UNHCR The UN Refugee Agency | Afghanistan

زنان برای زنان افغان
ښځې د افغان ښځو لپاره
WOMEN FOR AFGHAN WOMEN

# MINISTRY OF PUBLIC HEALTH

Department of Construction / Technical Services Documents

Ab Burdah BHC

Location:

Ab Burdah Village, Uruzgan Province

# ARCHITECTURE & ENGINEERING DESIGN

10.OCT.2022

# Uruzgan Ab Burdah BHC Site Plan including Total Covered Area, Boundary wall Length, Approved Sketch and Site Pictures

S 1:100

Total Covered Area =5212.49Sq. m =2.5Jerb
Total Boundary Wall Length =343.6m

## Ab Burdah BHC Observation

1 - Construction of Main Building.
2 - Installation of Solar Panels.
3 - Construction of Guard Room
4 - Drilling of Deep Bore Well.
5 - Construction of Generator Room.
6 - Construction of Water Elevate Tank.
7 - Construction of 6 Pcs Toilets.
8 - Construction of Septic Tank.
9 - Construction of Garbage Collection Point.
10 - Construction of Parking.
11 - Construction of Car Way.
12 - Construction of Side Walk and Walk Way.
13 - Construction of Green Area.
14 - Installation of Small and Main Steel Gates

## *Note:*

*1-All dimension are in meters .*
*2-PCC should be (1:2:4).*
*3-Stone Masonry Ratio Should be (1:4).*
*4-Brick Masonry Ratio Should be (1:3).*
*5-RCC Concrete Ratio Should be (1:1,5:3).*
*6-All Reinforcements steel bars should not be eroded or lubricated and has to be clean.*
*7-All steel bars should be Class A .*
*8- All steel bars should be Grade 60.*
*9-The Curing of RCC Concrete should not be less then (28) days.*

UNHCR The UN Refugee Agency | Afghanistan — **Health Construction Project**

| | |
|---|---|
| Project code | Uruzgan - 000 - 000 |
| Project | New Construction of Ab Burdah BHC including Wash and other Facilities |
| Drawing Title | Ab Burdah BHC Site Plan |
| Project Location | Tirin Kut City, Uruzgan Province, Afghanistan |

| | Drawn By: | Designed By: | Checked By: | |
|---|---|---|---|---|
| Name | Engr. I Danish | Engr. I Danish | Engr. Amir M | |
| Sign | | | | |
| Date | | | | |

# Uruzgan Ab Burdah BHC Total Covered Area, Boundary wall Length, Dimensions, Plumbing, Sewer Line and Electric System
S 1:100

Total Covered Area =5212.49Sq. m =2.5Jerb
Total Boundary Wall Length =343.6m

## Note:

*1-All dimension are in meters .*
*2-PCC should be (1:2:4).*
*3-Stone Masonry Ratio Should be (1:4).*
*4-Brick Masonry Ratio Should be (1:3).*
*5-RCC Concrete Ratio Should be (1:1,5:3).*
*6-All Reinforcements steel bars should not be eroded or lubricated and has to be clean.*
*7-All steel bars should be Class A .*
*8- All steel bars should be Grade 60.*
*9-The Curing of RCC Concrete should not be less then (28) days.*

## Ab Burdah BHC Observation

1 - Construction of Main Building.
2 - Installation of Solar Panels.
3 - Construction of Guard Room
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9 - Construction of Garbage Collection Point.
10 - Construction of Parking.
11 - Construction of Car Way.
12 - Construction of Side Walk and Walk Way.
13 - Construction of Green Area.
14 - Installation of Small and Main Steel Gates

## Observation Of Plumbing, Sewerage and Electrical System in Ab Burdah BHC Site Plan

1 ____ The Red Colors Line Shows the Electrical System From Generator Room to Main Building or 0ther Portions.
Total electrical conduit pipe length 113 M

2 ____ The Green Colors Line Shows the Plumbing System From Bore well to Water Elevate Tank or Other Portions.
Total plumbing pipe length 633 M

3 ____ The Grey Colors Line Shows the Sewerage System From 6Pcs Toilets to Septic Tank.
Total Sewerage pipe length 30 M

UNHCR Afghanistan — Health Construction Project

| | |
|---|---|
| Project code | Uruzgan - 000 - 000 |
| Project | New Construction of Ab Burdah BHC including Wash and other Facilities |
| Drawing Title | Ab Burdah BHC Site Plan |
| Project Location | Tirin Kut City, Uruzgan Province, Afghanistan |

| | Drawn By: | Designed By: | Checked By: | |
|---|---|---|---|---|
| Name | Engr. I Danish | Engr. I Danish | Engr. Amir M | |
| Sign | | | | |
| Date | | | | |

# Uruzgan Ab Burdah BHC Side Walk and Walk Way Sections With Details

S 1:100

## Section (C-C)

Total Area = 1503 Sq. m

Total site leveling = 1503 Sq. m

Total PCC = 150.3 Cu. m

Total Graveling = 75.15 Cu. m

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**Health Construction Project**

| | |
|---|---|
| Project code | Uruzgan - 000 - 000 |
| Project | New Construction of Ab Burdah BHC including Wash and other Facilities |
| Drawing Title | Ab Burdah BHC Side Walk and Walk Way Sections With Details |
| Project Location | Tirin Kut City, Uruzgan Province, Afghanistan |

| | Drawn By: | Designed By: | Checked By: | |
|---|---|---|---|---|
| Name | Engr. I Danish | Engr. I Danish | Engr. Amir M | |
| Sign | | | | |
| Date | | | | |

# Uruzgan Ab Burdah BHC Car Way and Parking Sections With Details
S 1:100

## Plan of Car Way

## Plan of Side Walk and Walk Way

## Section (B-B)

PCC M: 200 = 100mm
Compacted Gravel = 50mm
Compacted Soil

Total Area = 270 Sq. m
Total site leveling = 270 Sq. m
Total PCC = 27 Cu. m
Total Graveling = 13.5 Cu. m

## Section (A-A)

PCC M: 200 = 100mm
Compacted Gravel = 50mm
Compacted Soil

Total Area = 832 Sq. m
Total site leveling = 832 Sq. m
Total PCC = 83.2 Cu. m
Total Graveling = 41.6 Cu. m

UNHCR The UN Refugee Agency | Afghanistan — Health Construction Project

| | |
|---|---|
| Project code | Uruzgan - 000 - 000 |
| Project | New Construction of Ab Burdah BHC including Wash and other Facilities |
| Drawing Title | Ab Burdah BHC Car Way and Parking Sections With Details |
| Project Location | Tirin Kut City, Uruzgan Province, Afghanistan |

| | Drawn By: | Designed By: | Checked By: | |
|---|---|---|---|---|
| Name | Engr. I Danish | Engr. I Danish | Engr. Amir M | |
| Sign | | | | |
| Date | | | | |

# Uruzgan Ab Burdah BHC Green Area Sections With Details

S 1:100

## Section (D-D)

Planted Turf Seed/Grass or Trees/Flowers
Agriculture Soil Thickness = 300mm
Excavation Thickness = 300mm
Compacted Soil

Total Area = 2264 Sq. m
Total Excavation = 679.2 Cu. m
Total Agriculture soil = 679.2 Cu.m
Total seed = 1696 Kg/Sq. m
Total Trees and Flowers = 150 N

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**Health Construction Project**

| | |
|---|---|
| Project code | Uruzgan - 000 - 000 |
| Project | New Construction of Ab Burdah BHC including Wash and other Facilities |
| Drawing Title | Ab Burdah BHC Green Area Sections With Details |
| Project Location | Tirin Kut City, Uruzgan Province, Afghanistan |

| | Drawn By: | Designed By: | Checked By: | |
|---|---|---|---|---|
| Name | Engr. I Danish | Engr. I Danish | Engr. Amir M | |
| Sign | | | | |
| Date | | | | |

***ALL DRAWINGS FOR CONSTRUCTION***

# BASIC HEALTH CLINICS WITH THERMAL INSULATION

( ON BASIS OF INTERNATIONAL ORGANIZATION FOR MIGRATION DESIGN)

( IOM )

BaCEAG CONSULTATIVE ENGINEERING
& ARCHITECTURAL GROUP

KABUL AFGHANISTAN

CLIENT

## MINISTRY OF PUBLIC HEALTH
## ISLAMIC REPUBLIC OF AFGHANISTAN

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | **BASIC HEALTH CLINIC ( BHC )** | REVISIONS | | | | | | INITL | SIG. | DATE | **BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN** |
| SCALE | **NTS** | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 | |
| DRAWING NUMBER | **BHC.000** | | | | | | | DESIGNED BY | Ar.M.Saber | | July-2008 | |
| PROJECT NUMBER | | **COVER SHEET** | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 | |
| | | | | | | | | APPROVALS | | | | |
| | | | | | | | | PROJECT MANAGER | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | |


ARCHITECT

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# BHC BUILDING , LIST OF DRAWINGS

## ARCHITECTURAL DRAWINGS

| NO | DWG. # | DWG. NAME | SCALE | REMARKS |
|---|---|---|---|---|
| 1 | BHC.AR-000 | LIST OF DRAWINGS | NTS | |
| 2 | BHC.AR-001 | GROUND FLOOR PLAN | 1 : 100 | |
| 3 | BHC.AR-002 | DOORS AND WINDOWS PLAN | 1 : 100 | |
| 4 | BHC.AR-003 | ROOF PLAN | 1 : 100 | |
| 5 | BHC.AR-004 | FRONT ELEVATION | 1 : 50 | |
| 6 | CHC.AR-005 | SIDE ELEVATION | 1 : 75 | |
| 7 | BHC.AR-006 | SECTION - A : A | 1 : 75 | |
| 8 | BHC.AR-007 | SECTION - B : B | 1 : 75 | |
| 9 | BHC.AR-008 | DETAILS | 1: 50<br>1: 40 1: 30 | |
| 10 | BHC.AR-009 | WALL SECTION | 1: 25 | |
| 11 | BHC.AR-010 | DOOR & WINDOWS DETAILS - 1 | 1:35 | |
| 12 | BHC.AR-011 | DOOR & WINDOWS DETAILS - 2 | 1:35 | |
| 13 | BHC.AR-012 | DETAIL FOR CONNECTION OF PROTECTION WALL | 1:25 | |
| | | **BHC GUARD ROOM** | | |
| 14 | BHC.AR-012A | GUARD ROOM FLOOR PLAN | 1:50 | |
| 15 | BHC.AR-013 | GUARD ROOM ELEVATION | 1:25 | |
| | | **GENERATOR ROOM** | | |
| 16 | BHC.AR-014 | GENERATOR ROOM | 1:40 | |
| 17 | BHC.AR-015 | GENERATOR ROOM SECTOIN & ELEVATION | 1:40<br>1:25 1:50 | |
| | | **LATRINE** | | |
| 18 | BHC.AR-016 | LATRINE PLAN & ELEVATION | 1:50 | |
| 19 | BHC.AR-017 | LATRINE SECTION | 1:40 1:25 | |
| 20 | BHC.AR-018 | LATRINE DOOR & WINDOWS SCHEDULE | 1:50 | |
| 21 | | Canceled | | |
| 22 | BHC.AR-020 | MAIN GATE ELEVATION | 1:30 | |
| 23 | BHC.AR-021 | GATE PLAN | 1:20 | |
| 24 | BHC.AR-022 | BOUNDARY WALL JOINT PLAN & SECTION | 1:10 1:15 | |
| 25 | BHC.AR-023 | BOUNDARY WALL ELEVATION | 1:30 | |

