

The Afghanistan Engineering Support Program assembled this deliverable. It is an approved, official USAID document. Budget information contained herein is for illustrative purposes. All policy, personal, financial, and procurement sensitive information has been removed. Additional information on the report can be obtained from Firouz Rooyani, Tetra Tech Sr. VP International Operations, (703) 387-2151.

<b>Site Visit Report</b>	Project: <b>Faizabad Park Construction</b>
Location: <b>Faizabad, Badakhshan Province</b>	Coordinates: Latitude: <b>N 37°6'49.890"</b> Longitude: <b>E 70°34'42.660"</b>
Inspection Date: <b>November 16, 2013</b>	Weather: <b>Sunny, Temp @ 5°C, No Precipitation</b>
Inspectors: [REDACTED]	Status: <b>Incomplete</b>

**PRESENTED TO**

**United States Agency for International Development (USAID)  
Office of Economic Growth and Infrastructure (OEGI)**

**Ramp-UP North**

Great Massoud Road  
Kabul, Afghanistan



Date: **02/26/14**

Title: **Deputy Chief of Party**

**PRESENTED BY**

**Tetra Tech, Inc.  
Afghanistan Engineering Support Program  
Contract No. EDH-I-00-08-00027-00  
Task Order No. 1**

**Work Order WO-LT-0009 AMD #5**

Shash Darak  
Kabul, Afghanistan

**EXECUTIVE SUMMARY**

The Faizabad Park Construction Project is located in Faizabad City, Badakhshan Province. It includes the construction of a boundary wall, sidewalks, gazebo, covered seating area, lighting and children playground equipment. The project is funded by USAID/RAMP UP-NORTH and partially funded by Faizabad Municipality.

On November 16, 2013, a civil engineer from Tetra Tech's (Tt) Afghanistan Engineering Support Program (AESP) traveled to Badakhshan province to evaluate the visible completed works of the Faizabad Park Construction Project. It determined that the construction of boundary wall, sidewalks, gazebo, covered seating area, provision and installation of light poles with all accessories, playground equipment and irrigation of the park are funded by USAID/RAMP-UP. Backfilling and compaction of the park are funded by Faizabad Municipality. USAID's portion of the construction work for Faizabad Park is incomplete and the contractor's remaining work consists of construction of mosaic tile sidewalks, irrigation system drainage, roof truss for both men and women's seating areas, four (4) canopies (gazebos) and painting of the interior side of parapet walls for both men and women's seating areas, stone masonry walls of green area, painting of the fence over stone masonry boundary wall, main entrance gate, filling of the expansion joints of boundary wall, backfilling of the green area, and installation of the panel board to feed the lighting system of the park. It has also determined Faizabad Municipality's portion of the construction work for the Faizabad Park is incomplete and the remaining work consists of backfilling and leveling of the park.

**DISCLAIMER**

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

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## **APPENDICES**

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**APPENDIX A – FAIZABAD MUNICIPALITY PARK CONSTRUCTION PLANS**

**APPENDIX B – FAIZABAD MUNICIPALITY PARK CONSTRUCTION SOW**

**This report was prepared for the United States Agency for International Development, Contract No. EDH-I-00-08-00027-00, Task Order 01, Afghanistan Engineering Support Program.**

## 1.0 INTRODUCTION

Faizabad is the capital of Badakhshan Province located in northeastern Afghanistan, near the Tajikistan border. The Faizabad Municipality Park is located in District #1 of Faizabad old city. The direct beneficiaries of the project are the 30,900 citizens of Faizabad city. The indirect beneficiaries are all those citizens who would use the park. The project is funded by USAID/RAMP-UP NORTH and partially funded by Faizabad Municipality.

Construction of boundary wall, sidewalks, gazebo, covered seating area, provision and installation of light poles with all accessories, playground equipment and irrigation of the park are funded by USAID/RAMP-UP whereas backfilling and compaction of the park are funded by Faizabad Municipality.

## 2.0 SITE VISIT

Two (2) engineers from Tt AESP reviewed the provided project documentation for the Faizabad Municipality Park construction and traveled to Badakhshan province on November 16, 2013 to evaluate the visible completed works. The provided project documentation included plans (Appendix A) and SOW (Appendix B). Tt engineers were accompanied by DAI site engineer during the site evaluation. Findings of this site observation are documented in this report, including photos provided in the Figures section on pages 5 to 22.

## 3.0 SITE VISIT DETAILS: USAID RESPONSIBILITY

Regarding the USAID funded portion of works, the following was observed:

1. Construction of mosaic tile sidewalk is incomplete. (Figures 1, 2, 10, 11, 12, 13, 14, 15, 16 and 17) However, construction of Plain Cement Concrete (PCC) sidewalk is complete per the drawings. (Figures 14 and 16)
  - a. **Remaining work:** The contractor is required to place the mosaic tiles on the remaining sections of the sidewalks. (Figures 14 and 16)
  - b. **Remaining work:** The contractor is required to construct the irrigation system drainage per the drawings. (Figure 18)
2. Placement of pipe culverts is complete per the drawings. (Figures: 19 and 20)
3. Construction of seating areas for both men and women is in progress. (Figures: 25, 26, 27, 28 and 29) However, construction of columns, Reinforcement Cement Concrete (RCC) ring, RCC for floor and parapet walls for the male and female seating areas are complete per the drawings.
  - a. **Remaining work:** The contractor is required to paint the interior side of parapet walls of seating areas.
  - b. **Remaining work:** The contractor is required to construct stairs and sidewalks in front of the female seating area.
4. Construction of roof truss for men and women's seating areas is yet to be started. (Figures 26 and 27)
  - a. **Remaining work:** The contractor is required to construct the roof truss of the seating areas
5. Construction of stone masonry for green area, which is located at western side of the park, is incomplete. (Figures 21, 22, 23 and 24)
  - a. **Remaining work:** The contractor is required to paint the stone masonry walls.
  - b. **Remaining work:** The contractor is required to do the backfilling of the green area. (Figures 22 and 24)
6. Construction of four (4) canopies (gazebos) is incomplete. (Figure 30)
  - a. **Remaining work:** The contractor is required to construct four (4) canopies (gazebos) per the plan and details.
7. Installation of light poles with all accessories and underground cables for all pedestal lights is incomplete. (Figures 31, 32 and 33) also, the installation of electrical panel board is not started yet.
  - a. **Remaining work:** The contractor is required to install the electrical panel board.
  - b. **Remaining work:** The contractor is required to install the light fixtures on light poles.

8. Construction of the entire stone masonry boundary wall and fence installation is incomplete. (Figures 4, 5, 6, 7, 8 and 9)
  - a. **Remaining work:** The contractor is required to paint the fence over the stone masonry boundary walls and fill the expansion joints (placed at each 12 meter length of the stone masonry boundary wall).
9. Installation of main entrance gate is incomplete. (Figure 3)
  - a. **Remaining work:** The contractor is required to paint the main entrance gate.

Based on the above summary, Tt has determined USAID's portion of the construction work for the Faizabad Park is incomplete and the contractor's remaining work consists of construction of mosaic tile sidewalks, irrigation system drainages, roof truss for both men and women's seating areas, four (4) canopies (gazebos) and paint the interior side of parapet walls of both men and women's seating areas, stone masonry walls of green area, paint the fence over stone masonry boundary wall, installation of main entrance gate and fill the expansion joints of boundary wall, backfilling of the green area and installation of the panel board to feed the lighting system of the park.

#### 4.0 SITE VISIT DETAILS: FAIZABAD MUNICIPALITY RESPONSIBILITY

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Regarding the Faizabad Municipality's funded portion of works, the following was observed:

1. Backfilling and leveling work of the park is incomplete. This caused subcontractor's work progress to slow down.
  - a. **Remaining work:** The Faizabad Municipality is required to do the backfilling and leveling of the park and dispose the extra materials from the park area. (See figures 1 and 2).

Based on the above summary, Tt has determined Faizabad Municipality's portion of the construction work for the Faizabad Park is incomplete and the Municipality's remaining work consists of backfilling and leveling of the park.

**FIGURES**



**Figure 1.** Placement of mosaic tile is in progress



**Figure 2.** Top view of the Faizabad Municipality Park

**FIGURES (CONTINUED)**



**Figure 3.** Installed northern main entrance gate



**Figure 4.** Northern stone masonry boundary wall

**FIGURES (CONTINUED)**



**Figure 5.** Eastern stone masonry boundary wall

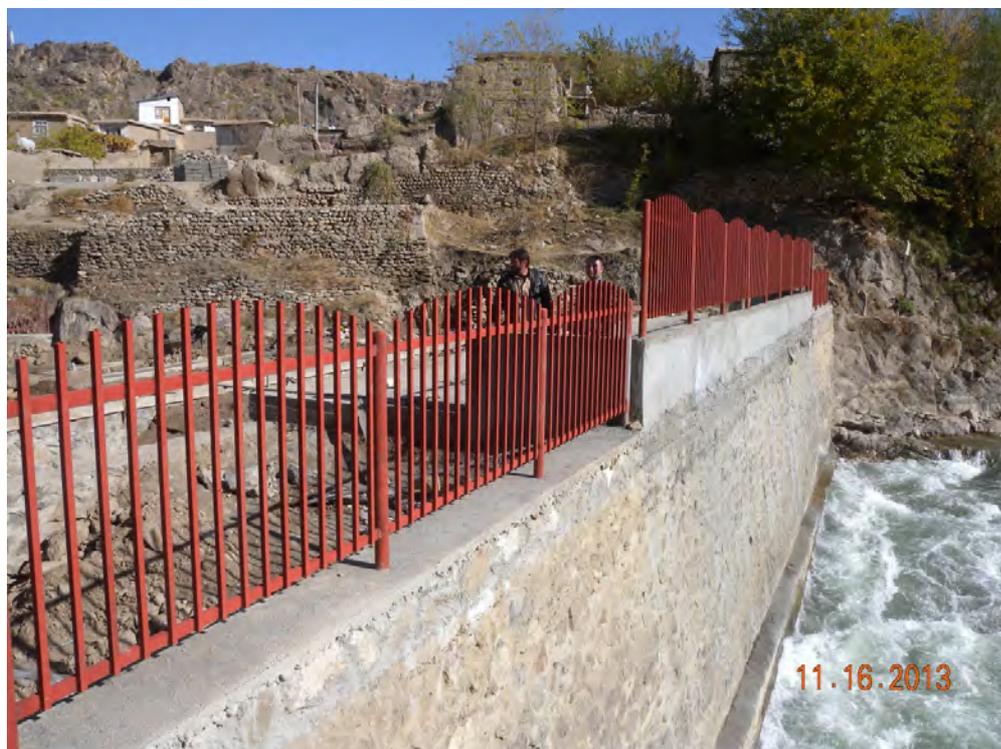


**Figure 6.** Measurement of eastern boundary wall's fence panels

**FIGURES (CONTINUED)**



**Figure 7.** Southern stone masonry boundary wall



**Figure 8.** Western stone masonry boundary wall

**FIGURES (CONTINUED)**



**Figure 9.** Construction joint of stone masonry boundary wall



**Figure 10.** Northern mosaic paved sidewalk

**FIGURES (CONTINUED)**



**Figure 11.** Northern mosaic paved sidewalk



**Figure 12.** Placement of mosaic tiles in progress

**FIGURES (CONTINUED)**



**Figure 13.** Stockpiled mosaic tiles



**Figure 14.** Mosaic tile sidewalk, PCC work is in progress.

**FIGURES (CONTINUED)**



**Figure 15.** Sidewalk construction work in progress



**Figure 16.** Sidewalk construction joint

**FIGURES (CONTINUED)**



**Figure 17.** Thickness of the PCC sidewalk



**Figure 18.** Inlet hole in the stone masonry boundary wall for irrigation of the park

**FIGURES (CONTINUED)**



**Figure 19.** Pipe culverts placed in the sidewalk for irrigation of the park



**Figure 20.** Pipe culvert's diameter in the sidewalk for irrigation of the park

**FIGURES (CONTINUED)**



**Figure 21.** Top view of the stone masonry work, in front of female seating area



**Figure 22.** Stone masonry work for the greening area, in front of female seating area

**FIGURES (CONTINUED)**



**Figure 23.** View of the PCC on top of the stone masonry wall



**Figure 24.** Pointing of stone masonry wall of green area

**FIGURES (CONTINUED)**



**Figure 25.**View of the compacted area where the stair and sidewalk will be constructed for the female seating area



**Figure 26.** View of the female seating area and the remaining truss work

**FIGURES (CONTINUED)**



**Figure 27.** View of the male seating area and the remaining truss work



**Figure 28.** View of the baseplate placed at the RCC ring, male seating area

**FIGURES (CONTINUED)**



**Figure 29.** PCC paved stairs on the male seating area



**Figure 30.** View of the canopy with the steel profiles completed

**FIGURES (CONTINUED)**



**Figure 31.** Light pole measurement



**Figure 32.** Light pole foundation measurement

**FIGURES (CONTINUED)**



**Figure 33.** View of the pedestal light Upper side

## APPENDIX A – FAIZABAD MUNICIPALITY PARK CONSTRUCTION DRAWINGS

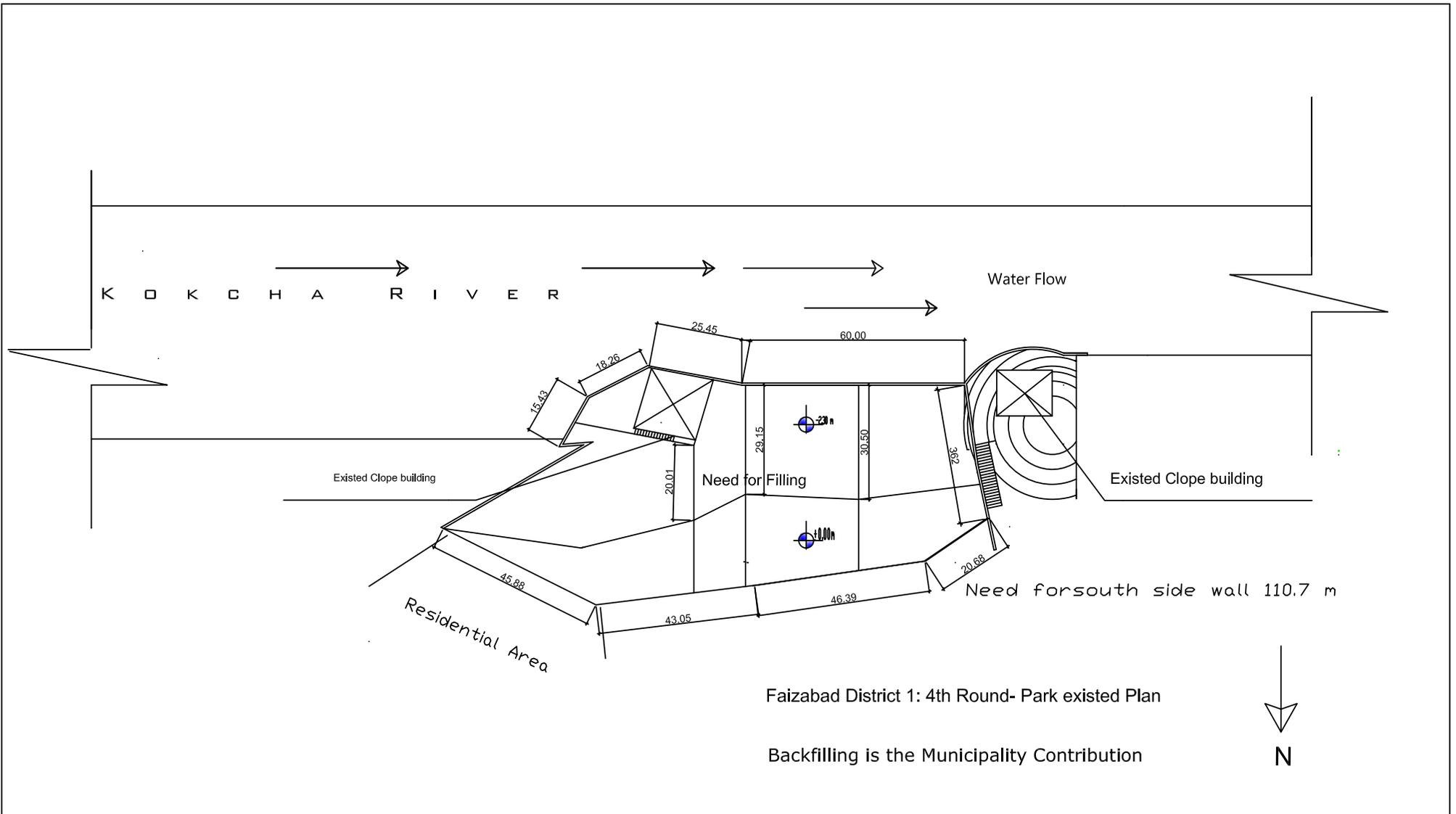
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**-RAMP-UP-NORTH-**

