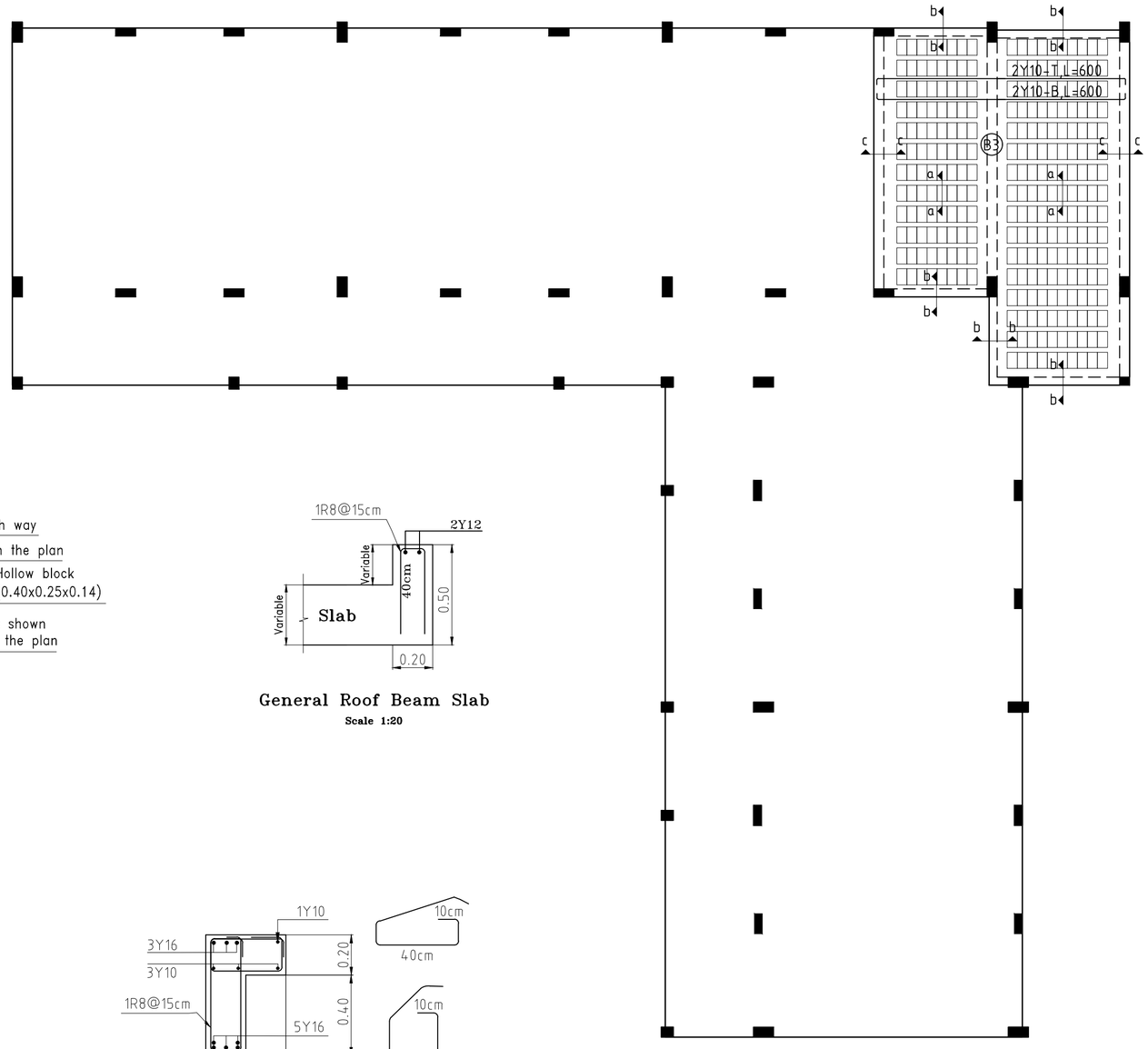
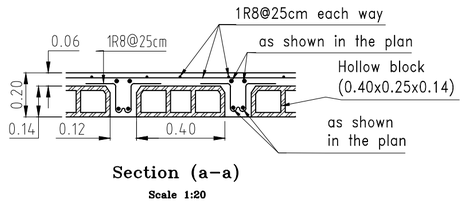


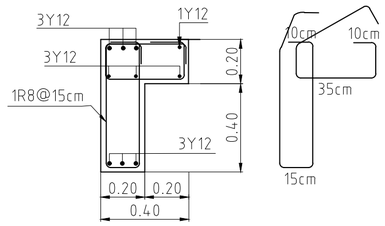


Section (a-a)

Scale 1:20

General Roof Beam Slab

Scale 1:20



Section (b-b)

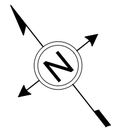
Scale 1:20

Section (c-c)

Scale 1:20

State of Palestine
Ministry of Education & Higher Education

NOTES :-



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CONSULTANT:

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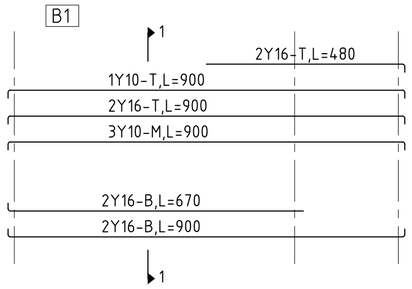
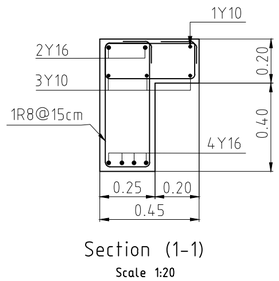
Abo Tamam Primary Girls School

DRAWING TITLE:
ROOF FLOOR SLAB

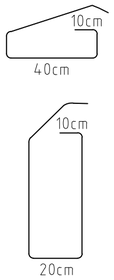
DESIGN: M. SABBAH	DATE: 2-february-2016
DRAWN: M. SABBAH	
APPROVED: A.A.	SCALE: 1:100/A2
SHEET NO: **ST009**	

B1

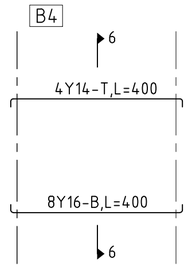


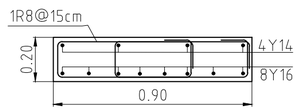


Section (1-1)
Scale 1:20

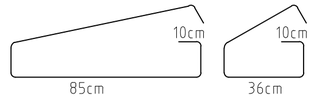


B4

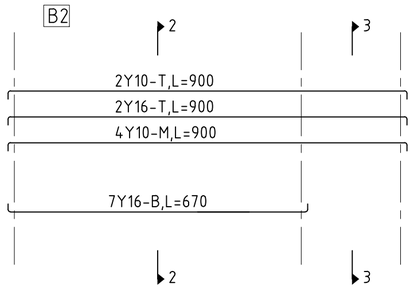


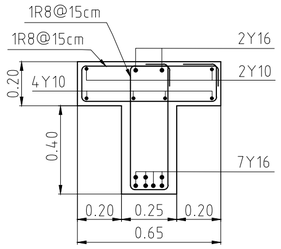


Section (6-6)
Scale 1:20

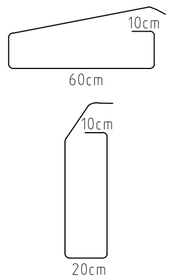


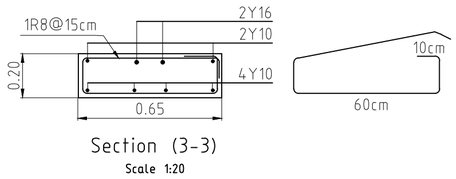
B2





Section (2-2)
Scale 1:20





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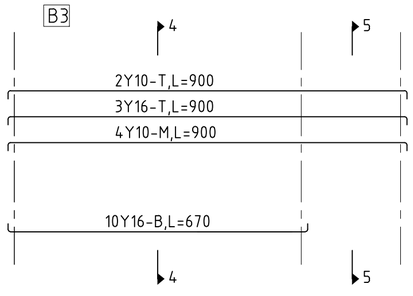
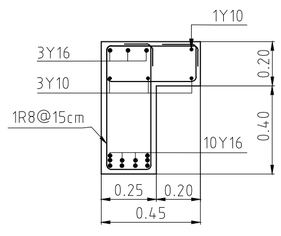
Scale 1:20