## STRUCTURE DRAWINGS

| NO | DWG. # | DWG. NAME | SCALE | REMARKS |
|---|---|---|---|---|
| 26 | BHC.ST-001 | GENERAL NOTES | NTS | |
| 27 | BHC.ST-002 | FOUNDATION PLAN | 1 : 75 | |
| 28 | BHC.ST-003 | SECTION FOR WALL FOUNDATION | 1 : 25 | |
| 34 | BHC.ST-004 | SLAB FORM WORK PLAN | 1 : 75 | |
| 35 | BHC.ST-005 | SLAB REINFORCEMENT PLAN | 1 : 75 | |
| 36 | BHC.ST-006 | SLAB STEEL BARS & DETAIL - Y | 1 : 50,1:25 | |
| 37 | BHC.ST-007 | COLUMNS AND FOOTING | 1 : 50,1:20 | |
| 38 | BHC.ST-008 | FRAME # 1 | 1 : 50 | |
| 39 | BHC.ST-009 | SECTIONS FOR FRAME # 1 | 1:25 | |
| 40 | BHC.ST-010 | FRAME # 2 | 1:50 | |
| 41 | BHC.ST-011 | SECTIONS FOR FRAME # 2 | 1:25 | |
| 42 | BHC.ST-012 | FRAME # 3 & SECTIONS | 1 : 50,1:25 | |
| 43 | BHC.ST-013 | FRAME # 4 & SECTIONS | 1 : 50,1:25 | |
| 44 | BHC.ST-014 | WALL CONNECTION DETAILS | 1 : 20 | |
| 45 | BHC.ST-015 | STEEL BARS SCHEDULE | NTS | |
| 46 | BHC.ST-016 | STEEL BARS SCHEDULE | NTS | |
| | | **BHC GUARD ROOM** | | |
| 47 | BHC.ST-017 | GUARD ROOM FOUNDATION PLAN | 1 : 75 ,1:25 | |
| 48 | BHC.ST-018 | GUARD ROOM FORM WORK PLAN | 1 : 75 ,1:25 | |
| 49 | BHC.ST-019 | GUARD ROOM SLAB REINFORCEMENT PLAN | 1 : 75 ,1:25 | |
| | | **LATRINE** | | |
| 50 | BHC.ST-020 | LATRINE FORM WORK PLAN | 1 : 40,1 : 25 | |
| 51 | BHC.ST-021 | LATRINE SECTION FOR WALL & FOUNDATION PLAN | 1 : 25 | |
| 52 | BHC.ST-022 | LATRINE SLAB REINFORCEMENT PLAN | 1 : 75 | |
| | | **GENERATOR** | | |
| 53 | BHC.ST-023 | GENERATOR FOUNDATION & SLAB REINFORCEMENT PLAN | 1 :40, 1:25 | |

## ELECTRICAL DRAWINGS

| NO | DWG. # | DWG. NAME | SCALE | REMARKS |
|---|---|---|---|---|
| 54 | BHC.EL-001 | ELECT LIGHTING PLAN | NTS | |
| 55 | BCH.EL-002 | FAN INSTALATION PLAN | NTS | |
| 56 | BHC.EL-003 | POWER PLAN | 1 : 75 | |
| 57 | BHC.EL-004 | ELECT. GROUNDING PLAN | 1 : 75 | |
| 58 | BHC.EL-005 | CONDUIT & JUNCTION BOX INSTALLATION PLAN | NTS | |
| 59 | BCH.EL-006 | GUARD ROOM WIRING PLAN | NTS | |
| 60 | BCH.EL-007 | GENERATOR ROOM LIGHTING PLAN | NTS | |
| 61 | BCH.EL-008 | GENERATOR ROOM POWER PLAN | NTS | |
| 62 | BCH.EL-009 | POWER OUT LET INSTALATION & GROUNDING DETAILS | NTS | |
| 63 | BCH.EL-010 | ELECTRICAL LEGEND & LOAD DISTRIBUTION PLAN | NTS | |
| | | **MECHNICAL DRAWINGS** | | |
| 65 | BHC.WA-001 | GROUND FLOOR COLD WATER SYSTM | 1 : 75 | |
| 66 | BHC.WA-002 | DRINAGE SYSTEM PLAN | 1 : 75 | |
| 67 | BHC.WA-003 | HOT WATER SYSTEM | 1 : 75 | |
| | | **SEPTIC TANK** | | |
| 68 | BHC.WA-004 | SEPTIC TANK PLAN & SECTION | 1 : 75 | |
| 69 | BHC.WA-005 | WATER TANK | 1:40 | |
| 70 | BHC.WA-006 | GROUND FLOOR ISO. SYSTEM SCHEME | 1:75 | |
| 71 | BHC.WA-007 | DETAILS | NTS | |
| 72 | BHC.WA-008 | GROUND FLOOR ISO. WATER SUPPLY SCHEME | NTS | |

| | |
|---|---|
| CAD FILE | |
| SCALE | NTS |
| DRAWING NUMBER | BHC.000 |
| PROJECT NUMBER | |

**BASIC HEALTH CLINIC ( BHC )**

INDEX SHEET

REVISIONS

| NO. | REVISION | NAME | INITL. | DATE |
|---|---|---|---|---|
| | | | | |

| | INITL | SIG. | DATE |
|---|---|---|---|
| PRODUCED BY | BaCEAG | | July-2008 |
| DESIGNED BY | Ar.M.Saber | | July-2008 |
| CHECKED BY | Eng.A.Karim | | July-2008 |
| APPROVALS | | | |
| PROJECT MANAGER | | | |
| PROJECT DIRECTOR | | | |

**BASIC HEALTH CLINIC ( BHC )**

**KABUL - AFGHANISTAN**


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# 1 DOOR & WINDOWS PLAN
## SCALE =1/100

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | 1:100 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 |
| DRAWING NUMBER | BHC.AR-002 | DOOR & WINDOWS PLAN | | | | | | DESIGNED BY | Ar.M.Saber | | July-2008 |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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# 1 GROUND FLOOR
## SCALE =1/100

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | | | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: bacoag@yahoo.com Mobile: 0799 335 666 , 0799 384 476 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | 1:100 | | NO. | REVISION | NAME | INITL. | DATE | | INITL | SIG. | DATE | | | | |
| DRAWING NUMBER | BHC.AR-001 | GROUND FLOOR PLAN | | | | | | PRODUCED BY | BaCEAG | | July-2008 | | | | |
| PROJECT NUMBER | | | | | | | | DESIGNED BY | Ar.M.Saber | | July-2008 | | | | |
| | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 | | | | |
| | | | | | | | | APPROVALS | | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | | |

**Note: Roof truss are not included in the all portions of this project**

# 1 ROOF PLAN
## SCALE =1/100

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | 1:100 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 |
| DRAWING NUMBER | BHC.AR-003 | | | | | | | DESIGNED BY | Ar.M.Saber | | July-2008 |
| PROJECT NUMBER | | ROOF PLAN | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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# 1 FRONT ELEVATION
## SCALE =1/50

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0799 335 665 , 0799 304 476 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | 1:50 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 | | | |
| DRAWING NUMBER | BHC.AR-004 | FRONT ELEVATION | | | | | | DESIGNED BY | Ar.M.Saber | | July-2008 | | | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 | | | |
| | | | | | | | | APPROVALS | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | |

# 1 SECTION (A-A)
## SCALE =1/75

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0799 335 666 , 0799 304 476 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | 1:75 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 | | | |
| DRAWING NUMBER | BHC.AR-006 | SECTION A-A | | | | | | DESIGNED BY | Ar.M.Saber | | July-2008 | | | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 | | | |
| | | | | | | | | APPROVALS | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | |

# 1 SECTION (B-B)
## SCALE =1/75

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | 1:75 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July–2008 |
| DRAWING NUMBER | BHC.AR-007 | SECTION B-B | | | | | | DESIGNED BY | Ar.M.Saber | | July–2008 |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July–2008 |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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# 1 SIDE ELEVATION
## SCALE =1/75

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0799 335 666 , 0799 304 476 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | 1:75 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 | | | | |
| DRAWING NUMBER | BHC.AR-005 | SIDE ELEVATION | | | | | | DESIGNED BY | Ar.M.Saber | | July-2008 | | | | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 | | | | |
| | | | | | | | | APPROVALS | | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | | |

CHIMNEY DETAIL UNDER CEILING

D # 5

**Details #1**
**Windows Installation**

**Detail # 4**
**Middle Column**

**Detail # 3**
**Corner Column**

**Detail # 1**
**Connection Steel Bars Structure**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0700 285 688 , 0700 284 470 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | 1:50 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 | | | |
| DRAWING NUMBER | BHC.AR-012 | Details for conection of protectoin Wall and steel bars | | | | | | DESIGNED BY | Ar.M.Saber | | July-2008 | | | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 | | | |
| | | | | | | | | APPROVALS | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | |

D - 1

## 1 DETAIL - A
## SCALE =1/40

## 2 DETAIL - B
## SCALE =1/40

D - 2

## 3 DETAIL #5 ( WATER TANK STOCK); V=300GL.
## SCALE =1/50

## 4 DETAIL # 4 HAND RAIL OF ENTERANCE RAMP
## SCALE =1/30

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | 1:50, 1:40, 1:30 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July–2008 |
| DRAWING NUMBER | BHC.AR-008 | Details | | | | | | DESIGNED BY | Ar.M.Saber | | July–2008 |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July–2008 |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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Mobile: 0799 335 666 , 0799 304 476

