
Right Side Mosul Low Cost House Units

2019-09-07

Site Infrastructure Drawing packages

Detailed Drawing packages

LIST OF DRAWING

NUM.	TITLE	SCALE	PAPER	REVISION
DP-LD-00	List of Drawings	N/A	A3	REV - 06
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-	Architectural DrawingType A&B&C&D	-	A3	REV - 06
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AR-PL-05	Ground Floor Plan - Type B	1:200	A3	REV - 06
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Notes:
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This drawing is to be read in conjunction with all other relevant drawings.

Legend:

Project:
Right Side Mosul Buildings

Drawing :
List of Drawings -Detailed Drawing packages

Location:
Mosul

Scale: N/A	SN: DP-LD-00
Format: A3	

rev.	Description	Date
F	Tendering	07-09-2019
E	Tendering	14-04-2019
D	Tendering	27-03-2019
C	Tendering	05-03-2019
B	Tendering	16-12-2018
A	Concept Design	15-11-2018

Arch: Shahyan Luttfi

Approved by:
R.Almasri

Client:
UN-HABITAT



SATELLITE PICTURE PLAN

Notes:
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Legend:

Project:

Right Side Mosul Buildings

Drawing :
SATELLITE PICTURE PLAN

Location:
Mosul

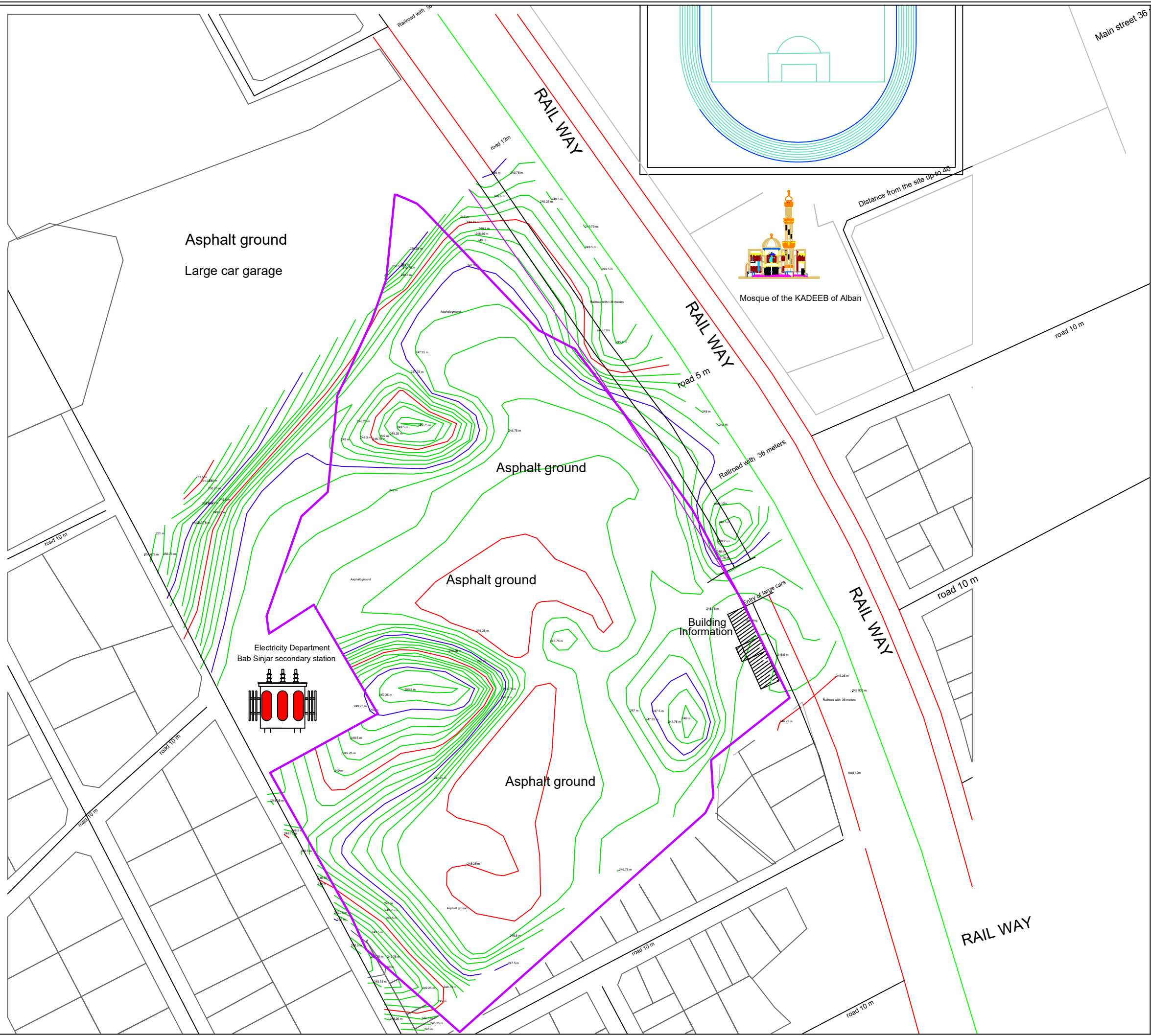
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Format: A3
SN: AR-PL-01

rev.	Description	Date
D	Tendering	28-05-2019
C	Tendering	04-03-2019
B	Tendering	16-12-2018
A	Concept Design	15-11-2018

Arch: Sara Faruq

Approved by:
R.Almasri

Client:
UN-HABITAT



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Legend:

Project:
Right Side Mosul Buildings

Drawing :
TOPOGRAPHIC SITE

Location:
Mosul

Scale:
N/A

SN:
AR-PL-02

Format:
A3

rev.	Description	Date
E	Tendering	07-09-2019
D	Tendering	28-05-2019
C	Tendering	04-03-2019
B	Tendering	16-12-2018
A	Concept Design	15-11-2018

Arch: Sara Faruq

Approved by:
R.Almasri

Client:
UN-HABITAT



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Legend:

NEW PHASE

OLD PHASE

Project:

Right Side Mosul Buildings

Drawing :

SITE PLANE NEW PHASE

Location:

Mosul

Scale:

1/1000

SN:

AR-PL-01

Format:

A3

rev.	Description	Date
c	Tendering	07-09-2019
B	Tendering	21-08-2019
A	Concept Design	23-07-2019

Arch: Shahyan Luttfi

Approved by:

R.Almasri

Client:

UN-HABITAT

Z:\LOGOS\un habitat logo.jpg

Design Brief for Low Cost Houses

Right Side Mosul Building

Building Schedule						
#	Item	Type -A-	Type -B-	Type -C-	Type -D-	Total
1	Number of buildings.	4	1	3	1	9
2	Number of apartments for one block.	30	24	48	36	---
3	Number of stories per block.	3	3	4	3	--
4	Number of apartments for all blocks.	120	24	144	36	324

Project Brief Schedule			
#	Item	Qty	Unit
1	Plot Area.	39,569	M ²
2	Build up Area.	8,137	M ²
3	Apartment gross Area.	62.4	M ²
4	No. of Apartment.	324	No.
5	Apartment Capacity.	7	Family Member
6	Total Capacity.	2,268	Family Member
7	Pathway, Roads, and parking.	15,833	M ²
8	Green Area.	15,599	M ²

Design Description:

Unit Functions:

- A. Living room (can be used as an extra bedroom).
- B. Bed room.
- C. Kitchen
- D. Bathroom.

Building materials:

- A. Block for walls.
- B. Concrete for roof and floor.

These building materials are used for permanent housing that offer excellent thermal, water and acoustic insulation.

Concept Design Description:

Site Plan Design:

- A. Roads and Parking are serving all buildings
- B. Play Ground
- C. Green Area
- D. Extension Area

Building Design:

- A. Internal courtyard serves social integration and creates a save environment for kids gathering

Apartment Design:

- A. All rooms have exterior windows for natural day light and ventilation

Aria's social impact

The project location is relatively stable with ongoing recovery and reconstruction efforts increasing in momentum.

