |              |             |            |                  |               |                   |                         |                           |
|                                             |              |             |            |                  |               |                   |                         |                           |
|                                             |              |             |            |                  |               |                   |                         |                           |
| Total Weight for one Cast in Place RCC Slab |              |             |            |                  |               |                   | 161.931                 | * 9 Culvert = 1457.379 Kg |

All dimension in Cm

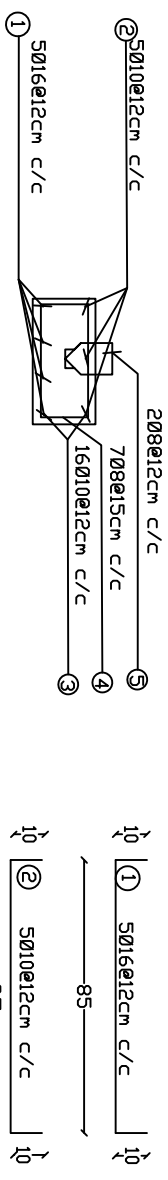
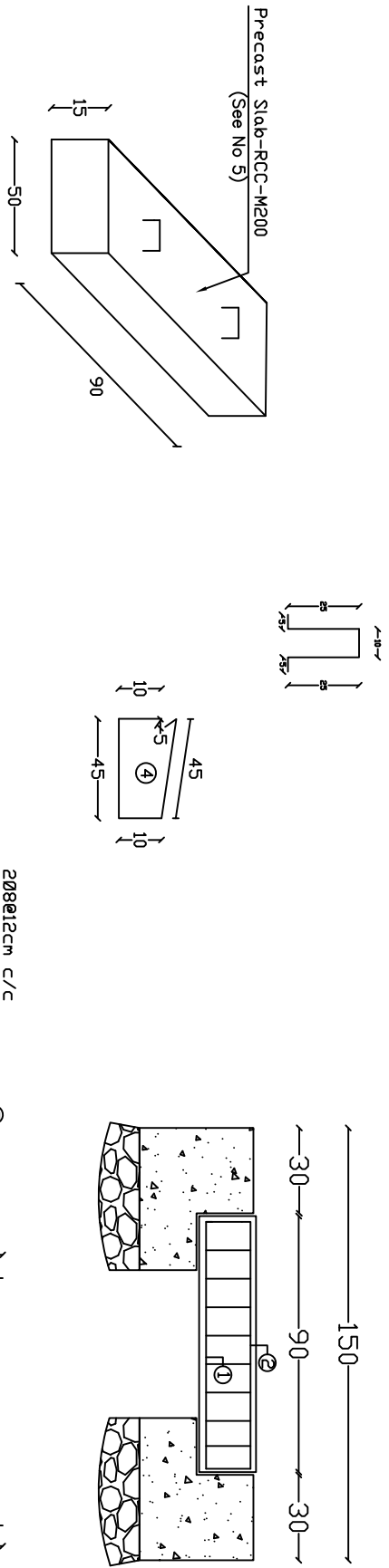
Out of scale

|        |     |
|--------|-----|
| Type   | 2   |
| Length | 6   |
| Width  | 0.9 |
| Number | 9   |

| CLIENT PROJECT | SHEET CONTENTS | PROVINCE    | KABUL       | DESIGNED BY:       | NAME                    | POSITION | SIGNATURE | DATE | SHEET NO. | REVISION    |
|----------------|----------------|-------------|-------------|--------------------|-------------------------|----------|-----------|------|-----------|-------------|
| TIT-1          | DISTRICT 16    | GOZARS      | 14.15.17.19 | DRAWN BY:          | Eng. Mahmood (Sarhwar)  |          |           |      | PROFILE   | FIRST ISSUE |
| TIT-2          | G14,15.17.19   | DISTRICT    | SIXTEEN     | CHECKED BY:        | Eng. Asim (M. J. J. J.) |          |           |      | Sheet-1/1 |             |
| TIT-3          | ROADWAY PLAN   | UNH PROJECT | CFA         | APPROVED SR ENG    | Eng. Karimulla (Atase)  |          |           |      | Scale:    |             |
|                |                | No.         |             | UNH REPRESENTATIVE |                         |          |           |      | AS SHOWN  |             |

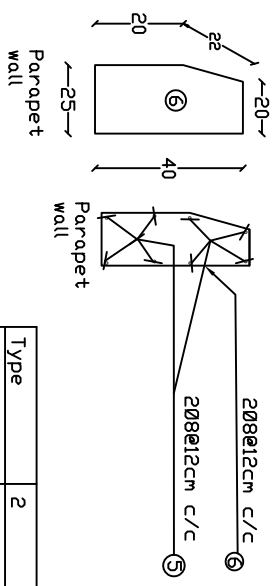
SECTION D-D

SECTION B-B



Steel Bar Chart for Precast slab

| Bar no.                               | Bar dia (mm) | Nun. of bar | Length (m) | Total length (m) | Weight (kg/m) | Total weight (kg) | Total weight + 5 % (kg) | Shape of bar                |
|---------------------------------------|--------------|-------------|------------|------------------|---------------|-------------------|-------------------------|-----------------------------|
| 1                                     | 16           | 5           | 1.05       | 5.25             | 1.58          | 8.295             | 8.709                   |                             |
| 2                                     | 10           | 5           | 1.05       | 5.25             | 0.62          | 3.255             | 3.418                   |                             |
| 3                                     | 10           | 8*2         | 0.65       | 10.4             | 0.62          | 6.448             | 6.770                   |                             |
| 4                                     | 8            | 8           | 1.20       | 8.4              | 0.40          | 3.360             | 3.528                   |                             |
| 5                                     | 8            | 2           | 0.70       | 1.4              | 0.40          | 0.560             | 0.588                   |                             |
| 6                                     | 8            | 16          | 1.4        | 22.4             | 0.40          | 8.960             | 9.408                   |                             |
| 7                                     | 10           | 2           | 0.7        | 1.4              | 0.62          | 0.868             | 0.911                   |                             |
| Total Weight for one Precast RCC Slab |              |             |            | 33.332           |               |                   |                         | * 9 *2 Culvert = 599.976 kg |

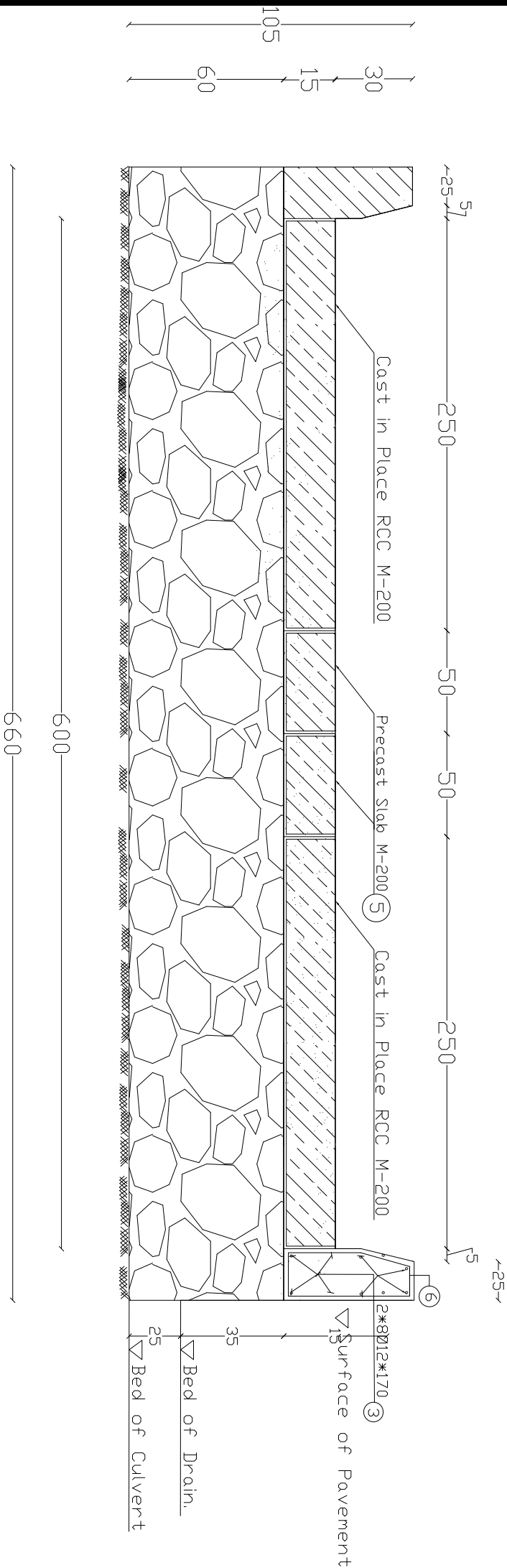


|        |     |
|--------|-----|
| Type   | 2   |
| Length | 6   |
| Width  | 0.9 |
| Number | 9   |

All dimention in Cm  
Out of scale

|            |                |  |                    |             |                 |                      |                      |           |             |
|------------|----------------|--|--------------------|-------------|-----------------|----------------------|----------------------|-----------|-------------|
| CLIENT     | SHEET CONTENTS |  | NAMES              |             | POSITION        | SIGNATURE            | DATE                 | SHEET NO. | REVISION    |
| PROJECT    | DISTRICT 16    |  | PROVINCE           | KABUL       | DISTRICT        | DISTRICT 16          | DISTRICT 16          | PROVINCE  | FIRST ISSUE |
| TIT-1      | G14,15,17,19   |  | GOZARS             | 14,15,17,19 | DRAWN BY        | Eng Mahmoodkhan      | Eng Mahmoodkhan      | Sheet-1/1 |             |
| TIT-2      | ROADWAY PLAN   |  | CIDISTRICT         | SIXTEEN     | CHECKED BY      | Eng Korhula (taseer) | Eng Korhula (taseer) | Scale     |             |
| TIT-3      | UN HABITAT     |  | UNH PROJECT        | CFA         | APPROVED SR ENG |                      |                      | AS SHOWN  |             |
| UN HABITAT |                |  | UNH REPRESENTATIVE |             |                 |                      |                      |           |             |

SECTION A-A



|        |     |
|--------|-----|
| Type   | 2   |
| Lentgh | 6   |
| Width  | 0.9 |
| Number | 9   |

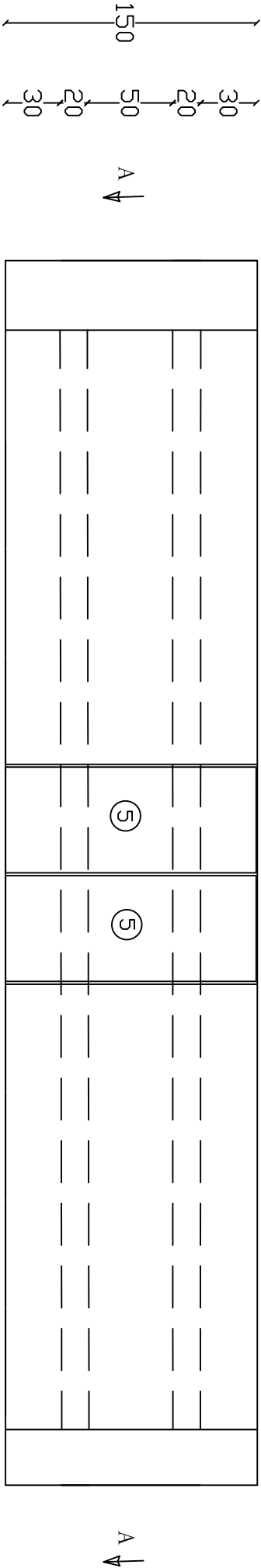
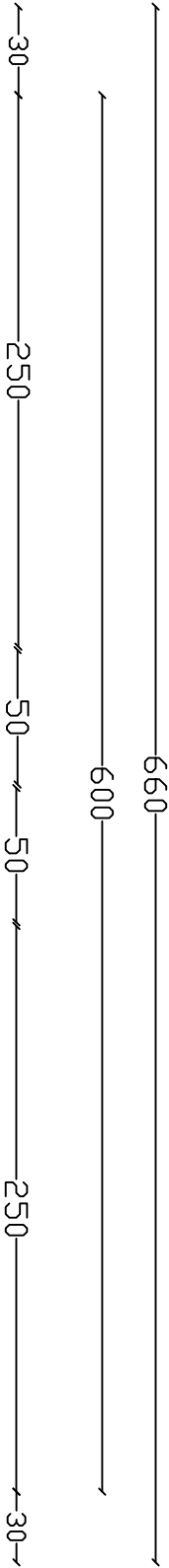
All dimention in Cm