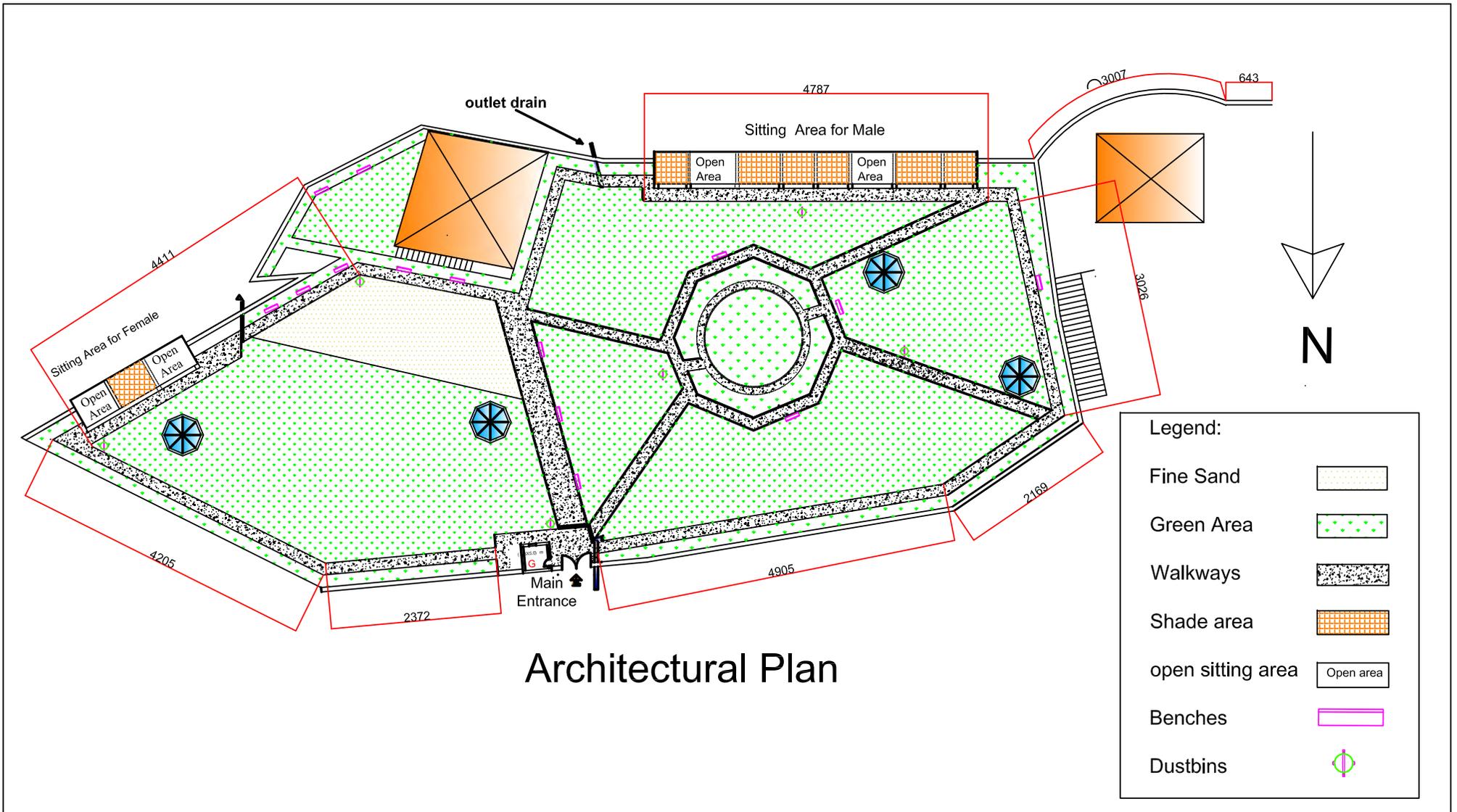
**FYZABAD-MUNICIPALITY**

**Architectural & structural design of District 1 Park  
Fyzabad Afghanistan**

**DATE: 02/20/2013**

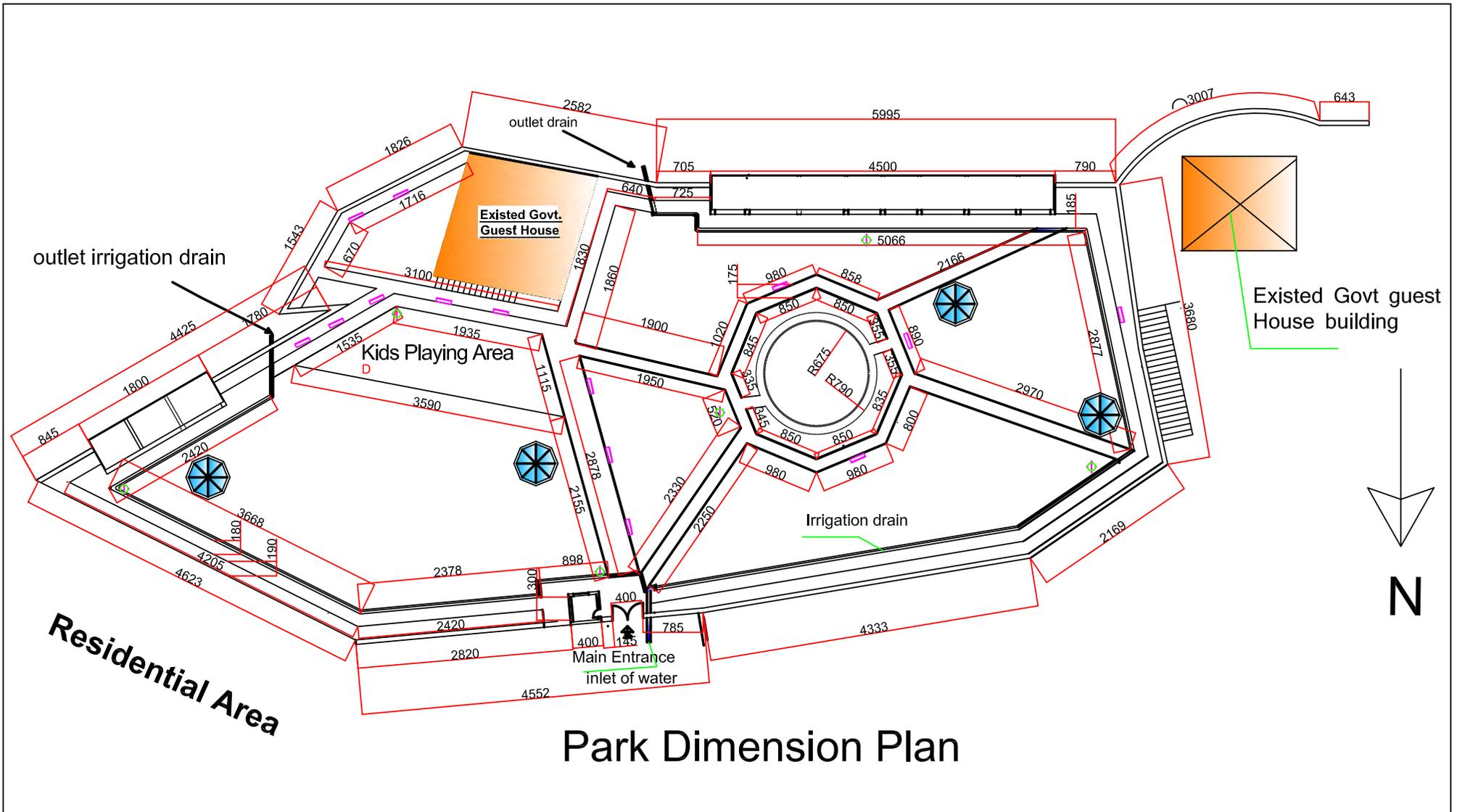


Drawing Title: Existed Park plan		Name	Position/Organization	Project Name: Nahia 1st Park Construction
	Surveyed by:	[REDACTED]	Engineering Advisor RAMP UP N	
	Estimated by:		Engineering Advisor RAMP UP N	
Conceptual Approved by:	Head of SDAG			
Drawing Number: 01/23	Conceptual Approved by:		Mayor of Faizabad	
	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Projects Manager RAMP-UP N	
				Feb 2013



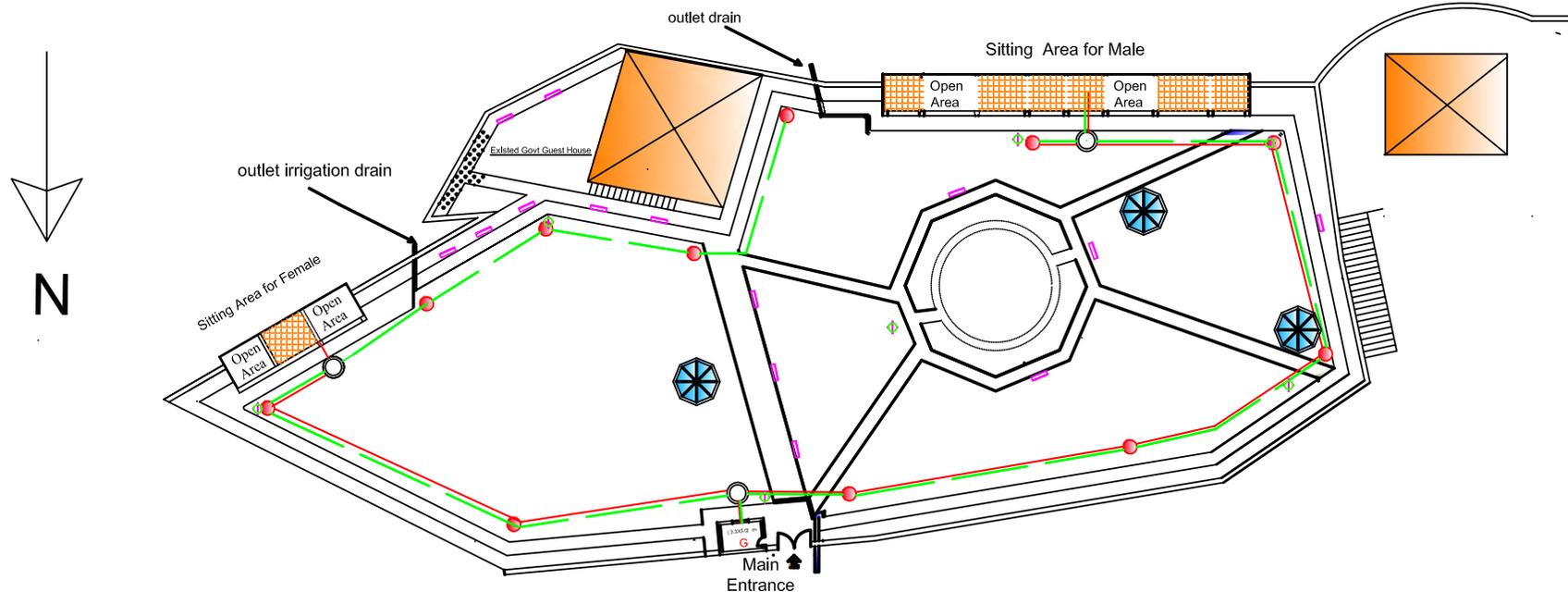
## Architectural Plan

Drawing Title: Architectural Plan		Name	Position/Organization	Project Name: Nahia 1st Park Construction  Feb 2013
	Surveyed by:		Engineering Advisor RAMP UP N	
	Estimated by:		Engineering Advisor RAMP UP N	
Conceptual Approved by:	Head of SDAG			
Drawing Number: 02/23	Conceptual Approved by:		Mayor of Faizabad	
	Technical Checked by:	Engineering Director RAMP-UP N		
	Approved by:	Projects Manager RAMP-UP N		



## Park Dimension Plan

Drawing Title: Dimension Plan	Name	Position/Organization	Project Name: Nahia 1st Park Construction
	Surveyed by:	Engineering Advisor RAMP UP N	
	Estimated by:	Engineering Advisor RAMP UP N	
Conceptual Approved by:	Head of SDAG		
Drawing Number: 03/23	Conceptual Approved by:	Mayor of Faizabad	
	Technical Checked by:	Engineering Director RAMP-UP N	
	Approved by:	Projects Manager RAMP-UP N	
		Feb 2013	



Legend:

A:-Electric pole



B:- Electric handhole

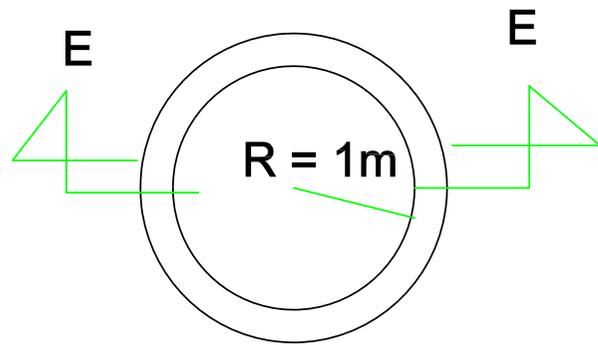


Park Electric connection Plan

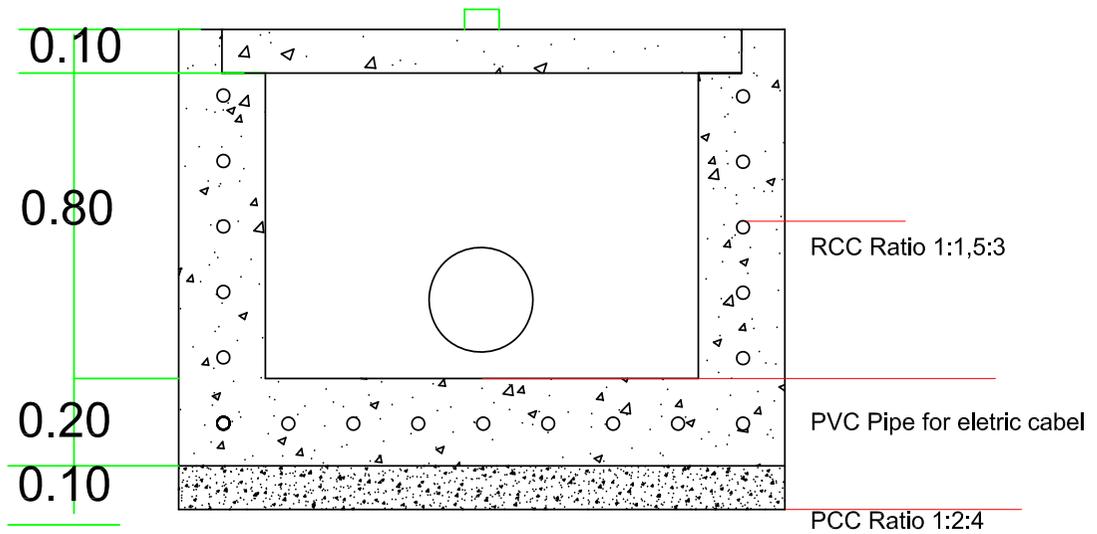
Blue line is electricity line from guardroom to all electrical poles and sitting area which is around 365 meter electric line WCabel (Made of Turkey WGerman have 4 bar Diameter of each bar =6mm).