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AFGHANISTAN

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| CODE | STRUCTURAL OPEN W | STRUCTURAL OPEN H | NO | SPECS. | DIMENSION |
|---|---|---|---|---|---|
| D4 | 261 | 285 | 1 | *P.V.C FRAME<br>*FIXED WINDOW<br>*P.V.C DOOR<br>* 5mm. THICK. DOUBLE GLASS LIGHTING PANEL<br>*DOOR HOLDERS | |



| CODE | STRUCTURAL OPEN W | STRUCTURAL OPEN H | NO | SPECS. | DIMENSION |
|---|---|---|---|---|---|
| W1 | 100 | 185 | 26 | *P.V.C FRAME<br>*FIXED WINDOWS<br>*OPEN WINDOW<br>*5mm. DOUBLE GLASS | |



| CODE | STRUCTURAL OPEN W | STRUCTURAL OPEN H | NO | SPECS. | DIMENSION |
|---|---|---|---|---|---|
| W2 | 120 | 185 | 1 | *P.V.C FRAME<br>*FIXED WINDOWS<br>*OPEN WINDOW<br>*5mm. DOUBLE GLASS | |



| CODE | STRUCTURAL OPEN W | STRUCTURAL OPEN H | NO | SPECS. | DIMENSION |
|---|---|---|---|---|---|
| W3 | 100 | 60 | 1 | *P.V.C FRAME<br>*OPEN WINDOW<br>*5mm THICK. DOUBLE GLASS | |



| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | 1:35 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 |
| DRAWING NUMBER | BHC.AR-011 | | | | | | | DESIGNED BY | Ar.M.Saber | | July-2008 |
| PROJECT NUMBER | | DOOR & WINDOWS DETAILS 2 | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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| CODE | STRUCTURAL OPEN W | STRUCTURAL OPEN H | NO | SPECS. | DIMENSION |
|---|---|---|---|---|---|
| D1 | 100 | 285 | 9 | *P.V.C FRAME<br>*P.V.C DOOR<br>*5mm THICK. DOUBLE GLASS LIGHTING PANEL<br>*DOOR HOLDER | |



| CODE | STRUCTURAL OPEN W | STRUCTURAL OPEN H | NO | SPECS. | DIMENSION |
|---|---|---|---|---|---|
| D2 | 80 | 285 | 1 | *P.V.C FRAME<br>*P.V.C DOOR<br>*5mm THICK. DOUBLE GLASS LIGHTING PANEL<br>*DOOR HOLDER | |



| CODE | STRUCTURAL OPEN W | STRUCTURAL OPEN H | NO | SPECS. | DIMENSION |
|---|---|---|---|---|---|
| | | | | | |

| CODE | STRUCTURAL OPEN W | STRUCTURAL OPEN H | NO | SPECS. | DIMENSION |
|---|---|---|---|---|---|
| D5 | 291 | 285 | 1 | *P.V.C FRAME<br>*FIXED WINDOW<br>*P.V.C DOOR<br>* 5mm. THICK. DOUBLE GALSS LIGHTING PANEL<br>*DOOR HOLDERS | |



| | |
|---|---|
| CAD FILE | |
| SCALE | 1:35 |
| DRAWING NUMBER | BHC.AR-010 |
| PROJECT NUMBER | |

**BASIC HEALTH CLINIC ( BHC )**

**DOORS DETAILS 1**

REVISIONS

| NO. | REVISION | NAME | INITL. | DATE |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| | INITL | SIG. | DATE |
|---|---|---|---|
| PRODUCED BY | BaCEAG | | July-2008 |
| DESIGNED BY | Ar.M.Saber | | July-2008 |
| CHECKED BY | Eng.A.Karim | | July-2008 |
| APPROVALS | | | |
| PROJECT MANAGER | | | |
| PROJECT DIRECTOR | | | |

**BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN**

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3 DETAIL FOR WALL SECTION.
SCALE =1/25

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | 1:25 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 |
| DRAWING NUMBER | BHC.AR-009 | | | | | | | DESIGNED BY | Ar.M.Saber | | July-2008 |
| PROJECT NUMBER | | WALL SECTION | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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**ELECTRIC-POWER PLAN**
**SCALE = 1:75**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | **BASIC HEALTH CLINIC ( BHC )** | REVISIONS | | | | | INITL | SIG. | DATE | **BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN** | ARCHITECT **BaCEAG** CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0799 335 666 , 0799 364 476 | CLIENT **MINISTRY OF PUBLIC HEALTH AFGHANISTAN** | RECIPIENT |
| SCALE | 1:75 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 | | | |
| DRAWING NUMBER | BHC.EL-003 | POWER PLAN | | | | | | DESIGNED BY | Eng.M.Anwar | | July-2008 | | | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 | | | |
| | | | | | | | | APPROVALS | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | |

① ELECT-LIGHTING PLAN
SCALE = NTS

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | NTS | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 |
| DRAWING NUMBER | BHC.EL-001 | | | | | | | DESIGNED BY | Eng.M.Anwar | | July-2008 |
| | | ELEC, LIGHTING PLAN | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 |
| PROJECT NUMBER | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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ELECTRIC-GROUNDING PLAN
SCALE = 1:75

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | 1:75 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 |
| DRAWING NUMBER | BHC.EL-004 | | | | | | | DESIGNED BY | Eng.M.Anwar | | July-2008 |
| PROJECT NUMBER | | ELEC. GROUNDING PLAN | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
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① **FAN INSTALLATION PLAN**
**SCALE = NTS**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | **BASIC HEALTH CLINIC ( BHC )** | REVISIONS | | | | | INITL | SIG. | DATE | **BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN** | ARCHITECT **BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP** Email: baceag@yahoo.com Mobile: 0799 335 668 , 0799 384 476 | CLIENT **MINISTRY OF PUBLIC HEALTH AFGHANISTAN** | RECIPIENT |
| SCALE | NTS | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July–2008 | | | |
| DRAWING NUMBER | BHC.EL-002 | FAN INSTALATION PLAN | | | | | | DESIGNED BY | Eng.M.Anwar | | July–2008 | | | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July–2008 | | | |
| | | | | | | | | APPROVALS | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | |

## POWER OUTLET INSTALLATION AND GROUNDING DETAIL

1 SCALE = NTS

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | NTS | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July–2008 |
| DRAWING NUMBER | BHC.EL-009 | POWER OUTLET INSTALTION & GROUNDING DETAILS | | | | | | DESIGNED BY | Eng.M.Anwar | | July–2008 |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July–2008 |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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**CONDUIT AND JUNCTION BOXES INSTALLATION PLAN**
**SCALE = NTS**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | NTS | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 |
| DRAWING NUMBER | BHC.EL-005 | CONDUIT & JUNCTION BOXES INSTALATION PLAN | | | | | | DESIGNED BY | Eng.M.Anwar | | July-2008 |
| | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 |
| PROJECT NUMBER | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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## POWER AND LIGHTING LEGEND

PANEL BOARD NAME PB
PANEL BOARD TYPE MAIN SWITCH
PANEL BOARD LOCATION GROUND FLOOR

| C.B. No. | CONDUIT SIZE | TRIP AMP. | MAX. CURRENT | WIRE SIZE | LOCATION | LOAD SERVED | LOAD V.A | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | V.A | PHASE |
| P2/C2 | Ø20mm | 20 | 12.27 | 3(1X2.5mm²) | R3-R7 | SOCKETS | 2700 | A |
| P1/C1 | Ø20mm | 20 | 12 | 3(1X2.5mm²) | R1,R2,R8 - R10 | SOCKETS | 2640 | A |
| SP1/C1 | Ø25mm | 20 | 9.1 | 3(1X4mm²) | ROOM ≠ 5 | S - SOCKETS | 2000 | A |
| SPARE | | | | | | | 1500 | A |
| L1/C1 | Ø20mm | 15 | 8.36 | 2(1X2.5mm²) | R3-R7 | LAMPS | 1840 | B |
| SP2/C2 | Ø25mm | 20 | 18.2 | 3(1X4mm²) | ROOM ≠ 6 | S - SOCKETS | 4000 | B |
| SP4/C4 | Ø25mm | 20 | 9.1 | 3(1X4mm²) | TOILET | S - SOCKETS | 2000 | B |
| SPARE | | | | | | | 1500 | B |
| L2/C2 | Ø20mm | 15 | 7.63 | 2(1X2.5mm²) | R1,R2,R8 - R10 | LAMPS | 1680 | C |
| FP1/C1 | Ø20mm | 15 | 8 | 2(1X2.5mm²) | ALL ROOMS | FANS | 1760 | C |
| SP3/C3 | Ø25mm | 20 | 18.3 | 3(1X4mm²) | ROOM ≠ 6 | S - SOCKETS | 4000 | C |
| SPARE | | | | | | | 1500 | C |

TOTAL LOAD IN (PB) = 22.62KVA
PHASE BALANCE A=7340 B=7840VA C= 7440VA

SPARE LOAD 20% = 4.5KVA
PHASE BALANCE A= 1500A B= 1500VA C=1500VA

1 ELECTRICAL LEGEND AND LOAD DISTRIBUTION PLAN
SCALE = NTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE |
| SCALE | NTS | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | July-2008 |
| DRAWING NUMBER | BHC.EL-010 | ELECTRICAL LEGEND & LOAD DISTRIBUTION PLAN | | | | | | DESIGNED BY | Eng.M.Anwar | July-2008 |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | July-2008 |
| | | | | | | | | APPROVALS | | |
| | | | | | | | | PROJECT MANAGER | | |
| | | | | | | | | PROJECT DIRECTOR | | |

BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN

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SLAB FORMWORK

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0700 326 000 , 0700 304 476 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | 1:75 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 | | | | |
| DRAWING NUMBER | BHC.ST-004 | SLAB FORM WORK PLAN | | | | | | DESIGNED BY | Eng.Muradi | | July-2008 | | | | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 | | | | |
| | | | | | | | | APPROVALS | | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | | |

## SLAB REINFORCEMENT PLAN

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL. | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0700 305 000 , 0700 304 470 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | 1:75 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July–2008 | | | |
| DRAWING NUMBER | BHC.ST-005 | SLAB REINFORCEMENT PLAN | | | | | | DESIGNED BY | Eng.Muradi | | July–2008 | | | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July–2008 | | | |
| | | | | | | | | APPROVALS | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | |

# Frame -4 (3Num.)

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | 1;50,1:25 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July–2008 |
| DRAWING NUMBER | BHC.ST-013 | FRAME - 4 & SECTIONS | | | | | | DESIGNED BY | Eng.Muradi | | July–2008 |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July–2008 |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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# Frame -1 (2Num.)

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0700 300 000 , 0700 304 470 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | 1:50 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July–2008 | | | | |
| DRAWING NUMBER | BHC.ST-008 | FRAME - 1 REINFORCEMENT | | | | | | DESIGNED BY | Eng.Muradi | | July–2008 | | | | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July–2008 | | | | |
| | | | | | | | | APPROVALS | | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | | |

## Corner Column Detail

## Connection Steel Bars Structure Detail

## Middle Column Detail

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | 1:20 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July–2008 |
| DRAWING NUMBER | BHC.ST-014 | | | | | | | DESIGNED BY | Eng.Muradi | | July–2008 |
| PROJECT NUMBER | | WALL CONNECTION DETAILS | | | | | | CHECKED BY | Eng.A.Karim | | July–2008 |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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# Frame -3 (2Num.)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL. | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0700 285 088 , 0700 284 476 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | 1;50,1:25 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | July-2008 | | | | |
| DRAWING NUMBER | BHC.ST-012 | FRAME - 3 & SECTIONS | | | | | | DESIGNED BY | Eng.Muradi | July-2008 | | | | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | July-2008 | | | | |
| | | | | | | | | APPROVALS | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | |

5

Sec. 1-1

5

Sec. 2-2

5

Sec. 3 - 3

5

Sec. 7 - 7

5

Sec. 8 - 8

5

Sec. 9 - 9

5

Sec. 4 - 4

5

Sec. 5 - 5

5

Sec. 6 - 6

5

Sec. 10 - 10

5

Sec. 11 - 11

5

Sec. 12 - 12

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | 1:25 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July–2008 |
| DRAWING NUMBER | BHC.ST-009 | | | | | | | DESIGNED BY | Eng.Muradi | | July–2008 |
| PROJECT NUMBER | | SECTION FOR FRAME - 1 | | | | | | CHECKED BY | Eng.A.Karim | | July–2008 |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
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# Frame - 2 (2Num.)