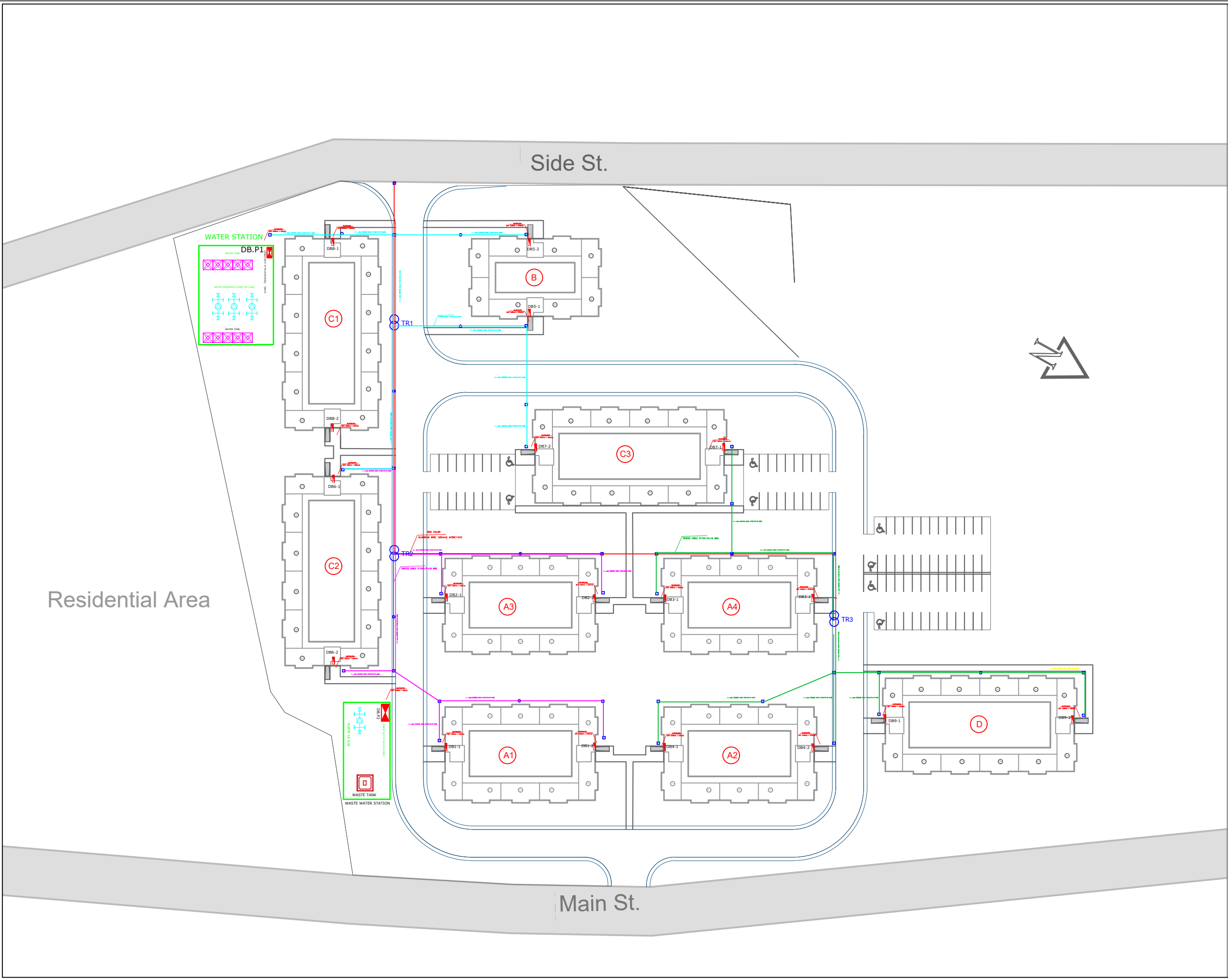
Despite this, there is a need for continued vigilance in terms of operational security and implementation.

It is advisable to possess a good knowledge of the area to reduce risks.

Right Side Mosul Low Cost House Units

2019-09-07

Schematic Drawing For Electrical



Notes:
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Legend:

Symbols	Descriptions
	MDB - Main distribution board
	DB - distribution board
	ELECTRIC TRANSFORMER
	ELECTRIC POLE TYPE 1
	ELECTRIC POLE TYPE 2
	ELECTRIC POLE TYPE 3
	ELECTRIC POLE TYPE 4
	ALUMINUM WIRE 120mm ² ACSR(11KV)
	TWISTED CABLE 3*120+70+16 MM ²

Project:

Right Side Mosul Buildings

Drawing :

Site Plan Electrical Drawing

Location:

Mosul

Scale:

1:1000

SN:

ELE-PL-01

Format:

A3

rev.	Description	Date
E	Tendering	28-05-2019
D	Tendering	15-05-2019
C	Tendering	05-03-2019
B	Tendering	06-03-2019
A	Concept Design	07-03-2019

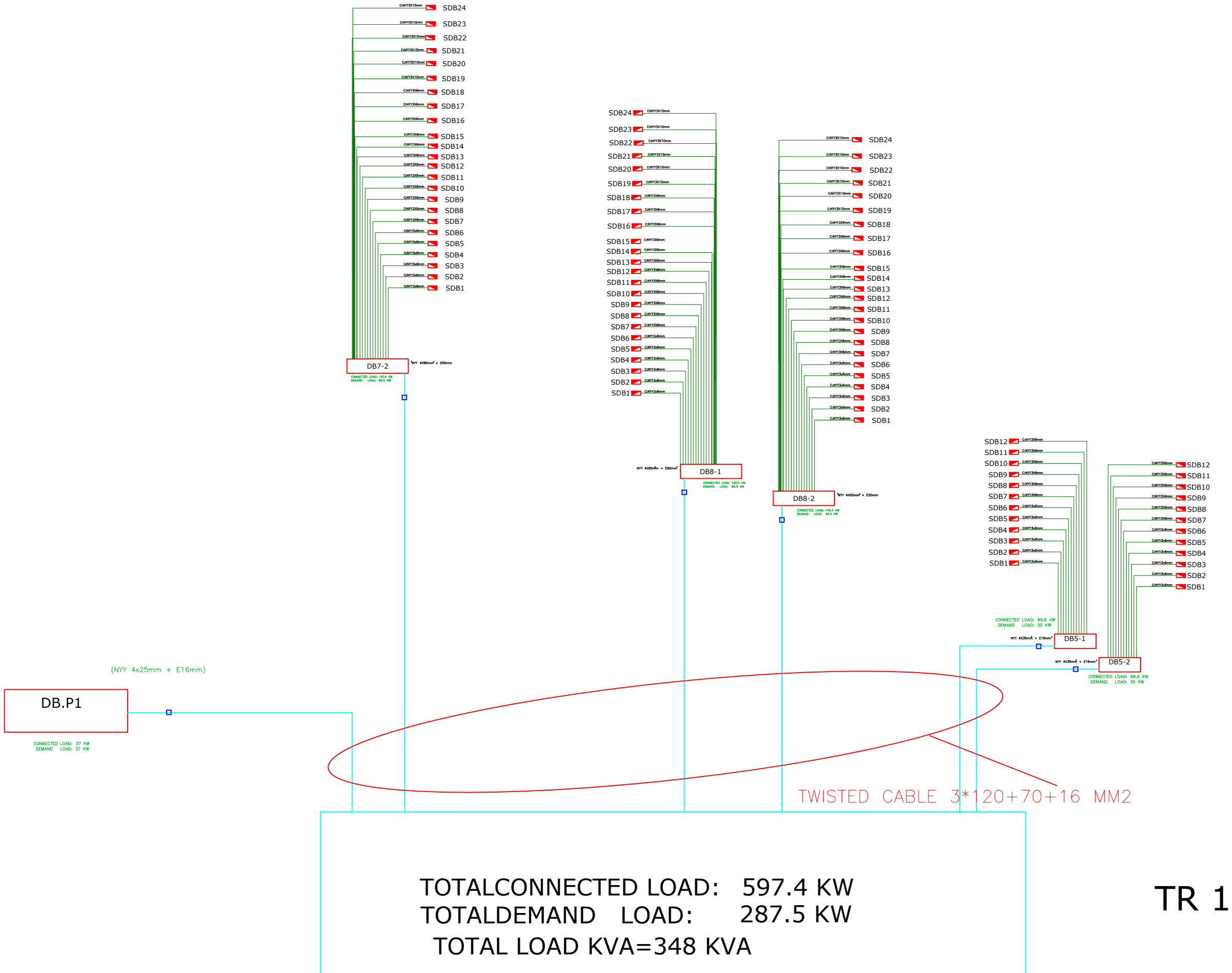
Eng: Rawand

Approved by:

R.Almasri

Client:

UN-HABITAT



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Legend:

Symbols	Descriptions
	MDB - Main distribution board
	DB - distribution board
	ELECTRIC TRANSFORMER
	ELECTRIC POLE TYPE 1
	ELECTRIC POLE TYPE 2
	ELECTRIC POLE TYPE 3
	ELECTRIC POLE TYPE 4
	ALUMINUM WIRE 120mm ² ACSR(11KV)
	TWISTED CABLE 3*120+70+16 MM ²

Project:

Right Side Mosul Buildings

Drawing :

ELECTRIC TRANSFORMER DISTRIBUTION

Location:

Mosul

Scale:

N/A

Format:

A3

SN:

ELE-TR-01

rev.	Description	Date
E	Tendering	28-05-2019
D	Tendering	15-05-2019
C	Tendering	05-03-2019
B	Tendering	06-03-2019
A	Concept Design	07-03-2019

Eng: Rawand

Approved by:

R.Almasri

Client:

UN-HABITAT

UN HABITAT
FOR A BETTER URBAN FUTURE

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Legend:

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	MDB - Main distribution board
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	ELECTRIC TRANSFORMER
	ELECTRIC POLE TYPE 1
	ELECTRIC POLE TYPE 2
	ELECTRIC POLE TYPE 3
	ELECTRIC POLE TYPE 4
	ALUMINUM WIRE 120mm ² ACSR(11KV)
	TWISTED CABLE 3*120+70+16 MM ²

Project:

Right Side Mosul Buildings

Drawing :

ELECTRIC TRANSFORMER DISTRIBUTION

Location:

Mosul

Scale:

N/A

Format:

A3

SN:

ELE-TR-02

rev.	Description	Date
E	Tendering	28-05-2019
D	Tendering	15-05-2019
C	Tendering	05-03-2019
B	Tendering	06-03-2019
A	Concept Design	07-03-2019

Eng: Rawand

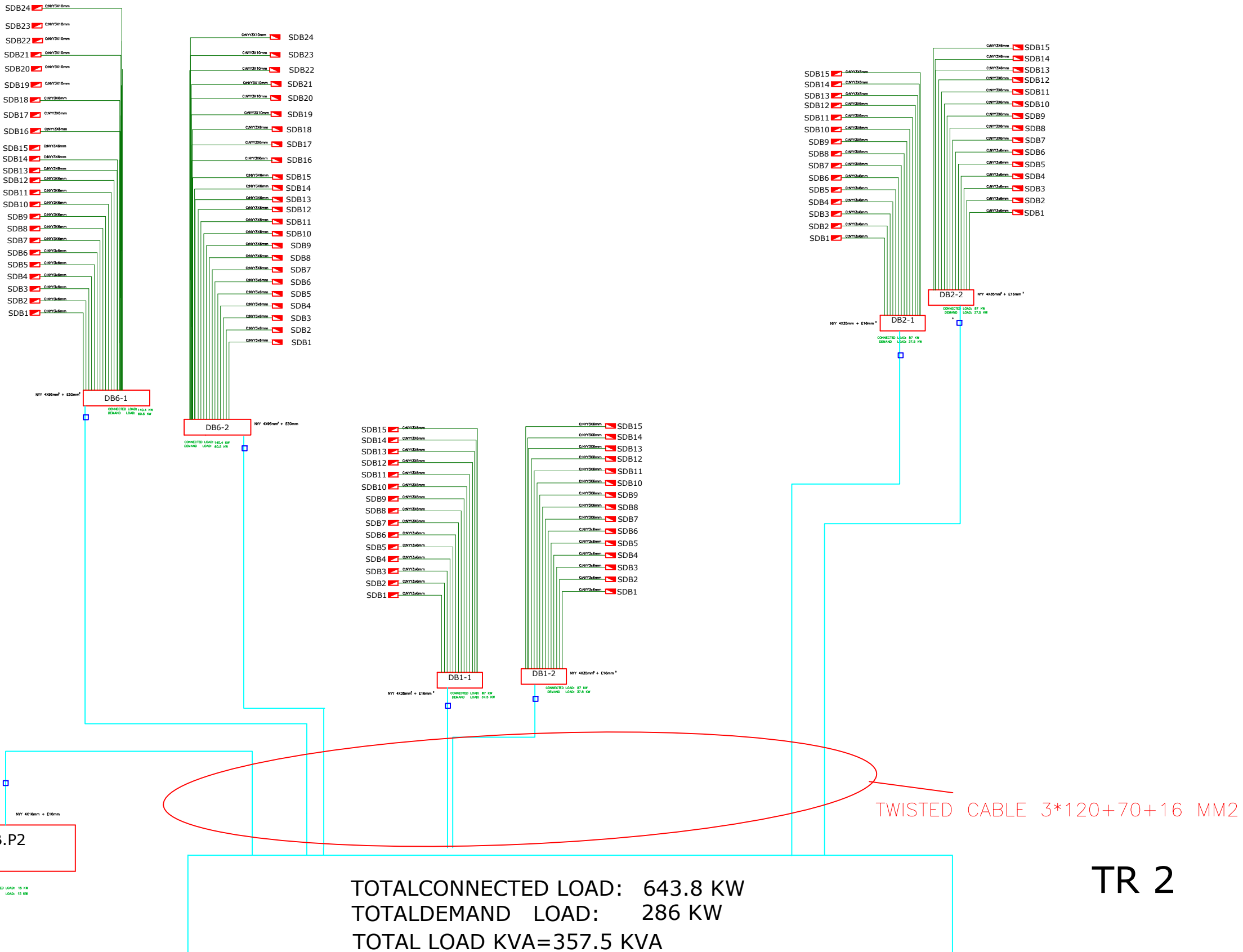
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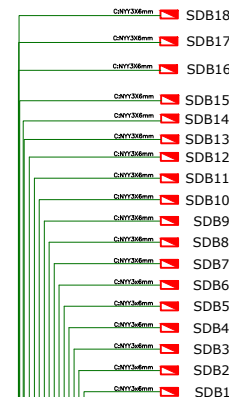
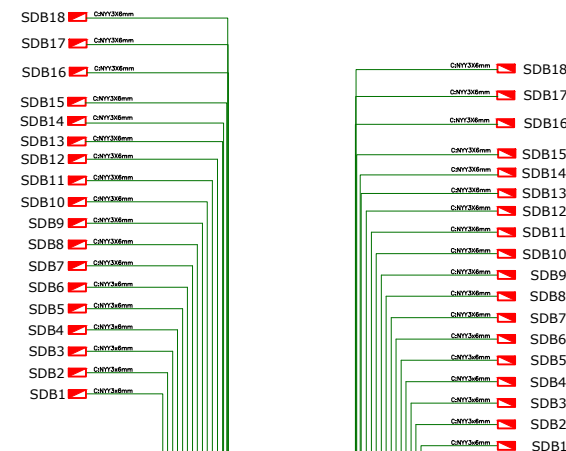
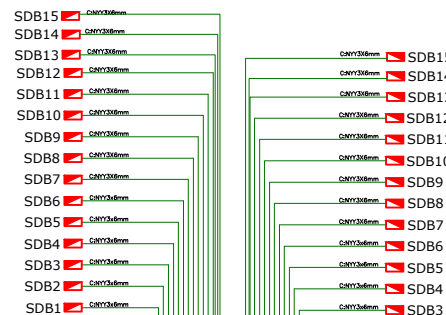
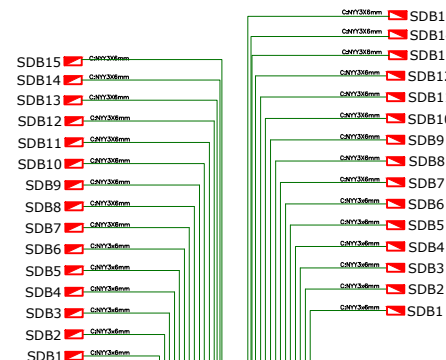
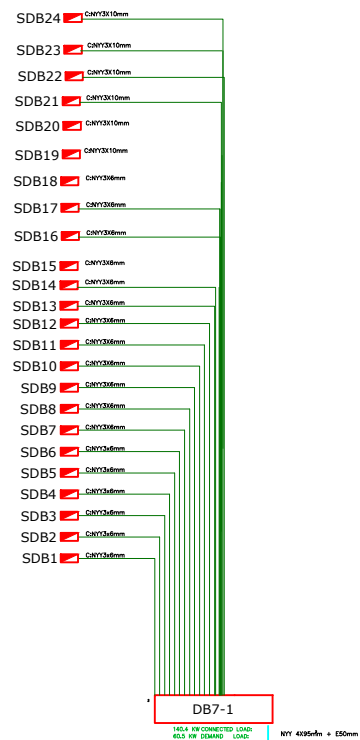
R.Almasri

Client:

UN-HABITAT

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TWISTED CABLE 3*120+70+16 MM2

TOTALCONNECTED LOAD: 699KW
TOTALDEMAND LOAD: 300.5 KW
TOTAL LOAD KVA=375.6 KVA

TR 3

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Legend:	
Symbols	Descriptions
	MDB - Main distribution board
	DB - distribution board
	ELECTRIC TRANSFORMER
	ELECTRIC POLE TYPE 1
	ELECTRIC POLE TYPE 2
	ELECTRIC POLE TYPE 3
	ELECTRIC POLE TYPE 4
	ALUMINUM WIRE 120mm2 ACSR(11KV)
	TWISTED CABLE 3*120+70+16 MM2

Project:
Right Side Mosul Buildings

Drawing :
ELECTRIC TRANSFORMER DISTRIBUTION

Location:
Mosul

Scale: N/A	SN: ELE-TR-3
Format: A3	

rev.	Description	Date
E	Tendering	28-05-2019
D	Tendering	15-05-2019
C	Tendering	05-03-2019
B	Tendering	06-03-2019
A	Concept Design	07-03-2019

Eng: Rawand

Approved by:
R.Almasri

Client:
UN-HABITAT

Right Side Mosul Low Cost House Units

2019-09-07

Sanitation Drawing for Site



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Legend:
Note: The location of installation for the pipes is under tiles.