Red line 195 m from guardroom to male and female sitting areas =192 m and 60 m will be used inside the sittings areas. All fuse boxes circuit breaker are in Guard Room from where all the electric power system will be controlled control.

Drawing Title:Electrical Plan	Name	Position/Organization	Project Name:Nahia 1st Park Construction
Surveyed by:	[REDACTED]	Engineering Advisor RAMP UP N	
Estimated by:		Engineering Advisor RAMP UP N	
Conceptual Approved by:		Head of SDAG	
Conceptual Approved by:		Mayor of Faizabad	
Drawing Number: 04/23	Technical Checked by:	Engineering Director RAMP-UP N	Feb 2013
	Approved by:	Projects Manager RAMP-UP N	



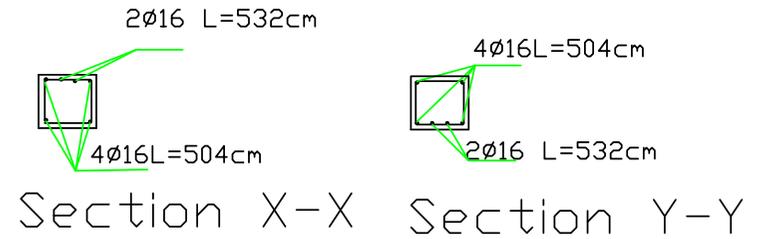
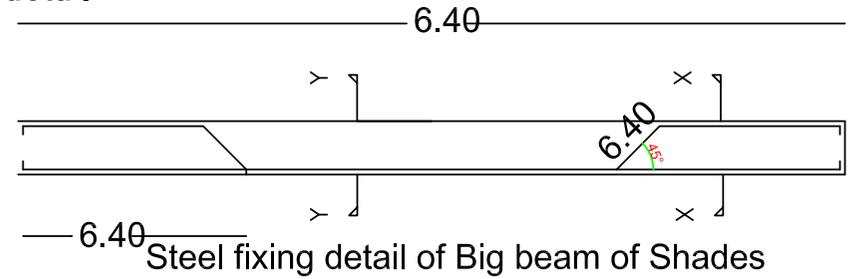
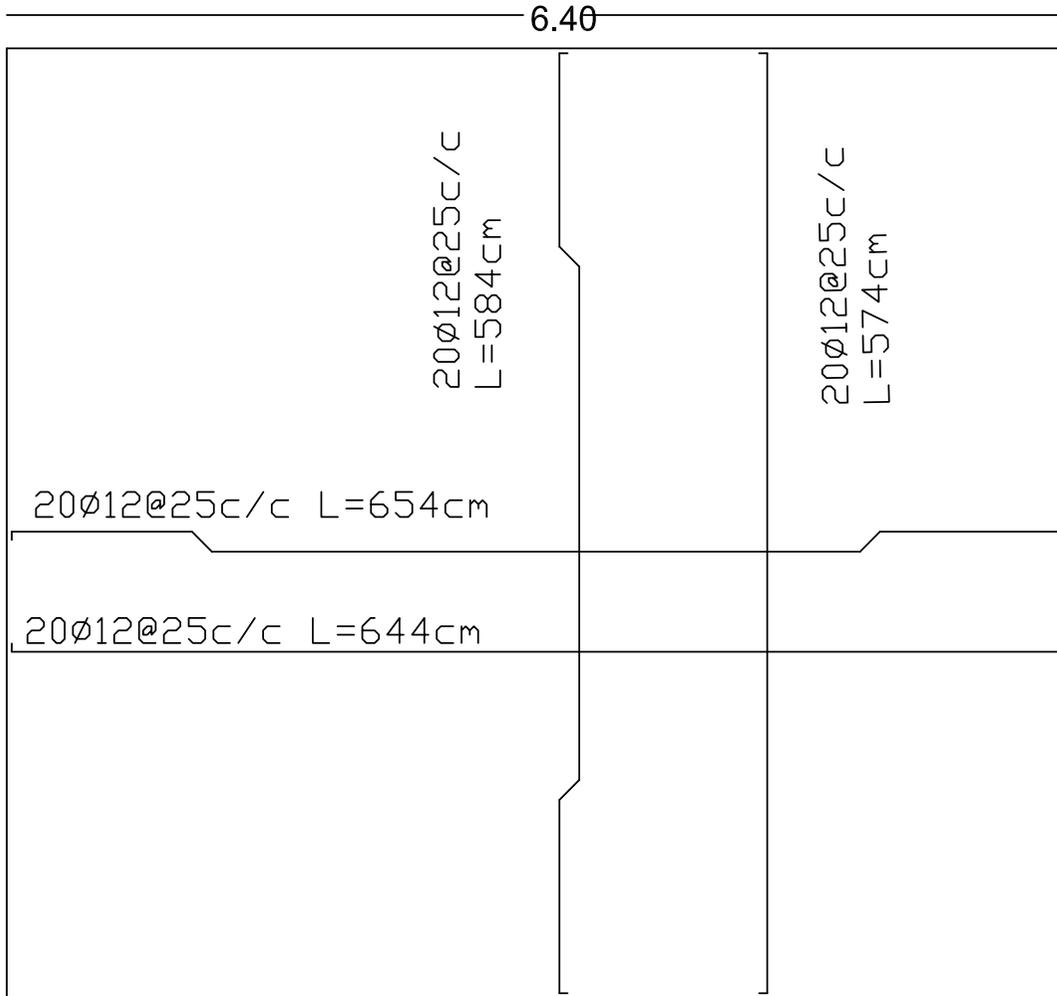
Electric Handhole Plan



Section E-E

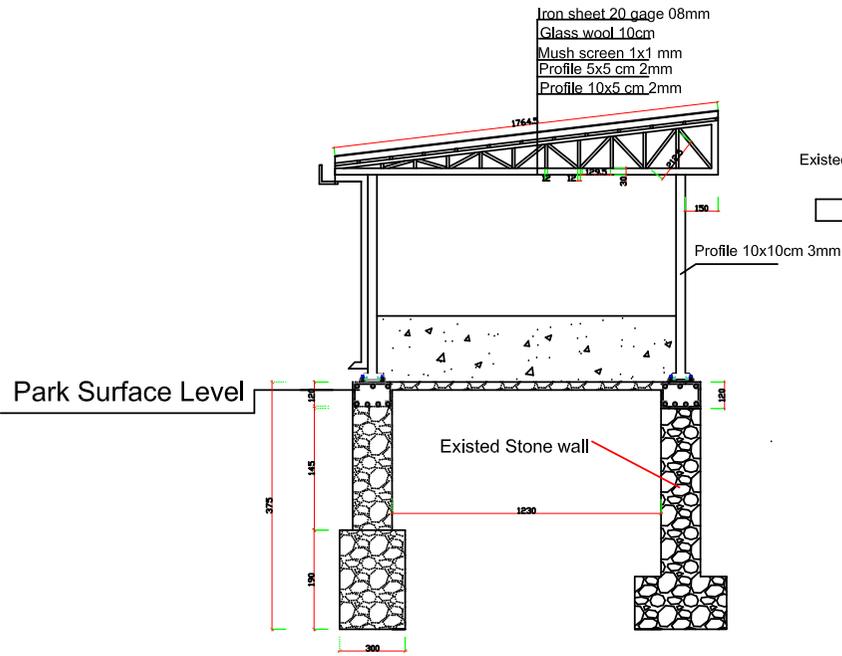
Drawing Title: Electric Plan & Section E-E		Name	Position/Organization	Project Name: Nahia 1st Park Construction
Drawing Number: 05/23	Surveyed by:	[REDACTED]	Engineering Advisor RAMP UP N	
	Estimated by:		Engineering Advisor RAMP UP N	
	Conceptual Approved by:		Head of SDAG	
	Conceptual Approved by:		Mayor of Faizabad	
	Technical Checked by:		Engineering Director RAMP-UP N	Feb 2013
	Approved by:		Projects Manager RAMP-UP N	

### Shadow Areas floor Rings and slab detail

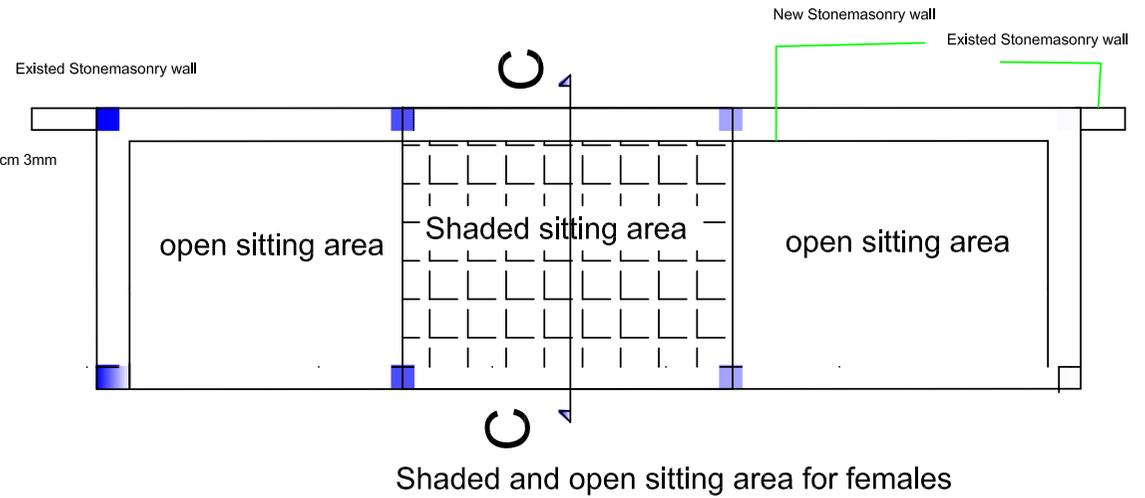


### Steel Fixing Detail of all Shades

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Estimated by:	[REDACTED]	Engineering Advisor RAMP UP N	
Conceptual Approved by:	[REDACTED]	Head of SDAG	
Conceptual Approved by:	[REDACTED]	Mayor of Faizabad	
Technical Checked by:	[REDACTED]	Engineering Director RAMP-UP N	
Drawing Number: 06/23	Approved by:	Projects Manager RAMP-UP N	Feb 2013