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | | | | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0700 285 600 , 0700 284 470 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | 1:50 | | NO. | REVISION | NAME | INITL. | DATE | | INITL. | SIG. | DATE | | | |
| DRAWING NUMBER | BHC.ST-010 | FRAME - 2 REINFORCEMENT | | | | | | PRODUCED BY | BaCEAG | | July-2008 | | | |
| PROJECT NUMBER | | | | | | | | DESIGNED BY | Eng.Muradi | | July-2008 | | | |
| | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 | | | |
| | | | | | | | | APPROVALS | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | |

Sec. 1 - 1

Sec. 2 - 2

Sec. 3 - 3

Sec. 7 - 7

Sec. 8 - 8

Sec. 9 - 9

Sec. 4 - 4

Sec. 5 - 5

Sec. 6 - 6

Sec. 10 - 10

Sec. 11 - 11

Sec. 12 - 12

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | | | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0700 285 880 , 0700 284 470 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | 1:25 | | NO. | REVISION | NAME | INITL. | DATE | | INITL | SIG. | DATE | | | | |
| DRAWING NUMBER | BHC.ST-011 | SECTION FOR FRAME - 2 | | | | | | PRODUCED BY | BaCEAG | | July-2008 | | | | |
| PROJECT NUMBER | | | | | | | | DESIGNED BY | Eng.Muradi | | July-2008 | | | | |
| | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 | | | | |
| | | | | | | | | APPROVALS | | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | | |

## FOUNDATION PLAN

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0700 300 000 , 0700 304 475 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | 1:75 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July–2008 | | | |
| DRAWING NUMBER | BHC.ST-002 | FOUNDATION PLAN | | | | | | DESIGNED BY | Eng.Muradi | | July–2008 | | | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July–2008 | | | |
| | | | | | | | | APPROVALS | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | |

COLUMN -1 REINFORCEMENT

COLUMN -2 REINFORCEMENT

**Footing No-1**

**Footing No-2**

## Sec. for Columns

(Ø10mm,L=128cm
@20cm c/c)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | 1:50 ,1:20 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 | |
| DRAWING NUMBER | BHC.ST-007 | COLUMNS REINFORCEMENT | | | | | | DESIGNED BY | Eng.Muradi | | July-2008 | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 | |
| | | | | | | | | APPROVALS | | | | |
| | | | | | | | | PROJECT MANAGER | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | |

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## Sec.a-a

A

## Sec.b-b

B

## Sec. for G.L.R.B-1

## Sec. for G.L.R.B-2

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | 1:25 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | July-2008 | |
| DRAWING NUMBER | BHC.ST-003 | SECTION FOR WALL & FOUNDATION | | | | | | DESIGNED BY | Eng.Muradi | July-2008 | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | July-2008 | |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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## Detail - Y

## Detail - X

## STEEL BAR OF SLABS

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0799 385 655 , 0799 394 479 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | 1:25,1:50 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 | | | |
| DRAWING NUMBER | BHC.ST-006 | SLAB STEEL BARS DETAIL - Y | | | | | | DESIGNED BY | Eng.Muradi | | July-2008 | | | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 | | | |
| | | | | | | | | APPROVALS | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | |

Plan of Maine Gate RCC
Colume and Footing

SEC-A-A

# GENERAL NOTES

## 1. SYSTEM OF UNITS

a. ALL DIMENSIONS, SPACING ETC. ARE IN CENTIMETER
b. ALL ELEVATIONS ARE IN CENTIMETER

## 2. CONCRETE

a– MINIMUM COMPRESSIVE CUBE STRENGTH AT 28 DAYS OF ALL RE–INFORCED CONCRETE SHALL M250 FOR COLUMNS & FOUNDATION UNLESS OTHERWISE NOTED ON THE DRAWING,M200 FOR ALL OTHER MEMBERS OF STRUCTURE.

B– MINIMUM COMPRESSIVE CUBE STRENGTH AT 28 DAYS OF ALL BLINDING CONCRETE SHALL BE M100.

UNLESS OTHERWISE NOTED ON THE DRAWING.

## 3. REINFORCING STEEL

a– ALL REINFORCING STEEL FOR REINFORCED CONCRETE SHALL BE EITHER HOT ROLLED CONFORMING TO ASTM AII GRADE OR COLD WORKED STEEL CONFORMING TO AI WITH A MINIMUM PROOF STRESS OF 2700kG/cm2.

b– ALL LAP LENGTHS AND DEVELOPMENT LENGTHS OF REINFORCING BARS SHALL BE ACCORDING TO BS CODE.

c– MOLDING SHALL BE TIED TO EXTERNAL MASONRY WALLS WITH 1CMø TIES EVERY 60cm HORIZONTALLY AND VERTICALLY.(2700Kg/cm$^2$)

d– THE SHEAR REINFORCEMENT) IN ALL BEAMS/COLUMNS SHALL BE 2700kg/cm$^2$

## 4. CONCRETE PROTECTION TO REINFORCEMENT

MINIMUM CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS FOLLOW UNLESS OTHERWISE SPECIFIED ON THE DRAWING.

| STRUCTURAL ELEMENT | COVER |
|---|---|
| FOOTING | 7cm |
| SLABS,WALLS | 2cm |
| COLUMNS & BEAMS | 3cm |

TYPICAL BOTTOM BAR ARRANGEMENT DETAILS FOR SLAB

TYPICAL TOP BAR ARRANGEMENT DETAILS FOR SLAB (BOTH WAYS)

## 5. AGGREGATE SIZE

MAXIMUM AGGREGATE SIZE SHALL BE AS FOLLOW UNLESS OTHERWISE APPROVED BY THE ENGINEER.

| STRUCTURAL ELEMENT | MAX. AGGREGATE SIZE |
|---|---|
| RAFT | 7cm |
| SLABS,WALLS | 2cm |
| COLUMNS & BEAMS | 2cm |

## 6. LEVELS

THE LEVELS SHOWN ON STRUCTURAL DRAWINGS ARE STRUCTURAL FLOOR LEVELS. COORDINATE LEVELS WITH ARCHITECTURAL DRAWINGS

## 7. CONSTRUCTION JOINT

CONSTRUCTION JOINT SHALL GENERALLY BE FOLLO–WED AS INDICATED ON THE DRAWING THE CONTRACTOR WILL USE CONSTRUCTION JOINTS ARRA–NGEMENT TO SUIT HIS REQUIREMENT WITH PRIOR APP–ROYAL OF THE ENGINEER. FOR THIS PURPOSE THE CONTRACTOR SHALL HAVE TO SUBMIT HIS PROPOSAL FOR THE APPROVAL OF THE ENGINEERS SUFFICIENTLY IN ADVANCE OF HIS SCHEDULED POURING DATE. ALL CONSTRUCTION JOINTS SHALL BE TREATED AS PER SPECIFICATIONS DIFFERENTIAL HEIGHT IN CONSTRUCTION SHALL NOT EXCEED 40 m.

## 8. TOP & BOTTOM REINFORCEMENT IN BEAM & RAFT

CUT LENGTH FOR TOP REINFORCEMENT SHOULD BE L/3 AND FOR BOTTOM REINFORCEMENT SHALL BE L/8 FROM SUPPORT FACE WHERE L IS CLEAR SPAN.
OR AS SHOWN IN THE DRAWINGS.

## 9. LOCAL ADJUSTMENT

LOCAL ADJUSTMENT TO ACCOMMODATE FIXTURUES/E–MBEDMENTS OPENINGS MAY BE MADE AT SITE BUT SUBJECT TO THE APPROVAL OF THE ENGINEER, AS LO–NG AS IT WOULD NOT MATERIALLY EFFECT THE DESIGN.

## 10. TOLERANCES AND DIMENSIONS

BEFORE THE FORM WORK IS LAID AT SITE THE CONTRACTOR MUST VERIFY AND CHECK OVERALL DIMENSIONS OF THE ST–RECTOR GIVEN IN THE STRUCTURAL DRAWINGS TO SEE IF THE FINISHED DIMENSION ELEVATION GIVEN ON THE DRAWING TALLY AFTER PROVIDING THE REQUIRED FINISH ENGINEER REPRESEN–DATIVE SHALL VERIFY THE MEASUREMENT OF STRUCTURAL SIZES AND ELEVATION BE RECORDED IN RELEVANT POUR STEPS TO BE PUT UP BY THE CONTRACTOR AND TO BE APPROVED BY THE ENGINEER BEFORE EXECUTION PERMISSION TO PROCEED, SHALL NOT BE GRANTED IF DEVIATIONS ARE MORE THAN PERMISSIBLE TOLERANCES.

## 11. TYPICAL SLAB REINFORCEMENT DETAIL

ALL SLAB CORNERS WITH MAIN SPANS ABOVE 6m SHALL HAVE EXTRA REINFORCEMENT AS INDICATED–3/4 OF MAIN REINFORCEMENT) WHERE L= LONGER SPAN

NOTE–11, FOR SLAB

# DETAILING OF REINFORCEMENT

## 1. EMBODIMENT LENGTHS

UNLESS OTHERWISE STATED ON THE DRAWINGS, THE FO–LOWING EMBODIMENT LENGTHS SHALL BE PROVIDED.

| BAR SIZE / CONCRETE STRENGTH | EMBODIMENT LENGTH IN centimeter | | | | | |
|---|---|---|---|---|---|---|
| | ø8 | N10 | N12 | N14 | N16 | N18 |
| 250kg/cm2 | 20d | 20d | 25d | 30d | 35d | 40d |

## 2. SPACING

THE FIRST AND LAST BARS IN WALLS,SLABS,STIRRUPS IN BEAMS AND TIES IN COLUMNS SHOULD START AND END AT A MAXIMUM OF ONE HALF ADJACENT BAR SPACING.

## 3. ACCESSORIES

BAR SUPPORTS,SPACERS AND OTHER ACCESSORIES ARE NOT SHOWN ON THE DRAWING, THE RECOMMENDATION OF ACI,BS OR OTHER SUPPORTING SYSTEM AS APPROVED BY THE ENGINEER MAY BE USED(SPACERS TO BE #3@20cm c/c & NOT TO BE PROVIDED IN THE AREA WHERE NEGATIVE REINFORCEMENT EXISTS).

## 4. LAP LENGTH

UNLESS OTHERWISE STATED ON THE DRAWING FOLLOWING LAP LENGTHS SHALL BE PROVIDED.

| BAR SIZE / CONCRETE STRENGTH | LAP LENGTHS IN centimeter | | | | | |
|---|---|---|---|---|---|---|
| | ø8 | N10 | N12 | N14 | N16 | N18 |
| 250kg/cm | 25d | 30d | 35d | 35d | 40d | 40d |

EXCEPT WHEN OTHERWISE SHOWN ON THE DRAWING, WHENEVER REINFORCING BARS OF DIFFERENT SIZES ARE TO BE SPLICED,LAP LENGTH SHALL BE GOVERNED BY THE SMALLER TO THE TWO BARS.