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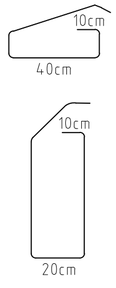
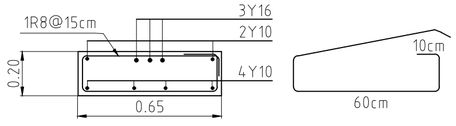
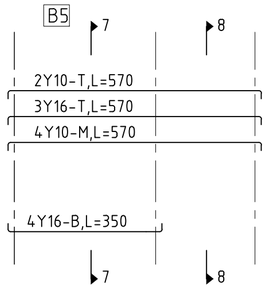
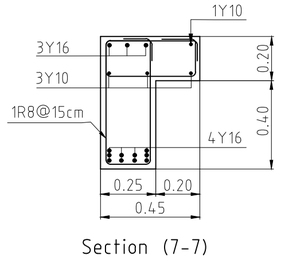




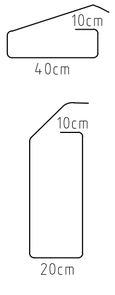
Section (5-5)
Scale 1:20

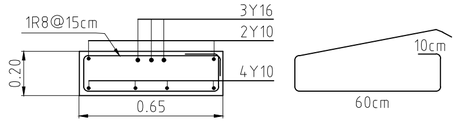
B5





Section (7-7)
Scale 1:20





Section (8-8)
Scale 1:20

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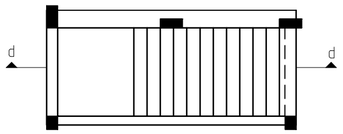
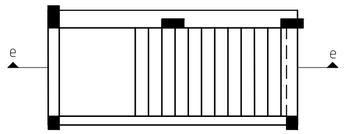
Abo Tamam Primary Girls School

DRAWING TITLE:
BEAMS SLABS DETAILS

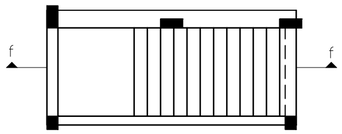
DESIGN: M. SABBAH	DATE: 2-february-2016
DRAWN: M. SABBAH	
APPROVED: A.A.	SCALE: 1:100/A2
SHEET NO: **ST10**	



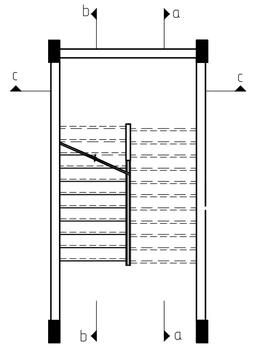
TYPICAL Stair Case Plan
(between existing & new building)
GROUND FLOOR



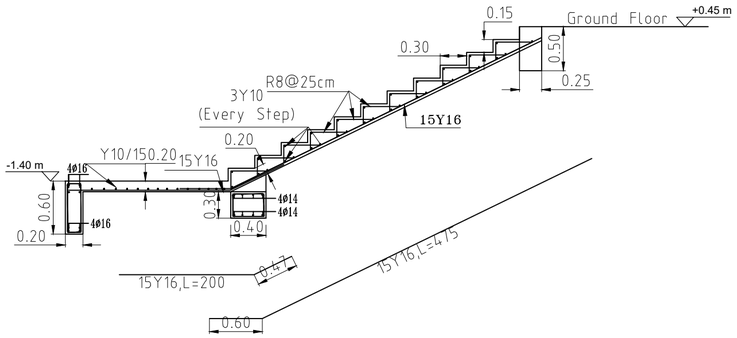
TYPICAL Stair Case Plan
(between existing & new building)
FIRST FLOOR



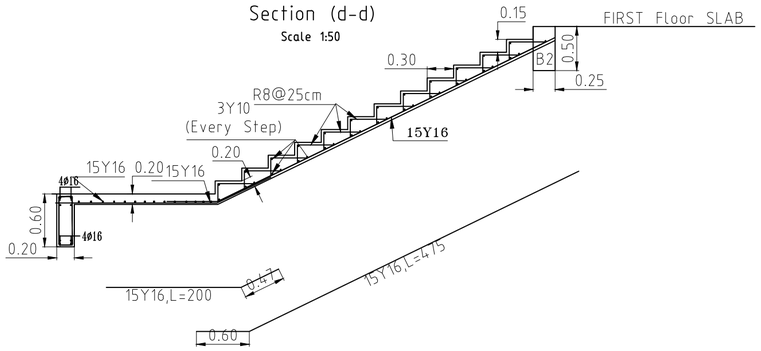
TYPICAL Stair Case Plan
(between existing & new building)
SECOND FLOOR



TYPICAL Stair Case Plan



Section (d-d)
Scale 1:50



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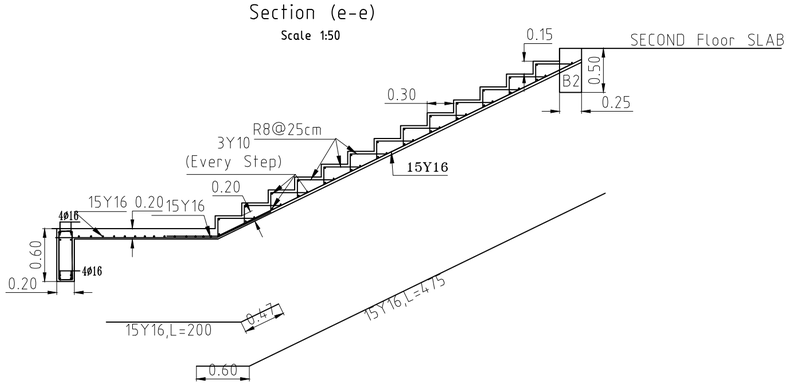
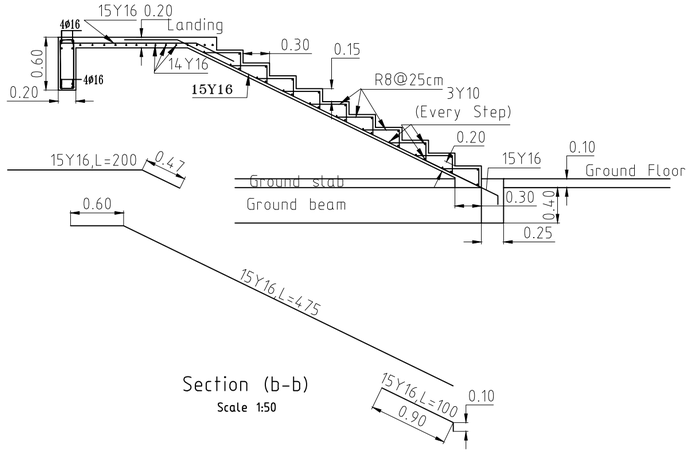
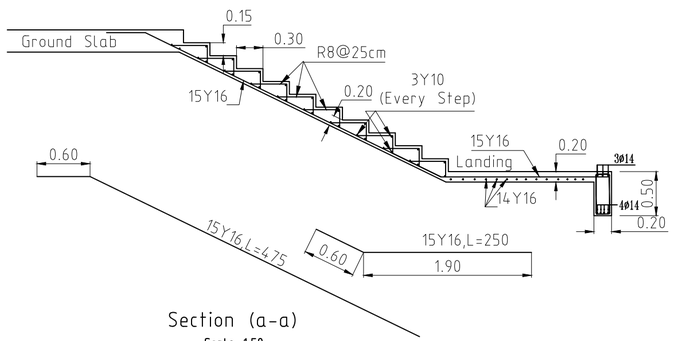
Scale 1:50