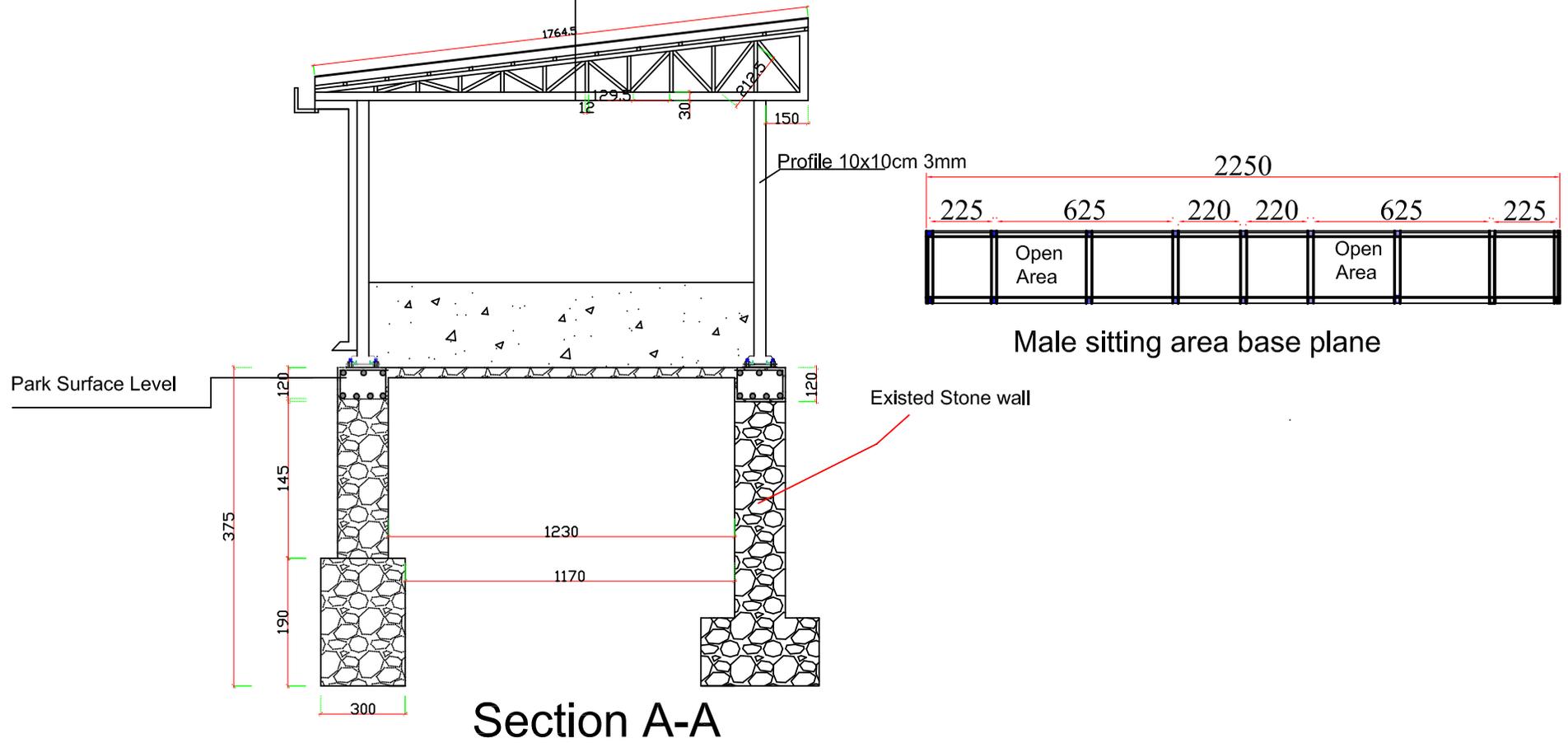


Section C-C

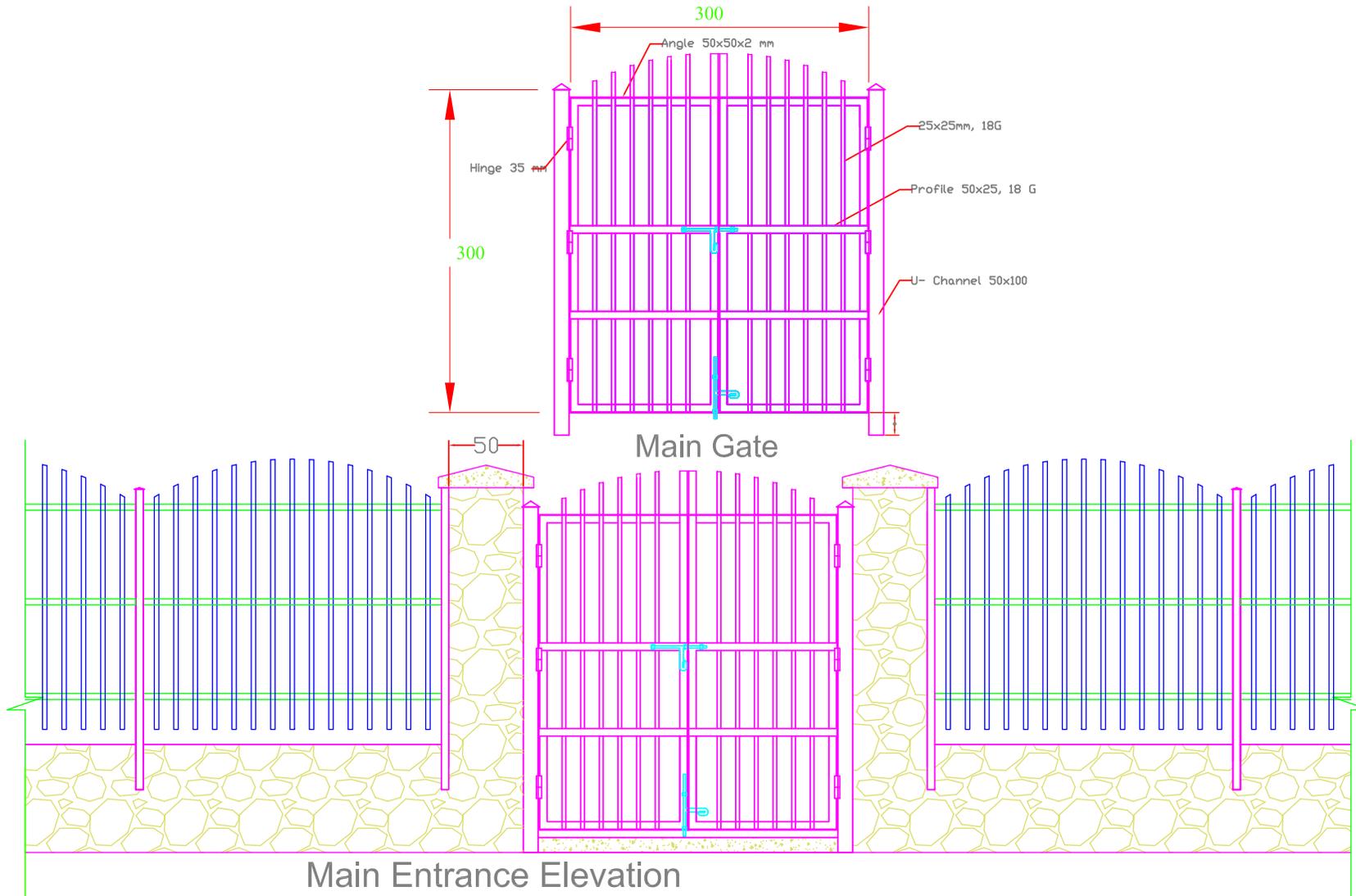


Drawing Title: Shades Section C-C		Name	Position/Organization	Project Name: Nahia 1st Park Construction
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	Estimated by:		Engineering Advisor RAMP UP N	
Conceptual Approved by:	Head of SDAG			
Drawing Number: 07/23	Conceptual Approved by:		Mayor of Faizabad	
	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Projects Manager RAMP-UP N	Feb 2013

Iron sheet 20 gage 08mm  
 Glass wool 10cm  
 Mush screen 1x1 mm  
 Profile 5x5 cm 2mm  
 Profile 10x5 cm 2mm

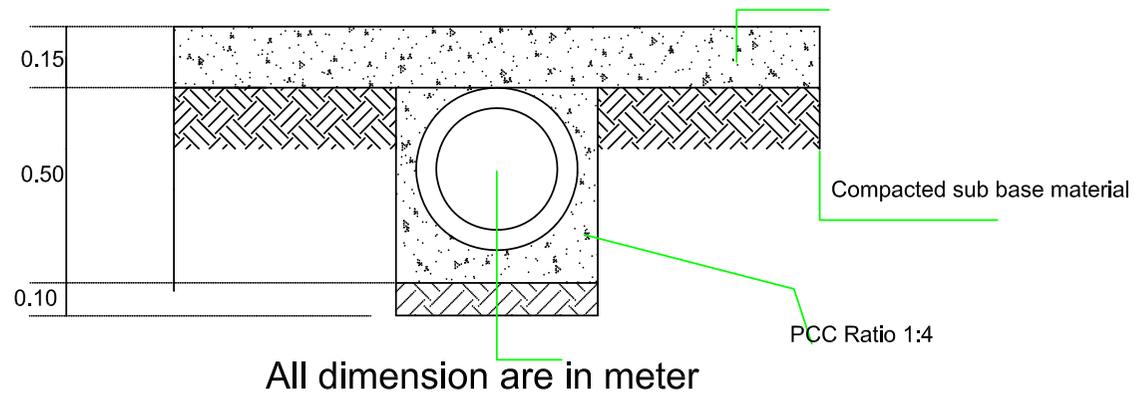
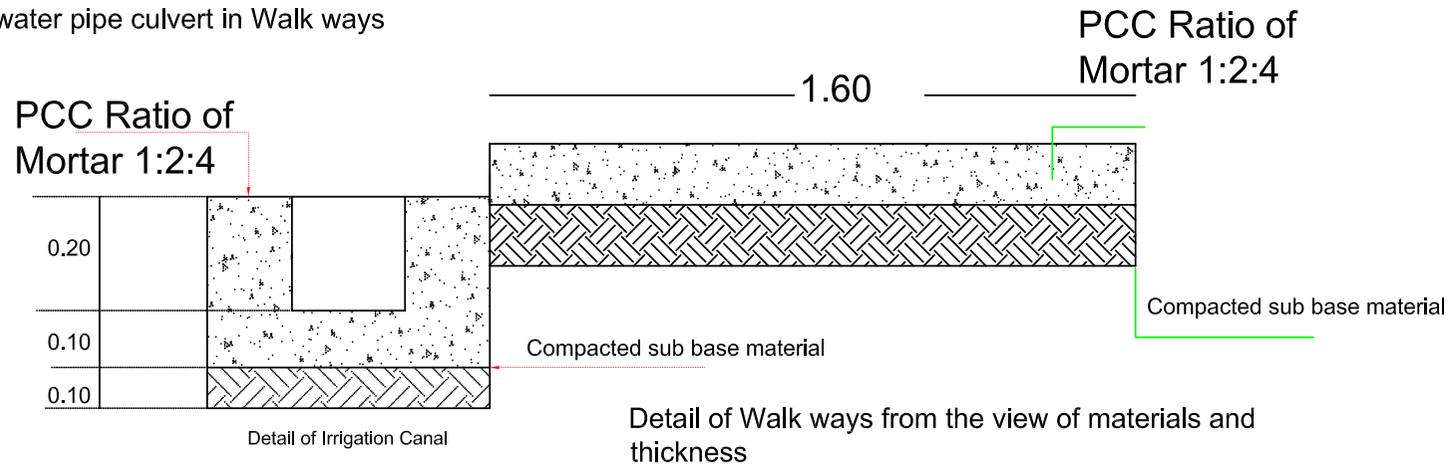


Drawing Title: Shades Section A-A		Name	Position/Organization	Project Name: Nahia 1st Park Construction
	Surveyed by:	[REDACTED]	Engineering Advisor RAMP UP N	
	Estimated by:		Engineering Advisor RAMP UP N	
Conceptual Approved by:	Head of SDAG			
Drawing Number: 08/23	Conceptual Approved by:		Mayor of Faizabad	
	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Projects Manager RAMP-UP N	
				Feb 2013

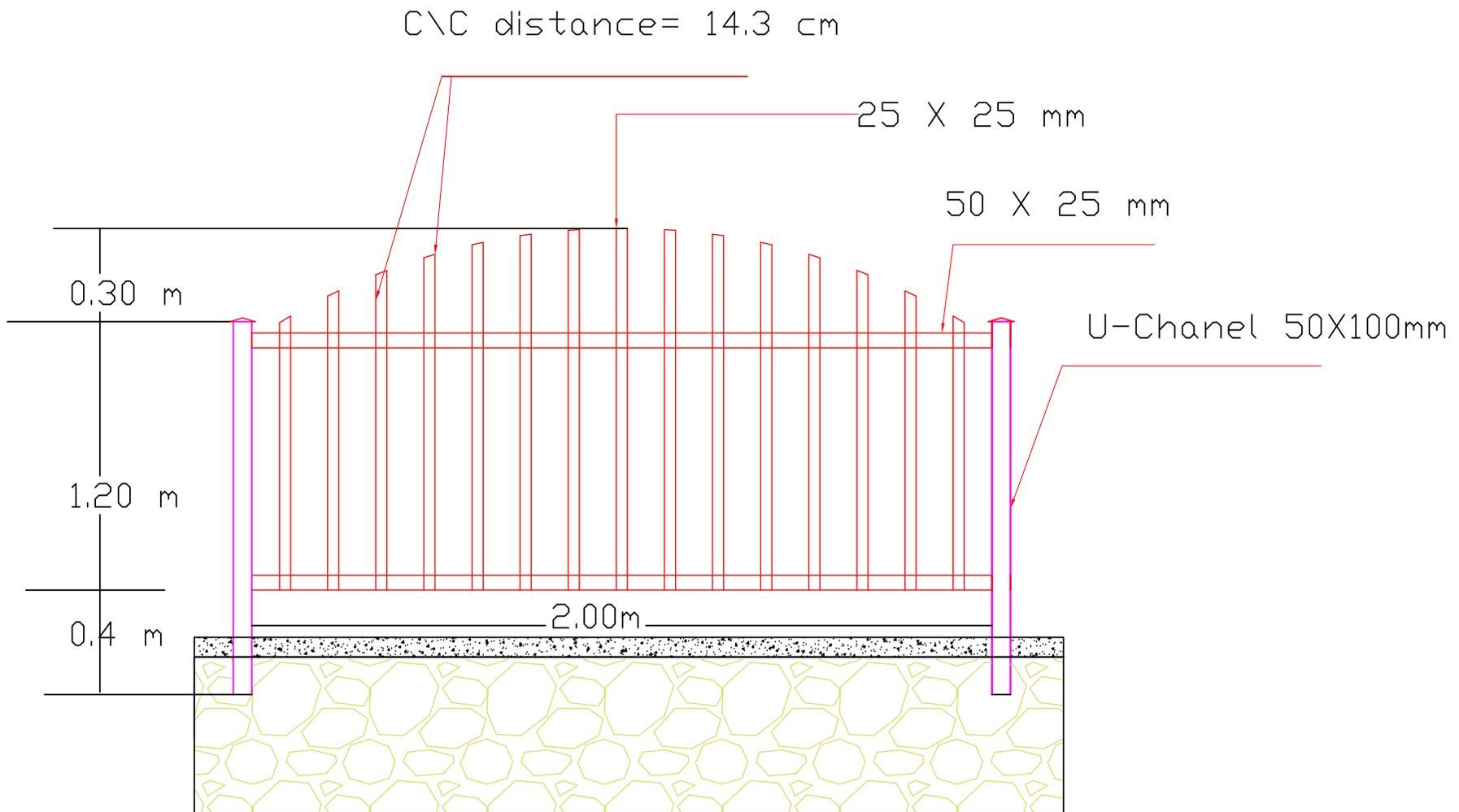


Drawing Title: Main Gate Elevation		Name	Position/Organization	Project Name: Nahia 1st Park Construction
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	Estimated by:		Engineering Advisor RAMP UP N	
Conceptual Approved by:	Head of SDAG			
Drawing Number: 09/23	Conceptual Approved by:		Mayor of Faizabad	
	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Projects Manager RAMP-UP N	
				Feb 2013

Detail of water pipe culvert in Walk ways



Drawing Title: Walkway pipe culvert detail	Name	Position/Organization	Project Name: Nahia 1st Park Construction
Surveyed by:	[Redacted]	Engineering Advisor RAMP UP N	
Estimated by:	[Redacted]	Engineering Advisor RAMP UP N	
Conceptual Approved by:	[Redacted]	Head of SDAG	
Drawing Number: 10/23	Conceptual Approved by:	Mayor of Faizabad	Feb 2013
	Technical Checked by:	Engineering Director RAMP-UP N	
	Approved by:	Projects Manager RAMP-UP N	



Fence Detail

Drawing Title: Fence Detail		Name	Position/Organization	Project Name: Nahia 1st Park Construction
	Surveyed by:	[REDACTED]	Engineering Advisor RAMP UP N	
	Estimated by:		Engineering Advisor RAMP UP N	
	Conceptual Approved by:		Head of SDAG	
Drawing Number 11/23	Conceptual Approved by:		Mayor of Faizabad	
	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Projects Manager RAMP-UP N	
				Feb 2013

### Electric Pole Detail

All dimension are in centi meter

#### Information:

1:- top pipe 30cm vertical 42cm curve and 30cm horizontal Diameter is 1inch\2.54cm have flash light 3 no fixed to three directions

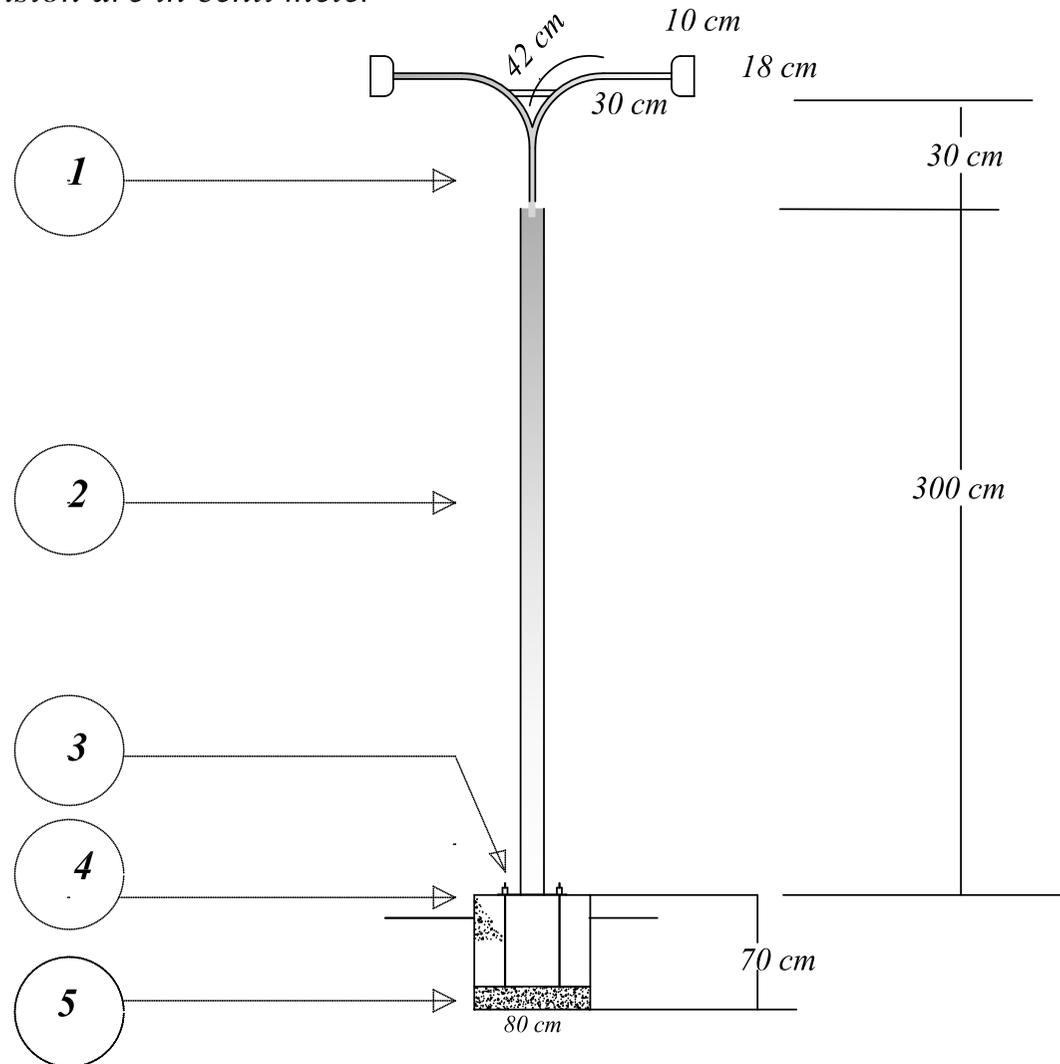
2:- From Top 4th portion 300cm Diameter is 4inch \10,16cm

3:- Under the 4inch GI pipe is iron sheet with the thickness of 5mm.