## NOTE:-

THE BEARING CAPACITY OF SOIL AS PER SOIL INVESTIGATION REPORT IS TAKEN AS ( 1.35 ) kg/sq–centimeter

NOTE–8 FOR BEAM / RAFT
TYPICAL SPACES FOR STIRRUP

# THERMAL INSULATION WORKS:-

## ROOF:-

BEFORE TO FIXED THE GLASS WOOL ON SLAB. THE SLAB SHOULD BE CLEANED .
THE GLASS WOOL SHOULD BE 10CM THICK WITH ALUMINUM SHEET.
THE ALUMINUM LAYER SHOULD BE FACED ON CONCRETE SURFACE.
UNDER THE GUTTER (ON TOP OF OVER HANG) BOTH SIDE OF THE BUILDING SHOULD BE USE EPS 30KG/M3.
THE EPS SHOULD BE PRE INSTALLED ON TOP OF RCC SLAB ACCORDING TO THE DETAILS.

## WALL:-

THE EXTERIOR WALLS CONTAIN AS BELOW:
MAIN BRICK WALL 35CM
POLYSTYRENE SHEET 5CM THICK
AIR GAP 1CM
THE THICKNESS OF PROTECTION BRICK WALL SHOULD BE 11CM .
JUNCTION OF THE WALL SHOULD BE AT EVERY EACH 1M HEIGHT BETWEEN PROTECTION WALL AND MAIN 35CM BRICK WALL ( SEE DETAILS )

## OPENING:-

THE AIR GAP SHOULD BE 1CM BETWEEN THE POLYSTYRENE SHEET (EPS) AND PROTECTION BRICK WALL.

## WINDOWS AND DOORS :-

ALL EXTERNAL WINDOWS AND EXTERNAL DOORS SHOULD BE DOUBLE GLASS AND PROPERLY SEALED WITH SILICON.

## NOTE:-

THE POLYSTYRENE SHEET FOR THE WALL IS WITH 5CM THICK AND 15KG/M3 DENSITY.
THE POLYSTYRENE UNDER GI SHEET ON RCC SLAB SHOULD BE 10CM THICK IN TWO OVERLAP LAYERS WITH ( 20–30 ) Kg/m3.
GLASS WOOL ON THE TOP OF RCC SLAB UNDER GI SHEET SHOULD BE 10CM THICK
VAPOR BARRIER ( ALUMINUM SHEET ) WILL TAKE PLACE ON RCC SLAB.
RCC FRAME ON EXTERNAL WALLS SHOULD BE ACCORDING TO ENGINEERING DRAWING AND POLYSTYRENE SHOULD BE PRE INSTALLED IN THE CONCRETE FRAME AS PER DETAILS.

TYPICAL COLUMN REINFORCEMENT DETAIL

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | | | | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0799 385 699 , 0799 304 470 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | NTS | | NO. | REVISION | NAME | INITL. | DATE | | INITL | SIG. | DATE | | | |
| DRAWING NUMBER | BHC.ST-001 | GENERAL NOTES | | | | | | PRODUCED BY | BaCEAG | | July–2008 | | | |
| PROJECT NUMBER | | | | | | | | DESIGNED BY | Eng.Muradi | | July–2008 | | | |
| | | | | | | | | CHECKED BY | Eng.A.Karim | | July–2008 | | | |
| | | | | | | | | APPROVALS | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | |

# Calculation of steel for Frames of Basic Health Clinic

SCHEDULE OF BARS

| S. No | Description | length | Diameter of Item (mm) | Number of bars | Number of Item | Total length | Ø6 | Ø10 | Ø12 | Ø14 | Ø16 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Length (m) | Length (m) | Length (m) | Length (m) | Length (m) |
| 1 | *Frame-1&2* | 11.25 | 16 | 3 | 4 | 135 | | | | | 135.00 |
| 2 | | 7.20 | 16 | 3 | 4 | 86.40 | | | | | 86.40 |
| 3 | | 1.70 | 16 | 2 | 4 | 13.60 | | | | | 13.60 |
| 4 | | 2.45 | 16 | 4 | 4 | 39.20 | | | | | 39.20 |
| 5 | | 3.20 | 16 | 6 | 4 | 76.80 | | | | | 76.80 |
| 6 | | 1.75 | 16 | 3 | 4 | 21.00 | | | | | 21.00 |
| 7 | | 6.95 | 16 | 2 | 4 | 55.60 | | | | | 55.60 |
| 8 | | 3.45 | 16 | 2 | 4 | 27.60 | | | | | 27.60 |
| 9 | | 8.05 | 16 | 4 | 4 | 128.80 | | | | | 128.80 |
| 10 | | 2.45 | 16 | 1 | 4 | 9.80 | | | | | 9.80 |
| 11 | | 10.10 | 16 | 4 | 4 | 161.60 | | | | | 161.60 |
| 12 | | 8.40 | 16 | 2 | 4 | 67.20 | | | | | 67.20 |
| a | | 1.85 | 10 | 121 | 4 | 895.40 | | 895.4 | | | |
| | Frame 3 &4 | | | | | | | | | | 0.00 |
| 1 | | 7.15 | 16 | 3 | 5 | 107.25 | | | | | 107.25 |
| 2 | | 6.40 | 16 | 2 | 5 | 64.00 | | | | | 64.00 |
| 3 | | 2.00 | 16 | 2 | 5 | 20.00 | | | | | 20.00 |
| 4 | | 2.75 | 16 | 2 | 5 | 27.50 | | | | | 27.50 |
| 5 | | 2.60 | 16 | 2 | 5 | 26.00 | | | | | 26.00 |
| 6 | | 1.90 | 16 | 2 | 5 | 19.00 | | | | | 19.00 |
| 7 | | 4.32 | 16 | 21 | 5 | 453.60 | | | | | 453.60 |
| 8 | | 2.55 | 16 | 1 | 5 | 12.75 | | | | | 12.75 |
| 9 | | 3.90 | 16 | 2 | 5 | 39.00 | | | | | 39.00 |
| 10 | | 4.65 | 16 | 4 | 5 | 93.00 | | | | | |
| 11 | | 4.90 | 16 | 4 | 5 | 98.00 | | 98 | | | |
| c | | 1.85 | 10 | 90 | 5 | 832.50 | | 832.5 | | | |
| | | | | | | | | | | | |
| | G.Rings-1 | 31.00 | 10 | 4 | 2 | 248.00 | | 248 | | | |
| | | | | | | 0.00 | | | | | |
| | G.Rings-2 | 17.50 | 10 | 4 | 2 | 140.00 | | 140 | | | |
| | | 13.50 | 10 | 4 | 5 | 270.00 | | 270 | | | |
| | Columns | | | | | | | | | | |
| | C-1 | 2.15 | 14 | 4 | 14 | 120.40 | | | | 120.40 | |
| | | 2.80 | 14 | 4 | 14 | 156.80 | | | | 156.80 | |
| | | 3.30 | 14 | 4 | 14 | 184.80 | | | | 184.80 | |
| | | 2.85 | 14 | 4 | 14 | 159.60 | | | | 159.60 | |
| | C-2 | 2.15 | 14 | 4 | 6 | 51.60 | | | | 51.60 | |
| | | 2.80 | 14 | 4 | 6 | 67.20 | | | | 67.20 | |
| | | 3.30 | 14 | 4 | 6 | 79.20 | | | | 79.20 | |
| | | 2.85 | 14 | 4 | 6 | 68.40 | | | | 68.40 | |
| | Strips fro Columns | 1.30 | 10 | 36 | 20 | 936.00 | | 936.00 | | | |
| | | | | | | | | | | | |
| | Footings | | | | | | | | | | |
| | F-1 | 1.55 | 14 | 11 | 14 | 238.70 | | | | 238.70 | |
| | | 1.55 | 14 | 11 | 14 | 238.70 | | | | 238.70 | |
| | | | | | | | | | | | |
| | F-2 | 1.75 | 14 | 13 | 6 | 136.50 | | | | 136.50 | |
| | | 1.75 | 14 | 13 | 6 | 136.50 | | | | 136.50 | |
| | | | | | | | | | | | |
| | *TOTAL LENGTH OF BARS* | | | | | | **0.00** | **3419.90** | **0.00** | **1638.40** | **1591.70** |
| | *WEIGHT PER LENGTH OF BARS IN KG* | | | | | | 0.22 | 0.617 | 0.89 | 1.21 | 1.58 |
| | *TOTAL WEIGHT OF BARS* | | | | | | 0.00 | 2110.078 | 0.00 | 1981.35 | 2514.12 |
| | *5% WAST FOR BAR* | | | | | | 0.00 | 105.504 | 0.00 | 99.07 | 125.71 |
| | *TOTAL WEIGHT OF BARS* | | | | | | 0.00 | 2215.582 | 0.00 | 2080.42 | 2639.83 |
| | **GRAND TOTAL OF WEIGHT OF BARS** | | | | | | **6935.83** | | | | **Kg** |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0799 285 666 , 0799 284 476 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | NTS | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 | | | |
| DRAWING NUMBER | BHC.ST-016 | | | | | | | DESIGNED BY | Eng.Muradi | | July-2008 | | | |
| PROJECT NUMBER | | STEEL BAR SCHEDULE | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 | | | |
| | | | | | | | | APPROVALS | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | |

## Calculation of Steel for Guard Room & Toilet facility of Basic Health Clinic

SCHEDULE OF BARS

| S. No | Description | length | Diameter of Item (mm) | Number of bars | Number of Item | Total length | Ø6 | Ø8 | Ø10 | Ø12 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Length (m) | Length (m) | Length (m) | Length (m) |
| | **Guard Room** | 5.15 | 10 | 10 | 1 | 51.50 | | | 51.50 | |
| | | 4.05 | 10 | 10 | 1 | 40.50 | | | 40.50 | |
| | | 5.05 | 10 | 10 | 1 | 50.50 | | | 50.50 | |
| | | 3.90 | 10 | 10 | 1 | 39.00 | | | 39.00 | |
| | | 1.80 | 10 | 5 | 4 | 36.00 | | | 36.00 | |
| | | 15.50 | 12 | 6 | 1 | 93.00 | | | | 93.00 |
| | | 16.50 | 8 | 5 | 1 | 82.50 | | 82.50 | | |
| | **Strips** | | | | | | | | | |
| | On top of wall | 2.05 | 10 | 80 | 1 | 164.00 | | | 164.00 | |
| | On top of wall | 1.55 | 10 | 60 | 1 | 93.00 | | | 93.00 | |
| | **On Stone wall** | 15.00 | 10 | 4 | 4 | 240.00 | | | 240.00 | |
| | **On Stone wall** | 1.50 | 10 | 76 | 1 | 114.00 | | | 114.00 | |
| | | | | | | | | | | |
| | **Generator Room** | | | | | | | | | |
| | **slab** | 3.40 | 10 | 16 | 1 | 54.40 | | | 54.40 | |
| | | 2.80 | 10 | 16 | 1 | 44.80 | | | 44.80 | |
| | | 1.10 | 10 | 16 | 4 | 70.40 | | | 70.40 | |
| | **Ring** | | | | | 0.00 | | | 0.00 | |
| | **On top of wall** | 11.00 | 10 | 4 | 4 | 176.00 | | | 176.00 | |
| | **On Stone wall** | 11.00 | 10 | 4 | 4 | 176.00 | | | 176.00 | |
| | | 1.20 | 10 | 100 | 1 | 120.00 | | | 120.00 | |
| | | | | | | | | | | |
| | **Toilets** | | | | | | | | | |
| | **Roof Slab** | 5.50 | 8 | 3 | 2 | 33.00 | | 33.00 | | |
| | | 4.50 | 8 | 4 | 2 | 36.00 | | 36.00 | | |
| | | 2.50 | 10 | 11 | 2 | 55.00 | | | 55.00 | |
| | | 2.05 | 10 | 11 | 2 | 45.10 | | | 45.10 | |
| | | 0.80 | 10 | 11 | 2 | 17.60 | | | 17.60 | |
| | | 2.00 | 10 | 11 | 2 | 44.00 | | | 44.00 | |
| | | 1.85 | 10 | 11 | 1 | 20.35 | | | 20.35 | |
| | | 1.00 | 10 | 10 | 1 | 10.00 | | | 10.00 | |
| | **floor slab** | 4.70 | 10 | 7 | 1 | 32.90 | | | 32.90 | |
| | | 4.65 | 10 | 7 | 1 | 32.55 | | | 32.55 | |
| | | 2.95 | 10 | 11 | 1 | 32.45 | | | 32.45 | |
| | | 2.95 | 10 | 11 | 1 | 32.45 | | | 32.45 | |
| | | 0.95 | 10 | 7 | 2 | 13.30 | | | 13.30 | |
| | | 0.70 | 10 | 11 | 2 | 15.40 | | | 15.40 | |
| | **Ring beam on the stone wall** | | | | | | | | | |
| | | 14.50 | 10 | 4 | 1 | 58.00 | | | 58.00 | |
| | | 1.00 | 8 | 60 | 1 | 60.00 | | 60.00 | | |
| | **on Brick wall** | 14.50 | 10 | 4 | 1 | 58.00 | | | 58.00 | |
| | | 1.00 | 8 | 60 | 1 | 60.00 | | 60.00 | | |
| | | 1.70 | 10 | 74 | 1 | 125.80 | | | 125.80 | |
| | | 1.00 | 8 | 60 | 1 | 60.00 | | 60.00 | | |
| | *TOTAL LENGTH OF BARS* | | | | | | **0.00** | **82.50** | **828.50** | **93.00** |
| | *WEIGHT PER LENGTH OF BARS IN KG* | | | | | | 0.222 | 0.395 | 0.617 | 0.888 |
| | *TOTAL WEIGHT OF BARS* | | | | | | 0.000 | 32.58 | 511.18 | 82.63 |
| | *5% WAST FOR BAR* | | | | | | 0.000 | 1.63 | 25.56 | 4.13 |
| | *TOTAL WEIGHT OF BARS* | | | | | | 0.000 | 34.21 | 536.74 | 86.76 |
| | | | | | | | | | | |
| | **GRAND TOTAL OF WEIGHT OF BARS** | | | | | | | **657.71** | | **Kg** |

## Calculation of Steel for Slab of Basic Health Clinic

SCHEDULE OF BARS

| S. No | Description | length (m) | Diameter of Item (mm) | Number of Item | Number of Item | Total length (m) | Ø6 | Ø8 | Ø10 | Ø12 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Length (m) | Length (m) | Length (m) | Length (m) |
| | *Slabs -1 -5* | | | | | | | | | |
| P1 | | 5.45 | 10 | | 32 | 174.40 | | | 174.40 | |
| P2 | | 4.05 | 10 | | 32 | 129.60 | | | 129.60 | |
| P3 | | 6.50 | 10 | | 57 | 370.50 | | | 370.50 | |
| P4 | | 5.05 | 10 | | 58 | 292.90 | | | 292.90 | |
| P5 | | 6.40 | 10 | | 32 | 204.80 | | | 204.80 | |
| P6 | | 4.05 | 10 | | 33 | 133.65 | | | 133.65 | |
| P7 | | 8.05 | 10 | | 31 | 249.55 | | | 249.55 | |
| P8 | | 6.25 | 10 | | 33 | 206.25 | | | 206.25 | |
| P9 | | 7.00 | 10 | | 31 | 217.00 | | | 217.00 | |
| P10 | | 3.95 | 10 | | 33 | 130.35 | | | 130.35 | |
| P11 | | 5.90 | 10 | | 51 | 300.90 | | | 300.90 | |
| P12 | | 5.75 | 10 | | 54 | 310.50 | | | 310.50 | |
| P13 | | 6.00 | 10 | | 40 | 240.00 | | | 240.00 | |
| P14 | | 4.50 | 10 | | 43 | 193.50 | | | 193.50 | |
| P15 | | 1.90 | 10 | | 60 | 114.00 | | | 114.00 | |
| P16 | | 2.10 | 10 | | 37 | 77.70 | | | 77.70 | |
| P17 | | 2.70 | 10 | | 120 | 324.00 | | | 324.00 | |
| P18 | | 2.00 | 10 | | 170 | 340.00 | | | 340.00 | |
| P19 | | 2.20 | 10 | | 136 | 299.20 | | | 299.20 | |
| P20 | | 2.30 | 10 | | 12 | 27.60 | | | 27.60 | |
| P21 | | 12.60 | 8 | | 28 | 352.80 | | 352.80 | | |
| P22 | | 17.10 | 8 | | 37 | 632.70 | | 632.70 | | |
| P23 | *Cantilever* | 2.95 | 10 | | 214 | 631.30 | | | 631.30 | |
| P24 | *Cantilever* | 63.50 | 8 | | 6 | 381.00 | | 381.00 | | |
| P25 | | 63.00 | 6 | 3 | 3 | 567.00 | 567.00 | | | |
| P26 | **Thermal insulation steel bars** | 0.55 | 6 | | 630 | 346.50 | 346.50 | | | |
| | | | | | | 0.00 | | | | |
| P27 | *Cantilever on Exit* | 3.45 | 12 | 1 | 26 | 89.70 | | | | 89.70 |
| P28 | *Cantilever on Exit* | 3.85 | 8 | 1 | 7 | 26.95 | | 26.95 | | |
| | *TOTAL LENGTH OF BARS* | | | | | | **913.50** | **1393.45** | **4967.70** | **89.70** |
| | *WEIGHT PER LENGTH OF BARS IN KG* | | | | | | 0.222 | 0.39 | 0.62 | 0.89 |
| | *TOTAL WEIGHT OF BARS* | | | | | | 202.91 | 550.25 | 3065.07 | 79.70 |
| | *5% WAST FOR BAR* | | | | | | 10.15 | 27.51 | 153.25 | 3.98 |
| | *TOTAL WEIGHT OF BARS* | | | | | | 213.05 | 577.76 | 3218.32 | 83.68 |
| | | | | | | | | | | |
| | **GRAND TOTAL OF WEIGHT OF BARS** | | | | | | | **4092.82** | | **Kg** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | **BASIC HEALTH CLINIC ( BHC )** | REVISIONS | | | | | INITL. | SIG. | DATE |
| SCALE | NTS | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | July–2008 |
| DRAWING NUMBER | BHC.ST-015 | **STEEL BAR SCHEDULE** | | | | | | DESIGNED BY | Eng.Muradi | July–2008 |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | July–2008 |
| | | | | | | | | APPROVALS | | |
| | | | | | | | | PROJECT MANAGER | | |
| | | | | | | | | PROJECT DIRECTOR | | |

**BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN**

ARCHITECT

**BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP**

Email: baceag@yahoo.com

Mobile: 0750 326 035 , 0750 324 470

CLIENT

**MINISTRY OF PUBLIC HEALTH AFGHANISTAN**

RECIPIENT

**1 GROUND FLOOR COLD WATER SYSTEM**
**SCALE =1/75**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN | ARCHITECT BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baceag@yahoo.com Mobile: 0799 335 666 , 0799 304 476 | CLIENT MINISTRY OF PUBLIC HEALTH AFGHANISTAN | RECIPIENT |
| SCALE | 1:75 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 | | | |
| DRAWING NUMBER | BHC.WA-001 | GROUND FLOOR COLD WATER SYSTEM | | | | | | DESIGNED BY | Eng.A.Samad | | July-2008 | | | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 | | | |
| | | | | | | | | APPROVALS | | | | | | |
| | | | | | | | | PROJECT MANAGER | | | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | | | |

**1 HOT WATER SYSTEM**
**SCALE =1/75**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | **BASIC HEALTH CLINIC ( BHC )** | REVISIONS | | | | | INITL | SIG. | DATE | **BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN** | ARCHITECT **BaCEAG CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP** Email: baceag@yahoo.com Mobile: 0799 335 666 , 0799 304 476 |
| SCALE | 1:75 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 | |
| DRAWING NUMBER | BHC.WA-003 | **HOT WATER SYSTEM** | | | | | | DESIGNED BY | Eng.A.Samad | | July-2008 | |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 | |
| | | | | | | | | APPROVALS | | | | |
| | | | | | | | | PROJECT MANAGER | | | | |
| | | | | | | | | PROJECT DIRECTOR | | | | |

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**MINISTRY OF PUBLIC HEALTH**
**AFGHANISTAN**

RECIPIENT

## 1 DRAINGE SYSTEM PLAN
SCALE =1/75

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | 1:75 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 |
| DRAWING NUMBER | BHC.WA-002 | DRAINGE SYSTEM PLAN | | | | | | DESIGNED BY | Eng.A.Samad | | July-2008 |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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**AFGHANISTAN**

RECIPIENT

DETAIL B

DETAIL A

DETAIL C

DETAIL D

DETAIL E

1 DETAILS
SCALE=NTS

## LEGEND:

1 - union...

2 -joint...

3 -valve...

4 -Tee...

5 -Elbow...

6 -Reducer

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) DETAILS | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | NTS | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 |
| DRAWING NUMBER | BHC.WA-007 | | | | | | | DESIGNED BY | Eng.A.Samad | | July-2008 |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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LEGEND:

1 - cold water piping...

2 -Hot water piping...

3 -Water closet...

4 -Lavatory...

5 -Boiler...

6 -Valve ....