Out of scale

| CLIENT  |  | SHEET CONTENTS |  |  |  | NAMES                 |  | POSITION | SIGNATURE | DATE | SHEET NO. |
|---------|--|----------------|--|--|--|-----------------------|--|----------|-----------|------|-----------|
| PROJECT |  | DISTRICT 16    |  |  |  | PROVINCE              |  |          |           |      |           |
| TIT-1   |  | G14,15,17,19   |  |  |  | GUZARS                |  |          |           |      |           |
| TIT-2   |  | ROADWAY PLAN   |  |  |  | CDISTRICT             |  |          |           |      |           |
| TIT-3   |  |                |  |  |  | UNH PROJECT           |  |          |           |      |           |
|         |  |                |  |  |  | No.                   |  |          |           |      |           |
|         |  |                |  |  |  | KABUL                 |  |          |           |      |           |
|         |  |                |  |  |  | 14.15.17.19           |  |          |           |      |           |
|         |  |                |  |  |  | DRAWN BY:             |  |          |           |      |           |
|         |  |                |  |  |  | SIXTEEN               |  |          |           |      |           |
|         |  |                |  |  |  | CHECKED BY:           |  |          |           |      |           |
|         |  |                |  |  |  | CFA                   |  |          |           |      |           |
|         |  |                |  |  |  | UNH REPRESENTATIVE    |  |          |           |      |           |
|         |  |                |  |  |  | No.                   |  |          |           |      |           |
|         |  |                |  |  |  | Eng Mahmoodkarimyar   |  |          |           |      |           |
|         |  |                |  |  |  | Eng AbulmteerhuJadadi |  |          |           |      |           |
|         |  |                |  |  |  | Eng Korhulla (Attee)  |  |          |           |      |           |
|         |  |                |  |  |  | APPROVED SR ENG       |  |          |           |      |           |
|         |  |                |  |  |  | AS SHOWN              |  |          |           |      |           |



PLAN SECTION



All dimension in Cm

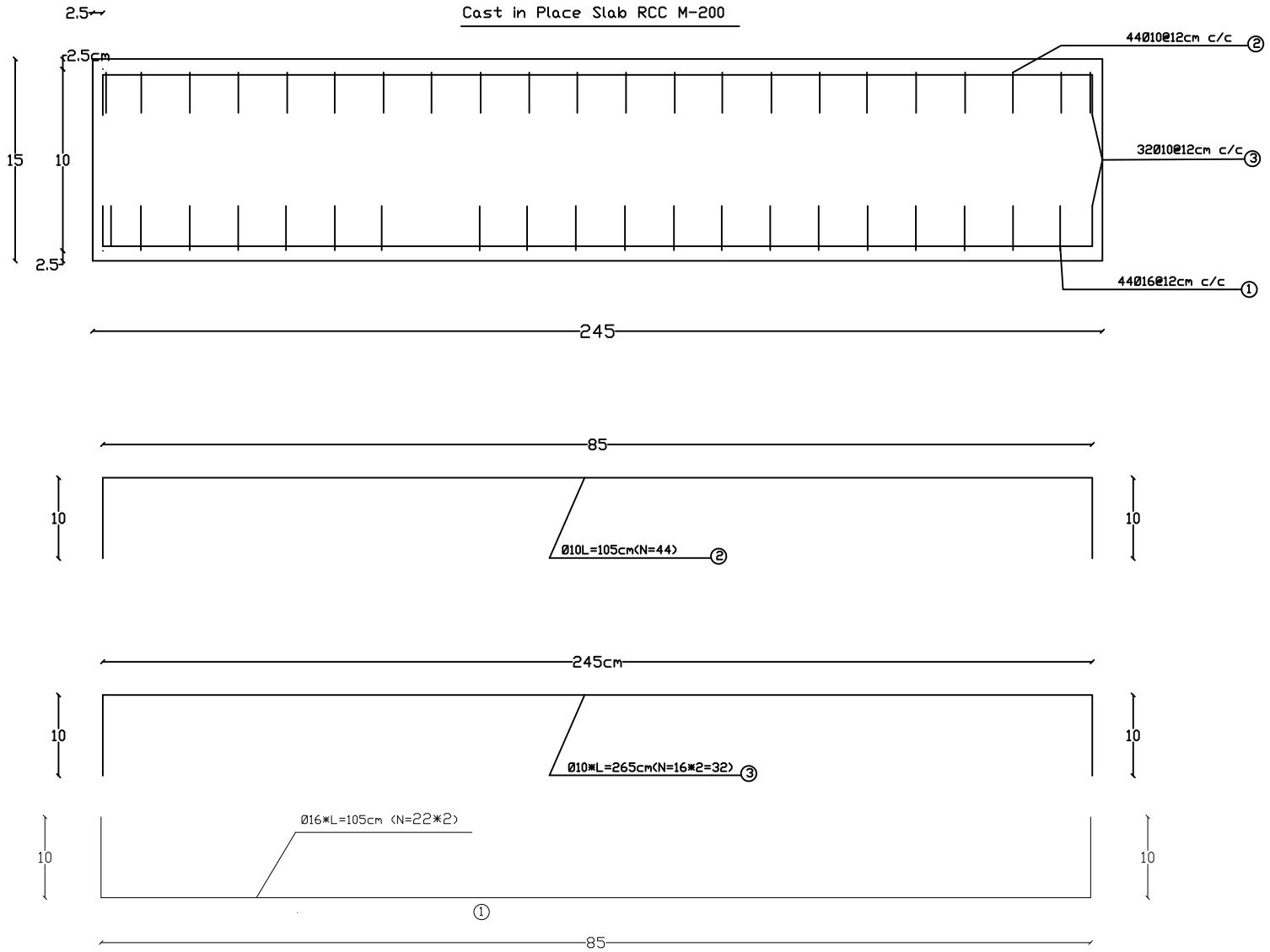
Out of scale

|        |     |
|--------|-----|
| Type   | 2   |
| Length | 6   |
| Width  | 0.9 |
| Number | 9   |

| CLIENT  |  | SHEET CONTENTS |                 | NAMES                 |                    | POSITION | SIGNATURE | DATE | SHEET NO. | REVISION    |
|---------|--|----------------|-----------------|-----------------------|--------------------|----------|-----------|------|-----------|-------------|
| PROJECT |  | DISTRICT 16    | PROVINCE        | Eng Mahmoodkarimyar   |                    |          |           |      | PROFILE   | FIRST ISSUE |
| TIT-1   |  | G14,15,17,19   | GUZARS          | Eng AbulmteerhuJadadi |                    |          |           |      | Sheet-1/1 |             |
| TIT-2   |  | ROADWAY PLAN   | CDISTRICT       | Eng Korimulla (Attee) |                    |          |           |      | Scale:    |             |
| TIT-3   |  |                | UNH PROJECT No. | CFA                   | UNH REPRESENTATIVE |          |           |      | AS SHOWN  |             |

# SECTION C-C

Cast in Place Slab RCC M-200



Steel Bar Chart for Cast in Place slab

| Bar no.                                     | Bar dia (mm) | Num. of bar | Length (m) | Total length (m) | Weight (kg/m) | Total weight (kg) | Total weight + 5 % (kg) | Shape of bar              |
|---------------------------------------------|--------------|-------------|------------|------------------|---------------|-------------------|-------------------------|---------------------------|
| 1                                           | 16           | 44          | 1.05       | 46.2             | 1.58          | 72.996            | 76.646                  | └──────────┘              |
| 2                                           | 10           | 44          | 1.05       | 46.2             | 0.62          | 28.644            | 30.08                   | └──────────┘              |
| 3                                           | 10           | 32          | 2.65       | 84.8             | 0.62          | 52.576            | 55.205                  | └──────────┘              |
|                                             |              |             |            |                  |               |                   |                         |                           |
|                                             |              |             |            |                  |               |                   |                         |                           |
|                                             |              |             |            |                  |               |                   |                         |                           |
| Total Weight for one Cast in Place RCC Slab |              |             |            |                  |               |                   | 161.931                 | * 7 Culvert = 1133.517 Kg |

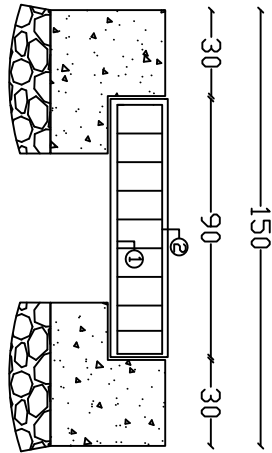
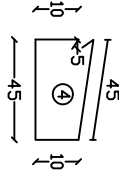
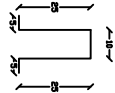
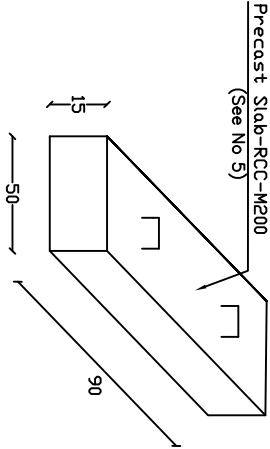
All dimension in Cm

Out of scale

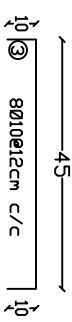
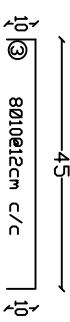
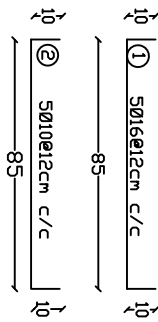
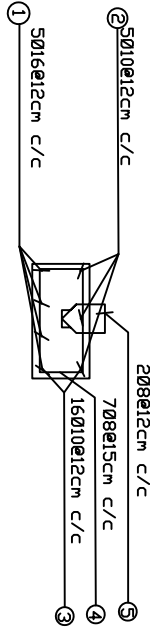
|        |     |
|--------|-----|
| Type   | 1   |
| Length | 6   |
| Width  | 0.9 |
| Number | 7   |

| CLIENT  | SHEET CONTENTS | PROVINCE    | KABUL       | DESIGNED BY        | Eng. Mahmood (Sarhwar) | POSITION | SIGNATURE | DATE | SHEET NO. | REVISION    |
|---------|----------------|-------------|-------------|--------------------|------------------------|----------|-----------|------|-----------|-------------|
| PROJECT | DISTRICT 16    | GOZARS      | 14.15.17.19 | DRAWN BY           | Eng. Abulhasan (Jalil) |          |           |      | PROFILE   | FIRST ISSUE |
| TIT-1   | G14,15.17.19   | CDISTRICT   | SIXTEEN     | CHECKED BY         | Eng. Korinulla (Atase) |          |           |      | Sheet-1/1 |             |
| TIT-2   | ROADWAY PLAN   | UNH PROJECT | CFA         | APPROVED SR ENG    |                        |          |           |      | Scale     |             |
| TIT-3   |                | No.         |             | UNH REPRESENTATIVE |                        |          |           |      | AS SHOWN  |             |

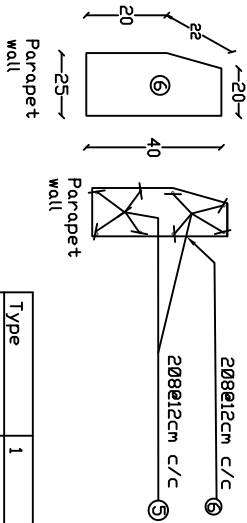
SECTION D-D



SECTION B-B



| Steel Bar Chart for Precast slab      |              |             |            |                  |                             |
|---------------------------------------|--------------|-------------|------------|------------------|-----------------------------|
| Bar no.                               | Bar dia (mm) | Num. of bar | Length (m) | Total length (m) | Weight (kg/m)               |
| 1                                     | 16           | 5           | 1.05       | 5.25             | 1.58                        |
| 2                                     | 10           | 5           | 1.05       | 5.25             | 0.62                        |
| 3                                     | 10           | 8*2         | 0.65       | 10.4             | 0.62                        |
| 4                                     | 8            | 7           | 1.20       | 8.4              | 0.40                        |
| 5                                     | 8            | 2           | 0.70       | 1.4              | 0.40                        |
| 6                                     | 8            | 16          | 1.4        | 22.4             | 0.40                        |
| 7                                     | 10           | 2           | 0.7        | 1.4              | 0.62                        |
| Total Weight for one Precast RCC Slab |              |             |            | 33.332           | * 7 *2 Culvert = 466.648 Kg |