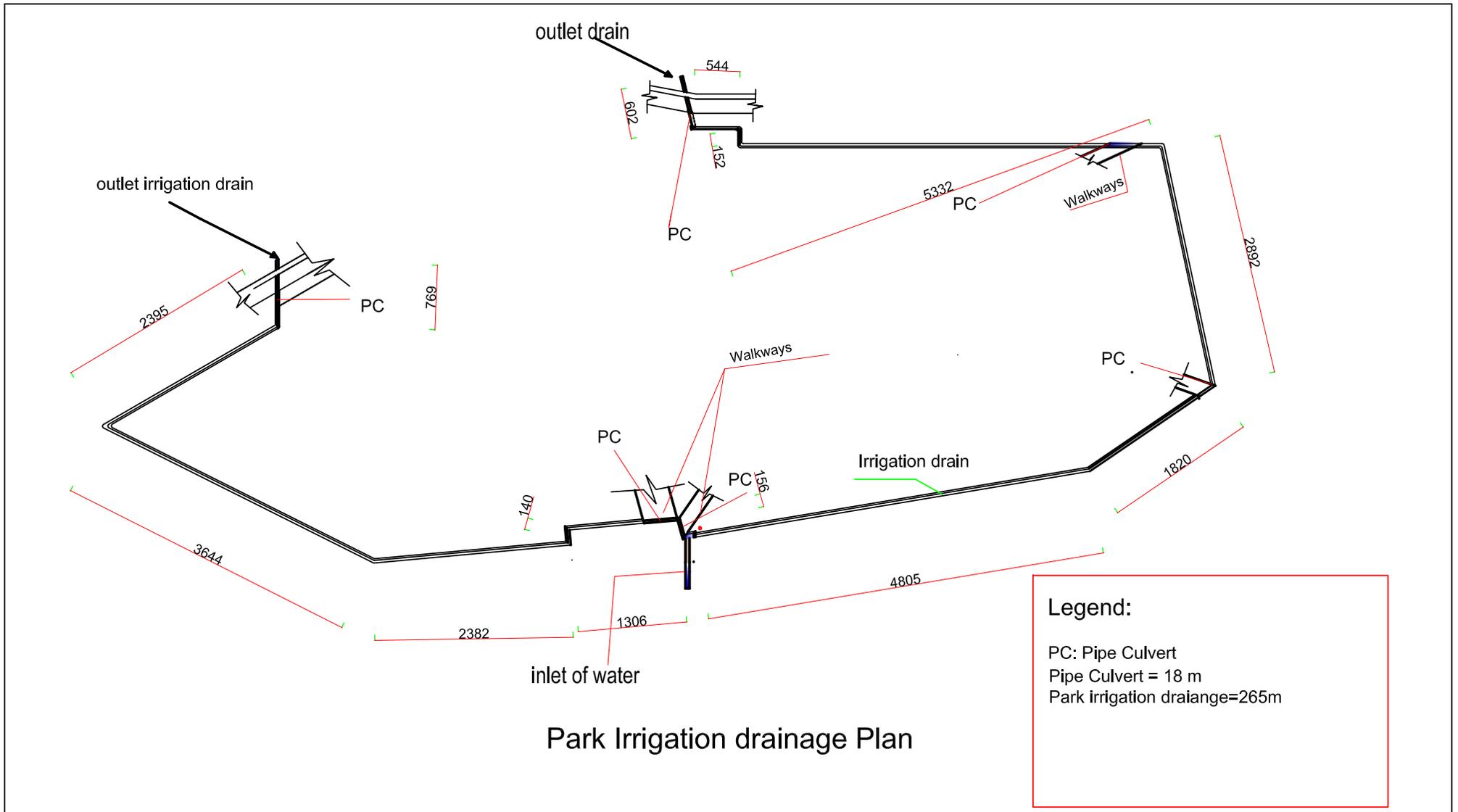
4:- The foundation (80 X 70) cm will be Reinforce cement concrete with a nut bolt system for the fixing of electric pole with foundation,

5:- Under the Reinforce cement concrete is 10 cm plain cement concrete

Note: All Pipe are Galvanized Iron with the thickness of 4-5mm, the connection will be done with electric cable made of turkey\Germany 4 bar each dia= 6mm



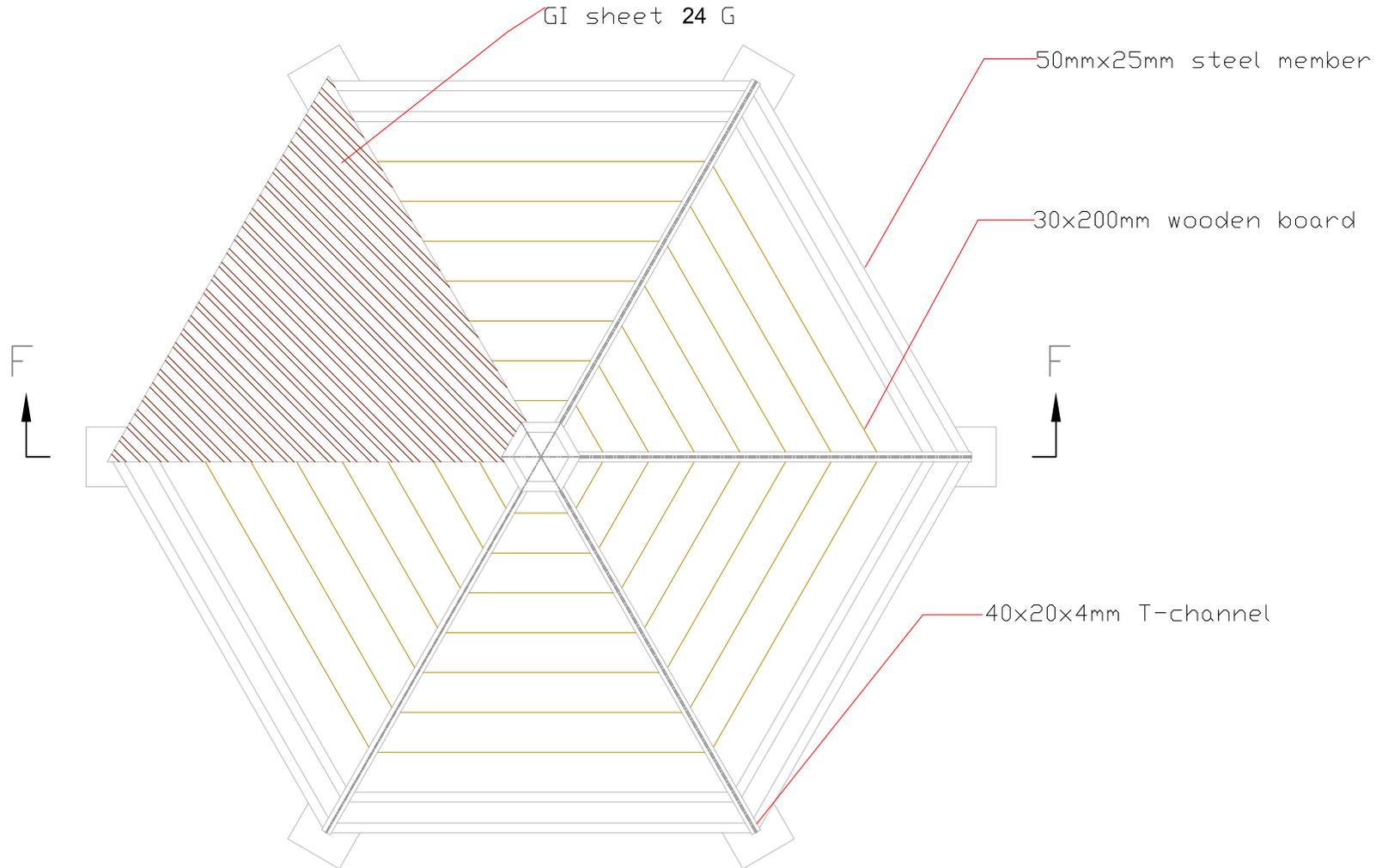
Drawing Title:Electrical Poles	Name	Position/Organization	Project Name:Nahia 1st Park Construction  Feb 2013
	Surveyed by:	Engineering Advisor RAMP UP N	
	Estimated by:	Engineering Advisor RAMP UP N	
Conceptual Approved by:	Head of SDAG		
Drawing Number: 12/23	Conceptual Approved by:	Mayor of Faizabad	
	Technical Checked by:	Engineering Director RAMP-UP N	
	Approved by:	Projects Manager RAMP-UP N	



**Park Irrigation drainage Plan**

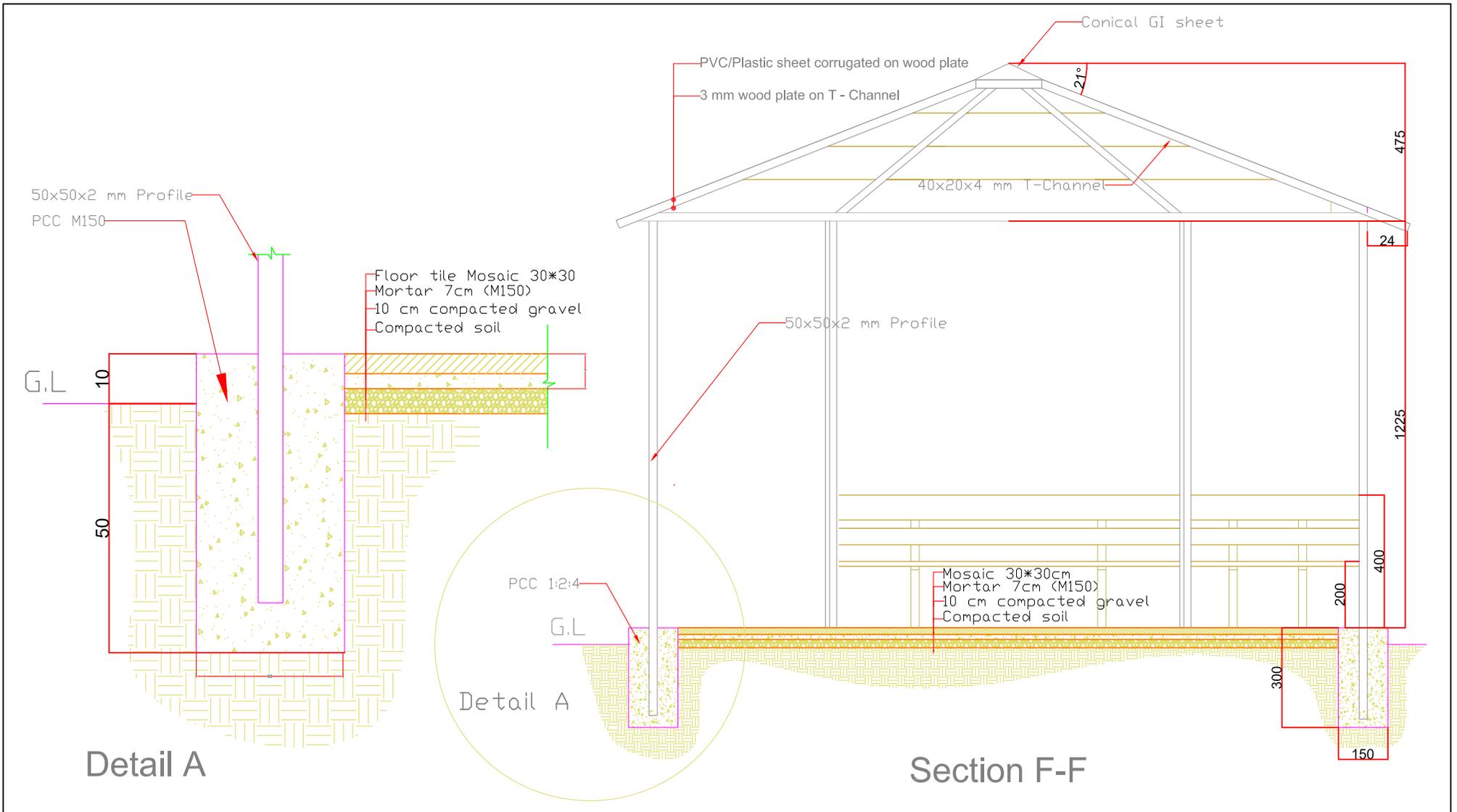
Drawing Title: Irrigation Plan	Name	Position/Organization	Project Name: Nahia 1st Park Construction
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	Estimated by:	Engineering Advisor RAMP UP N	
Conceptual Approved by:	Head of SDAG		
Drawing Number: 13/23	Conceptual Approved by:	Mayor of Faizabad	Feb 2013
	Technical Checked by:	Engineering Director RAMP-UP N	
	Approved by:	Projects Manager RAMP-UP N	





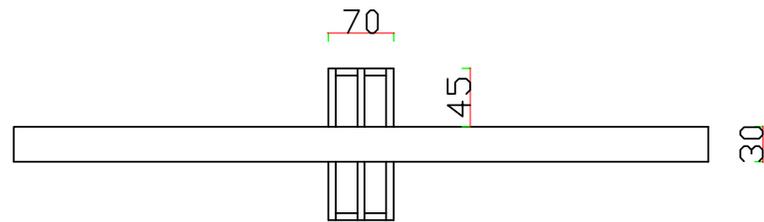
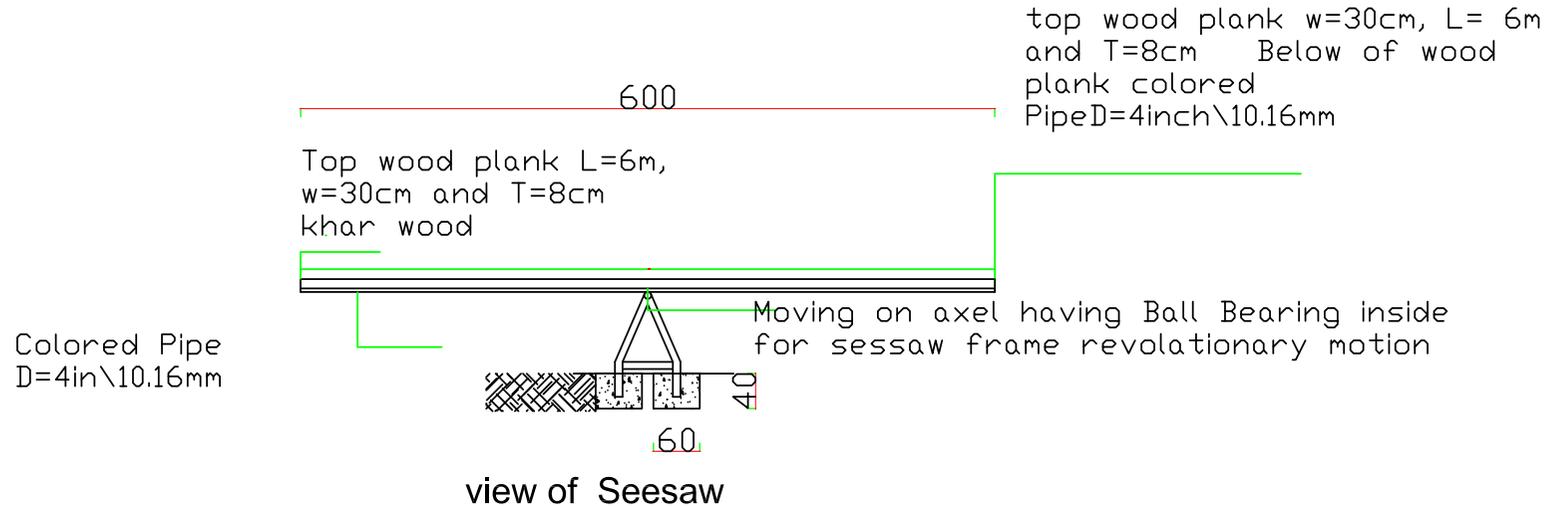
GAZEBO Roof PLAN