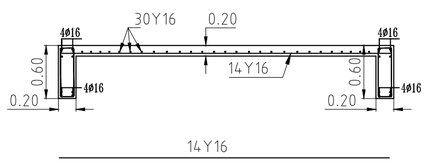
Section (f-f)
Scale 1:50



Section (b-b)
Scale 1:50



Section (a-a)
Scale 1:50



Section (c-c)
Scale 1:50

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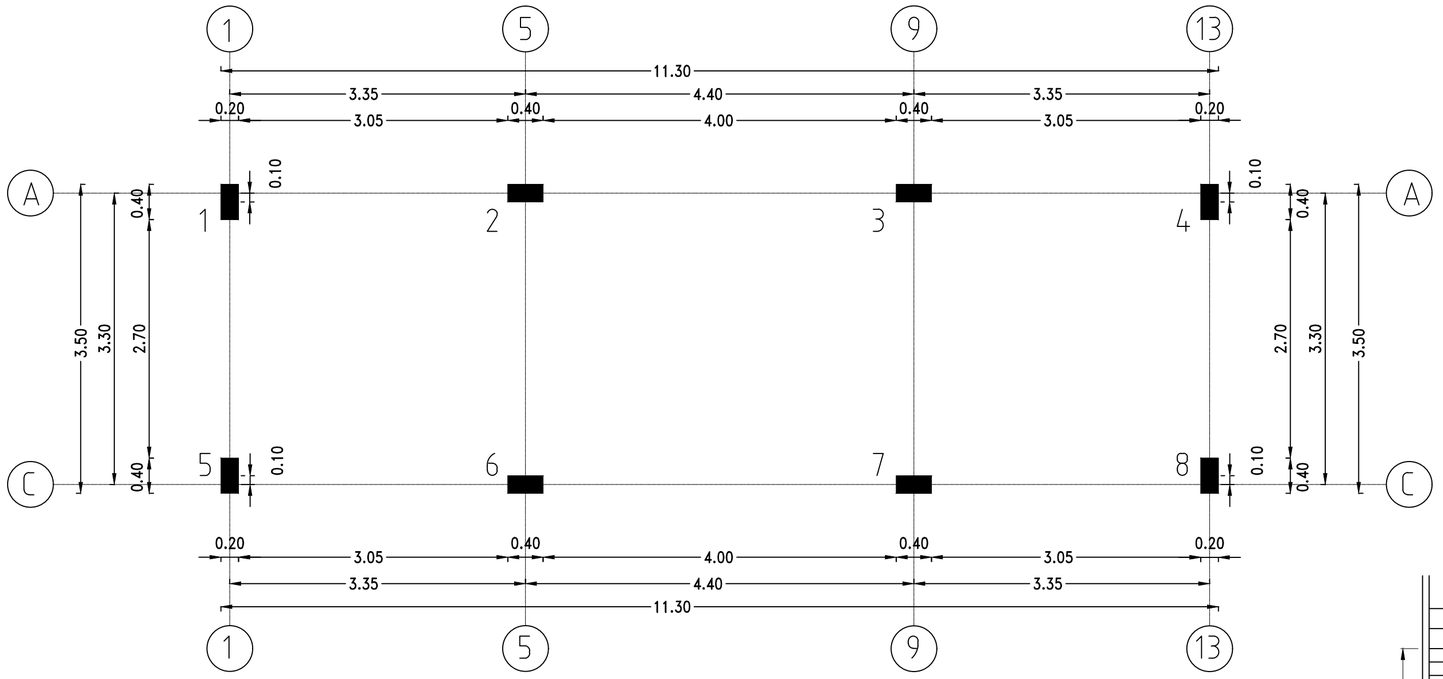
Abo Tamam Primary Girls School

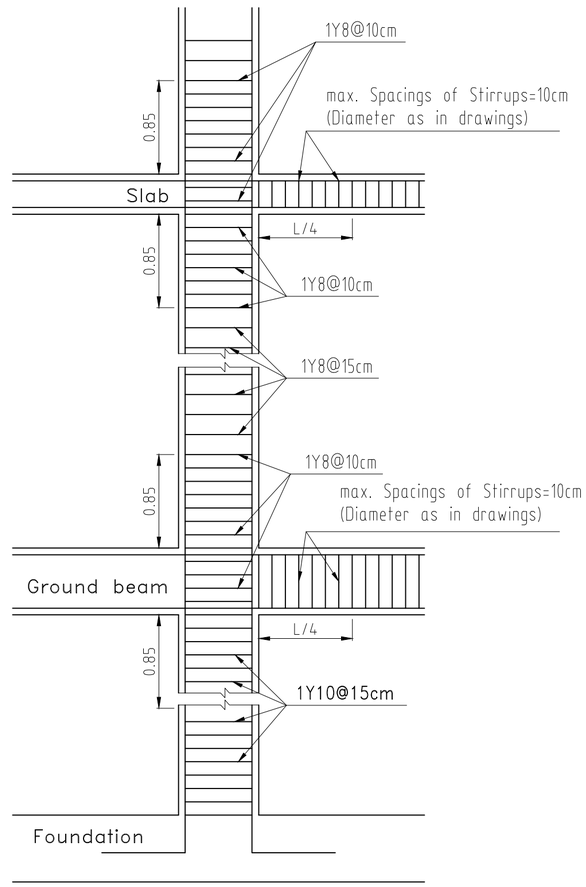
DRAWING TITLE:
STAIR-CASE DETAILS

DESIGN: M. SABBAH	DATE: 2-february-2016
DRAWN: M. SABBAH	
APPROVED: A.A.	SCALE: 1:100/A2
SHEET NO: **ST011**	



COLUMNS AXES PLAN

SCALE 1:50



Typical Details For
Stirrup Spacings

State of Palestine
Ministry of Education & Higher Education

NOTES :-

1. TOILET LOCATION IS ACCORDING TO SITE PLAN AND AS DIRECTED BY THE ENGINEER.
2. FINAL LEVELS SHALL BE DETERMINED ON SITE BY THE ENGINEER.
3. CONCRETE USED AS FOLLOWS:
   B-200 FOR PLAIN CONCRETE & LINTELS.
   B-300 FOR FOOTINGS, GROUND BEAMS, COLUMNS, SLABS AND STAIRS.
4. STEEL :
   (Y) HOT ROLLED HIGH YIELD (fy = 4250 Kg/cm^2)
   (R) HOT ROLLED MILD STEEL (fy = 2500 Kg/cm^2)
   (T) COLD WORKED STEEL MESHES (fy = 5000 Kg/cm^2)
5. BEARING CAPACITY FOR SOIL IS 16t/m2 ACCORDING TO SOIL INVESTIGATION REPORT.
6. POLYETHYLENE SHEET SHOULD BE ADDED BELOW CONCRETE WHICH LAYING DIRECTLY ON SOIL.

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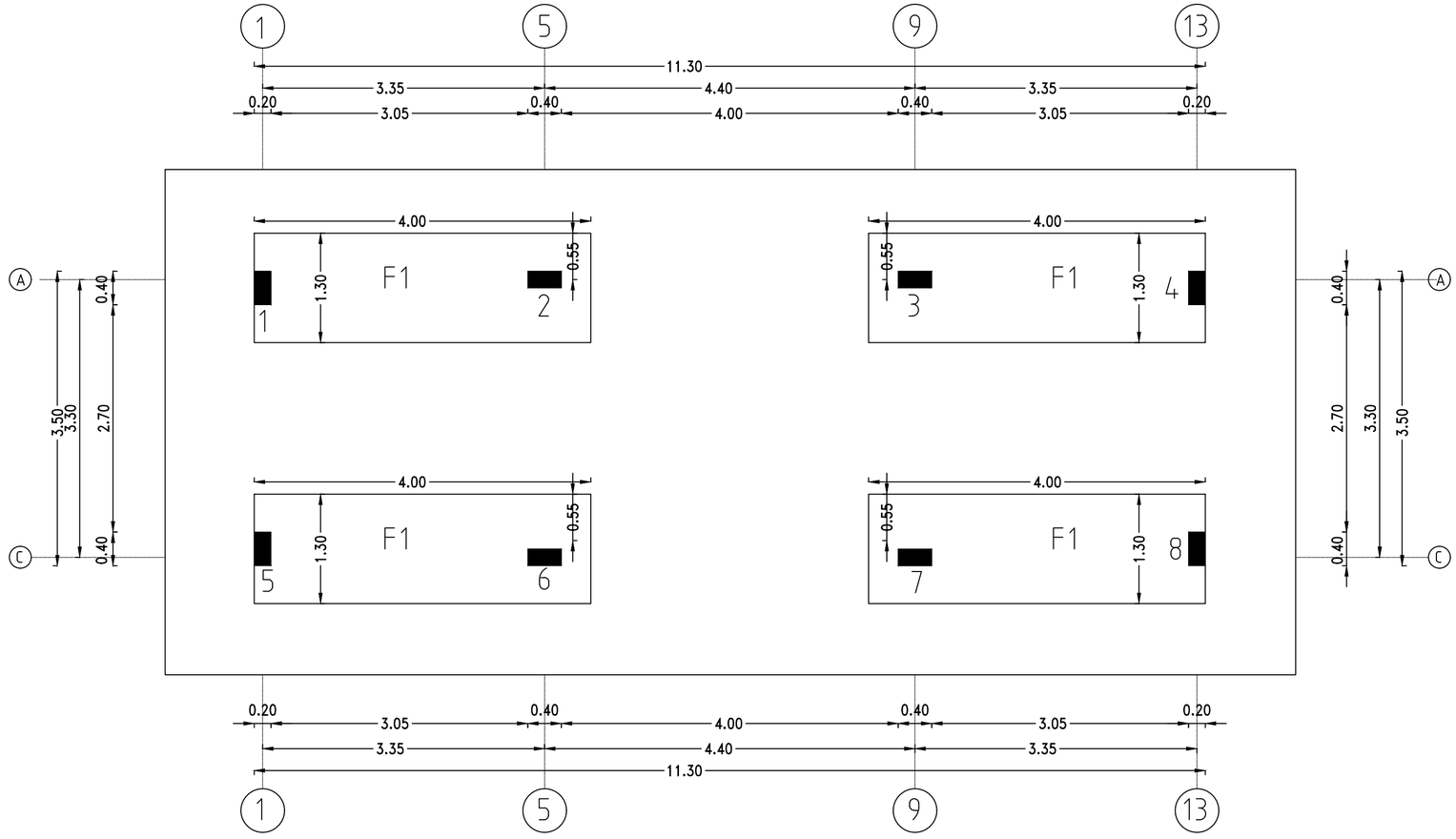
Abo Tamam Primary Girls School