WS pipes

Connection point with the main municipality network

Water tank 36.000 L

Project:
Right Side Mosul Buildings

Drawing :
Water Supply Site Plan

Location:
Mosul

Scale:
1/1000

SN:
WS-PL-01

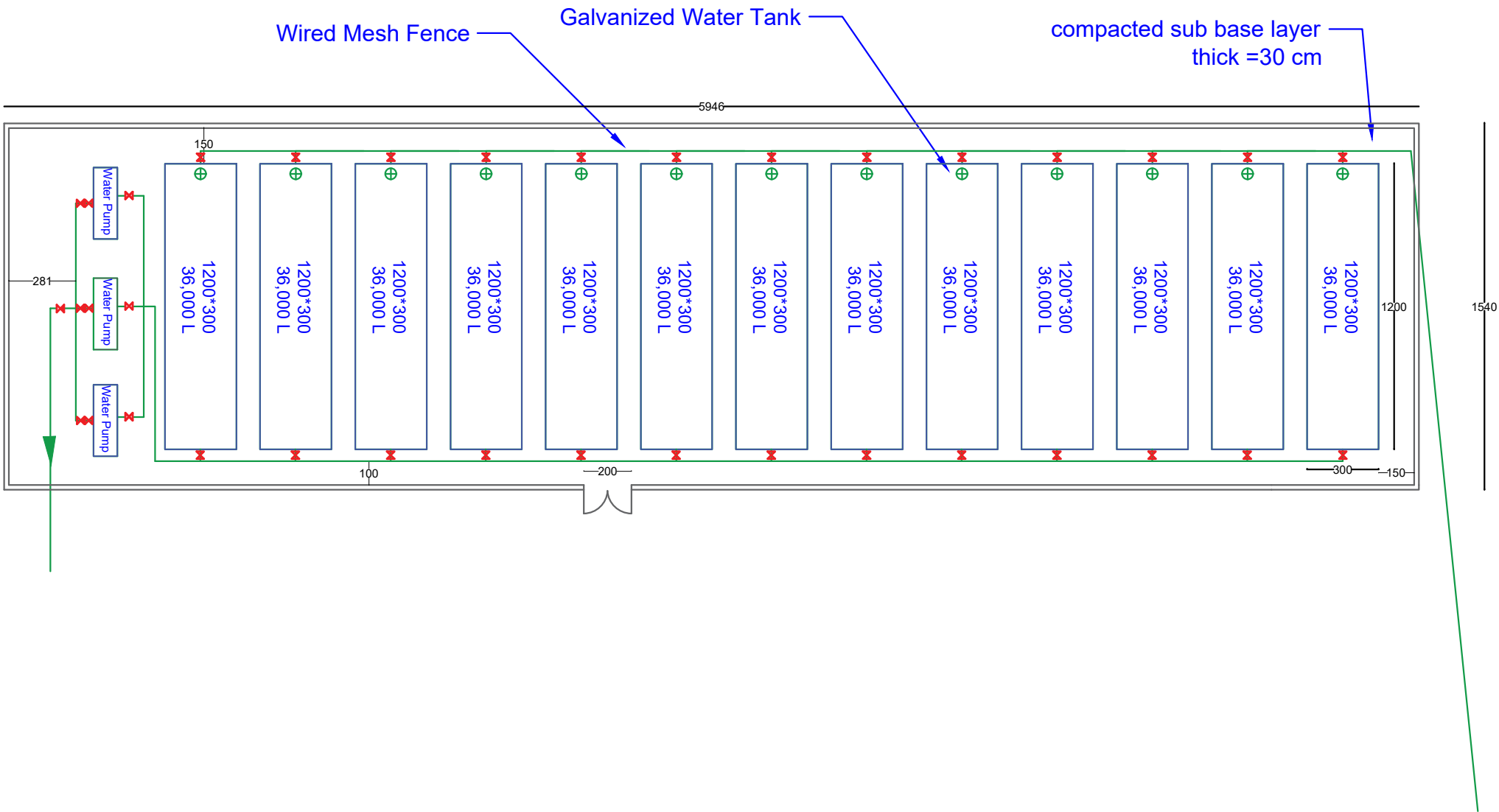
Format:
A3

rev.	Description	Date
E	Tendering	28-08-2019
D	Tendering	14-04-2019
C	Tendering	05-03-2019
B	Tendering	16-12-2018
A	Concept Design	15-11-2018

Arch: TAIF ALKAABI

Approved by:
R.Almasri

Client:
UN-HABITAT



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Legend:

Note: The location of installation for the pipes is under tiles.

- Water Supply pipes
- Water tank 36.000 L
- Mechanical VALVE

Project:
Right Side Mosul Buildings

Drawing :
Water pump station

Location:
Mosul

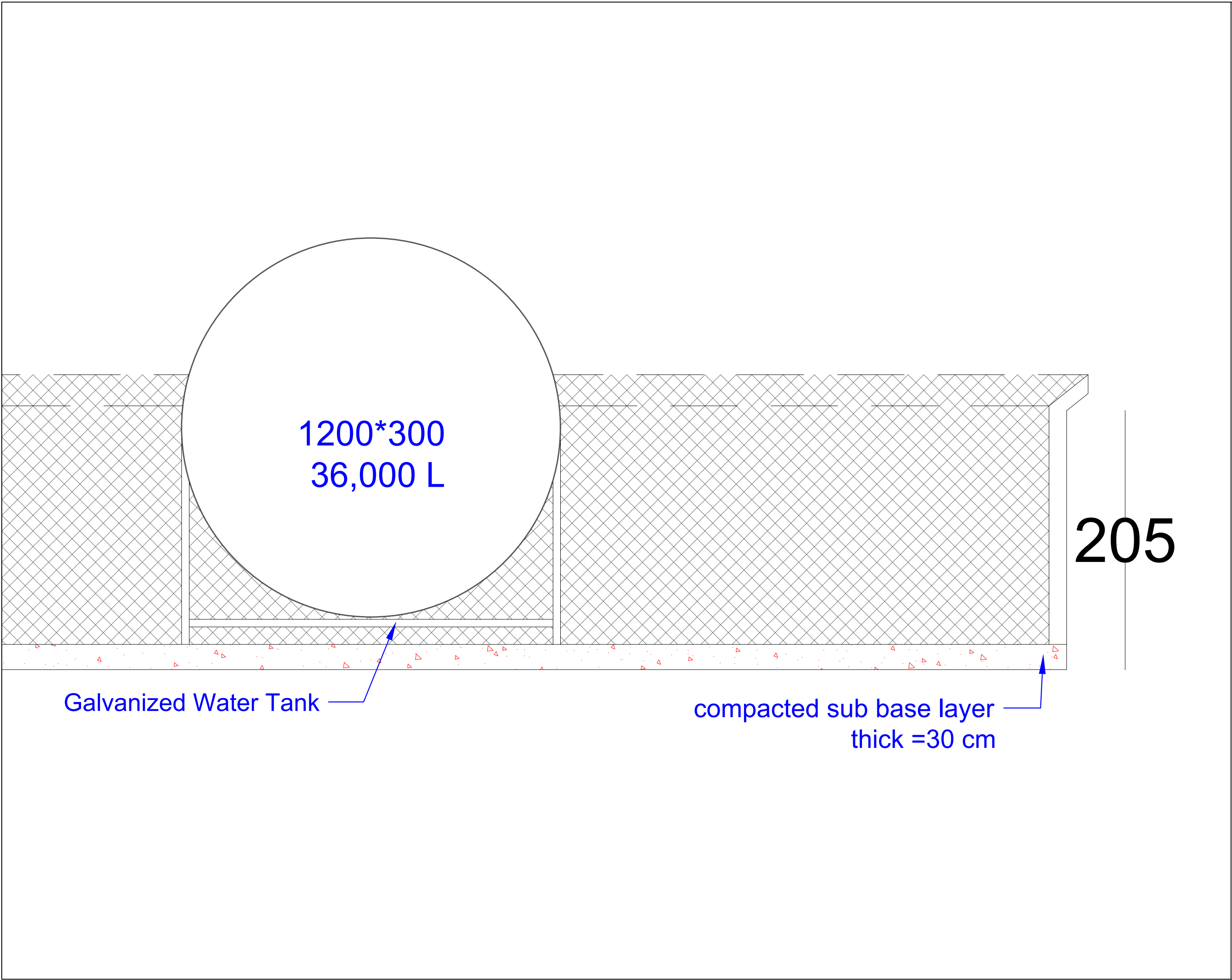
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Format: A3	

rev.	Description	Date
E	Tendering	28-08-2019
D	Tendering	14-04-2019
C	Tendering	05-03-2019
B	Tendering	16-12-2018
A	Concept Design	15-11-2018

Arch: TAIF ALKAABI

Approved by:
R.Almasri

Client:
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Legend:

Note: The location of installation for the pipes is under tiles.