Drawing Title: Gazebo Roof Plan		Name	Position/Organization	Project Name: Nahia 1st Park Construction
	Surveyed by:	[REDACTED]	Engineering Advisor RAMP UP N	
	Estimated by:		Engineering Advisor RAMP UP N	
Conceptual Approved by:	Head of SDAG			
Drawing Number: 15/23	Conceptual Approved by:		Mayor of Faizabad	
	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Projects Manager RAMP-UP N	
				Feb 2013



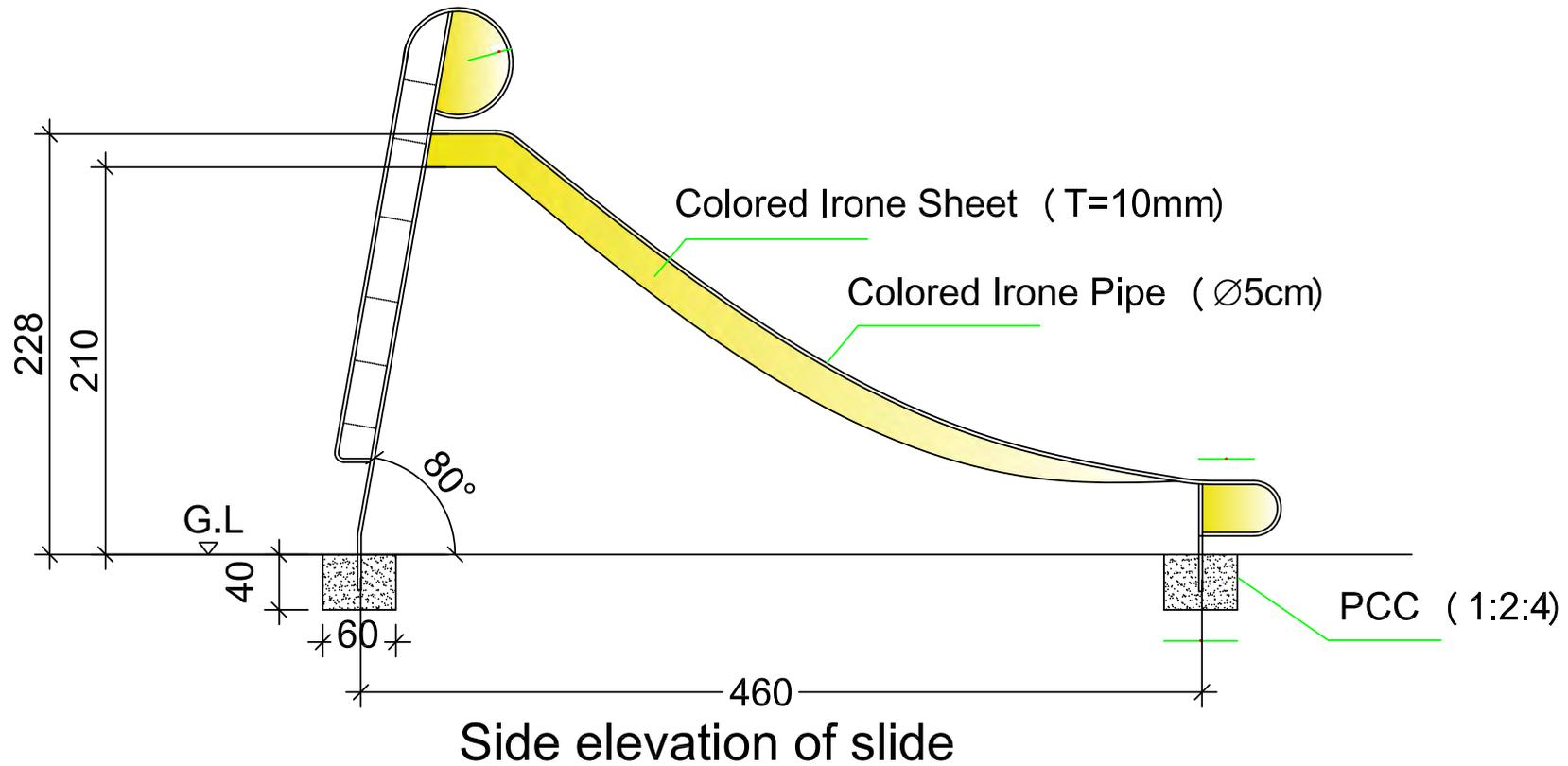
Drawing Title: Section F-F & Detail A	Name	Position/Organization	Project Name: Nahia 1st Park Construction
	Surveyed by:	Engineering Advisor RAMP UP N	
	Estimated by:	Engineering Advisor RAMP UP N	
Conceptual Approved by:	Head of SDAG		
Drawing Number: 16/23	Conceptual Approved by:	Mayor of Faizabad	
	Technical Checked by:	Engineering Director RAMP-UP N	
	Approved by:	Projects Manager RAMP-UP N	
			Feb 2013

# Detail Kids Playing Tools



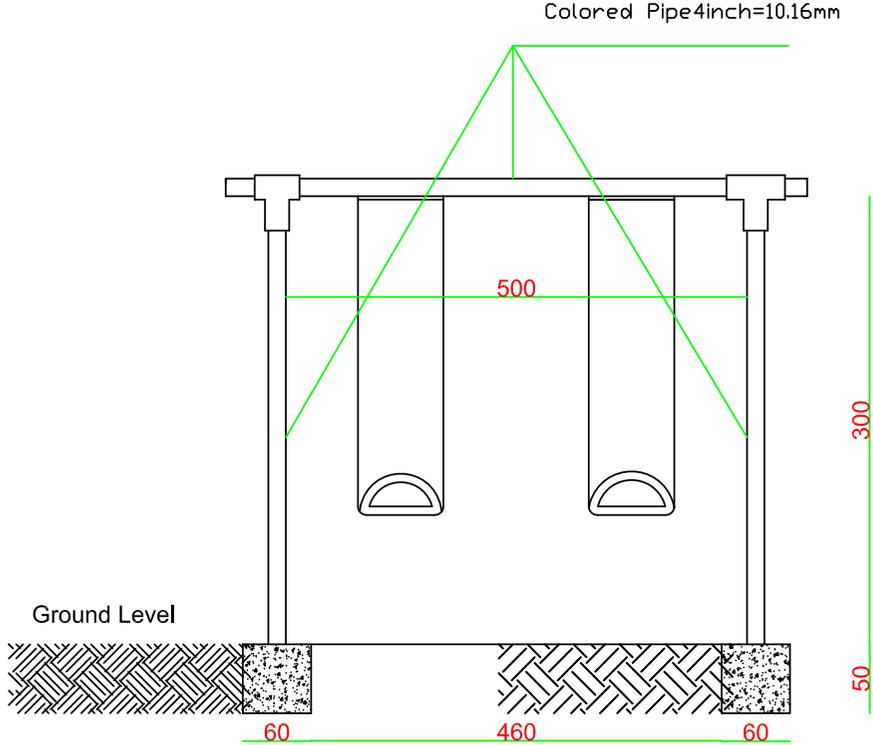
	Name	Position/Organization	
Drawing Title: Kids Playing Tools Seesaw view and plan	Surveyed by:	[Redacted]	Engineering Advisor RAMP UP N
	Estimated by:	[Redacted]	Engineering Advisor RAMP UP N
	Conceptual Approved by:	[Redacted]	Head of SDAG
Drawing Number: 17/23	Conceptual Approved by:	[Redacted]	Mayor of Faizabad
	Technical Checked by:	[Redacted]	Engineering Director RAMP-UP N
	Approved by:	[Redacted]	Projects Manager RAMP-UP N
			Project Name: Nahia 1st Park Construction
			Feb 2013

## Detail Kids Playing Tools

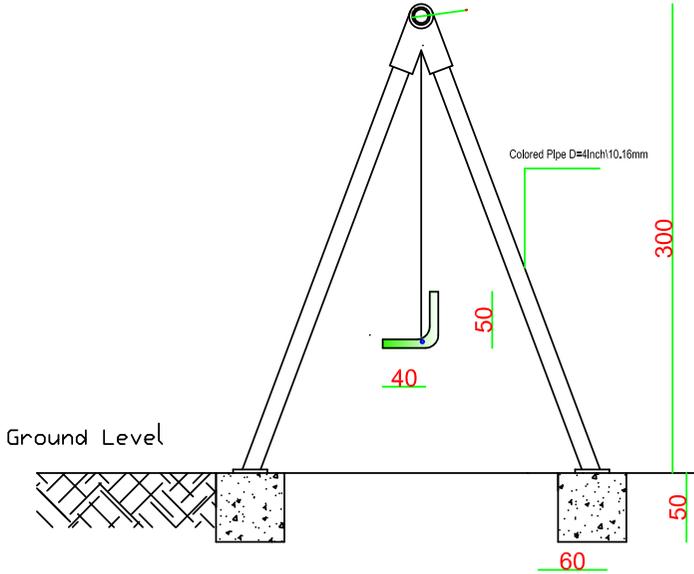


		Name	Position/Organization	
Drawing Title: Kids Playing Tools Slide elevation	Surveyed by:	[REDACTED]	Engineering Advisor RAMP UP N	Project Name: Nahia 1st Park Construction
	Estimated by:		Engineering Advisor RAMP UP N	
	Conceptual Approved by:		Head of SDAG	
Drawing Number: 18/23	Conceptual Approved by:		Mayor of Faizabad	
	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Projects Manager RAMP-UP N	
				Feb 2013

# Detail Kids Playing Tools



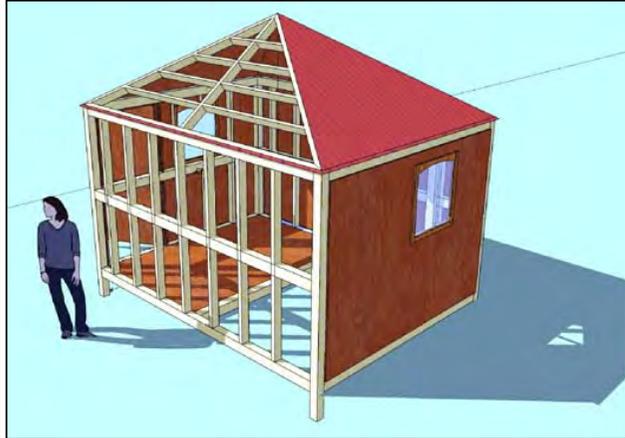
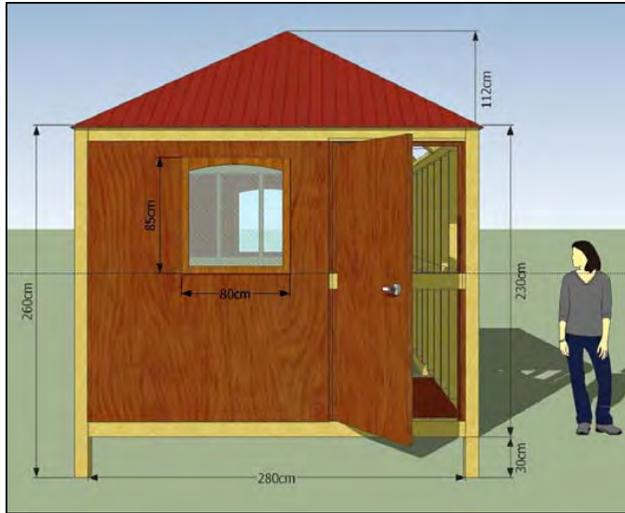
Front elevation of Swing



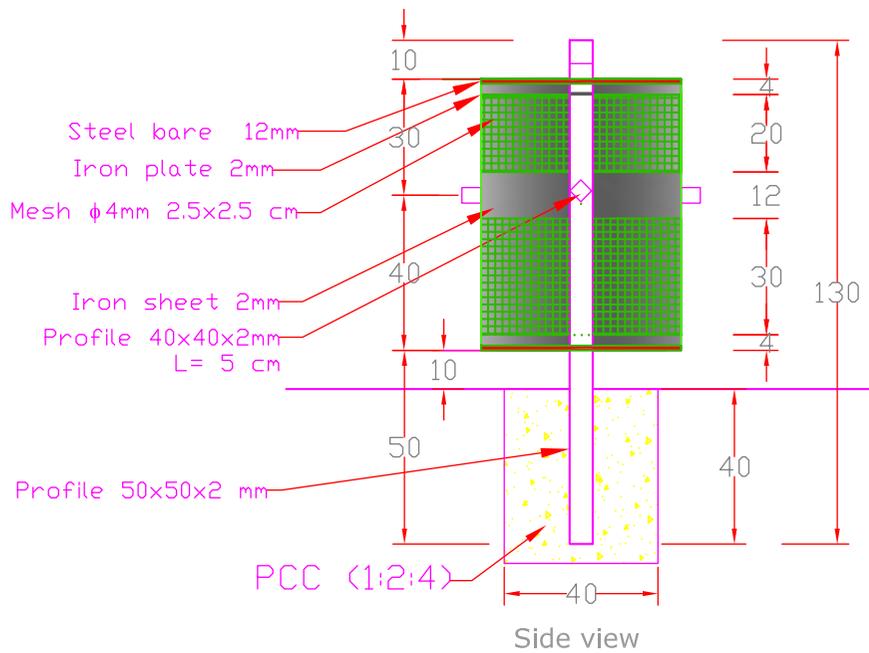
Side detail of Swing

PCC Foundation  
concrete Ratio  
1:2:4

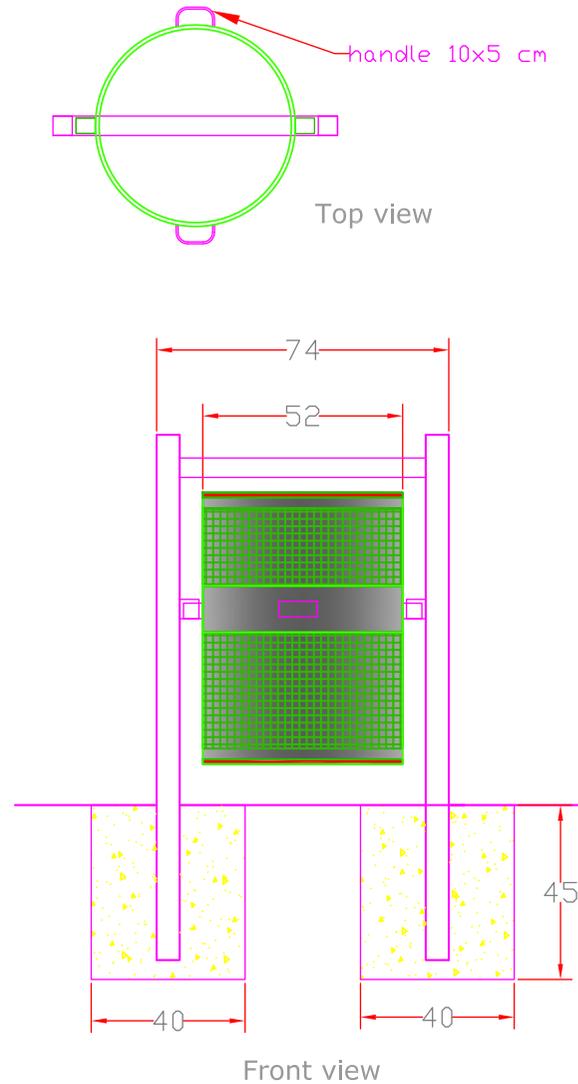
Drawing Title: Kids Playing Tools Swing elevation and detail	Surveyed by:	[REDACTED]	Engineering Advisor RAMP UP N	Project Name: Nahia 1st Park Construction
	Estimated by:		Engineering Advisor RAMP UP N	
	Conceptual Approved by:		Head of SDAG	
Drawing Number: 19/23	Conceptual Approved by:		Mayor of Faizabad	
	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:	Projects Manager RAMP-UP N	Feb 2013	