DRAWING TITLE:
TOILET STRUCTURAL DETAILS

DESIGN: M. SABBAH	DATE: 2-february-2016
DRAWN: M. SABBAH	
APPROVED: A.A.	SCALE: 1:100/A2
SHEET NO: **ST012**	



FOUNDATION LAYOUT

SCALE 1:50

Table of Combined Footings

Footing No.	Total	Footing Size			Bottom Reinforcement		Top Reinforcement	
		Length	Width	Depth	Short direction	Long direction	Short direction	Long direction
F1	1	400	130	40	25 ⌊ 390 ⌋ 25 Y14/20cm	25 ⌊ 120 ⌋ 25 Y14/20cm	25 ⌈ 390 ⌉ 25 Y14/12cm	25 ⌈ 120 ⌉ 25 Y14/20cm

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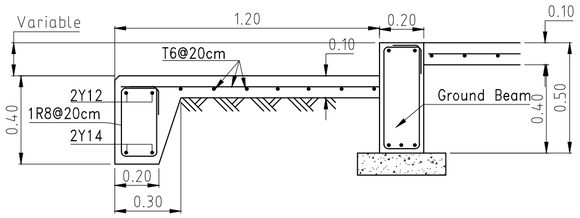
Abo Tamam Primary Girls School

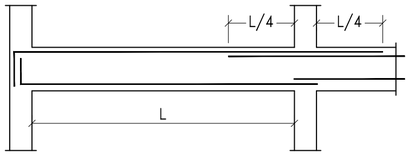
DRAWING TITLE:
TOILET STRUCTURAL DETAILS

DESIGN: M. SABBAH	DATE: 2-february-2016
DRAWN: M. SABBAH	
APPROVED: A.A.	SCALE: 1:100/A2
SHEET NO: **ST013**	

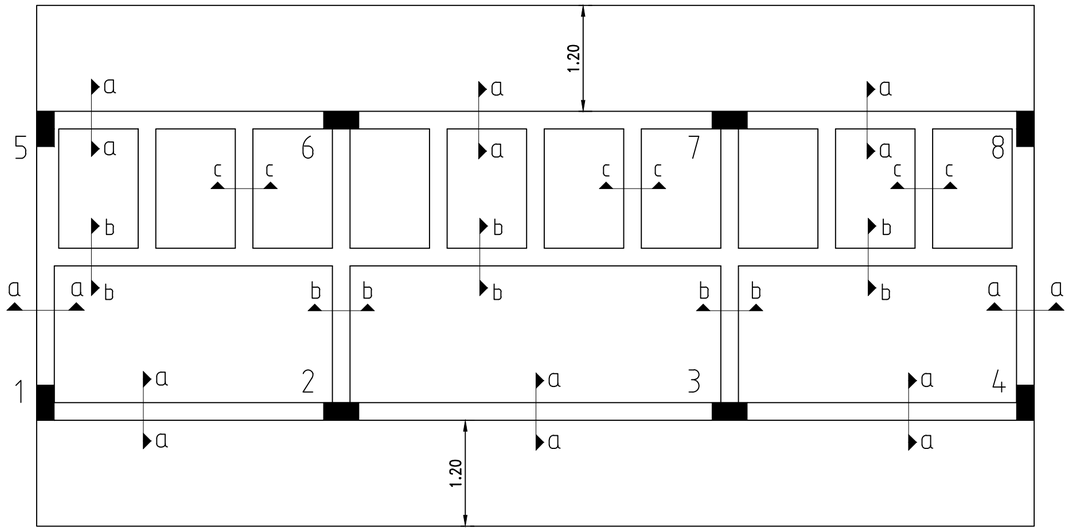


Typical Section in 1.2m wide apron

Scale 1:20

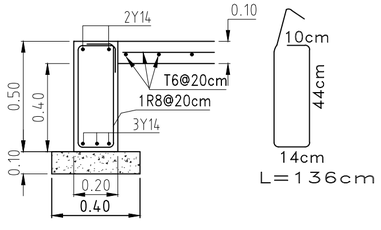


Typical Longitudinal Section For GROUND BEAM



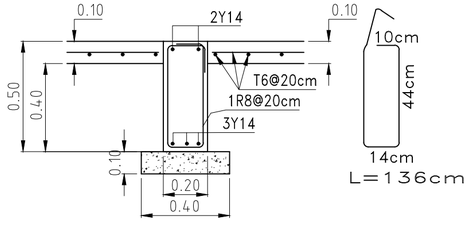
GROUND BEAMS LAYOUT

SCALE 1:50



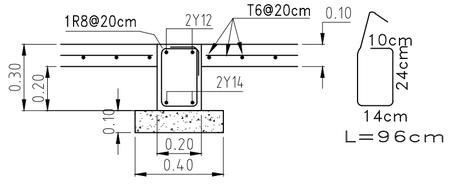
Section (a-a)

Scale 1:20



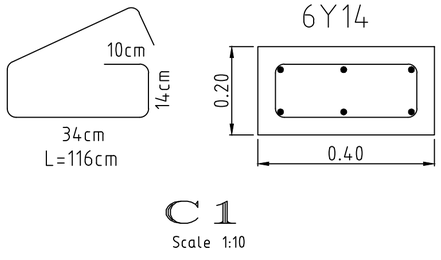
Section (b-b)

Scale 1:20



Section (c-c)

Scale 1:20



C1

Scale 1:10

Table of types of columns

Columns Type	Column Number	Total	Columns Size		Reinforcement	
			Width	Length	Bars	Stirrups
C1	1,2,3,4,5,6,7,8	8	20	40	6Y14	R8@20cm

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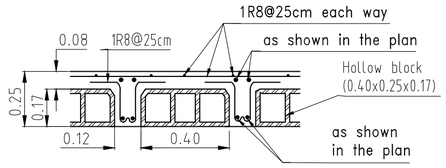
Abo Tamam Primary Girls School

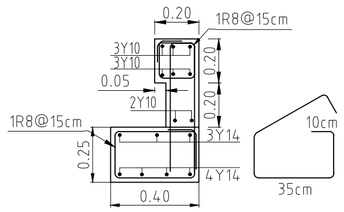
DRAWING TITLE:
TOILET STRUCTURAL DETAILS