Project:
Right Side Mosul Buildings

Drawing :
Water pump station

Location:
Mosul

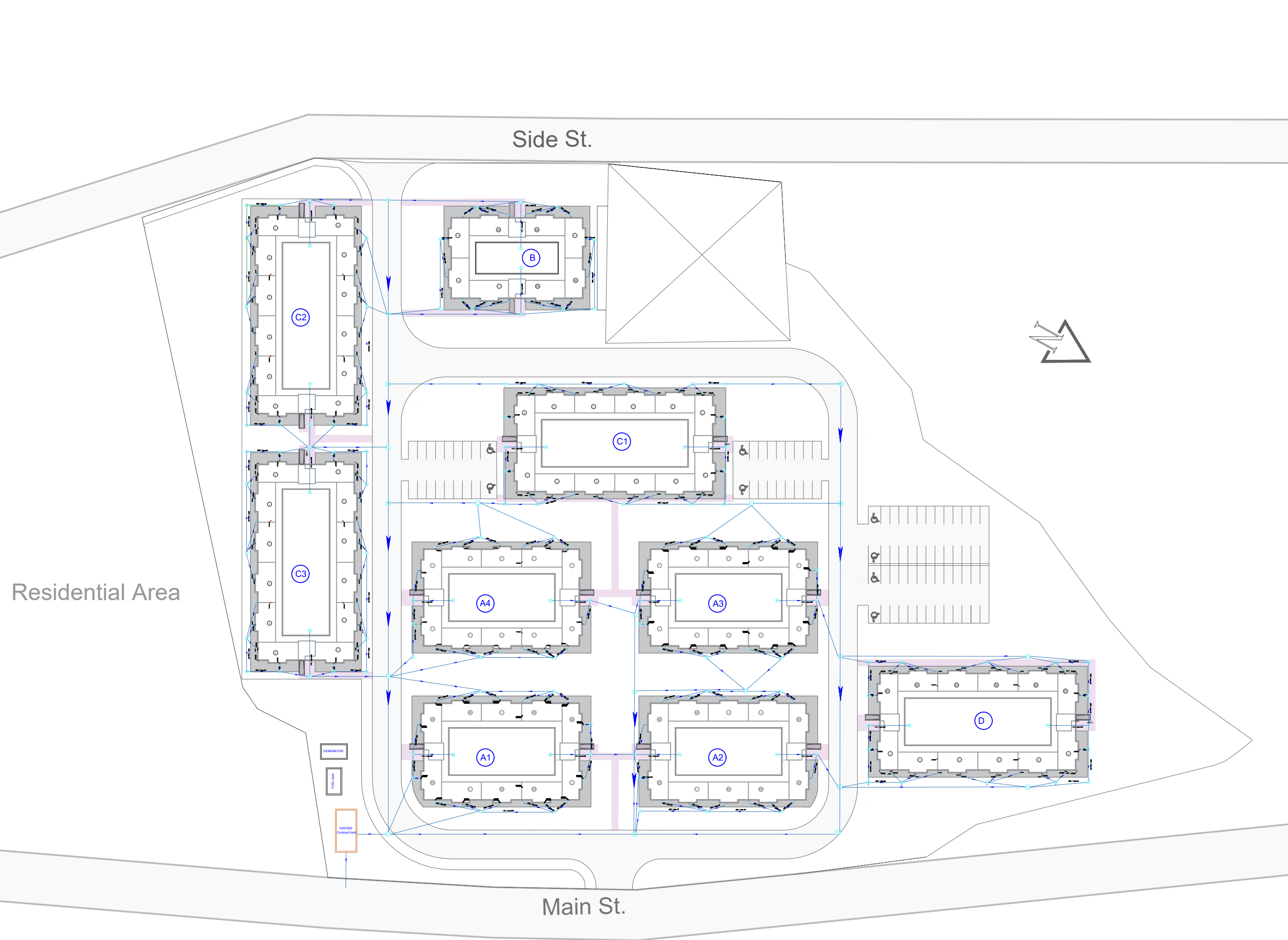
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Format: A3	

rev.	Description	Date
E	Tendering	28-08-2019
D	Tendering	14-04-2019
C	Tendering	05-03-2019
B	Tendering	16-12-2018
A	Concept Design	15-11-2018

Arch: TAIF ALKAABI

Approved by:
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Client:
UN-HABITAT



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Legend:

Note: The location of installation for the pipes is under tiles.

— PVC pipes

□ manhole

□ 1200*600 Compact tank

Project:
Right Side Mosul Buildings

Drawing :
Sewage Site Plan

Location:
Mosul

Scale:
1/1000

SN:
SE-PL-01

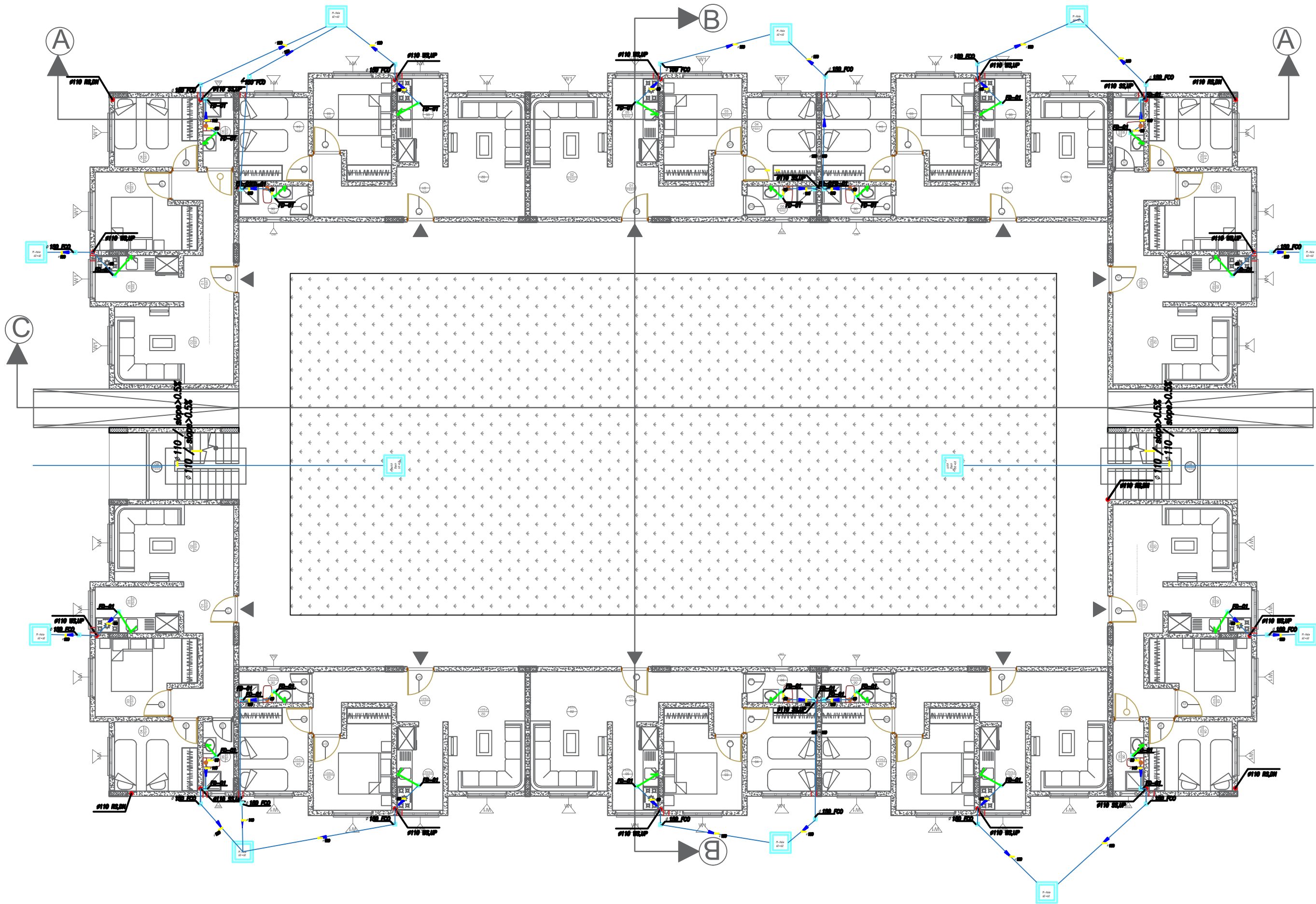
Format:
A3

rev.	Description	Date
E	Tendering	28-08-2019
D	Tendering	14-04-2019
C	Tendering	05-03-2019
B	Tendering	16-12-2018
A	Concept Design	15-11-2018

Arch: TAIF ALKAABI

Approved by:
R.Almasri

Client:
UN-HABITAT



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Legend:

Project:

Right Side Mosul Buildings

Drawing :

Ground Floor Sewage Plan-Type A

Location:

Mosul

Scale:

1/150

SN:

AR-PL-04

Format:

A3

rev.	Description	Date
B	Detailed Design	05-03-2019
AA	Concept Design	19-02-2019

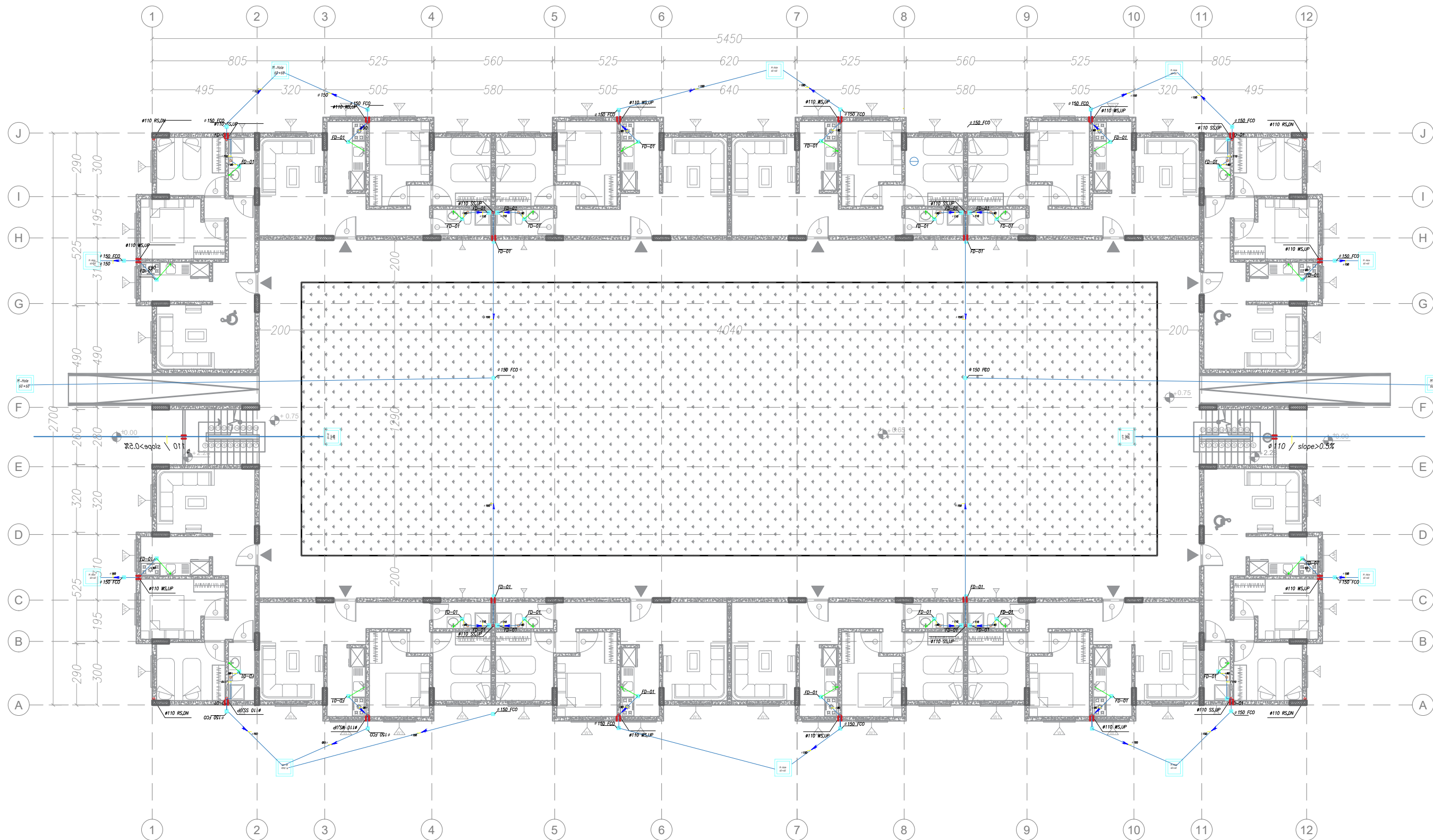
Arch: Shahyan Luttfi

Approved by:

R.Almasri

Client:

UN-HABITAT



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Legend:

Symbol	Description
	PVC pipes
	Manhole 60*60 cm
	Ø110 WS,UP
	wash basin PVC drain pipes
	PVC drain pipes

Project:

Right Side Mosul Buildings

Drawing :
Ground Floor Sewage Plan-Type C & D

Location:
Mosul

Scale:
1/200

Format:
A3

rev.	Description	Date
F	Tendering	19-06-2019
E	Tendering	14-04-2019
D	Tendering	27-03-2019
C	Tendering	05-03-2019
B	Tendering	16-12-2018
A	Concept Design	15-11-2018

Arch: Taif Alkaabi

Approved by:
R.Almasri

Client:
UN-HABITAT

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Legend:

Project:

Right Side Mosul Buildings

Drawing :

Ground Floor Sewage Plan-Type B

Location:

Mosul

Scale:

1/150

SN:

AR-PL-04

Format:

A3

rev.	Description	Date
B	Detailed Design	05-03-2019
AA	Concept Design	19-02-2019

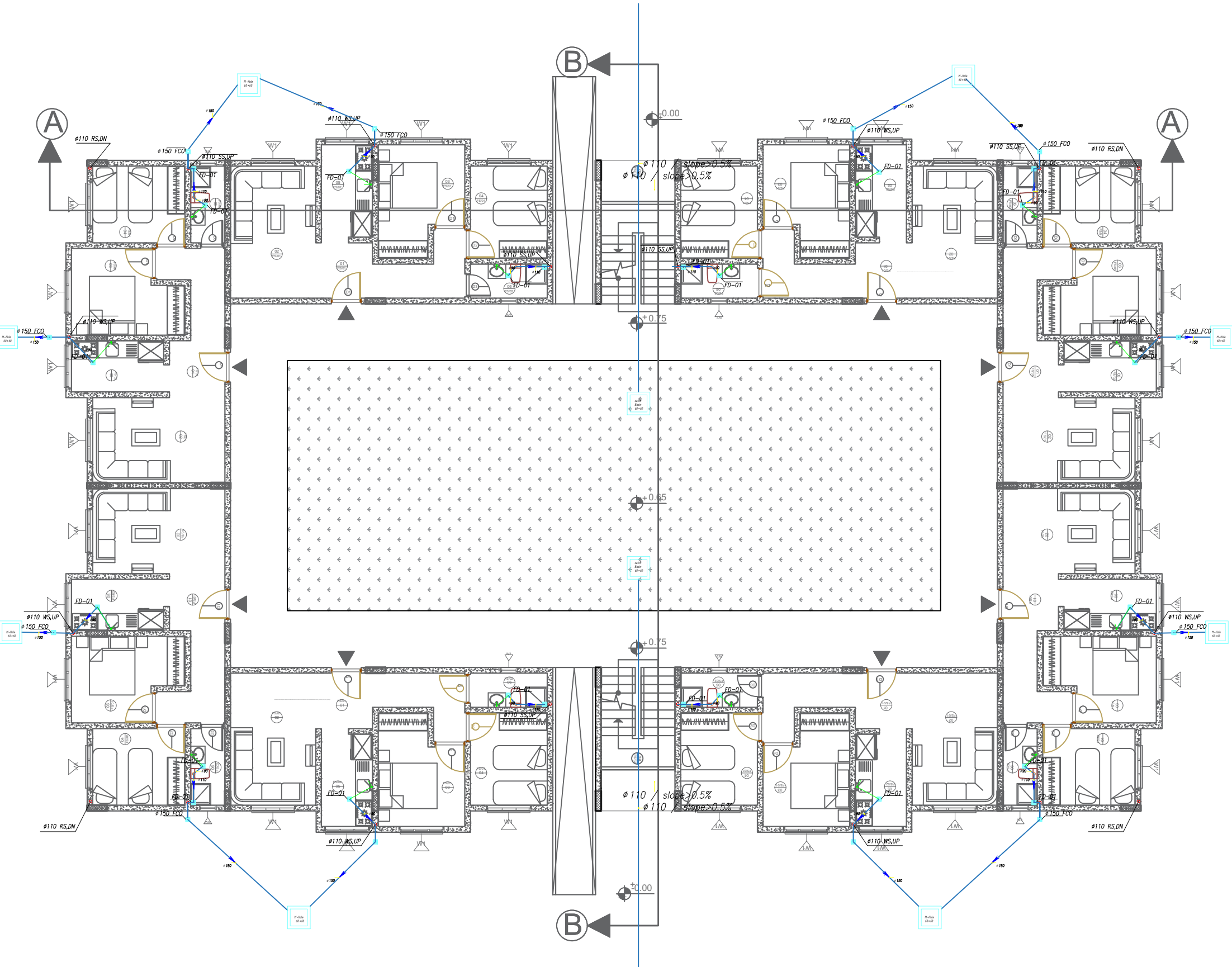
Arch: Shahyan Luttfi

Approved by:

R.Almasri

Client:

UN-HABITAT



WS EQUIPMENTS

NAME OF EQUIPMENT	BLOCK
GATE VALVE	
BALL VALVE	
FOAT VALVE	
SOLINOIDE VALVE	
TWO-WAY VALVE	SLV 
THREE-WAY VALVE	
CHECK ALARM VALVE	
GLOBE VALVE	
PRESSURE REDUCING VALVE	
CHROME PLATED VALVE	
BUTTERFLY VALVE	
PRESSURE GAUGE	
SAFETY VALVE	SV 
STRAINER	ST 
FLANGE OR UNION	
VALVE BOX	
EXPANSION JOINT	
WATER METER	
AUTOMATIC AIR VENT	VV 
U. V. TRETILISER	
PUMP IN LINE CIRCULATOR	
PUMP	
ELECTRIC WATER HEATER	
TANK (VERTICAL)	
FUEL BOILER	
BOILER ELECTRIC	
BOOSTER	BP 

WATER SUPPLY PIPES

AWJEVIATION	DESIGNATION
CW 	COLD WATER PIPES
HW 	HOT WATER PIPES
HWR 	HOT WATER RETURN PIPES
PCW 	PUMPED COLD WATER
DW 	POTABLE COLD WATER
W 	WATER FROM WELL
IR 	HOT SOFT WATER RETURN PIPES
WT	WATER TANK
	WELL
	HOSE PIP
	CUT OFF VALVES OF BATHROOM
	HWST
	E.T
	T.W.T
	CP
	SCP
	T.W.P
	T.W.U
	BP
	I.R.P