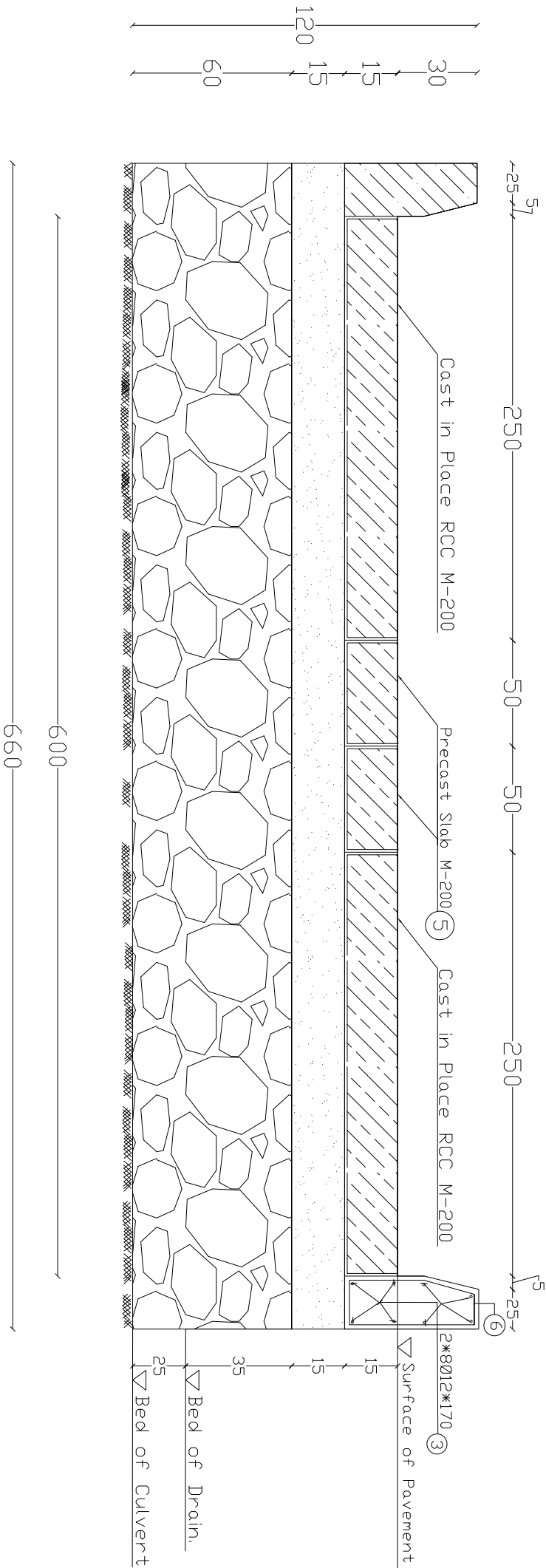
| Type   | 1   |
|--------|-----|
| Length | 6   |
| Width  | 0.9 |
| Number | 7   |

All dimension in Cm

Out of scale

| CLIENT  |  | SHEET CONTENTS |  | PROVINCE |  | DISTRICT     |  | UNH PROJECT |  | ROADWAY PLAN |  |
|---------|--|----------------|--|----------|--|--------------|--|-------------|--|--------------|--|
| PROJECT |  | DISTRICT 16    |  | KABUL    |  | G14.15.17.19 |  | SIXTEEN     |  | CFA          |  |
| TIT-1   |  | G14.15.17.19   |  | KABUL    |  | SIXTEEN      |  | CFA         |  | CFA          |  |
| TIT-2   |  | G14.15.17.19   |  | KABUL    |  | SIXTEEN      |  | CFA         |  | CFA          |  |
| TIT-3   |  | G14.15.17.19   |  | KABUL    |  | SIXTEEN      |  | CFA         |  | CFA          |  |

SECTION A-A



All dimension in Cm

Out of scale

|        |     |
|--------|-----|
| Type   | 1   |
| Length | 6   |
| Width  | 0.9 |
| Number | 7   |

| CLIENT  |  | SHEET CONTENTS |  | NAMES              |  | POSITION | SIGNATURE | DATE | SHEET NO. | REVISION  |  |
|---------|--|----------------|--|--------------------|--|----------|-----------|------|-----------|-----------|--|
| PROJECT |  | DISTRICT 16    |  | PROVINCE           |  |          |           |      |           | PROFILE   |  |
| TIT-1   |  | G14,15,17,19   |  | GUZARS             |  |          |           |      |           | Sheet-1/1 |  |
| TIT-2   |  | ROADWAY PLAN   |  | CDISTRICT          |  |          |           |      |           | Scale:    |  |
| TIT-3   |  |                |  | UNH PROJECT        |  |          |           |      |           | AS SHOWN  |  |
|         |  |                |  | CFA                |  |          |           |      |           |           |  |
|         |  |                |  | UNH REPRESENTATIVE |  |          |           |      |           |           |  |



UN HABITAT  
FOR A BETTER URBAN FUTURE

DISTRICT 16

G14,15,17,19

ROADWAY PLAN

PROVINCE

GUZARS

CDISTRICT

UNH PROJECT

KABUL

14.15.17.19

SIXTEEN

CFA

DRAWN BY:

Eng. Mahmood Karimyar

CHECKED BY:

Eng. Koriullah (Attoee)

DESIGNED BY:

Eng. Koriullah (Attoee)

APPROVED SR. ENG.

UNH REPRESENTATIVE

POSITION

SIGNATURE

DATE

SHEET NO.

REVISION

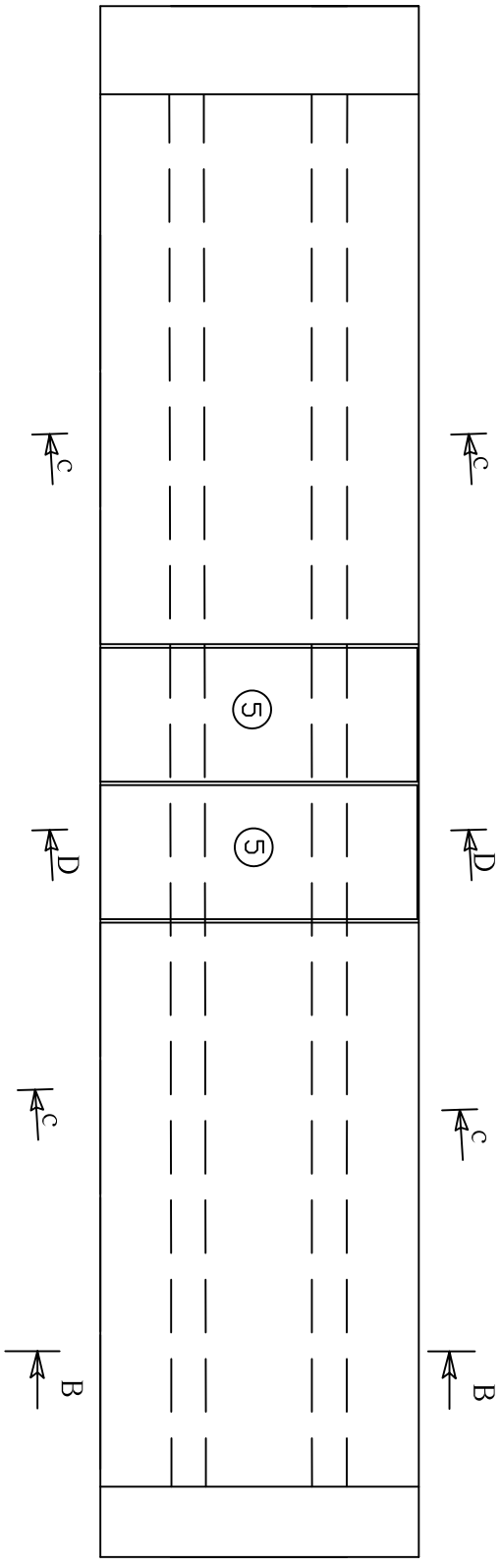
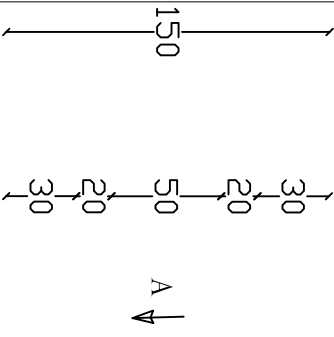
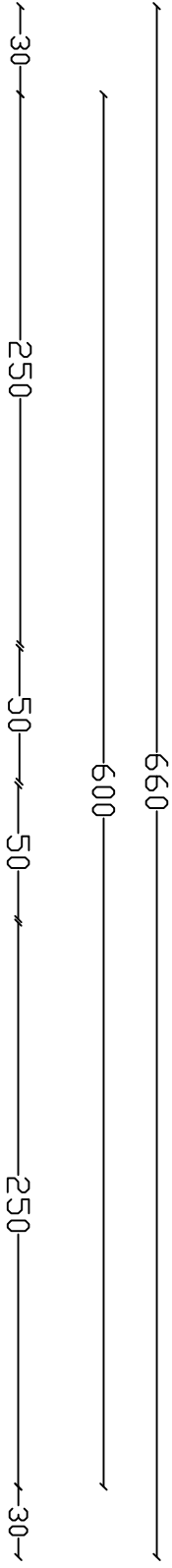
PROFILE

Sheet-1/1

Scale:

FIRST ISSUE

PLAN SECTION



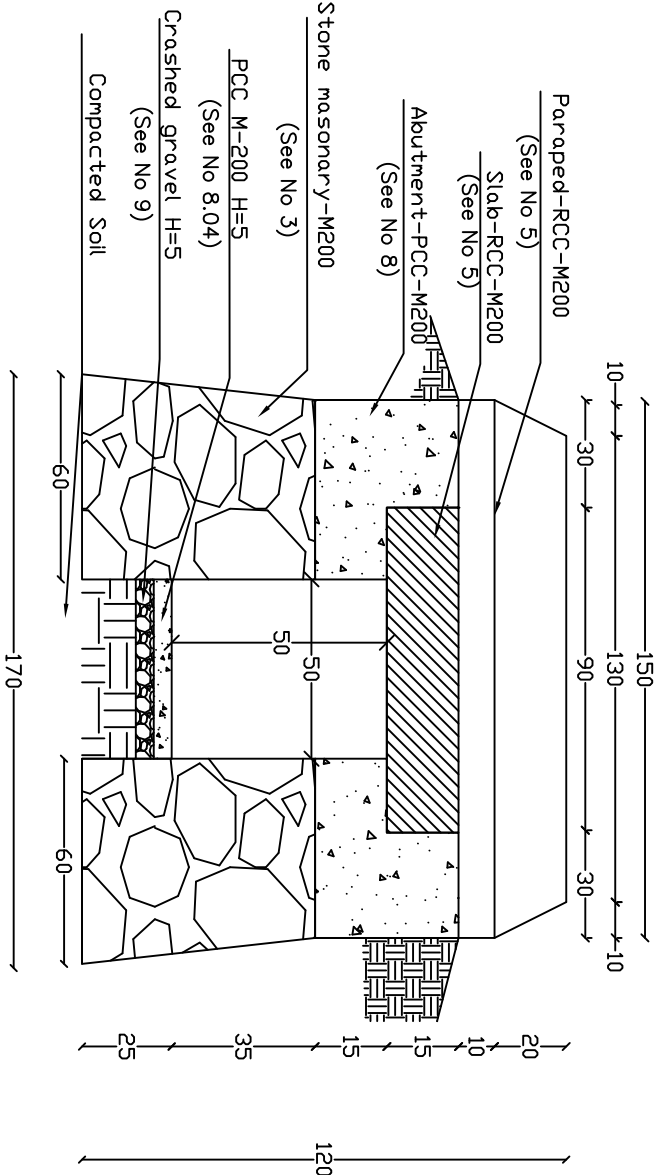
All dimention in Cm

Out of scale

|        |     |
|--------|-----|
| Type   | 1   |
| Lentgh | 6   |
| Width  | 0.9 |
| Number | 7   |

|                                                                                   |  |                 |  |             |  |                 |  |                        |  |          |  |           |  |      |  |           |  |             |  |
|-----------------------------------------------------------------------------------|--|-----------------|--|-------------|--|-----------------|--|------------------------|--|----------|--|-----------|--|------|--|-----------|--|-------------|--|
| CLIENT                                                                            |  |                 |  |             |  |                 |  |                        |  |          |  |           |  |      |  |           |  |             |  |
| PROJECT                                                                           |  |                 |  |             |  |                 |  |                        |  |          |  |           |  |      |  |           |  |             |  |
| TIT-1                                                                             |  |                 |  |             |  |                 |  |                        |  |          |  |           |  |      |  |           |  |             |  |
| TIT-2                                                                             |  |                 |  |             |  |                 |  |                        |  |          |  |           |  |      |  |           |  |             |  |
| TIT-3                                                                             |  |                 |  |             |  |                 |  |                        |  |          |  |           |  |      |  |           |  |             |  |
|  |  |                 |  |             |  |                 |  |                        |  |          |  |           |  |      |  |           |  |             |  |
| SHEET CONTENTS                                                                    |  | PROVINCE        |  | KABUL       |  | DISIGNED BY:    |  | NAMES                  |  | POSITION |  | SIGNATURE |  | DATE |  | SHEET NO. |  | REVISION    |  |
| DISTRICT 16                                                                       |  | GUZARS          |  | 14.15.17.19 |  | DRAWN BY:       |  | Eng Mahmoodkarimyar    |  |          |  |           |  |      |  | PROFILE   |  | FIRST ISSUE |  |
| G14,15,17,19                                                                      |  | CDISTRICT       |  | SIXTEEN     |  | CHECKED BY:     |  | Eng Korimulla (Attoee) |  |          |  |           |  |      |  | Sheet-1/1 |  |             |  |
| ROADWAY PLAN                                                                      |  | UNH PROJECT No. |  | CFA         |  | APPROVED SR ENG |  |                        |  |          |  |           |  |      |  | AS SHOWN  |  |             |  |