**1 GROUND FLOOR ISO.WATERSUPPLY.SCHEME**
**SCALE = 1/80**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | 1:75 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 |
| DRAWING NUMBER | BHC.WA-008 | GROUND FLOOR ISO. WATERSUPPLY.SCHEME | | | | | | DESIGNED BY | Eng.A.Samad | | July-2008 |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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AFGHANISTAN

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**1 WATER TANK**
**SCALE= 1/40**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD FILE | | BASIC HEALTH CLINIC ( BHC ) | REVISIONS | | | | | INITL | SIG. | DATE | BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN |
| SCALE | 1:40 | | NO. | REVISION | NAME | INITL. | DATE | PRODUCED BY | BaCEAG | | July-2008 |
| DRAWING NUMBER | BHC.WA-005 | WATER TANK SCALE= 1/40 | | | | | | DESIGNED BY | Eng.A.Samad | | July-2008 |
| PROJECT NUMBER | | | | | | | | CHECKED BY | Eng.A.Karim | | July-2008 |
| | | | | | | | | APPROVALS | | | |
| | | | | | | | | PROJECT MANAGER | | | |
| | | | | | | | | PROJECT DIRECTOR | | | |

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**AFGHANISTAN**

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# Deep Well drilling by Compressor/Rotary

UNHCR | Afghanistan

| | |
|---|---|
| Project Code | ORG-000-000 |
| Project Title | New Drilling of Bore well in BHC |
| Drawing Title | Plan & front preview |
| Project Location | Oruzghan City |

| | Drawn By: | Designed By: | Checked By: | Reveiw By: | Approved By: | Sheet No: |
|---|---|---|---|---|---|---|
| Name | Eng.Amir M. | Eng.Amir M. | | | | 00 of 00 |
| Sign | | | | | | Scales: |
| Date | | | | | | 1:100 |

# Plan & section of Generator Room for BHC

## S I:100

*Note:*

*1-All dimension are in centimeters .*
*2-PCC shall be (1:2:4).*
*3-Mortar for stone masonry shall be (1:4).*
*4-Mortar for stone masonry shall be (1:3).*
*5-RCC shall be (1:1,5:3).*
*6-All steel bars should be not eroded or lubricated and has to be clean.*
*7-All steel bars should be Class(A1) Ra= 2100 Kg/cm² .*
*8-The curing must be not less than (28) days.*

UNHCR The UN Refugee Agency | Afghanistan

**ORUZGAN BHC PROJECT**

| | |
|---|---|
| Project Code | ORG - 000 - 000 |
| Project Title | New Construction of Generator Room |
| Drawing Title | Plan ,Section Front Preview |
| Project Location | Oruzgan City |

| | Drawn By: | Designed By: | Checked By: | Reveiw By: | Approved By: | Sheet No: |
|---|---|---|---|---|---|---|
| Name | Eng.Amir M. | Eng.Amir M. | | | | 00 of 00 |
| Sign | | | | | | Scales: |
| Date | | | | | | 1:100 |

# Plan & section of Guard Room for BHC

S I:100

HOSE GURD

*Note:*

*1-All dimension are in centimeters .*
*2-PCC shall be (1:2:4).*
*3-Mortar for stone masonry shall be (1:4).*
*4-Mortar for stone masonry shall be (1:3).*
*5-RCC shall be (1:1,5:3).*
*6-All steel bars should be not eroded or lubricated and has to be clean.*
*7-All steel bars should be Class(A1) Ra= 2100 Kg/cm² .*
*8-The curing must be not less than (28) days.*

UNHCR The UN Refugee Agency | Afghanistan

**ORUZGAN BHC PROJECT**

| | |
|---|---|
| Project Code | ORG - 000 - 000 |
| Project Title | New Construction of Guard Room |
| Drawing Title | Plan ,Section Front Preview |
| Project Location | Oruzgan City |

| | Drawn By: | Designed By: | Checked By: | Reveiw By: | Approved By: | Sheet No: |
|---|---|---|---|---|---|---|
| Name | Eng.Amir M. | Eng.Amir M. | | | | 00 of 00 |
| Sign | | | | | | Scales: |
| Date | | | | | | 1:100 |

# PLAN OF SEPTIC TANK

## S1:100

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**ORUZGAN**
**BHC- PROJECT**

| | |
|---|---|
| Project Code | ORG–000–000 |
| Project Title | New Construction of Septic Tank |
| Drawing Title | Plan |
| Project Location | Oruzgan BHC–Project |

| | Drawn By: | Designed By: | Checked By: | Reveiw By: | Approved By: | Sheet No: |
|---|---|---|---|---|---|---|
| Name | Eng.Amir M. | Eng.Amir M. | | | | 00 of 00 |
| Sign | | | | | | Scales: |
| Date | | | | | | 1:100 |

# SEPTIC TANK SECTION A-A
# S1:100

UNHCR | Afghanistan

**ORUZGAN BHC- PROJECT**

| | |
|---|---|
| Project Code | ORG–000–000 |
| Project Title | New Construction of Septic Tank |
| Drawing Title | Plan |
| Project Location | Oruzgan City BHC–Project |

| | Drawn By: | Designed By: | Checked By: | Reveiw By: | Approved By: | Sheet No: |
|---|---|---|---|---|---|---|
| Name | Eng.Amir M. | Eng.Amir M. | | | | 00 of 00 |
| Sign | | | | | | Scales: |
| Date | | | | | | 1:100 |

# Bar Bending Schedule Of Septic Tank Slab

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**ORUZGAN**
**BHC- PROJECT**

| | |
|---|---|
| Project Code | ORG–000–000 |
| Project Title | New Construction of Septic Tank For BHC |
| Drawing Title | Plan |
| Project Location | Oruzgan City BHC–Project |

| | Drawn By: | Designed By: | Checked By: | Reveiw By: | Approved By: | Sheet No: |
|---|---|---|---|---|---|---|
| Name | Eng.Amir M. | Eng.Amir M. | | | | 00 of 00 |
| Sign | | | | | | Scales: |
| | | | | | | 1:100 |

# Boundary wall for BHC building

## Plan 0f Brick Masonry of boundary wall

SCALE 1:100

## Section A-A

# Lenght of Brick, stone masonry boundary wall=343m

**Note:**

1-All dimension are in centimeters .
2-PCC shall be (1:2:4).
3-Mortar for stone masonry shall be (1:4).
4-Mortar for stone masonry shall be (1:3).
5-RCC shall be (1:1,5:3).
6-All steel bars should be not eroded or lubricated and has to be clean.
7-All steel bars should be Class(A1) Ra= 2100 Kg/cm² .
8-The curing must be not less than (28) days.

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**ORUZGAN BHC PROJECT**

| | |
|---|---|
| Project Code | ORG- 000 - 000 |
| Project Title | New Construction of Boundary wall |
| Drawing Title | Plan & Sections of wall |
| Project Location | Oruzgan City |

| | Drawn By: | Designed By: | Checked By: | Reveiw By: | Approved By: | Sheet No: |
|---|---|---|---|---|---|---|
| Name | Eng.Amir M. | Eng.Amir M. | | | | 00 of 00 |
| Sign | | | | | | Scales: |
| Date | | | | | | 1:100 |

# *Boundary wall BHC building*
# *Main & Small Steel gate of Boundary wall*

*SCALE 1:100*

*Note:*

*1-All dimension are in centimeters .*
*2-PCC shall be (1:2:4).*
*3-Mortar for stone masonry shall be (1:4).*
*4-Mortar for stone masonry shall be (1:3).*
*5-RCC shall be (1:1,5:3).*
*6-All steel bars should be not eroded or lubricated and has to be clean.*
*7-All steel bars should be Class(A1) Ra= 2100 Kg/cm² .*
*8-The curing must be not less than (28) days.*

UNHCR The UN Refugee Agency | Afghanistan

**ORUZGAN BHC PROJECT**

| | |
|---|---|
| Project Code | ORZ- 000 - 000 |
| Project Title | New Construction of Boundary wall |
| Drawing Title | Front Preview |
| Project Location | Oruzgan City . |

| Drawn By: | Designed By: | Checked By: | Reveiw By: | Approved By: | Sheet No: |
|---|---|---|---|---|---|
| Name Eng.Amir M. | Eng.Amir M. | | | | 00 of 00 |
| Sign | | | | | Scales: |
| Date | | | | | 1:100 |

# *Plan 0f Construction Toilets*

*SCALE 1:100*

## *Note:*

*1-All dimension are in centimeters .*
*2-PCC shall be (1:2:4).*
*3-Mortar for stone masonry shall be (1:4).*
*4-Mortar for Brick masonry shall be (1:3).*
*5-RCC shall be (1:1,5:3).*
*6-All steel bars should be not eroded or lubricated and has to be clean.*
*7-All steel bars should be Class(A1) Ra= 2100 Kg/cm² .*
*8-The curing must be not less than (28) days.*

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**ORUZGAN**
**BHC- PROJECT**

| | |
|---|---|
| Project Code | ORG- 000 - 000 |
| Project Title | New Construction of Toilets |
| Drawing Title | reinforcement bending floor of building |
| Project Location | Oruzghan City |

| | Drawn By: | Designed By: | Checked By: | Reveiw By: | Approved By: | Sheet No: |
|---|---|---|---|---|---|---|
| Name | Eng.Amir M. | Eng.Amir M. | | | | 00 of 00 |
| Sign | | | | | | Scales: |
| Date | | | | | | 1:100 |

## *Front Preview 0f Construction Toilets*

*SCALE 1:100*

# *Section A-A*

*SCALE 1:100*

## *Note:*

*1-All dimension are in centimeters .*
*2-PCC shall be (1:2:4).*
*3-Mortar for stone masonry shall be (1:4).*
*4-Mortar for Brick masonry shall be (1:3).*
*5-RCC shall be (1:1,5:3).*
*6-All steel bars should be not eroded or lubricated and has to be clean.*
*7-All steel bars should be Class(A1) Ra= 2100 Kg/cm² .*
*8-The curing must be not less than (28) days.*

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**ORUZGAN**
**BHC- PROJECT**

| | |
|---|---|
| Project Code | ORG- 000 - 000 |
| Project Title | New Construction of Toilets |
| Drawing Title | front preview & Section of building |
| Project Location | Oruzghan City |

| | Drawn By: | Designed By: | Checked By: | Reveiw By: | Approved By: | Sheet No: |
|---|---|---|---|---|---|---|
| Name | Eng.Amir M. | Eng.Amir M. | | | | 00 of 00 |
| Sign | | | | | | Scales: |
| Date | | | | | | 1:100 |

# Electration Plan 0f Construction Toilets

SCALE 1:100

# Mecanical Plan 0f Construction Toilets

SCALE 1:100

EXTERIOR TOILETS DRAINAGE PLAN SCALE= 1/40

## Note:

1-All dimension are in centimeters .
2-PCC shall be (1:2:4).
3-Mortar for stone masonry shall be (1:4).
4-Mortar for Brick masonry shall be (1:3).
5-RCC shall be (1:1,5:3).
6-All steel bars should be not eroded or lubricated and has to be clean.
7-All steel bars should be Class(A1) Ra= 2100 Kg/cm² .
8-The curing must be not less than (28) days.