DRAINAGE PIPES &EQUIPMENT

AWJEVIATION	DESIGNATION
RW	STORM STACK
WW	WASTE STACK
VP	VENT PIPE
RD	RAIN WATER DRAIN
FD	FLOOR DRAIN
FDS	FLOOR DRAIN WITH SIPHONE
C.O	CLEAN OUT
C.O.S	CLEAN OUT WITH SIPHONE
 SP	SUBMERSIBLE PUMP
 SSP	SUMP PUMPS

FIRE FIGHTING PIPES

AWJEVIATION	DESIGNATION
FW 	FIRE FIGHTING PIPES
FH 	HOSE CABINET
FWR	FIRE WATER RISER
FP 	FIRE WATER PUMP
EX. CO2 	FIRE EXTINGUASHER WITH CO2
EX. FOAM 	FIRE EXTINGUASHER WITH FOAM
S 	FM-200 NOZZLE

EQUIVALENT PIPES DIAMETERS

Galvanized Steel Pip		Multi layer Pipe (Pex-Al-PEX)		Polypropylene Pipe (PPR - PN10)		Polypropylene Pipe (PPR - PN20)		Polypropylene Pipe (PPR - PN25)		PVC - C Pipe (CPVC - PN10)		PVC - C Pipe (CPVC- PN20)		PVC - C Pipe (CPVC - PN25)		Copper Pipes	
Nominal Diameter	Inside Diameter	Outside Diameter	Inside Diameter	Outside Diameter	Inside Diameter	Outside Diameter	Inside Diameter	Outside Diameter	Inside Diameter	Outside Diameter	Inside Diameter	Outside Diameter	Inside Diameter	Outside Diameter	Inside Diameter	Outside Diameter	Inside Diameter
(Inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
1/2"	12.7	16	12	20	16.2	25	16.6	25	15.0	20	17.0	20	16.2	-	-	15	13.43
3/4"	19.05	25	20	25	20.4	32	21.2	32	19.2	25	21.2	25	20.4	25	19.4	22	20.00
1"	25.4	32	26	32	26.0	40	26.6	40	24.0	32	27.2	32	26.0	32	24.8	28	26.00
1 1/4"	31.75	40	32	40	32.6	50	33.2	50	30.0	40	34.0	40	32.6	40	31.0	35	32.35
1 1/2"	38.1	50	41	50	40.8	63	42.0	63	37.8	50	42.6	50	40.8	50	38.8	42	39.35
2"	50.8	63	51	63	51.4	75	50.0	75	45.0	63	53.6	63	51.4	63	49.0	54	51.35
2 1/2"	63.5	75	60	75	61.2	90	60.0	-	-	75	63.8	75	61.2	75	58.2	67	64.11
3"	76.2	90	73	90	73.6	110	73.2	-	-	90	76.6	90	73.6	90	70.0	76	72.85
4"	101.6	110	90	110	90.0	-	-	-	-	110	93.6	110	90.0	110	85.4	108	104.70

Notes:
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Legend:

Project:

Right Side Mosul Buildings

Drawing :
General Details 03

Location:
Mosul

Scale:
N/A

SN:
SA-DT-03

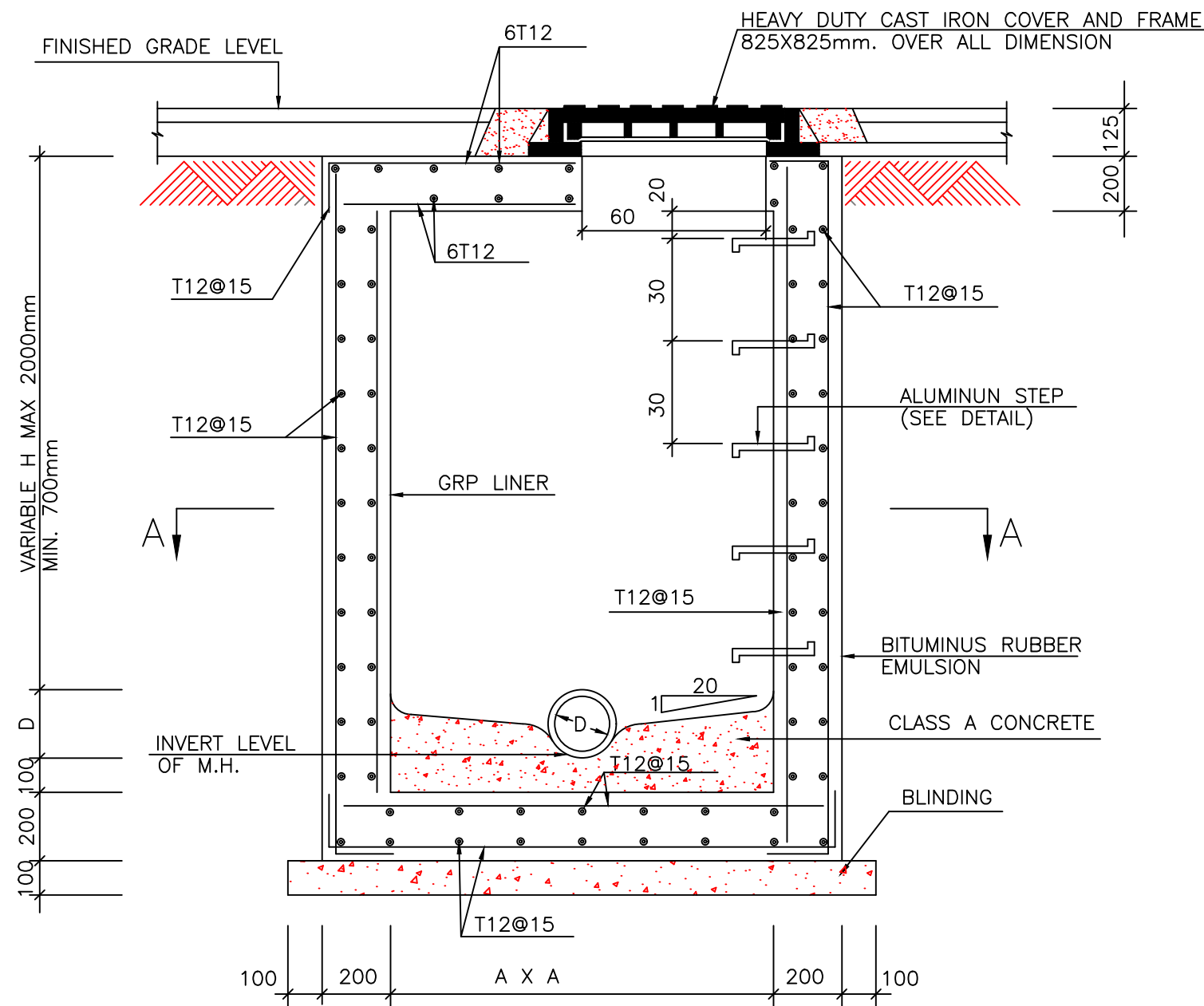
Format:
A3

rev.	Description	Date
E	Tendering	28-08-2019
D	Tendering	14-04-2019
C	Tendering	05-03-2019
B	Tendering	16-12-2018
A	Concept Design	15-11-2018

Arch: Sara Faruq

Approved by:
R.Almasri

Client:
UN-HABITAT



CONCRETE MANHOLE

Notes:
All dimensions are in centimeters unless is noted
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This drawing is to be read in conjunction with all other relevant drawings.

Legend:

Project:

Right Side Mosul Buildings

Drawing :

Concrete Manhole

Location:

Mosul

Scale:

N/A

SN:

SE-DT02-

Format:

A3

rev.	Description	Date
E	Tendering	28-08-2019
D	Tendering	14-04-2019
C	Tendering	05-03-2019
B	Tendering	16-12-2018
A	Concept Design	15-11-2018

Arch: TAIF ALKAABI

Approved by:

R.Almasri

Client:

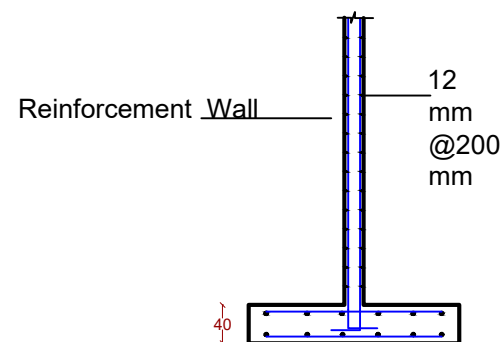
UN-HABITAT

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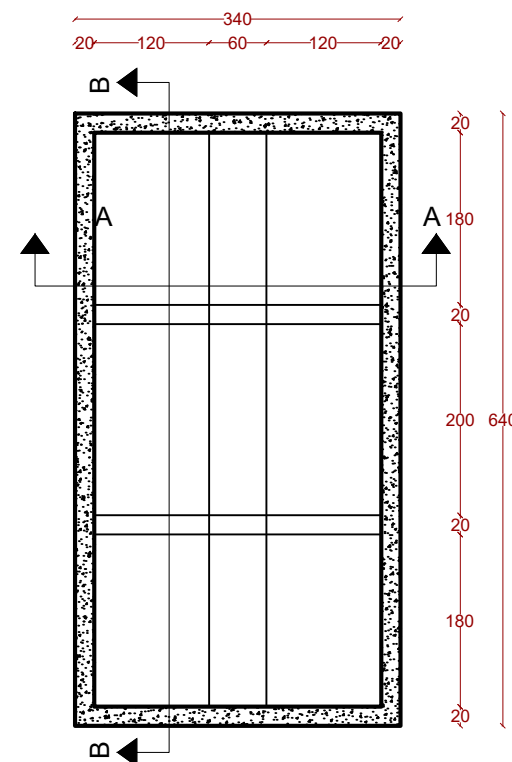