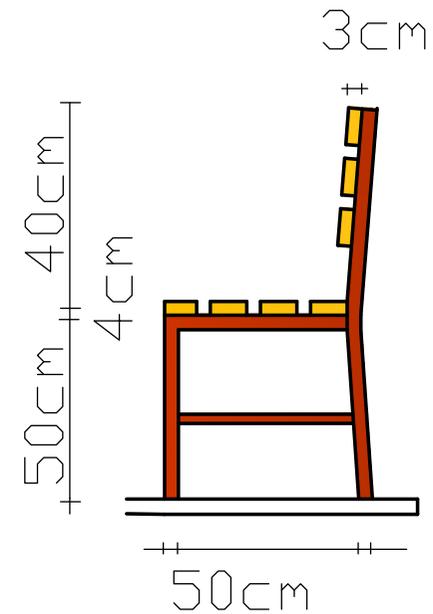
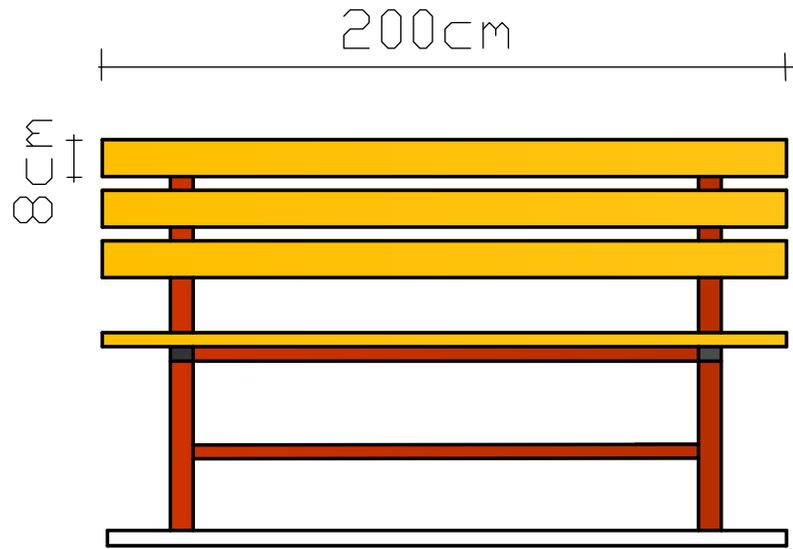
Drawing Title: Guard Room Construction	Name	Position/Organization	Project Name: Nahia 1st Park Construction
	Surveyed by:	Engineering Advisor RAMP UP N	
	Estimated by:	Engineering Advisor RAMP UP N	
Conceptual Approved by:	Head of SDAG		
Drawing Number: 20/23	Conceptual Approved by:	Mayor of Faizabad	
	Technical Checked by:	Engineering Director RAMP-UP N	
	Approved by:	Projects Manager RAMP-UP N	
			Feb 2013



## Dustbin



Drawing Title: Dustbin		Name	Position/Organization	Project Name: Nahia 1st Park Construction
Drawing Number: 21/23	Surveyed by:	[REDACTED]	Engineering Advisor RAMP UP N	
	Estimated by:		Engineering Advisor RAMP UP N	
	Conceptual Approved by:		Head of SDAG	
Conceptual Approved by:	Mayor of Faizabad			
	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Projects Manager RAMP-UP N	Feb 2013



Bench with metal Frame(Prifile 4\*3cm)

Drawing Title: Out door Bench		Name	Position/Organization	Project Name: Nahia 1st Park Construction
Drawing Number: 22/23	Surveyed by:	[REDACTED]	Engineering Advisor RAMP UP N	
	Estimated by:		Engineering Advisor RAMP UP N	
	Conceptual Approved by:		Head of SDAG	
Conceptual Approved by:	Mayor of Faizabad			
	Technical Checked by:		Engineering Director RAMP-UP N	Feb 2013
	Approved by:		Projects Manager RAMP-UP N	



		Name	Position/Organization	Project Name:Nahia 1st Park Construction     Feb 2013
Drawing Title: Three Dimensional pictures	Surveyed by:	[REDACTED]	Engineering Advisor RAMP UP N	
	Estimated by:		Engineering Advisor RAMP UP N	
	Conceptual Approved by:		Head of SDAG	
Drawing Number: 23/23	Conceptual Approved by:		Mayor of Faizabad	
	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Projects Manager RAMP-UP N	

## APPENDIX B – FAIZABAD MUNICIPALITY PARK CONSTRUCTION SOW

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**Regional Afghan Municipalities Program for Urban Populations**

**(RAMP UP-North)**

**Regional Command North**

**Project Proposal**

**Province:** Badakhshan  
**Municipality:** Faizabad  
**Project Number:** RUN-P-FZB-004  
**Project Name:** District 1 Park Construction Project  
**Project Duration:** 3 months  
**Estimated Project Cost:** ██████████  
**Date:** February 16, 2013

**MGRS Coordinates of Project Area:** 42SXG4026008657

**GPS Coordinates:**

Latitude: 37°06 49.52 N

Longitude: 70°34 43.25 E

## **I. Problem Statement:**

The Faizabad Municipality Park is located in District 1 of Faizabad and is the most centrally located and suitable park for youth. Since Faizabad is located in a mountainous area, land for public use, especially for parks, is limited, and therefore the Faizabad Municipality needs to improve existing areas assigned as parks. Currently, the majority of the existing park area is not used by citizens due to following problems:

- Lack of a proper place for women and children;
- Poor infrastructure and facilities in the park;
- No Irrigation system;
- No graveled or concrete sidewalks;
- No lighting;
- No park shelters with chairs or seating areas;
- A lack of greenery.

The park covers around 3500 m<sup>2</sup> of land located between two municipal guesthouse properties and is surrounded by protection walls. Currently, however, the area is undeveloped.

## **II. Solution statement:**

On September 25, 2012, a Service Delivery Advisory Group (SDAG) and Public Administration Advisory Group (PAAG) meeting took place, in which 21 people (18 SDAG members, including 14 men and 4 women, as well as 3 municipal officials, all men) participated to vote on prioritized projects. After a technical assessment of the projects prioritized during the meeting, the District 1 Park Construction Project was selected for the Round Four project.

## **III. Beneficiaries:**

The direct beneficiaries of the project are the 30,900 citizens of the Municipality of Faizabad (15,800 men 15,100 women). Indirect beneficiaries will be those individuals who visit the municipality and also make use of the park; however, the number of such indirect beneficiaries cannot be accurately determined.

## **IV. Scope of Work**

### **A. Methodology**

The proposed project requires construction work, which will be sub-contracted to a private company. The sub-contractor will be selected through a transparent procurement process, and the sub-contractor will complete the required activities under the supervision of the Municipality and RAMP UP-North teams.

**B. Goods and Services Provided by RAMP UP North**

A subcontractor will be selected for construction of the District 1 Park Construction Project, which includes the following activities:

- **Boundary wall:** Construction of a boundary wall (110.7m of new wall in the north and west), including excavation, PCC, stonemasonry, pointing and supply and installation of a steel gate and fence for the entire walls (275 meter),
- **Sidewalks:** Construction of 936 m2 of sidewalks with Terrazzo tile according to the drawings with all required activities,
- **Gazebo:** Construction and installation of a Gazebo\Canopy,
- **Covered Seating Area:** Construction of a roof to provide shade for the seating area for men and women,
- **Lighting:** Supply and installation of 11 electricity-poles (power poles) for lighting of the park with all required activities,
- **Equipment:** Supply and installation of audience benches and children’s playground equipment, including 4 slides, 4 swings (2 frames) and 4 seesaws.
- **Irrigation:** Supplying an irrigation system for the park based on the drawings with all required activities.

**C. Goods and Services Contributed by Municipality ( Estimated value of \$ ██████████)**

S/N	Description	No	Length	Wide	Height	Quantity	Unit	Unit Cost in AFA	Total Cost in AFA	Remarks
a	Filling of existing park layer by layer Thickness of layer <20 cm with all requirements like compaction etc.	1	26.93	114	2.5	7675.05	m <sup>3</sup>	200	██████████	
<b>Estimated Value of Goods and Services Contributed by Municipality:</b>									██████████	

All subcontractors for RAMP UP-North activities are required to hire local laborers for all unskilled labor positions. These laborers will be hired from within the community of the nearby villages and beneficiaries of RAMP UP-North activities. The subcontractor shall be responsible for providing documentation of the number of both skilled and unskilled laborers and number of days worked.

## Cost Estimation for Goods and Services Provided by RAMP UP-North

Bill of Quantity										
S/N	Description	No	Length	Wide	Height	Quantity	Unit	Unit Rate	Total Cost	Remarks
<b>A</b>	<b>Boundary Wall, (110.7 meter new walls) the activities included: excavation, PCC, stonemasonry, pointing and supply and installation of steel gate and fence for entire walls (275 meter).</b>									
1	Excavation of foundation of boundary wall newly constructed North side with all requirements.	1.00	110.70	0.50	0.50	27.68	m <sup>3</sup>			
2	Foundation bed plain cement concrete (Ratio 1:2:4) of boundary wall North side new constructed with its requirements.	1.00	110.70	0.50	0.10	5.54	m <sup>3</sup>			
3	Stonemasonry (Mortar Ratio 1:4) of Foundation of north side wall of the park with all requirements according specification and design.	1.00	110.70	0.50	0.50	27.68	m <sup>3</sup>			
4	Stonemasonry (Ratio of Mortar = 1:4) of north side wall of the park with all requirements according specification.	1.00	110.70	0.50	1.00	55.35	m <sup>3</sup>			
5	Pointing (Mortar Ratio = 1:4) of stonemasonry wall both sides, Park north side with all its requirements according specification.	2.00	110.70		1.00	221.40	m <sup>2</sup>			
6	Lean concrete\ Cooping (Mortar Ratio = 1:4) on top of north side stonemasonry wall with all its requirements.	1.00	110.70	0.50	0.10	5.54	m <sup>3</sup>			
7	Provision and installation of (3x3) m steel gate with all related activities all complete according the design and specification.	1.00	9.00		1.00	9.00	m <sup>2</sup>			
8	Fence\Railing of all old and new walls with all requirements like installation welding , painting supplying etc. according design and specification	1.00	275.00		1.25	343.75	m <sup>2</sup>			
<b>B</b>	<b>Sidewalks with Terrazzo Tile: Construction of 936 m2 sidewalks according to drawings and specs with all required activities.</b>									
1	Crashed gravel base course for walkways bed under the PCC (wide=160 cm) with all requirements like compaction etc.	1.00	470.00	1.60	0.10	75.20	m <sup>3</sup>			
2	Crashed gravel base course for walkways bed under the PCC (wide=400 cm) with all requirements like compaction etc.	1.00	46.00	4.00	0.10	18.40	m <sup>3</sup>			
3	Plain cement concrete (Mortar Ratio = 1:2:4) of walkways have wide=160cm with all requirements have expansion joints in each 12m and construction joint in each 4 m (depth=4cm and wide=2cm) based upon on the site.	1.00	470.00	1.60	0.15	112.80	m <sup>3</sup>			
4	Plain cement concrete (Mortar Ratio = 1:2:4) of walkways have wide=400cm with all requirements have after every 12m expansion joints and construction Joints after every 4 m (Depth = 4cm) based upon on the site.	1.00	46.00	4.00	0.15	27.60	m <sup>3</sup>			

5	Supply and installation of terrazzo with thickness 2.5-3cm and fixed with all its requirements.	1.00	470.00	1.60		752.00	m <sup>2</sup>			
6	Supply and installation of terrazzo with thickness 2.5-3cm and fixed with all its requirements.	1.00	46.00	4.00		184.00	m <sup>2</sup>			
7	The edges of the sidewalks will be covered by the side curbs. 50*20*6cm	2.00	516.00			1032.00	m			
8	Supply and installation pipe culverts based on the drawing with all requirements according specification in different parts of park where ever required especially in the places where need for crossing of park irrigation water.	9.00	2.00			18.00	m			
							LS			
<b>D</b>	<b>Making and placing Gazebo\Canopy (See the drawings)</b>									
1	Gazebo: Construction of 4 gazebos with al required activities according to the drawings and specs (Profile 50x50x2 mm for pillars. T- Channel = (6*2.5m)*3. Profile 25x50 mm. Wood Plate 3mm. PVC/Plastic corrugated sheet (Sheffer). PCC M150 = (6*0.3*0.6*0.3)*3. Mosaic Tile = (13*3). Curb 50*15*6 cm =(30*3). Mortar 1:3 = (13*0.05 m)*3. Gravel for base course =(13*0.05 m)*3. Bench: see audience bench spec. Paint: 3 coat high quality of oil and anti-rust paints.	4.00				4.00	LS			
<b>E</b>	<b>Construction of shads for sitting area of Males and Females.</b>									
1	Excavation of foundation of columns with all requirements.(female shadow)	4.00	0.80	0.80	1.00	2.56	m <sup>3</sup>			
2	Plain cement concrete for foundation bed with all requirements (mortar ratio = 1:2:4). (female shadow)	4.00	0.80	0.80	0.10	0.26	m <sup>3</sup>			
3	Short columns stonemasonry with all requirements (Mortar Ratio = 1:1.5:3) (female shadow)	4.00	3.70	0.65	0.65	6.25	m <sup>3</sup>			
4	Reinforce cement concrete for floor with all requirements (Mortar Ratio = 1:1.5:3). (female shadow)	1.00	18.00	5.10	0.12	11.02	m <sup>3</sup>			
5	Reinforcement cement concrete for parapet wall with all requirements (Mortar Ratio = 1:1.5:3) (female shadow)	1.00	21.50	0.12	1.00	2.58	m <sup>3</sup>			
6	RCC ring with all requirements (Mortar Ratio = 1:1.5:3). (female shadow)	1.00	48.40	0.40	0.30	5.81	m <sup>3</sup>			
7	Construction of roof truss base on the design and specification with all requirements including columns and so on. (female shadow)	1.00	6.00	6.10		36.60	m <sup>2</sup>			
8	Plastering parapet walls with all requirements ( Mortar Ration = 1:4) (female shadow)	2.00	24.00		1.00	48.00	m <sup>2</sup>			