DESIGN: M. SABBAH	DATE: 2-february-2016
DRAWN: M. SABBAH	
APPROVED: A.A.	SCALE: 1:100/A2
SHEET NO: **ST014**	



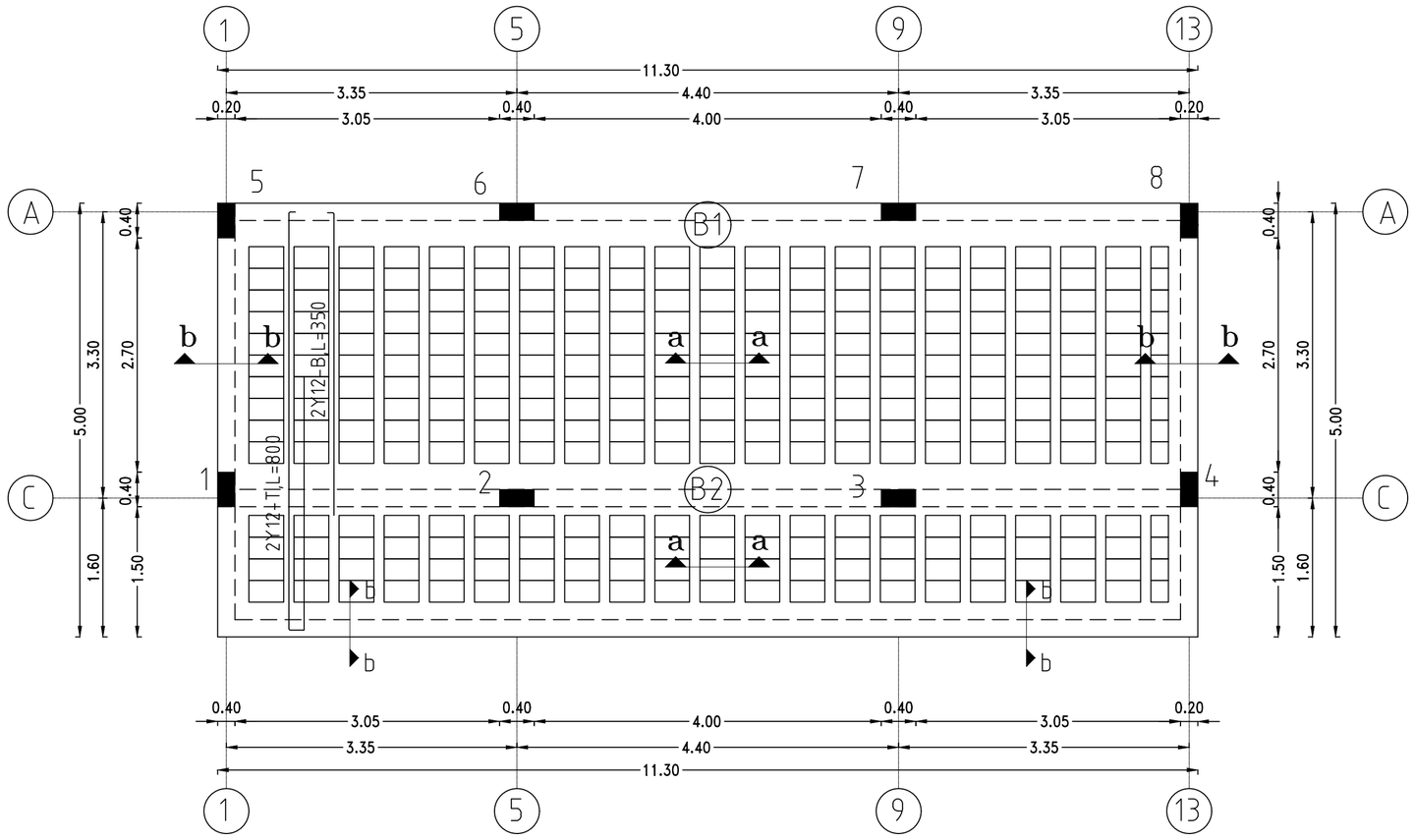
Section (a-a)

Scale 1:20



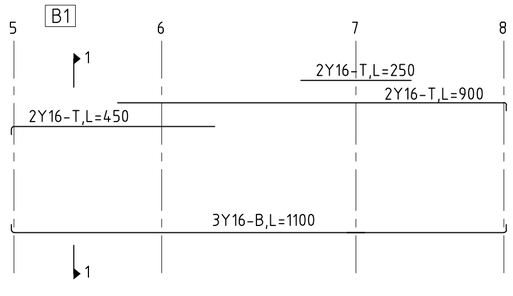
Section (b-b)

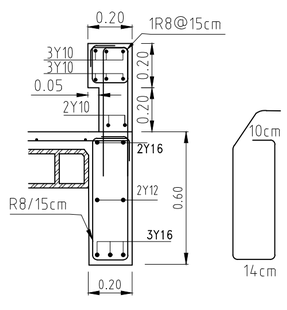
Scale 1:20



TOILET FLOOR SLAB

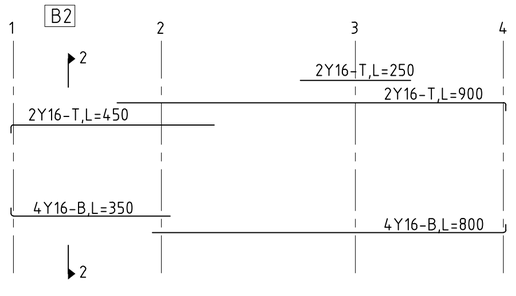
SCALE 1:50

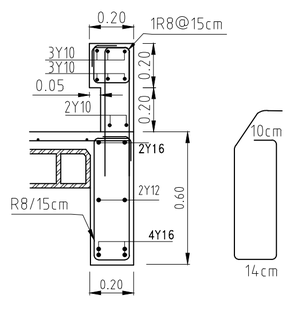




Section (1-1)

Scale 1:20





Section (2-2)

Scale 1:20

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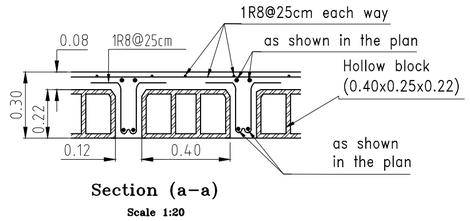
Abo Tamam Primary Girls School

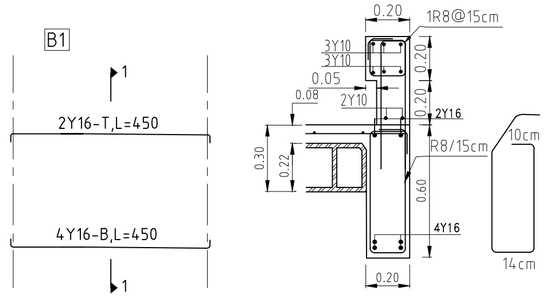
DRAWING TITLE:
TOILET STRUCTURAL DETAILS

DESIGN: M. SABBAH	DATE: 2-february-2016
DRAWN: M. SABBAH	
APPROVED: A.A.	SCALE: 1:100/A2
SHEET NO: **ST015**	



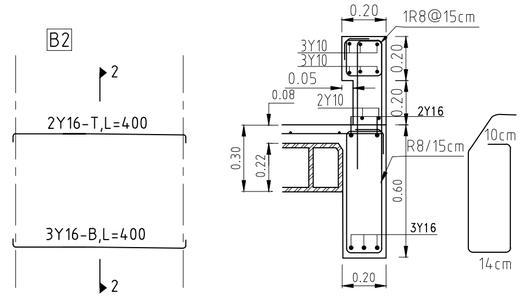
Section (a-a)

Scale 1:20



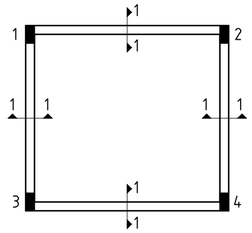
Section (1-1)

Scale 1:20



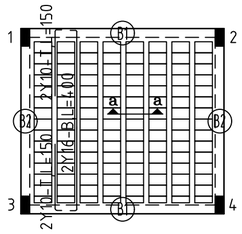
Section (2-2)