SECTION B-B



All dimension in Cm

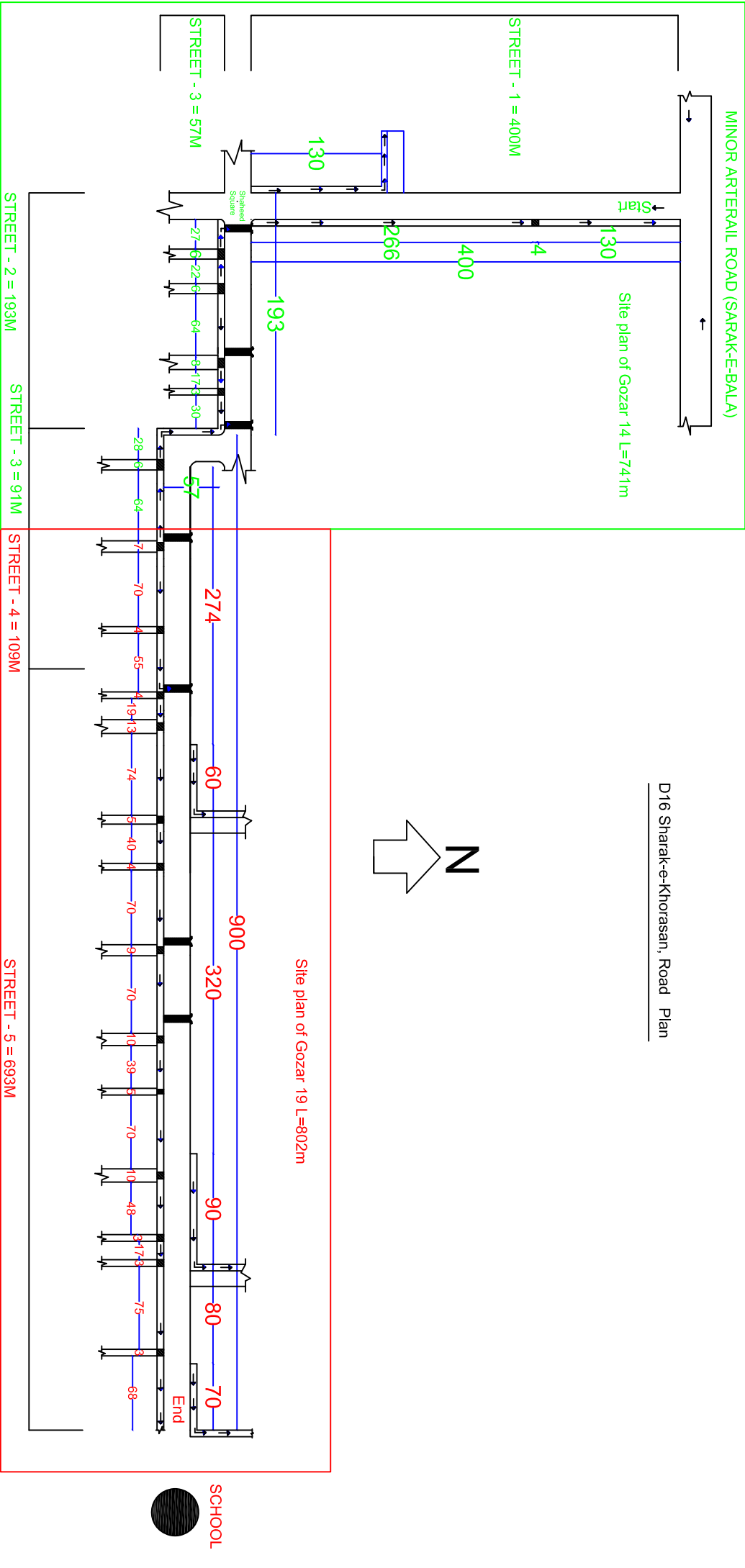
Out of scale

|        |     |
|--------|-----|
| Type   | 1   |
| Length | 6   |
| Width  | 0.9 |
| Number | 7   |

| CLIENT  |  | SHEET CONTENTS |             | NAMES   |             | POSITION        | SIGNATURE               | DATE                | SHEET NO. | REVISION |             |
|---------|--|----------------|-------------|---------|-------------|-----------------|-------------------------|---------------------|-----------|----------|-------------|
| PROJECT |  | DISTRICT 16    | PROVINCE    | GUZARS  | KABUL       | 14.15.17.19     | DESIGNED BY:            | Eng Mahmoodkarihyar |           | PROFILE  | FIRST ISSUE |
| TIT-1   |  | G14,15,17,19   | CDISTRICT   | SIXTEEN | 14.15.17.19 | DRAWN BY:       | Eng AbulMeteerMujaddidi |                     | Sheet-1/1 |          |             |
| TIT-2   |  | ROADWAY PLAN   | UNH PROJECT | CFA     | SIXTEEN     | CHECKED BY:     | Eng Korimulla (Ataee)   |                     | Scale:    |          |             |
| TIT-3   |  |                | No.         |         |             | APPROVED SR ENG | UNH REPRESENTATIVE      |                     | AS SHOWN  |          |             |

MINOR ARTERIAL ROAD (SARAK-E-BALA)

D16 Sharak-e-Khorasan, Road Plan



| CLIENT  |  | SHEET CONTENTS            |             |             |                 | NAMES                   |  | POSITION | SIGNATURE | DATE | SHEET NO. | REVISION    |
|---------|--|---------------------------|-------------|-------------|-----------------|-------------------------|--|----------|-----------|------|-----------|-------------|
| PROJECT |  | DISTRICT 16               | PROVINCE    | KABUL       | DESIGNED BY:    | Eng Mahmood(kashnfar)   |  |          |           |      | PROFILE   | FIRST ISSUE |
| TIT-1   |  | G14,15,17,19              | GOZARS      | 14,15,17,19 | DRAWN BY:       | Eng Ab.Mateen(Majedadi) |  |          |           |      | Sheet-1/1 |             |
| TIT-2   |  | ROADWAY PLAN              | DISTRICT    | SIXTEEN     | CHECKED BY:     | Eng Karimulla (Omari)   |  |          |           |      | Scale:    |             |
| TIT-3   |  |                           | UNH PROJECT | CFA         | APPROVED SR ENG |                         |  |          |           |      | AS SHOWN  |             |
|         |  | UN HABITAT                |             |             |                 | UNH REPRESENTATIVE      |  |          |           |      |           |             |
|         |  | FOR A BETTER URBAN FUTURE |             |             |                 |                         |  |          |           |      |           |             |

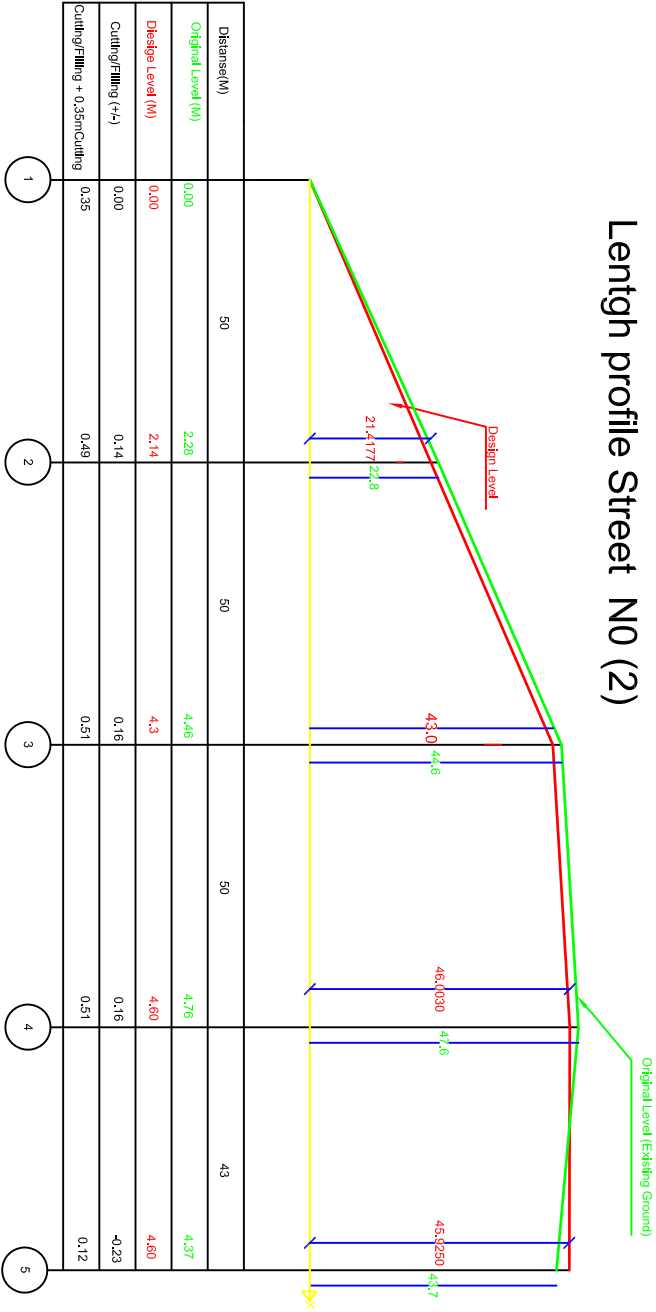
## Lentgh profile Street N0 (3)



| LEVEL COMPUTATION                                                                      |                          |                                   |                       |                   |                                  |                        |           |                     |           |                          |         |
|----------------------------------------------------------------------------------------|--------------------------|-----------------------------------|-----------------------|-------------------|----------------------------------|------------------------|-----------|---------------------|-----------|--------------------------|---------|
| <div>UNHABITAT</div> <div>FOR A BETTER URBAN FUTURE</div>                              |                          |                                   |                       |                   |                                  |                        |           |                     |           |                          |         |
| Spreadsheet Developed by.. Engineer Mahmood (Karim yar) Unite, UNHABITAT, Afghanistan. |                          |                                   |                       |                   |                                  |                        |           |                     |           |                          |         |
| Project:                                                                               | C F A Center of road     |                                   |                       | house corner      |                                  |                        |           |                     |           |                          |         |
| Province                                                                               | Kabul                    |                                   |                       | Observed by       | Eng.Mahmood (Karimyar)           |                        | Computed  | Eng AB Mateen       |           | S Backsights (m)         | 1.300   |
| District                                                                               | 16 -G 17                 |                                   |                       | Location          | Sharak Khorasan Phase #1         |                        | Circuit:  | G17-CDC17 -Street-3 |           | S Foresights (m)         | 1.450   |
| Circuit Ty                                                                             | Open                     | 1st RL                            | 0.000                 |                   | Last RL                          |                        | Date:     |                     |           | S (Backsights-Foresights | -0.150  |
| Cal last RL                                                                            |                          | Error:                            | 0.00                  |                   | Nr of Corr                       | 0                      |           |                     |           | First RL - last RL (m)   | 0.150   |
|                                                                                        |                          |                                   |                       |                   |                                  |                        |           |                     |           |                          |         |
| Input<br>Point                                                                         | Back<br>Sight, BS<br>(m) | Intermedi<br>ate Sight,<br>IS (m) | Fore Sight,<br>FS (m) | S Distance<br>(m) | Collimation<br>Height, CH<br>(m) | Reduced Levels, RL (m) |           |                     |           | Σ H<br>Distanc<br>e (m)  | Remarks |
|                                                                                        |                          |                                   |                       |                   |                                  | Calculated             | Corr. Fac | Correction          | Corrected |                          |         |
| 1                                                                                      | 1.300                    |                                   |                       | 0.00              | 1.3                              | 0.00                   | 0         |                     | 0.000     | 0.001                    |         |
| 2                                                                                      | 1.500                    |                                   | 1.230                 | 15.00             | 1.57                             | 0.07                   | 1         |                     | 0.070     | 0.001                    |         |
| 3                                                                                      | 1.570                    |                                   | 1.360                 | 15.00             | 1.78                             | 0.21                   | 2         |                     | 0.210     | 0.001                    |         |
| 4                                                                                      | 1.770                    |                                   | 1.400                 | 15.00             | 2.15                             | 0.38                   | 3         |                     | 0.380     | 0.001                    |         |
| 5                                                                                      |                          |                                   | 1.350                 | 12.00             | 2.15                             | 0.8                    | 4         |                     | 0.800     | 1.001                    |         |
| 6                                                                                      |                          |                                   | 1.600                 | 50.00             | 2.15                             | 0.55                   | 5         |                     | 0.550     | 2.001                    |         |
| 7                                                                                      |                          |                                   | 1.450                 | 41.00             | 2.15                             | 0.7                    | 4         |                     | 0.700     | 0.001                    |         |
|                                                                                        |                          |                                   |                       | 148.00            |                                  |                        |           |                     |           |                          |         |