Raft Foundation Details

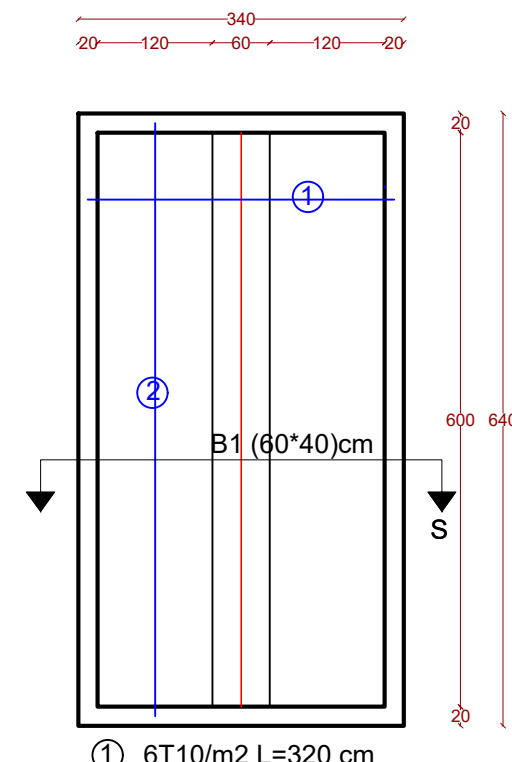
Slab Section (s-s)



Wall Details



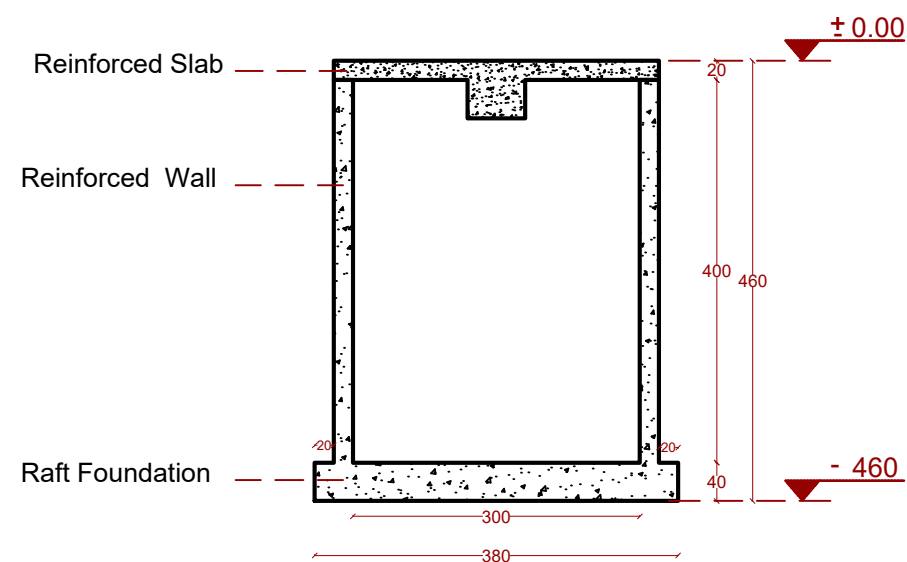
Sub - Tank Details



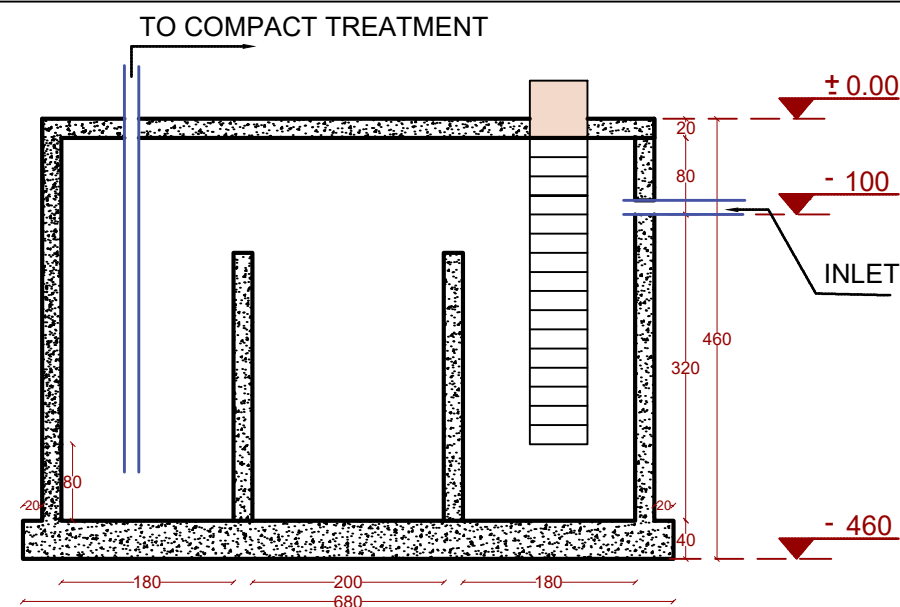
① 6T10/m² L=320 cm

② 5T10/m² L=620 cm

Slab Reinforced Details



Section (A-A)



Section (B-B)

SEPTIC TANK

Notes:
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This drawing is to be read in conjunction with all other relevant drawings.

Legend:

Project:

Right Side Mosul Buildings

Drawing :

Septic tank Details

Location:

Mosul

Scale:

N/A

Format:

A3

SN:

SA-DT-03

rev.	Description	Date
E	Tendering	28-08-2019
D	Tendering	14-04-2019
C	Tendering	05-03-2019
B	Tendering	16-12-2018
A	Concept Design	15-11-2018

Eng:M. Al-najar

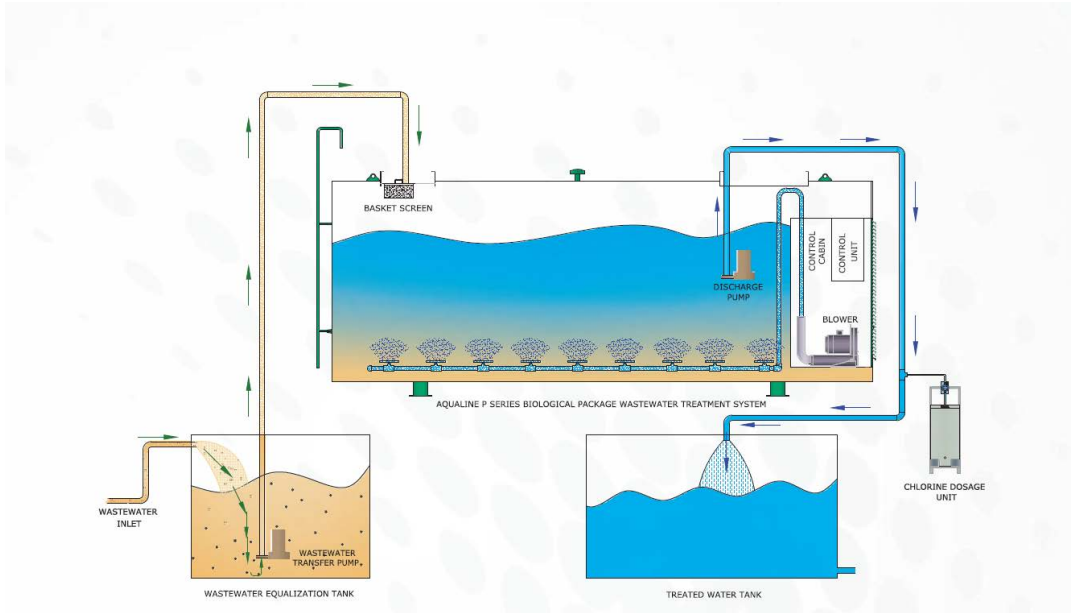
Approved by:

R.Almasri

Client:

UN-HABITAT

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M ³	KG	BXLXH	KW
180	54	6*11.9*3	14

COMPACTE SEWEG TREATMENT UNITE

Notes:
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Legend:

Project:
 Right Side Mosul Buildings

Drawing :
 COMPACTE SEWEG TREATMENT UNITE

Location:
 Mosul

Scale: N/A	SN: SA-DT-04
Format: A3	

rev.	Description	Date
E	Tendering	28-08-2019
D	Tendering	14-04-2019
C	Tendering	05-03-2019
B	Tendering	16-12-2018
A	Concept Design	15-11-2018

Eng: M. Al-najar

Approved by:
 R.Almasri

Client:
 UN-HABITAT