Scale 1:20



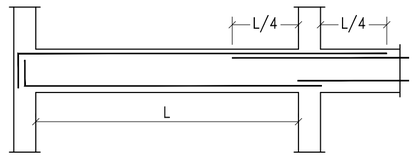
GROUND BEAMS LAYOUT

SCALE 1:100

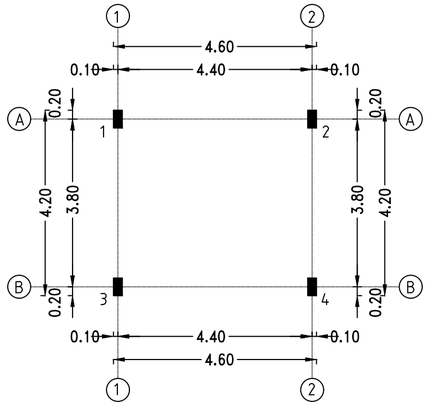


FLOOR SLAB

SCALE 1:100

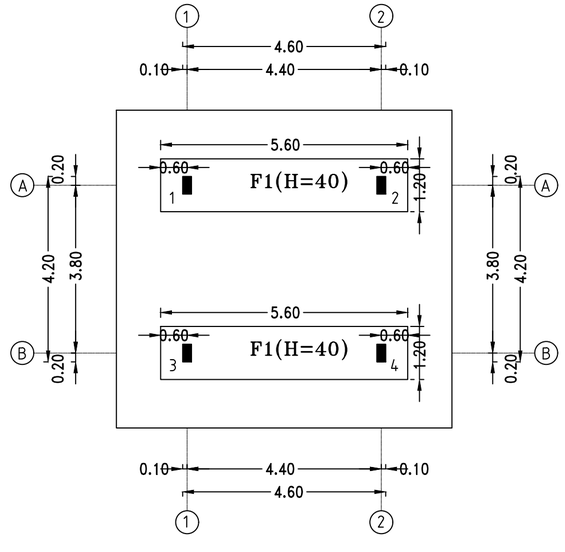


Typical Longitudinal Section For GROUND BEAM



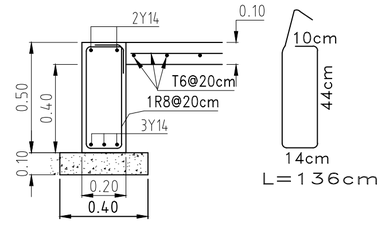
COLUMNS AXES

SCALE 1:100



FOUNDATION PLAN

SCALE 1:100



Section (1-1)

Scale 1:20

State of Palestine
Ministry of Education & Higher Education

NOTES :-

1. CANTEEN LOCATION IS ACCORDING TO SITE PLAN AND AS DIRECTED BY THE ENGINEER.
2. FINAL LEVELS SHALL BE DETERMINED ON SITE BY THE ENGINEER.
3. FOUNDATION LEVEL DEPTH NOT LESS THAN 1.5m FROM THE LOWEST POINT OF N.G.L.
4. REPLACING AT LEAST 100cm KURKAR BEFORE FOOTINGS CONCRETE CASTING.
5. CONCRETE USED AS FOLLOWS:
   B-200 FOR PLAIN CONCRETE & LINTELS.
   B-300 FOR FOOTINGS, GROUND BEAMS, RETAINING WALL, COLUMNS, SLABS AND STAIRS.
6. STEEL :
   (Y) HOT ROLLED HIGH YIELD (fy = 4250 Kg/cm^2)
   (R) HOT ROLLED MILD STEEL (fy = 2500 Kg/cm^2)
   (T) COLD WORKED STEEL MESHES (fy = 5000 Kg/cm^2)
7. BEARING CAPACITY FOR SOIL IS 16t/m2 ACCORDING TO SOIL INVESTIGATION REPORT.
8. POLYETHYLENE SHEET SHOULD BE ADDED BELOW CONCRETE WHICH LAYING DIRECTLY ON SOIL.
9. ALL CONNECTION BETWEEN BLOCK WALL AND COLUMNS MUST BE CASTING WITH SMALL ELEMENT CONCRETE.

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Abo Tamam Primary Girls School

DRAWING TITLE:
CANTEEN DETAILS

DESIGN: M. SABBAH	DATE: 2-february-2016
DRAWN: M. SABBAH	
APPROVED: A.A.	SCALE: 1:100/A2
SHEET NO: **ST016**	

Table of types of columns

Columns Type	Column Number	Total	Columns Size		Reinforcement	
			Width	Length	Bars	Stirrups
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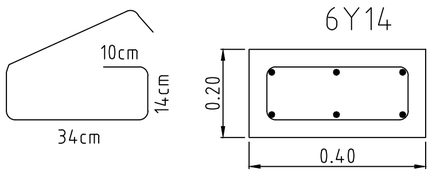
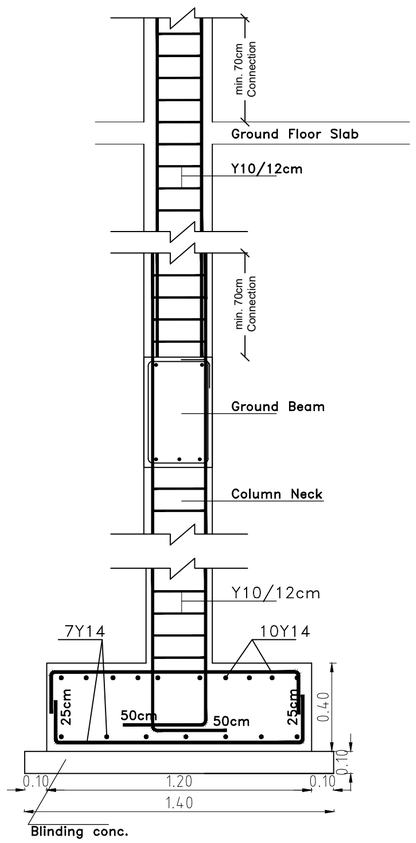


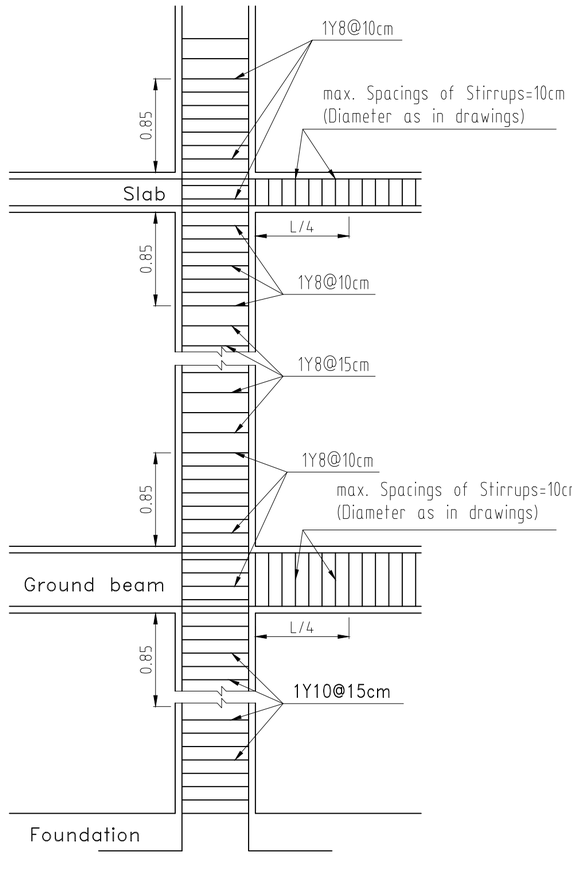
C1

Scale 1:10



SECTION DETAIL FOR F1

Scale 1:20



Typical Details For
Stirrup Spacings

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Ministry of Education & Higher Education

NOTES :-

1. CANTEEN LOCATION IS ACCORDING TO SITE PLAN AND AS DIRECTED BY THE ENGINEER.
2. FINAL LEVELS SHALL BE DETERMINED ON SITE BY THE ENGINEER.
3. FOUNDATION LEVEL DEPTH NOT LESS THAN 1.5m FROM THE LOWEST POINT OF N.G.L.
4. REPLACING AT LEAST 100cm KURKAR BEFORE FOOTINGS CONCRETE CASTING.
5. CONCRETE USED AS FOLLOWS:
   B-200 FOR PLAIN CONCRETE & LINTELS.
   B-300 FOR FOOTINGS, GROUND BEAMS, RETAINING WALL, COLUMNS, SLABS AND STAIRS.
   (Y) HOT ROLLED HIGH YIELD (fy = 4250 Kg/cm^2)
   (R) HOT ROLLED MILD STEEL (fy = 2500 Kg/cm^2)
   (T) COLD WORKED STEEL MESHES (fy = 5000 Kg/cm^2)
7. BEARING CAPACITY FOR SOIL IS 16t/m2 ACCORDING TO SOIL INVESTIGATION REPORT.
8. POLYETHYLENE SHEET SHOULD BE ADDED BELOW CONCRETE WHICH LAYING DIRECTLY ON SOIL.
9. ALL CONNECTION BETWEEN BLOCK WALL AND COLUMNS MUST BE CASTING WITH SMALL ELEMENT CONCRETE.