Lentgh profile Street NO (2)



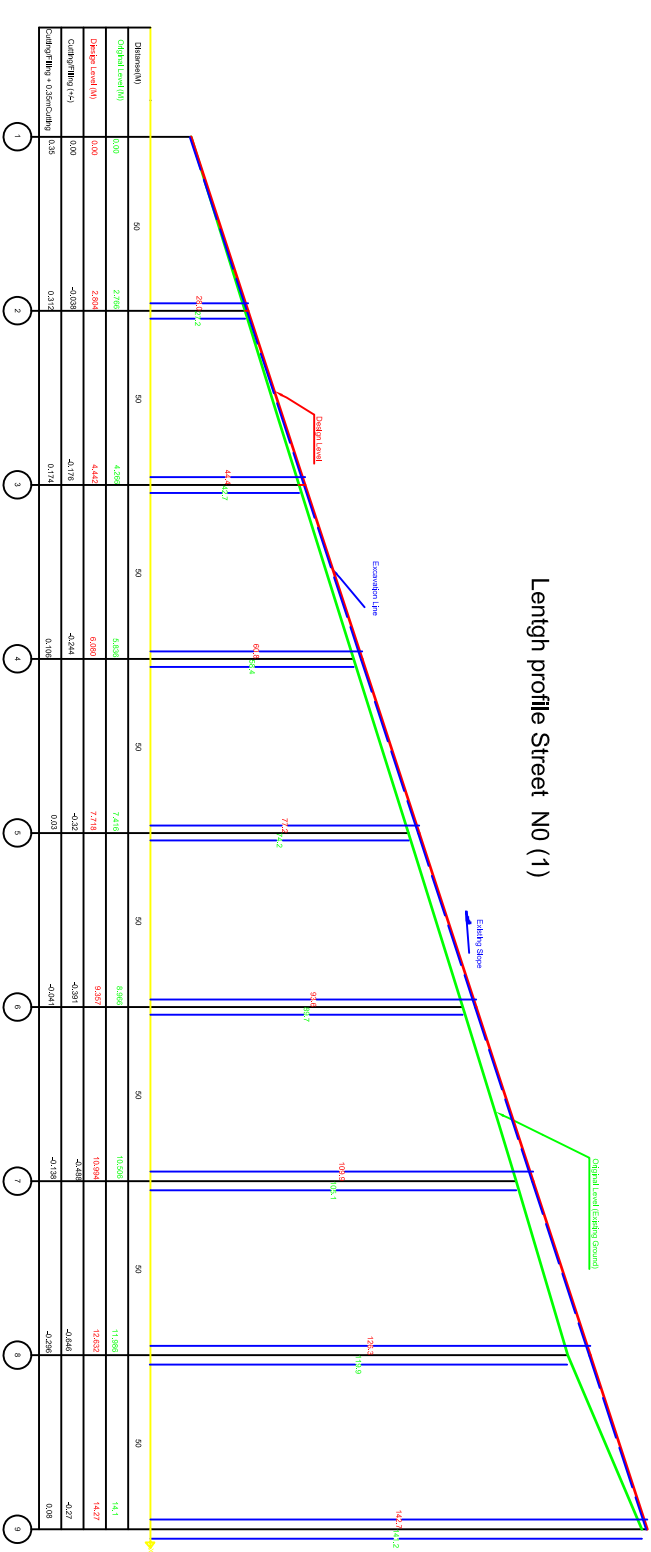
LEVEL COMPUTATION



Spreadsheet Developed by: Engineer Mahmood (Karim yar) Unite, UNHABITAT, Afghanistan.

|                               |                    |                            |                          |                |                            |                         |                      |                  |         |
|-------------------------------|--------------------|----------------------------|--------------------------|----------------|----------------------------|-------------------------|----------------------|------------------|---------|
| Project: C F A Center of road |                    | house corner               |                          |                |                            |                         |                      |                  |         |
| Province                      | Kabul              | Observed by:               | Eng. Mahmood (Karim yar) | Computed by:   | Eng. AB Mateen             | S Backsights (m)        | 2.400                |                  |         |
| District                      | 16-G 15            | Location                   | Sharak Khorasan Phase #1 | Circuit:       | G15-CDC 15-Street-2        | S Foresights (m)        | 1.860                |                  |         |
| Circuit Type                  | Open               | 1st RL                     | 0.000                    | Last RL        |                            | S Backsights-Foresights | 0.540                |                  |         |
| Call last RL                  |                    | Error:                     | 0.00                     | Nr of Corr     | 0                          | First RL - last RL (m)  | -0.540               |                  |         |
|                               |                    |                            |                          |                |                            |                         |                      |                  |         |
| Input Point                   | Back Sight, BS (m) | Intermediate Sight, IS (m) | Fore Sight, FS (m)       | S Distance (m) | Collimation Height, CH (m) | Reduced Levels, RL (m)  |                      | Σ H Distance (m) | Remarks |
|                               |                    |                            |                          |                |                            | Calculated              | Corr. Fac Correction | Corrected        |         |
| 1                             | 2.400              |                            |                          | 0.00           | 2.4                        | 0.00                    | 0                    | 0.000            | 0.001   |
| 2                             | 2.300              |                            | 0.125                    | 50.00          | 4.575                      | 2.275                   | 1                    | 2.275            | 0.001   |
| 3                             | 1.800              |                            | 0.120                    | 50.00          | 6.255                      | 4.455                   | 2                    | 4.455            | 0.001   |
| 4                             | 1.470              |                            | 1.500                    | 50.00          | 6.225                      | 4.755                   | 3                    | 4.755            | 0.001   |
| 5                             |                    |                            | 1.860                    | 43.00          | 6.225                      | 4.365                   | 4                    | 4.365            | 0.001   |
|                               |                    |                            |                          | 193.00         |                            |                         |                      |                  |         |

Lentgh profile Street NO (1)



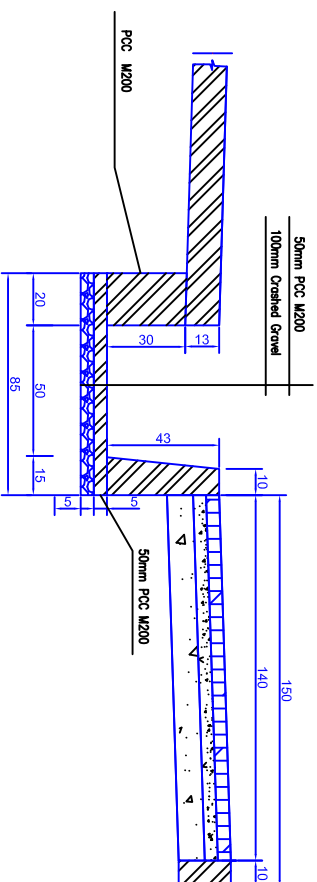
LEVEL COMPUTATION



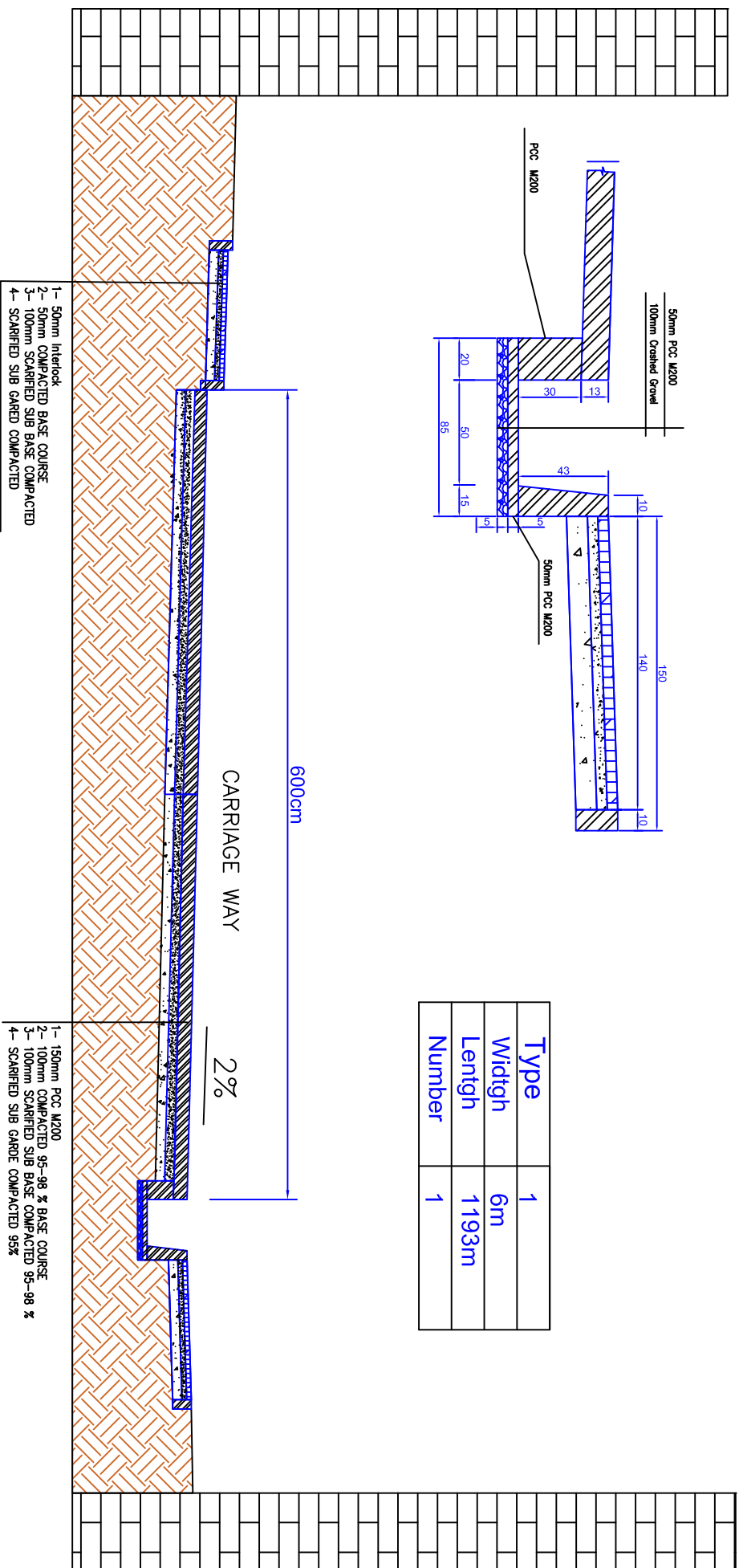
Spreadsheet Developed by: Engineer Mahmood (Karimyar) Unite, UNHABITAT, Afghanistan.