UNHCR The UN Refugee Agency | Afghanistan

**ORUZGAN BHC- PROJECT**

| | |
|---|---|
| Project Code | ORG- 000 - 000 |
| Project Title | New Construction of Toilets |
| Drawing Title | Felicitation & Mechanical plan |
| Project Location | Oruzghan City |

| | Drawn By: | Designed By: | Checked By: | Reveiw By: | Approved By: | Sheet No: |
|---|---|---|---|---|---|---|
| Name | Eng.Amir M. | Eng.Amir M. | | | | 00 of 00 |
| Sign | | | | | | Scales: |
| Date | | | | | | 1:100 |

# STEL BENDING PLAN OF SLAB

TOILAT

# Specification:

1.Slab thickness: for slabs is 12 cm
2.for parapets is 7.5
3.cover : for slab is 2.5 cm ,for beams is 3cm for column is 4cm , for foundation is 6cm
4.plaster thickness: for walls shall be 2cm , for ceiling shall be 1cm of cement , lime ,sand at ratio of (1:5:10)
5.forms work : shall be straight , perpendicular structural and visual requirement .do not use weak formwork that Causes bulges, gaps or holes in the poured concrete.
Reinforcing bars: reinforcing steel bar for all members shall be deformed bars and shall be minimum yield strength of 2400 kg/sqcm. The steel bars for all members shown in drawing.

6.Concert: all reinforcement concerts shall be power machine mixed and machine vibrated. the concert mark shall be in
Foundation is 150kg/sqcm ,for slabs ,beams and ring beams is 200kg /sqcm in (1:1.5:3) & in columns shall be 250kg/sqcm
(1:1:2).

7.Aggregates: aggregates shall be clean crushed rock, hard, free from coating and dust. the maximum size of aggregate shall bee
20 mm and not exceeding 75
between steel reinforcement or between reinforcement and formwork. % of the clear spacing
8. Earthquake coefficients: This is considerate in design
I= 1.5 (for hospital & clinics)
K= 1 (for ordinary frame

9. the dimension of foundation is designed for Bearing capacity =2Ton/m2 if the BC is smallar than this ,the dimenson must be chang according bearing capacity of that earth. structure building)

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**ORUZGAN BHC- PROJECT**

| | |
|---|---|
| Project Code | NRZ- 000 - 000 |
| Project Title | New Construction of Toilets |
| Drawing Title | Reinforcement bending floor of building |
| Project Location | Oruzghan City |

| | Drawn By: | Designed By: | Checked By: | Reveiw By: | Approved By: | Sheet No: |
|---|---|---|---|---|---|---|
| Name | Eng.Amir M. | Eng.Amir M. | | | | 00 of 00 |
| Sign | | | | | | Scales: |
| Date | | | | | | 1:100 |

# Solar panel frame design and specification

*Note:*

*1-All dimension are in mater .*

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زنان برای زنان افغان
ښځې د افغان ښځو لپاره
WOMEN FOR AFGHAN WOMEN

| | |
|---|---|
| Project code | KDR - 000 - 000 |
| Project | |
| Drawing Title | Solar panel frame design and specification |
| Project Location | South Region Kandahar Afghanistan |

| | Drawn By: | Designed By: | Checked By: | |
|---|---|---|---|---|
| Name | Engr.Esmatullah | Engr.Esmatullah | Engr. Imran danish | |
| Sign | | | | |
| Date | | | | |

# Solar panel frame design and specification

FRONT VIEW

SAMPLE IMAGE

DETAILS of L Ring

DETAILS of L Ring

*Note:*

*1-Steel for frame will be 18 Gouge*
*2-Solar panels must be netted and bolted in L Ring frames*
*3-L Ring will be (thickness=1.5mm)*
*4-Frames must be welded by electricity*
*5-All dimension are in Meter .*

SECTION VIEW

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ښځې د افغان ښځو لپاره
WOMEN FOR AFGHAN WOMEN

| | |
|---|---|
| Project code | KDR - 000 - 000 |
| Project | |
| Drawing Title | Solar panel frame design and specification |
| Project Location | South Region Kandahar Afghanistan |

| | Drawn By: | Designed By: | Checked By: | |
|---|---|---|---|---|
| Name | Engr.Esmatullah | Engr.Esmatullah | Engr. Imran danish | |
| Sign | | | | |
| Date | | | | |

# Solar panel frame design and specification

TOP VIEW

Top VIEW

*Note:*

*1-Steel for frame will be 18 Gouge*
*2-Solar panels must be netted and bolted in L Ring frames*
*3-L Ring will be (thickness=1.5mm)*
*4-Frames must be welded by electricity*
*5-All dimension are in Meter .*

TOP VIEW

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ښځې د افغان ښځو لپاره
WOMEN FOR AFGHAN WOMEN

| | | | | |
|---|---|---|---|---|
| Project code | KDR - 000 - 000 | | | |
| Project | | | | |
| Drawing Title | Solar panel frame design and specification | | | |
| Project Location | South Region Kandahar Afghanistan | | | |
| Drawn By: | | Designed By: | Checked By: | |
| Name | Engr.Esmatullah | Engr.Esmatullah | Engr. Imran danish | |
| Sign | | | | |
| Date | | | | |

# WATER RESERVOIR with volume = 30 cum

## PLAN OF RESERVOIR

## Store room

| No | Date | Revision | | |
|---|---|---|---|---|
| | | | Survey by | |
| 1 | | | Structural.D. by | |
| 2 | | | Drawn by | |
| 3 | | | Approved by | |

MINISTRY OF EDUCAION AFGHANISTAN
OFFICE :
PROGRAM:WATER SUPPLY
ENGINEERING DEPARTMENT

| | | | |
|---|---|---|---|
| Scale | 1 : 100 | Sheet No. | 01/01 |
| Date | 25 09 17 | | |
| Drawing No. | ST-01 | | |

| | |
|---|---|
| Province | |
| District | |
| Village | |

Project name: RCC elevated Water reservoir 30.0 m3
Drawing Title: Plan & sections

# FRONT ELEVATION & SECTION A-A

| No | Date | Revision | | |
|---|---|---|---|---|
| 1 | | | Survey by | |
| 2 | | | Structural.D. by | |
| 3 | | | Drawn by | |
| | | | Approved by | |

MINISTRY OF EDUCAION AFGHANISTAN
OFFICE :
PROGRAM:WATER SUPPLY
ENGINEERING DEPARTMENT

| | | | |
|---|---|---|---|
| Scale | 1 : 100 | No. | 01/01 |
| Date | 25 09 17 | | |
| Drawing No. | ST-01 | | |

| | |
|---|---|
| Province | |
| District | |
| Village | |

Project name: RCC elevated Water reservoir 30.0 m3
Drawing Title: Plan & sections

# REINFORCEMENT DETAILS

# PLAN OF FOUNDATION FOR RESERVOIR

| No | Date | Revision | | |
|---|---|---|---|---|
| | | | Survey by | |
| 1 | | | Structural.D. by | |
| 2 | | | Drawn by | |
| 3 | | | Approved by | |

MINISTRY OF EDUCAION AFGHANISTAN
OFFICE :
PROGRAM:WATER SUPPLY
ENGINEERING DEPARTMENT

| | | | | |
|---|---|---|---|---|
| Scale | 1 : 100 | Sh. No. | 01/01 | Province |
| Date | 25 09 17 | | | District |
| Drawing No. | ST-01 | | | Village |

Project name: RCC elevated Water reservoir 30.0 m3

# PLAN STEEL BAR OF RING BEAM ABOVE FOUNDATTION

SECTION A-A
for stone masonry in between
foundation footings

90Ø8mm c/c20cm L=200cm 1

78Ø8mm c/c20cm L=200cm 2

| No | Date | Revision | | |
|---|---|---|---|---|
| 1 | | | Survey by | |
| 2 | | | Structural.D. by | |
| 3 | | | Drawn by | |
| | | | Approved by | |

MINISTRY OF EDUCAION AFGHANISTAN
OFFICE :
PROGRAM:WATER SUPPLY
ENGINEERING DEPARTMENT

| | | | | |
|---|---|---|---|---|
| Scale | 1 : 100 | No. | 01/01 | Province |
| Date | 25 09 17 | | | District |
| Drawing No. | ST-01 | | | Village |

Project name: RCC elevated Water reservoir 30.0 m3

# REINFORCEMENT WITH DETAILS

| No | Date | Revision | | |
|---|---|---|---|---|
| 1 | | | Survey by | |
| 2 | | | Structural.D. by | |
| | | | Drawn by | |

MINISTRY OF EDUCATION AFGHANISTAN
OFFICE :
PROGRAM:WATER SUPPLY
ENGINEERING DEPARTMENT

| | | | |
|---|---|---|---|
| Scale | 1 : 100 | S. No. | 01 |
| Date | 25 09 17 | | |

Province

# RESERVOIR REINFORCEMENT DETAILS

| No | Date | Revision | |
|---|---|---|---|
| 1 | | | Survey by |
| 2 | | | Structural.D. by |
| 3 | | | Drawn by |
| | | | Approved by |

MINISTRY OF EDUCATION AFGHANISTAN
OFFICE :
PROGRAM:WATER SUPPLY
ENGINEERING DEPARTMENT

| | |
|---|---|
| Scale | 1 : 100 |
| Date | 25 09 17 |
| Drawing No. | ST-01 |

Province
District
Village
No 01 01

Project name: RCC elevated Water reservoir 30.0 m3
Drawing Title: Plan & sections

# Reinforcement details for detail no 2

| No | Date | Revision | | |
|---|---|---|---|---|
| | | | Survey by | |
| 1 | | | Structural.D. by | |
| 2 | | | Drawn by | |
| 3 | | | Approved by | |

MINISTRY OF EDUCATION AFGHANISTAN
OFFICE :
PROGRAM:WATER SUPPLY
ENGINEERING DEPARTMENT

| | |
|---|---|
| Scale | 1 : 100 |
| Date | 25 09 17 |
| Drawing No. | ST-01 |

Province
District
Village

Project name: RCC elevated Water reservoir 30.0 m3
Drawing Title: Plan & sections

Section details for Columns

Section details for Beams

| No | Date | Revision | | |
|---|---|---|---|---|
| | | | Survey by | |
| 1 | | | Structural.D. by | |
| 2 | | | Drawn by | |
| 3 | | | Approved by | |

MINISTRY OF EDUCATION AFGHANISTAN
OFFICE :
PROGRAM:WATER SUPPLY
ENGINEERING DEPARTMENT

| | |
|---|---|
| Scale | 1 : 100 |
| Date | 25 09 17 |
| Drawing No. | ST-01 |

Province
No 01 01
District

Project name: RCC elevated Water reservoir 30.0 m3
Drawing Title: Plan & sections

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**Code 201/240 Lit.**

BASKET PRICE 3000 AFGHANIS. ( 1 )

View of Iron Sheet Cover guge 24"

Plan of Iron Sheet ·Cover guge 24"

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MINISTRY OF EDUCATION<br>DEPARTMENT OF CONTRACTION | STANDARD SCHOOL DESIGN<br>IN AFGHANISTAN | ARCHITECTURE | | | | PROJECT NAME | PCC GARBAGE Ø 90 CM |
| | | | | | 2/2 | DRAWING TITLE | View & deatil |

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