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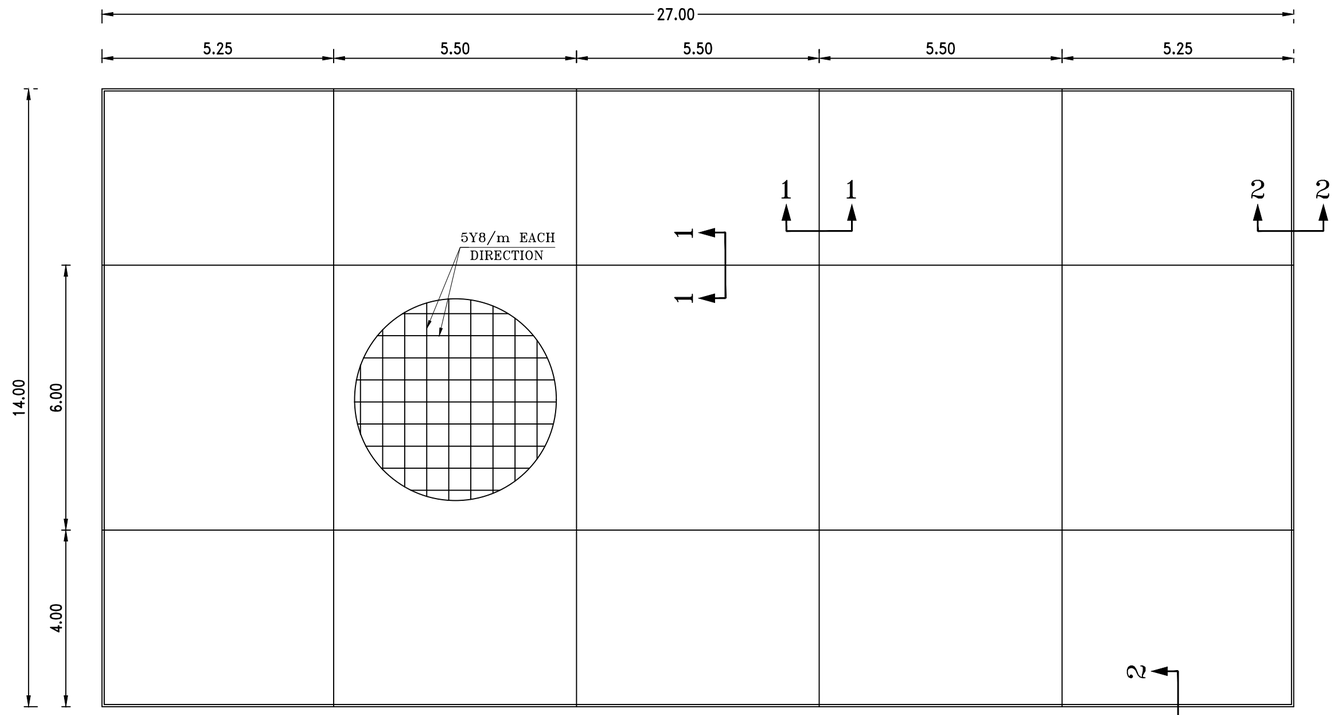
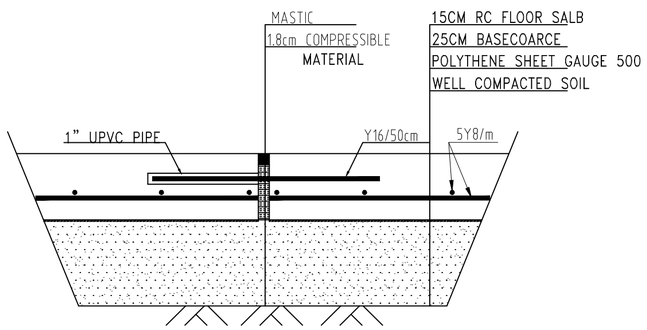
DRAWING TITLE:
CANTEEN DETAILS

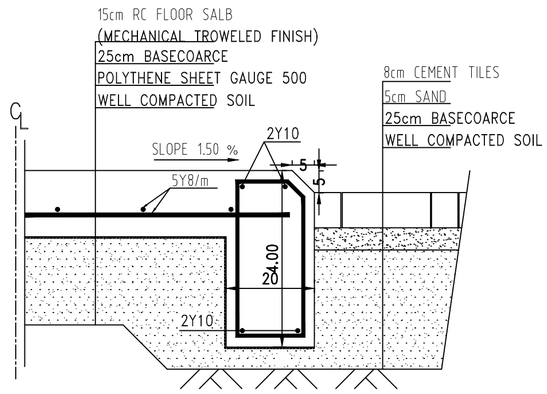
DESIGN: M. SABBAH	DATE: 2-february-2016
DRAWN: M. SABBAH	
APPROVED: A.A.	SCALE: 1:100/A2
SHEET NO: **ST017**	



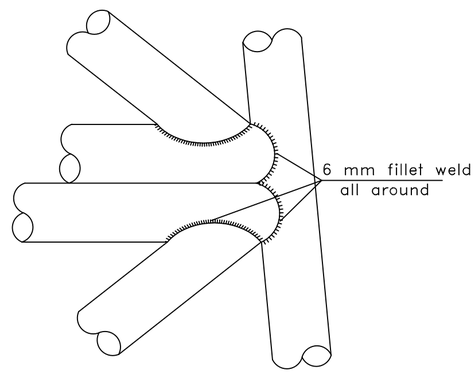
FLOOR SLAB



SECTION 1-1
Scale 1:10



SECTION 2-2
Scale 1:10



DETAIL A
Scale 1:5

State of Palestine
Ministry of Education & Higher Education

NOTES :-

1. PLAY GROUND LOCATION IS ACCORDING TO SITE PLAN AND AS DIRECTED BY THE ENGINEER.
2. FINAL LEVELS SHALL BE DETERMINED ON SITE BY THE ENGINEER.
3. CONCRETE USED AS FOLLOWS:
   B-250 FOR FLOOR SLAB & BOUNDARY BEAMS.
4. STEEL :
   (Y) HOT ROLLED HIGH YIELD (fy = 4250 Kg/cm^2)
   (R) HOT ROLLED MILD STEEL (fy = 2500 Kg/cm^2)
   (T) COLD WORKED STEEL MESHES (fy = 5000 Kg/cm^2)
5. POLYETHYLENE SHEET SHOULD BE ADDED BELOW CONCRETE WHICH LAYING DIRECTLY ON SOIL.