|                             |                |                             |                          |                |                            |                          |                      |                 |         |  |
|-----------------------------|----------------|-----------------------------|--------------------------|----------------|----------------------------|--------------------------|----------------------|-----------------|---------|--|
| Project: C F A SNAP of Road |                | house corner                |                          |                |                            |                          |                      |                 |         |  |
| Province                    | Kabul          | Observed by:                | Eng.Mahmood (Karimyar)   | Computed by:   | Eng AB Mateen              | S Backsights (m)         | 2.050                |                 |         |  |
| District                    | 16 -G 14       | Location                    | Sharak Khorasan Phase #1 | Circuit:       | G14-CDC 14-Street-1        | S Foresights (m)         | 0.120                |                 |         |  |
| Circuit Type                | Open           | 1st RL                      | 0.000                    | Date:          |                            | S (Backsights-Foresights | 1.930                |                 |         |  |
| Cal last RL                 |                | Error:                      | 0.00                     | Nr of Corr     | 0                          | First RL - last RL (m)   | -1.930               |                 |         |  |
|                             |                |                             |                          |                |                            |                          |                      |                 |         |  |
| Input                       | Back Sight, BS | Intermedi ate Sight, IS (m) | Fore Sight, FS (m)       | S Distance (m) | Collimation Height, CH (m) | Reduced Levels, RL (m)   |                      | Σ H             | Remarks |  |
| Staff Point                 |                |                             |                          |                |                            | Calculated               | Corr. Fac Correction | Corrected e (m) |         |  |
| 1                           | 2.050          |                             |                          | 0.00           | 2.05                       | 0.00                     | 0                    | 0.000           | 0.001   |  |
| 2                           | 2.030          |                             | 0.500                    | 50.00          | 3.58                       | 1.55                     | 1                    | 1.550           | 0.001   |  |
| 3                           | 2.020          |                             | 0.480                    | 50.00          | 5.12                       | 3.1                      | 2                    | 3.100           | 0.001   |  |
| 4                           | 2.000          |                             | 0.450                    | 50.00          | 6.67                       | 4.67                     | 3                    | 4.670           | 0.001   |  |
| 5                           | 1.950          |                             | 0.420                    | 50.00          | 8.2                        | 6.25                     | 4                    | 6.250           | 0.001   |  |
| 6                           | 1.900          |                             | 0.400                    | 50.00          | 9.7                        | 7.8                      | 5                    | 7.800           | 0.001   |  |
| 7                           | 1.800          |                             | 0.360                    | 50.00          | 11.14                      | 9.34                     | 6                    | 9.340           | 0.001   |  |
| 8                           | 2.250          |                             | 0.320                    | 50.00          | 13.07                      | 10.82                    | 7                    | 10.820          | 0.001   |  |
| 9                           |                |                             | 0.120                    | 50.00          | 13.07                      | 12.95                    | 8                    | 12.950          | 0.001   |  |
|                             |                |                             |                          | 400.00         |                            |                          |                      |                 |         |  |

# Khorasan Road



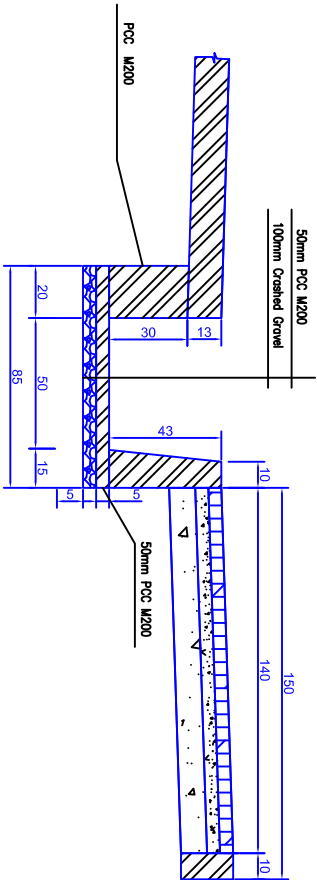
|        |       |
|--------|-------|
| Type   | 1     |
| Width  | 6m    |
| Length | 1193m |
| Number | 1     |



STREETS HAVING 7m to 16m METERS WIDTH FROM FACE OF WALL TO WALL      Guzars CROSS SECTION WITH      PCC M200

| CLIENT  |  | SHEET CONTENTS  |             | NAMES         |                    | POSITION                 |
|---------|--|-----------------|-------------|---------------|--------------------|--------------------------|
|         |  |                 |             |               |                    |                          |
| PROJECT |  | DISTRICT 16     | PROVINCE    | KABUL         | DESIGNED BY:       | Eng Mahmood(Karimyar)    |
| TIT-1   |  | G14, 15, 17, 19 | GOZARS      | 14,15, 17, 19 | DRAWN BY:          | Eng Ab.Mateen(Muljadadi) |
| TIT-2   |  |                 | DISTRICT    | SIXTEEN       | CHECKED BY:        | Eng Karimulla (Omari)    |
| TIT-3   |  | ROADWAY PLAN    | UNH PROJECT | CFA           | APPROVED SR ENG    |                          |
|         |  |                 | No.         |               | UNH REPRESENTATIVE |                          |

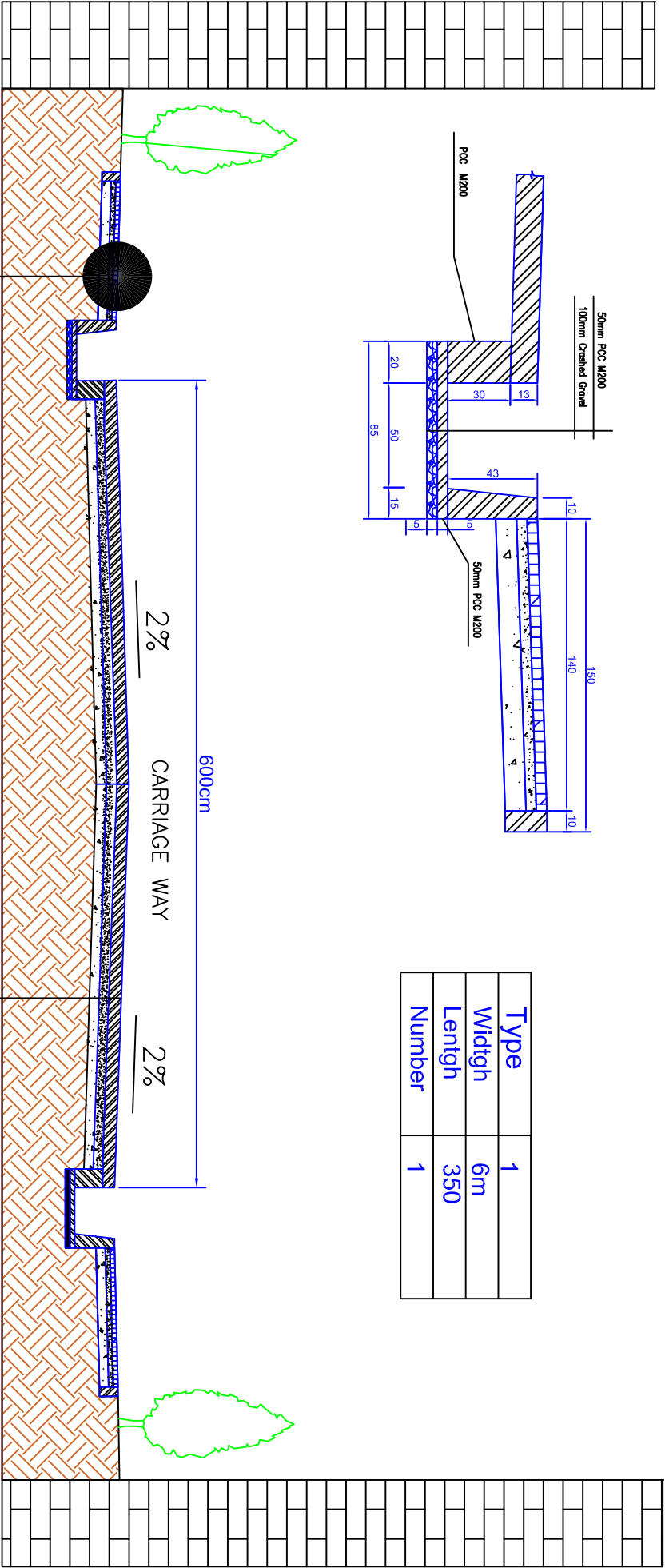
Khorasan Road



|        |     |
|--------|-----|
| Type   | 1   |
| Width  | 6m  |
| Length | 350 |
| Number | 1   |

- 1- 50mm Interlock
- 2- 50mm COMPACTED BASE COURSE
- 3- 100mm SCARIFIED SUB BASE COMPACTED
- 4- SCARIFIED SUB BASE COMPACTED

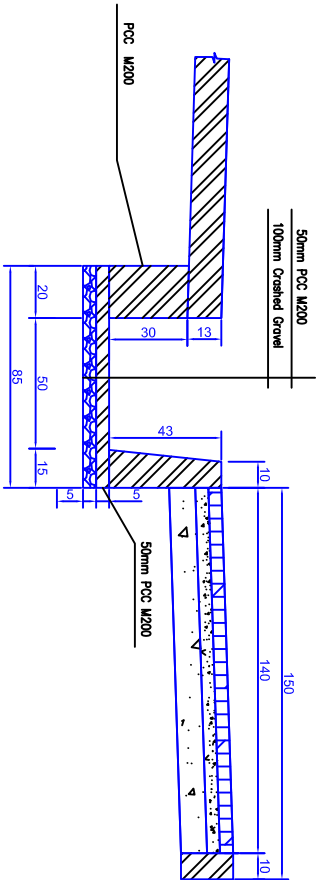
- 1- 150mm PCC M200
- 2- 100mm COMPACTED 95-98 % BASE COURSE
- 3- 100mm SCARIFIED SUB BASE COMPACTED 95-98 %
- 4- SCARIFIED SUB BASE COMPACTED 95%



STREETS HAVING 7m to 16m METERS WIDTH FROM FACE OF WALL TO WALL      Guzars CROSS SECTION WITH      PCC M200

| CLIENT  |  | SHEET CONTENTS |  | PROVINCE    |  | KABUL       |  | DESIGNED BY:       |  | NAMES                    |  | POSITION |  |
|---------|--|----------------|--|-------------|--|-------------|--|--------------------|--|--------------------------|--|----------|--|
| PROJECT |  | DISTRICT 16    |  | GOZARS      |  | 14.15.17.19 |  | DRAWN BY:          |  | Eng Mahmood(Karimyar)    |  |          |  |
| TIT-1   |  | G14,15,17,19   |  | CDISTRICT   |  | SIXTEEN     |  | CHECKED BY:        |  | Eng Ab.Mateen(Mujaddadi) |  |          |  |
| TIT-2   |  | ROADWAY PLAN   |  | UNH PROJECT |  | CFA         |  | APPROVED SR ENG    |  | Eng Karimulla (Atee)     |  |          |  |
| TIT-3   |  |                |  | No.         |  |             |  | UNH REPRESENTATIVE |  |                          |  |          |  |

Khorasan Road



|        |     |
|--------|-----|
| Type   | 1   |
| Width  | 6m  |
| Length | 350 |
| Number | 1   |

- 1- 50mm Interlock
- 2- 50mm COMPACTED BASE COURSE
- 3- 100mm SCARIFIED SUB BASE COMPACTED
- 4- SCARIFIED SUB BASE COMPACTED

- 1- 150mm PCC M200
- 2- 100mm COMPACTED 95-98 % BASE COURSE
- 3- 100mm SCARIFIED SUB BASE COMPACTED 95-98 %
- 4- SCARIFIED SUB BASE COMPACTED 95%

STREETS HAVING 7m to 16m METERS WIDTH FROM FACE OF WALL TO WALL      Guzars CROSS SECTION WITH      PCC M200

|         |  |                |  |             |  |                          |  |          |  |
|---------|--|----------------|--|-------------|--|--------------------------|--|----------|--|
| CLIENT  |  | SHEET CONTENTS |  | PROVINCE    |  | NAMES                    |  | POSITION |  |
| PROJECT |  | DISTRICT 16    |  | GOZARS      |  | Eng Mahmood(Karimyar)    |  |          |  |
| TIT-1   |  | G14,15,17,19   |  | CDISTRICT   |  | Eng Ab.Mateen(Mujaddadi) |  |          |  |
| TIT-2   |  | ROADWAY PLAN   |  | UNH PROJECT |  | Eng Karimulla (Atee)     |  |          |  |
| TIT-3   |  |                |  | No.         |  | UNH REPRESENTATIVE       |  |          |  |

## Cost Break Down for Drainage and Road Project

CIA Number:

CIA Title:

Province

District:

Gozar:

Pavement of street,  
pedestrian and drain  
Kabul  
16.00  
14,19

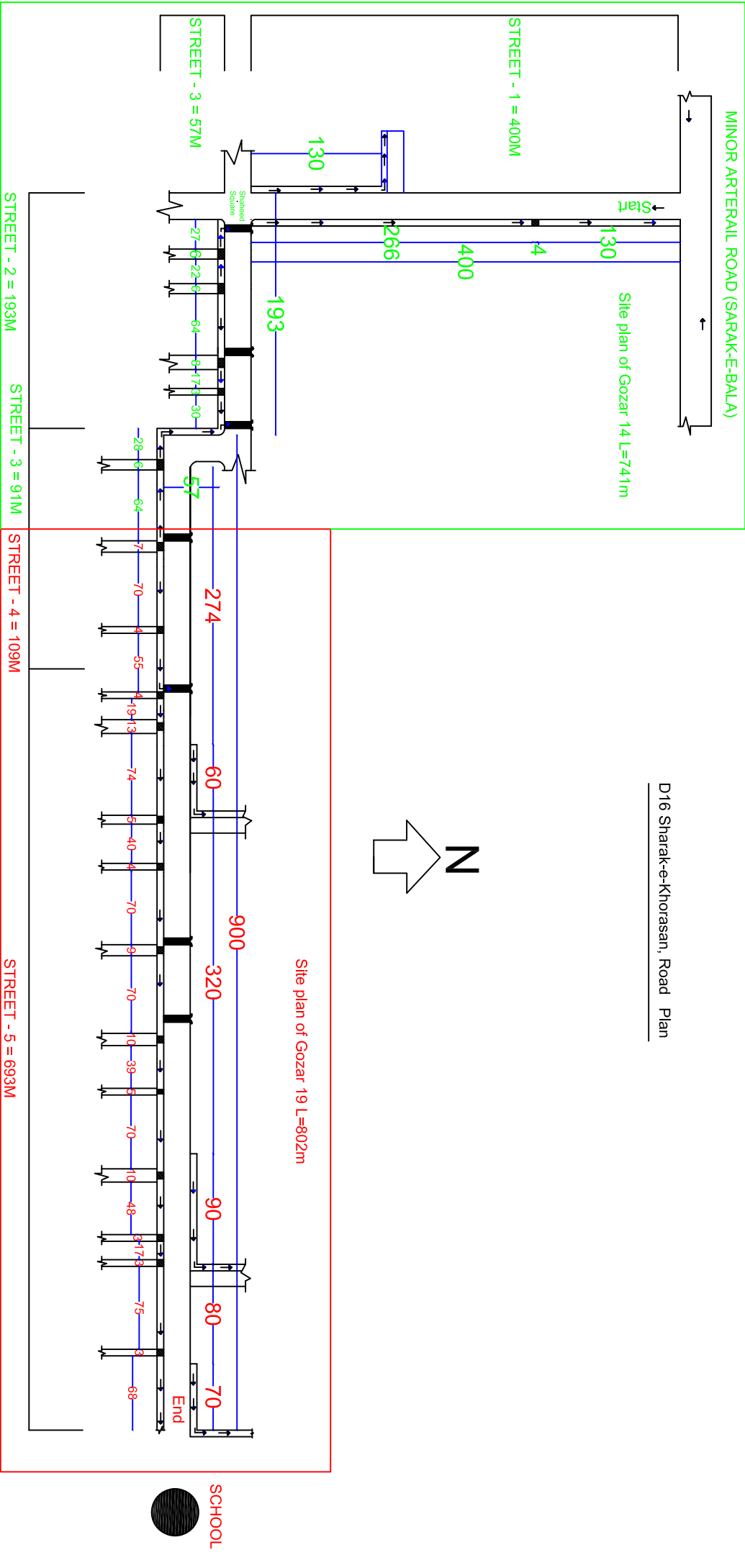
| No    | Item                                                                                                                                                                                                                              | GA-14    |           |            | GA-19    |           |            | Quantity | Unit | Grand Total<br>USD |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|------------|----------|-----------|------------|----------|------|--------------------|
|       |                                                                                                                                                                                                                                   | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost |          |      |                    |
| 1     | Mobilization and Demobilization                                                                                                                                                                                                   | 1.00     |           |            | 1.00     |           |            | 1.00     | LS   |                    |
| 2     | Leveling and 95% compaction of Sub-grade (Road) with all required activities هموار کاری با هموارات ایجابی آن 95%<br>تپک کاری طبقه سب گرید سرک با امورات ایجابی آن                                                                 | 4951.24  |           |            | 5472.88  |           |            | 10424.13 | m2   |                    |
| 3     | Excavation of earthwork (Road, Drainage) material, filling, removal of extra material with all required activities کندنگار زمین ودوباره پرکاری مطابق دیزاین و انتقال مواد اضافی از ساحه با امورات ایجابی آن                       | 1303.72  |           |            | 1468.74  |           |            | 2772.46  | m3   |                    |
| 4     | Sub-base course for street with leveling, 95% compacting and all other required activities تهیه مواد سب بیس سرک معه هموار کاری آن با 95% تپک کاری و دیگر امورات ایجابی آن                                                         | 426.27   |           |            | 461.47   |           |            | 887.73   | m3   |                    |
| 5     | Base course for street with leveling, 98% compacting and all other required activities بپس کورس سرک معه هموار کاری آن با 98% تپک کاری و دیگر امورات ایجابی آن                                                                     | 426.27   |           |            | 461.47   |           |            | 887.73   | m3   |                    |
| 6     | PCC M-200 for street surface (mix design of concrete included) and drainage with casting and all other required activities تهیه کانکریت مارک 200 برای سرک و جویچه و ریخت آن در ساحه با تهیه مکس دیزاین آن و دیگر امورات ایجابی آن | 712.21   |           |            | 780.96   |           |            | 1493.17  | m3   |                    |
| 7     | Crash gravel for base of drainages with leveling and all other requird activities تهیه جغل کرش برای جویچه و هموار کاری آن با دیگر امورات ایجابی                                                                                   | 34.44    |           |            | 41.16    |           |            | 75.60    | m3   |                    |
| 8     | Curing (10 days) of street and drainage with all other required activities حد اقل 10 روز آبدهی سرک و جویچه با دیگر امورات ایجابی آن                                                                                               | 5835.51  |           |            | 6586.61  |           |            | 12422.12 | M2   |                    |
| 9     | Pointing M-400 of stone masonry drainage and culvert هنگلف کاری سنگ کاری جویچه و پلچک از مصالحه مارک 400                                                                                                                          | 112.98   |           |            |          |           |            | 112.98   | m2   |                    |
| 10    | Shuttering (plywood) for streets and drainages with all required activities قالب بندی کناره های سرک و جویچه از تخته پلاهی وود با دیگر امورات ایجابی آن                                                                            | 1482.03  |           |            | 1625.99  |           |            | 3108.01  | m2   |                    |
| 11    | Stone masonry M-300 of drainage and culvert with all required activities سنگ کاری جویچه و پلچک با مارک 300 با دیگر موارد ایجابی آن                                                                                                | 46.46    |           |            |          |           |            | 46.46    | m3   |                    |
| 12    | RCC M-200 for culvert with casting and all other required activities کانکریت سیخ دار مارک 200 معه ریخت آن با امورات ایجابی آن                                                                                                     | 21.38    |           |            |          |           |            | 21.38    | m3   |                    |
| Total |                                                                                                                                                                                                                                   |          |           |            |          |           |            |          |      |                    |

Note: All Construction material must be approved by responsible Technical Person.

1. PCC must be according to mix design.
2. Water must be clean and drinkable.
3. Steel bar used for concrete joints must be smooth fubricated according to design and free from corrosion.
4. Expension Joints according to the joint layout.
5. Contraction joints according to the joint layout.
6. Construction joints according to the joint layout.
7. All Joints must be filled by bitumen mastic.
8. Only slump tests are included.

MINOR ARTERIAL ROAD (SARAK-E-BALA)

D16 Sharak-e-Khorasan, Road Plan



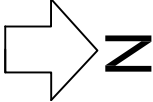
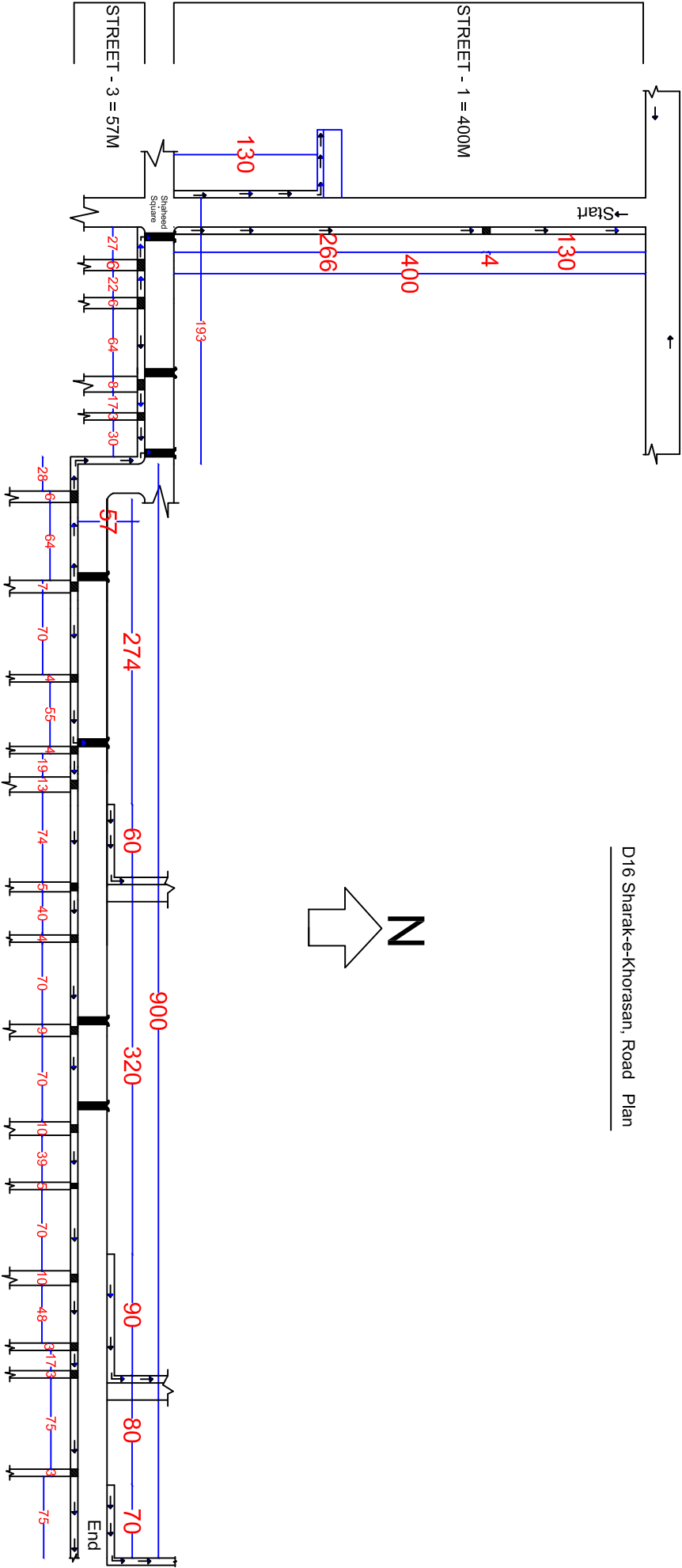
| CLIENT  |  | SHEET CONTENTS |  | PROVINCE    |  | KABUL       |  | DESIGNED BY:       |  | NAMES                  |  | POSITION |  | SIGNATURE |  | DATE |  | SHEET NO. |  | PROFILE   |  | REVISION    |  |
|---------|--|----------------|--|-------------|--|-------------|--|--------------------|--|------------------------|--|----------|--|-----------|--|------|--|-----------|--|-----------|--|-------------|--|
| PROJECT |  | DISTRICT 16    |  | GOZARS      |  | 14.15.17.19 |  | DRAWN BY:          |  | Eng Mahmood(kashnfar)  |  |          |  |           |  |      |  | PROFILE   |  | SHEET-1/1 |  | FIRST ISSUE |  |
| TIT-1   |  | G14,15,17,19   |  | DISTRICT    |  | SIXTEEN     |  | CHECKED BY:        |  | Eng Ab.Mateen(Majedat) |  |          |  |           |  |      |  | Scale:    |  |           |  |             |  |
| TIT-2   |  | ROADWAY PLAN   |  | UNH PROJECT |  | CFA         |  | APPROVED SR ENG    |  | Eng Karimulla (Omari)  |  |          |  |           |  |      |  | AS SHOWN  |  |           |  |             |  |
| TIT-3   |  |                |  | No.         |  |             |  | UNH REPRESENTATIVE |  |                        |  |          |  |           |  |      |  |           |  |           |  |             |  |



UN HABITAT  
FOR A BETTER URBAN FUTURE

MINOR ARTERIAL ROAD (SARAK-E-BALA)

D16 Sharak-e-Khorasan, Road Plan



| CLIENT  |  | SHEET CONTENTS |                 | NAMES              |                 | POSITION                 | SIGNATURE | DATE | SHEET NO. | REVISION  |             |
|---------|--|----------------|-----------------|--------------------|-----------------|--------------------------|-----------|------|-----------|-----------|-------------|
| PROJECT |  | DISTRICT 16    | PROVINCE        | KABUL              | DESIGNED BY:    |                          |           |      |           | PROFILE   | FIRST ISSUE |
| TIT-1   |  | G14,15,17,19   | GOZARS          | 14,15,17,19        | DRAWN BY:       | Eng Mahmood(Kashnigar)   |           |      |           | Sheet-1/1 |             |
| TIT-2   |  | ROADWAY PLAN   | DISTRICT        | SIXTEEN            | CHECKED BY:     | Eng Abd.Mateen(Majedadi) |           |      |           | Scale:    |             |
| TIT-3   |  |                | UNH PROJECT No. | CFA                | APPROVED SR ENG | Eng Karimulla (Omari)    |           |      |           | AS SHOWN  |             |
|         |  |                |                 | UNH REPRESENTATIVE |                 |                          |           |      |           |           |             |



**UN HABITAT**  
FOR A BETTER URBAN FUTURE

Spreadsheet Developed by.. Engineer Mahmood (Karim yar) Unite, UNHABITAT, Afghanistan.