9	Painting inside parapet wall with all requirement like filling, primer and final coats. (female shadow)	1.00	18.00		1.00	18.00	m <sup>2</sup>		
10	Painting of truss columns of female shadow area, it should one coat anti rust and two coat oil with all required activities. (female shadow)	4.00	0.20	3.00		2.40	m <sup>2</sup>		
11	All electrical work included supply and installation of bulbs, sockets, fuse box, circuit breaker, and wire with all required activities. (female shadow)	1.00				1.00	LS		
12	Excavation of foundation of columns with all requirements.(male shadow)	9.00	0.80	0.80	1.00	5.76	m <sup>3</sup>		
13	Plain cement concrete for foundation bed with all requirements (mortar ratio = 1:2:4). (male shadow)	9.00	0.80	0.80	0.10	0.58	m <sup>3</sup>		
14	Short columns stonemasonry with all requirements (Mortar Ratio = 1:1.5:3) (male shadow)	9.00	3.70	0.65	0.65	14.07	m <sup>3</sup>		
15	Reinforce cement concrete for floor with all requirements (Mortar Ratio = 1:1.5:3). (male shadow)	1.00	45.00	5.10	0.12	27.54	m <sup>3</sup>		
16	Reinforcement cement concrete for parapet wall with all requirements (Mortar Ratio = 1:1.5:3) (male shadow)	1.00	51.00	0.12	1.00	6.12	m <sup>3</sup>		
17	RCC ring with all requirements (Mortar Ratio = 1:1.5:3). (male shadow)	1.00	136.00	0.40	0.30	16.32	m <sup>3</sup>		
18	Construction of roof truss base on the design and specification with all requirements including columns and so on. (male shadow)	1.00	22.00	6.10		134.20	m <sup>2</sup>		
19	Plastering parapet walls with all requirements ( Mortar Ration = 1:4) (male shadow)	2.00	51.00		1.00	102.00	m <sup>2</sup>		
20	Painting inside parapet wall with all requirements like filling, primer and final coats. (male shadow)	1.00	51.00		1.00	51.00	m <sup>2</sup>		
21	Painting of truss columns of female shadow area, it should one coat anti rust and two coat oil with all required activities. (male shadow)	6.00	1.40		3.00	25.20	m <sup>2</sup>		
22	All electrical work included supply and installation of bulbs, sockets, fuse box, circuit breaker, and wire with all required activities. (male shadow)	1.00				1.00	LS		
23	Excavation of trench from Guard room to female and Male shadow areas with all requirements under ground in PVC pipe for providing electric power cable.	1.00	324.00	0.50	0.50	81.00	m <sup>3</sup>		
24	Cable (Made of Turkey\German have 4 bar Diameter of each bar =6mm) of connection of Electric power from guard room to Female and male shadow areas providing and connection with all requirements	1.00	384.00			384.00	m		
25	Backfilling of trench of electric line cable from guard room to female and male shadow area with all requirements.	1.00	324.00	0.50	0.80	129.60	m <sup>3</sup>		
<b>F</b>	<b>Supply and installation 11 electricity-poles (power poles) for lighting of park with all required activities; poles 3.5 meter, each poles should have 3 street light, wire, excavation and concrete works for foundation and should be controlled from Guard room.</b>								

1	power poles with all requirements (Excavation foundation, Foundation Concrete, pole height = 3.5m from ground level and pole will be Galvanized Iron pipe different sizes according design and specification. and every pole has three flash lights with all requirements like cabling underground fuse box circuit breakers all electric system will controlled from Guard Room mean electric system will distributed from Guard room also it will be connected with city electric power system.	1				11	No		
<b>G</b>	<b>Supply and installs of benches, trash bins and tools for children playing including park Irrigation system and water crossing for park based on detail and drawing with all required activities.</b>								
1	Audiences bench: Production and installation of metallic outdoor benches according to drawings and specs, with all required activities like 3 coat of paint etc.	15				15	each		
2	4 set slides, 4 swings (2 frames) and 4 set seesaws for playing of kids standard size with all its requirements like installation, excavation of foundation, Foundation Plain cement concrete, painting etc. according design from colored Pipes and colored iron sheet t=10mm.	1				1	LS		
3	Plain cement concrete for park irrigation Canal\drain with all requirements like form work, curing, excavation etc (mortar Ratio = 1:2:4) according the design and specification.	1	265	0.7	0.4	60.95	m <sup>3</sup>		
4	Excavation of foundation for pipes from main canal to park irrigation canal\drain with all requirements	1	80	0.6	0.8	48	m <sup>3</sup>		
5	Supply and installation of 84 meters of PVC pipe, 6 inch diameter royal\Kawsar for irrigation from main canal to park irrigation canal\drain with all requirements.	1	84			84	m		
6	Backfilling of foundation from sand and soil with all requirements.	1	80	0.6	0.7	33.6	m <sup>3</sup>		
7	Supply and install of 4 trash bins based on the drawing and specification with all required activities.	4.00				4.00	each		
8	Plain cement concrete circular floor in green area of park first steep with all requirements (ratio of mortar = 1:2:4 )	1.00	43.00	1.00	0.20	8.60	m <sup>3</sup>		
<b>I</b>	<b>Branding, opening and closing ceremony</b>					<b>1</b>	<b>LS</b>		
<b>Estimated Cost of Goods and Services Provided by RAMP UP North:</b>									

## **V. Involvement and Leadership of Municipal Staffs in Project Selection, Development, Implementation & Monitoring and Evaluation:**

On September 25, 2012, a joint meeting of the Service Delivery Advisory Group (SDAG) and the Public Administration Advisory Group (PAAG) (21 participants, of which 4 were women and 14 were men from the SDAG and 3 men from the PAAG) was held to select the Round 4 project, and participants prioritized the Construction of the District 1 Park as the municipality's priority.

On October 4, 2012, municipal construction manager along with RAMP UP-North team conducted a site survey and feasibility assessment to specify the exact location of the park. During this feasibility assessment, the participants also defined the final scope of work for the project. The RAMP UP-North team in cooperation with the Municipal Construction Department developed project designs and estimations. The Mayor and the Municipal Construction Manager committed to lead monitoring, evaluation and the oversight of the project along with the SDAG monitoring committee.

## **VI. Level of Public Participation:**

On September 25, 2012, a joint meeting (21 participants, of which 4 were women and 14 were men from the SDAG and 3 men from the PAAG) of the Service Delivery Advisory Group (SDAG) and the Public Administration Advisory Group (PAAG) was held to prioritize and select construction of District 1 Park as the municipality's R4 project.

On November 7, 2012, a joint meeting (14 participants, of which 6 were women and 10 were men from the SDAG and 6 men from the PAAG) of the Service Delivery Advisory Group (SDAG) and the Public Administration Advisory Group (PAAG) was held to discuss about sustainability of the project and drafted the Service Delivery Improvement Plan (SDIP).

SDAG members pledged and committed to play an active role during the implementation of project by monitoring of the park construction and overseeing revenue collection after the completion of project.

## **VII. Activity Objectives:**

- Improve upon and increase the level of service delivery in residential and business areas of the Faizabad Municipality.
- Improve communication and relationships between the Mayor/Municipal officials and citizens.
- Improve the participation of citizens, especially marginalized groups such as women and youth, in decision-making processes related to the planning, design, implementation, and monitoring of municipal services.
- Improve the public's perception of the municipality's ability to deliver sustainable services.
- Improve and increase delivery of municipal services to all citizens, particularly through access to parks and recreational services.
- Increase the capacity of the Faizabad Municipal Officials in project implementation.
- Increase revenue generation and the sustainability of municipal service delivery.

## **VIII. Sustainability and Maintenance:**

### **Municipality and Citizens Contribution (after project completion):**

The Faizabad Municipality has agreed to take part in the greening of the park by planting grass with all required activities. Municipal officials along with the citizens will monitor the work progress and work on sustainability measurements to ensure the long-term use of the park.

The maintenance of the park project is an essential issue for the Faizabad Municipality and the SDAG. Both consider the contracting of the maintenance, operation and revenue collection for the park to the private sector as a critical part of sustainability. The municipality anticipates that contracting the management, operation, and maintenance of this project to the private sector will also provide a regular source of revenue to the municipality to maintain and sustain the District 1 Park, as well as provide quality services to citizens. The partnership will also increase the transparency of the revenue available to the municipality.

The municipality in coordination with SDAG members, and the technical assistance from RAMP UP-North advisors, has developed a sustainability and maintenance plan that explains the revenue projections from entrance fees and operation and maintenance requirements for the District 1 Park.

On November 07, 2012, the SDAG members committed to play an active role during the implementation of project by monitoring of park construction and overseeing revenue collection after completion of project.

### **Revenue Enhancement:**

Potential revenues from the park have been estimated based on the established user fees and estimated usage rates, along with estimated operations costs (cleaning and cashier staff and maintenance costs) and a reasonable contractor profit margin. The user fee will be set by the municipality based on the advice of the SDAG about a reasonable rate of 10 Afghani (\$ 20 cents). Municipality will receive \$190 USD on monthly basis and \$ 1,710 USD on annual basis revenue (based on 9 months of revenue).

**SUSTAINABILITY ANALYSIS  
FOR  
CONSTRUCTION OF PARK IN DISTRICT 1 IN FAIZABAD**

<b>MONTHLY AND ANNUAL REVENUE GENERATION</b>				
No. Visitors/Canteen	Rate per User (USD)	Total Revenue Daily (USD)	Total Revenue Monthly (USD)	Total Revenue Annually Based on 9 Months (USD)
100	0.20	20	600	5,400
One Canteen			40	360
<b>Total Revenue Monthly and Annually (USD)</b>			<b>640</b>	<b>5,760</b>

<b>MONTHLY AND ANNUAL O&amp;M EXPENSES</b>								
Description	Unit	Quantity/ User	Quantity (Daily)	Quantity (Monthly)	Unit Cost (USD)	Total Cost /Day (USD)	Total Cost/Month (USD)	Total Cost /Annual (USD)
Cashier/cleaner	Person	1			100.00		100.00	1200.00
Gardener/park guard	person	1			100.00		100.00	1200.00
Maintenance cost	LS				50.00		50.00	600.00
Electricity	LS				50.00		50.00	600.00
<b>Total</b>							<b>300</b>	<b>3,600</b>

<b>REVENUE GENERATION ANALYSIS</b>				
Monthly Revenue (USD)	Less Monthly O&M Expenses (USD)	Less Monthly Contractor Profit (USD)	Monthly Municipality Net Revenue (USD)	Annual Municipality Net Revenue (USD)
640	300	150	190	1,710

## **IX. Capacity Development**

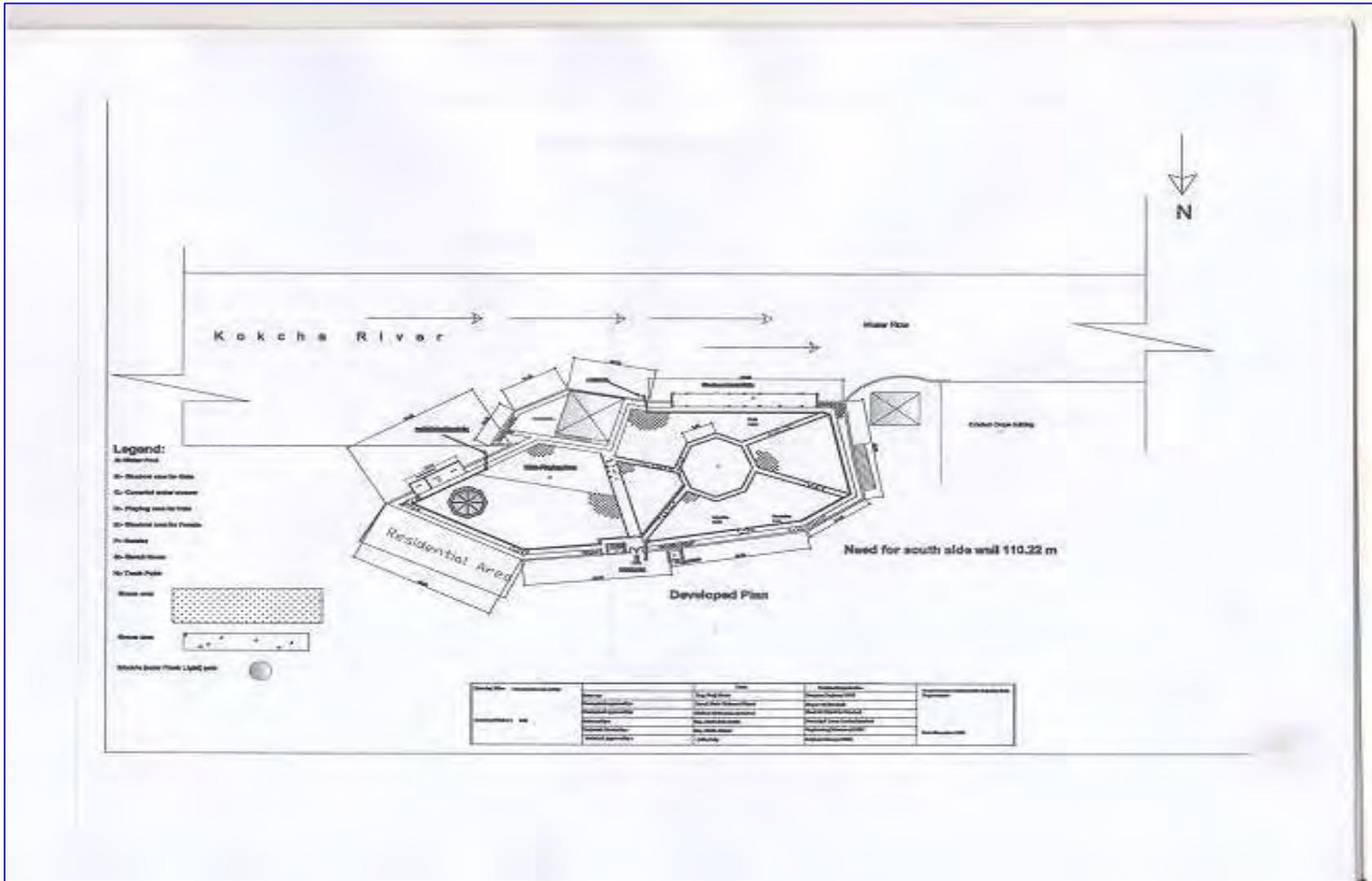
The project will help to develop the capacity of municipal officials and staff by applying a learning-by-doing approach in terms of project planning, implementing, monitoring and managing. Capacity development focused/will focus on the topics below:

- Project selection,
- Project development,
- Project procurement and management,
- Project implementation and management,
- Project monitoring,
- Public-private partnerships.

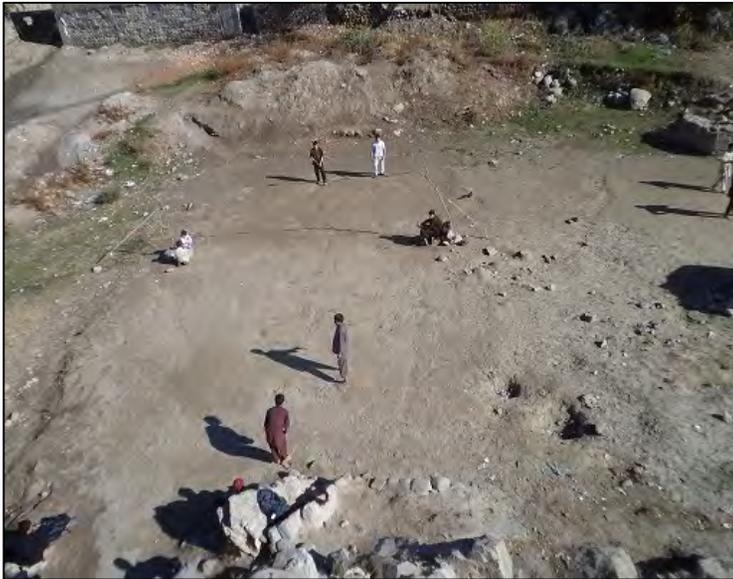
## **X. Unique Aspects of Project**

- Citizens were involved in the project identification and design process.
- The park project has the potential for developing additional public-private partnerships. Areas for additional PPP include collaborating with business on park development in exchange for space for advertisements, and leasing out the café/coffee cabin to the private sector.
- Construction of the park facilitates a recreation place for all citizens including children, youth and women.

**XI. Sketches:**



## XII. Photos – Pre-Implementation:



**XIII. Conceptual Drawing – Post – Implementation:**