1.630

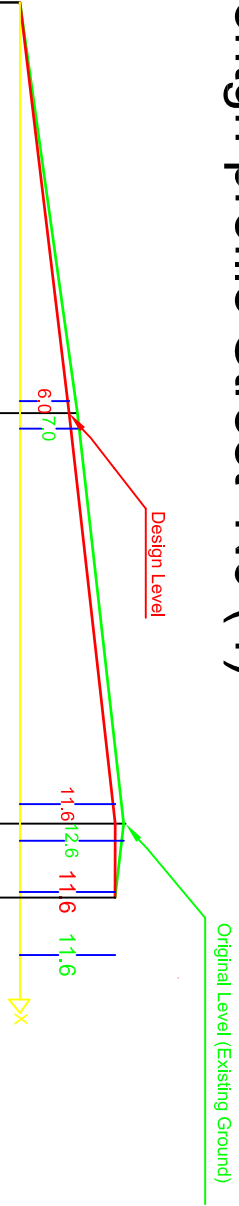
000.0

1.630

-1.630

| Input Point | Back Sight, BS (m) | Intermediate Sight, IS (m) | Fore Sight, FS (m) | S Distance (m) | Collimation Height, CH (m) | Reduced Levels, RL (m) |           |            |           | $\Sigma$ H Distance e (m) | Remarks |
|-------------|--------------------|----------------------------|--------------------|----------------|----------------------------|------------------------|-----------|------------|-----------|---------------------------|---------|
|             |                    |                            |                    |                |                            | Calculated             | Corr. Fac | Correction | Corrected |                           |         |
| 1           | 1.630              |                            |                    | 0.00           | 1.63                       | 0.00                   | 0         |            | 0.000     | 0.001                     |         |
| 2           | 2.140              |                            | 1.080              | 70.00          | 2.69                       | 0.55                   | 1         |            | 0.550     | 0.001                     |         |
| 3           | 2.000              |                            | 1.000              | 70.00          | 3.69                       | 1.69                   | 2         |            | 1.690     | 0.001                     |         |
| 4           | 1.100              |                            | 1.100              | 70.00          | 3.69                       | 2.59                   | 3         |            | 2.590     | 0.001                     |         |
| 5           | 1.300              |                            | 1.200              | 70.00          | 3.79                       | 2.49                   | 4         |            | 2.490     | 0.001                     |         |
| 6           | 1.450              |                            | 1.260              | 70.00          | 3.98                       | 2.53                   | 5         |            | 2.530     | 0.001                     |         |
| 7           | 1.490              |                            | 0.800              | 70.00          | 4.67                       | 3.18                   | 6         |            | 3.180     | 0.001                     |         |
| 8           | 0.900              |                            | 2.770              | 70.00          | 2.8                        | 1.9                    | 7         |            | 1.900     | 0.001                     |         |
| 9           | 0.425              |                            | 1.140              | 70.00          | 2.085                      | 1.66                   | 8         |            | 1.660     | 0.001                     |         |
| 9           | 0.425              |                            | 1.140              | 70.00          | 1.37                       | 0.945                  | 9         |            |           |                           |         |
| 10          | 0.640              |                            | 1.350              | 63.00          | 1.375                      | 0.735                  | 10        |            | 0.735     | 0.001                     |         |
| 0           |                    |                            | 0.000              | 0.00           | 0                          | 0                      | 0         |            | 0.000     | 0.000                     |         |
|             |                    |                            |                    | 693.00         |                            |                        |           |            |           |                           |         |

# Lentgh profile Street N0 (4)

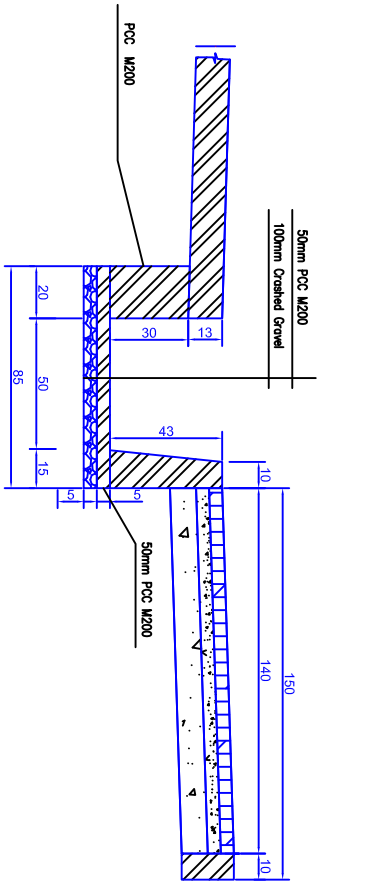


|                                |      |      |      |
|--------------------------------|------|------|------|
| Distance(M)                    | 50   | 50   | 9    |
| Original Level (M)             | 0.00 | 0.70 | 1.27 |
| Design Level (M)               | 0.00 | 0.60 | 1.16 |
| Cutting/Filling (+/-)          | 0.00 | 0.10 | 0.00 |
| Cutting/Filling + 0.35mCutting | 0.35 | 0.45 | 0.45 |

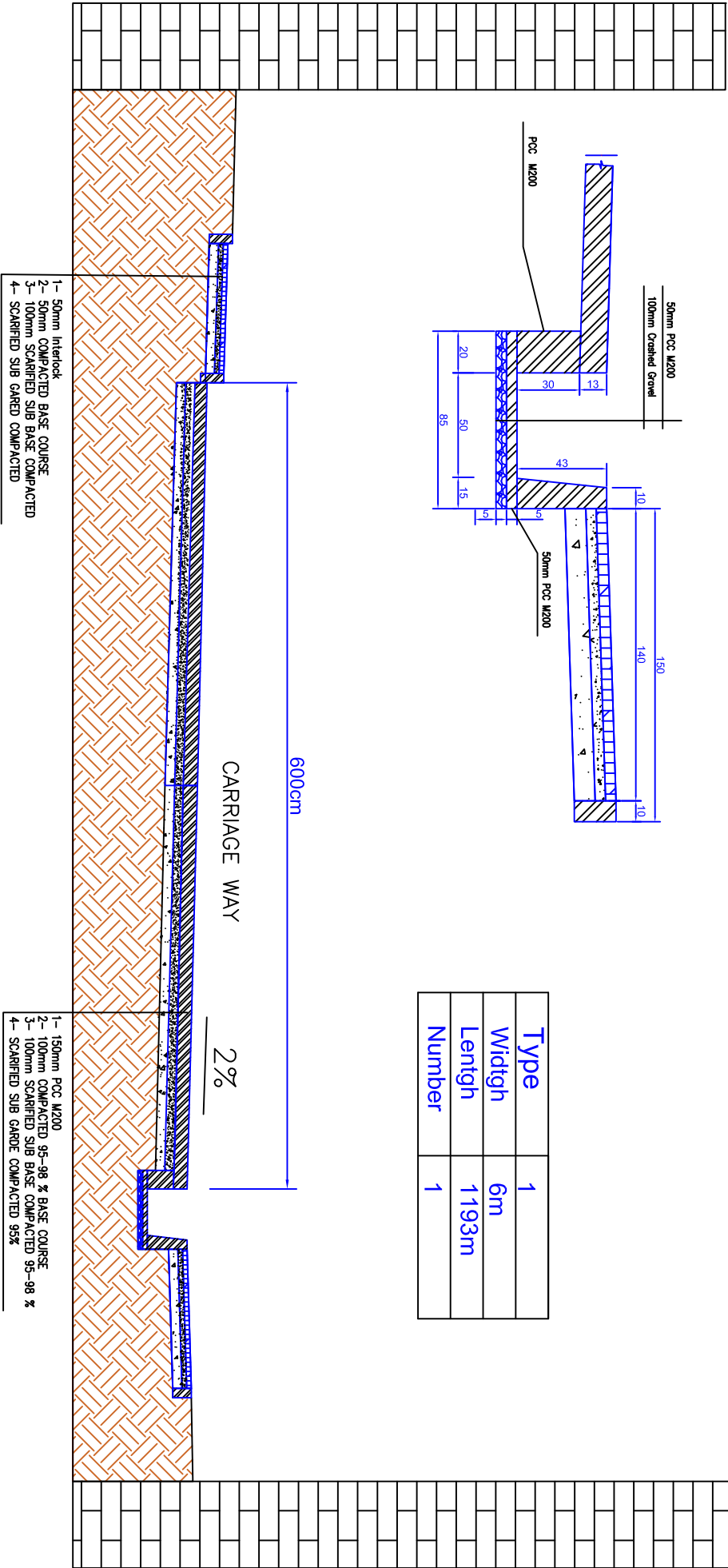


| LEVEL COMPUTATION                                                                     |                      |                            |                          |                |                            |                        |        |                  |         |
|---------------------------------------------------------------------------------------|----------------------|----------------------------|--------------------------|----------------|----------------------------|------------------------|--------|------------------|---------|
| Spreadsheet Developed by: Engineer Mahmood (Karim yar) Unile, UNHABITAT, Afghanistan. |                      |                            |                          |                |                            |                        |        |                  |         |
| UNHABITAT FOR A BETTER URBAN FUTURE                                                   |                      |                            |                          |                |                            |                        |        |                  |         |
| Project                                                                               | C F A Center of road | house corner               |                          |                |                            |                        |        |                  |         |
| Province                                                                              | Kabul                | Observed by                | Eng.Mahmood (Karimyar)   | Computed       | Eng AB Mateen              | S Backsights (m)       | 1.750  |                  |         |
| District                                                                              | 16-G-19              | Location                   | Sharak Khorasan Phase #1 | Circuit:       | G19-CDC19-Street-4         | S Foresights (m)       | 0.000  |                  |         |
| Circuit Type                                                                          | Open                 | 1st RL                     | Last RL                  | Date:          |                            | S Backsights Foresight | 1.750  |                  |         |
| Call last RL                                                                          |                      | Error:                     | 0.00                     | Nr of Corr     | 0                          | First RL - last RL (m) | -1.750 |                  |         |
|                                                                                       |                      |                            |                          |                |                            |                        |        |                  |         |
| Input Point                                                                           | Back Sight, BS (m)   | Intermediate Sight, IS (m) | Fore Sight, FS (m)       | S Distance (m) | Collimation Height, CH (m) | Reduced Levels, RL (m) |        | Σ H Distance (m) | Remarks |
| 1                                                                                     | 1.750                |                            |                          | 0.00           | 1.75                       | Calculated             | 0.00   | 0                | 0.001   |
| 2                                                                                     | 1.800                |                            | 0.290                    | 50.00          | 3.26                       | Corr. Fac              | 1.46   | 1                | 1.460   |
| 3                                                                                     | 1.850                |                            | 0.900                    | 50.00          | 4.21                       | Correction             | 2.36   | 2                | 2.360   |
| 4                                                                                     | 1.920                |                            | 1.800                    | 9.00           | 4.33                       |                        | 2.41   | 3                | 2.410   |
| 0                                                                                     |                      |                            | 0.000                    | 0.00           | 0                          |                        | 0      | 0                | 0.000   |
|                                                                                       |                      |                            |                          | 109.00         |                            |                        |        |                  |         |

Khorasan Road



|        |       |
|--------|-------|
| Type   | 1     |
| Width  | 6m    |
| Length | 1193m |
| Number | 1     |



STREETS HAVING 7m to 16m METERS WIDTH FROM FACE OF WALL TO WALL      Guzars CROSS SECTION WITH    PCC M200

| CLIENT  |  | SHEET CONTENTS |  | PROVINCE    |  | KABUL       |  | DESIGNED BY:       |  | NAMES                    |  | POSITION |  |
|---------|--|----------------|--|-------------|--|-------------|--|--------------------|--|--------------------------|--|----------|--|
| PROJECT |  | DISTRICT 16    |  | GOZARS      |  | 14.15.17.19 |  | DRAWN BY:          |  | Eng Mahmood(Karimyar)    |  |          |  |
| TIT-1   |  | G14,15,17,19   |  | CDISTRICT   |  | SIXTEEN     |  | CHECKED BY:        |  | Eng Ab.Maleen(Mujaddadi) |  |          |  |
| TIT-2   |  | ROADWAY PLAN   |  | UNH PROJECT |  | CFA         |  | APPROVED SR ENG    |  | Eng Karimulla (Aasee)    |  |          |  |
| TIT-3   |  |                |  | No.         |  |             |  | UNH REPRESENTATIVE |  |                          |  |          |  |