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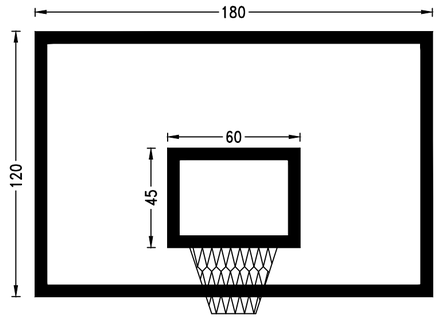
Abo Tamam Primary Girls School

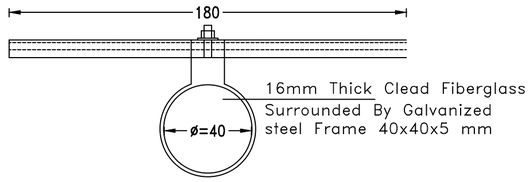
DRAWING TITLE:
SPORT FEILD DETAILS

DESIGN: M. SABBAH	DATE: 2-february-2016
DRAWN: M. SABBAH	
APPROVED: A.A.	SCALE: 1:100/A2
SHEET NO: **ST018**	



BASKETTBALL BOARD

Scale 1:20

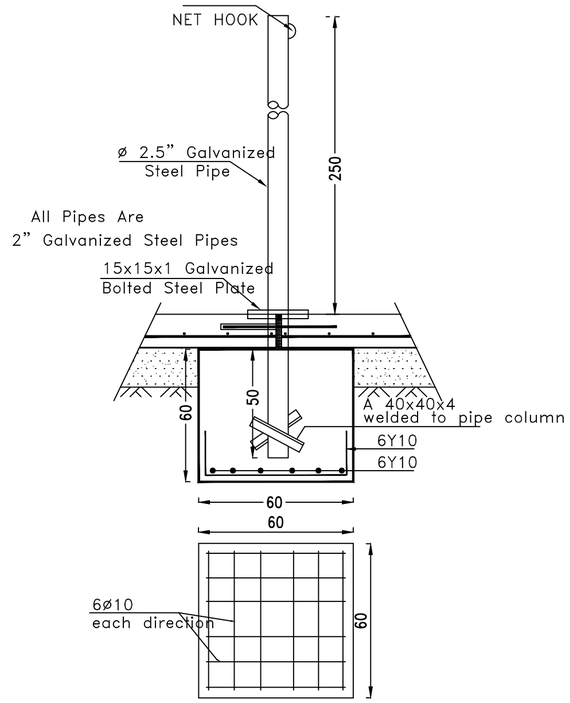


BASKETTBALL RING

Scale 1:20

SIDE ELEVATION FOR BASKETTBALL BOARD

Scale 1:20



VOLLEYBALL STEEL POST
FOOTING DETAILS

Scale 1:20

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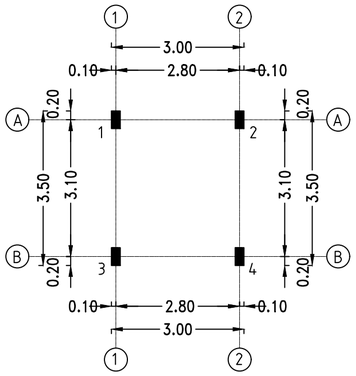
Abo Tamam Primary Girls School

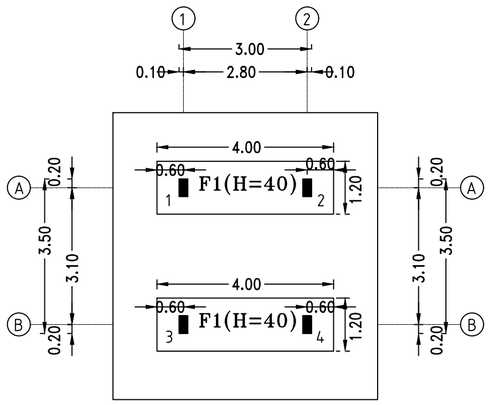
DRAWING TITLE:
SPORT FIELD DETAILS

DESIGN: M. SABBAH	DATE: 2-february-2016
DRAWN: M. SABBAH	
APPROVED: A.A.	SCALE: 1:100/A2
SHEET NO: **ST019**	



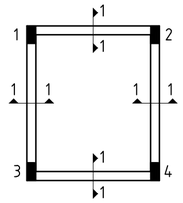
COLUMNS AXES

SCALE 1:100



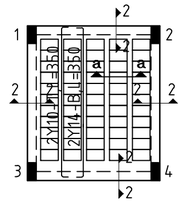
FOUNDATION PLAN

SCALE 1:100



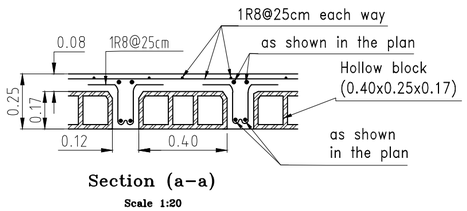
GROUND BEAMS LAYOUT

SCALE 1:100



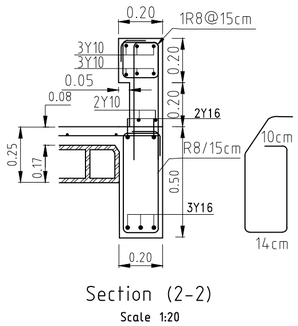
FLOOR SLAB

SCALE 1:100



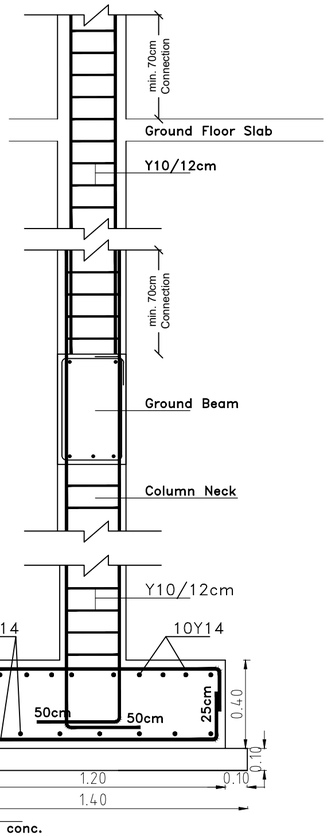
Section (a-a)

Scale 1:20



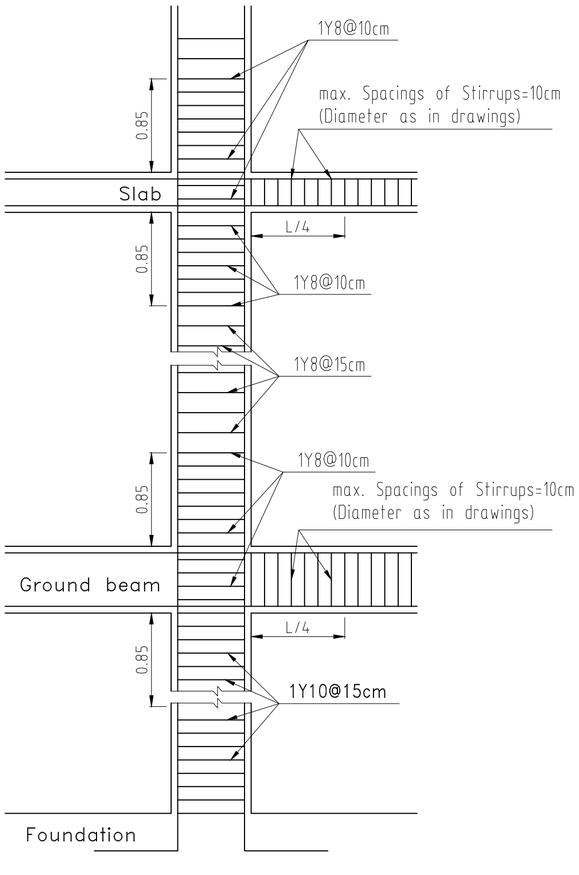
Section (2-2)

Scale 1:20

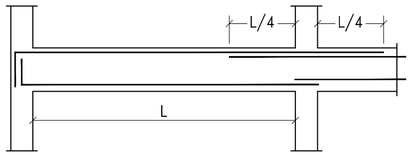


SECTION DETAIL FOR F1

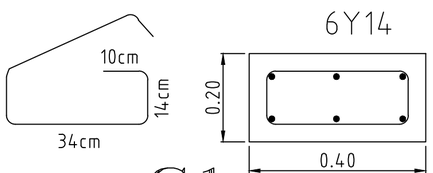
Scale 1:20



Typical Details For
Stirrup Spacings

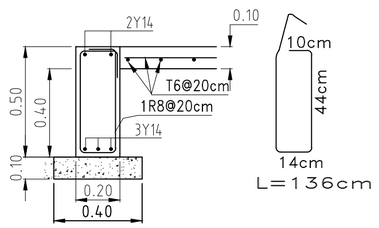


Typical Longitudinal Section For
GROUND BEAM



C1

Scale 1:10



Section (1-1)

Scale 1:20

Table of types of columns

Columns Type	Column Number	Total	Columns Size		Reinforcement	
			Width	Length	Bars	Stirrups
C1	1,2,3,4	4	20	40	6Y14	R8@20cm

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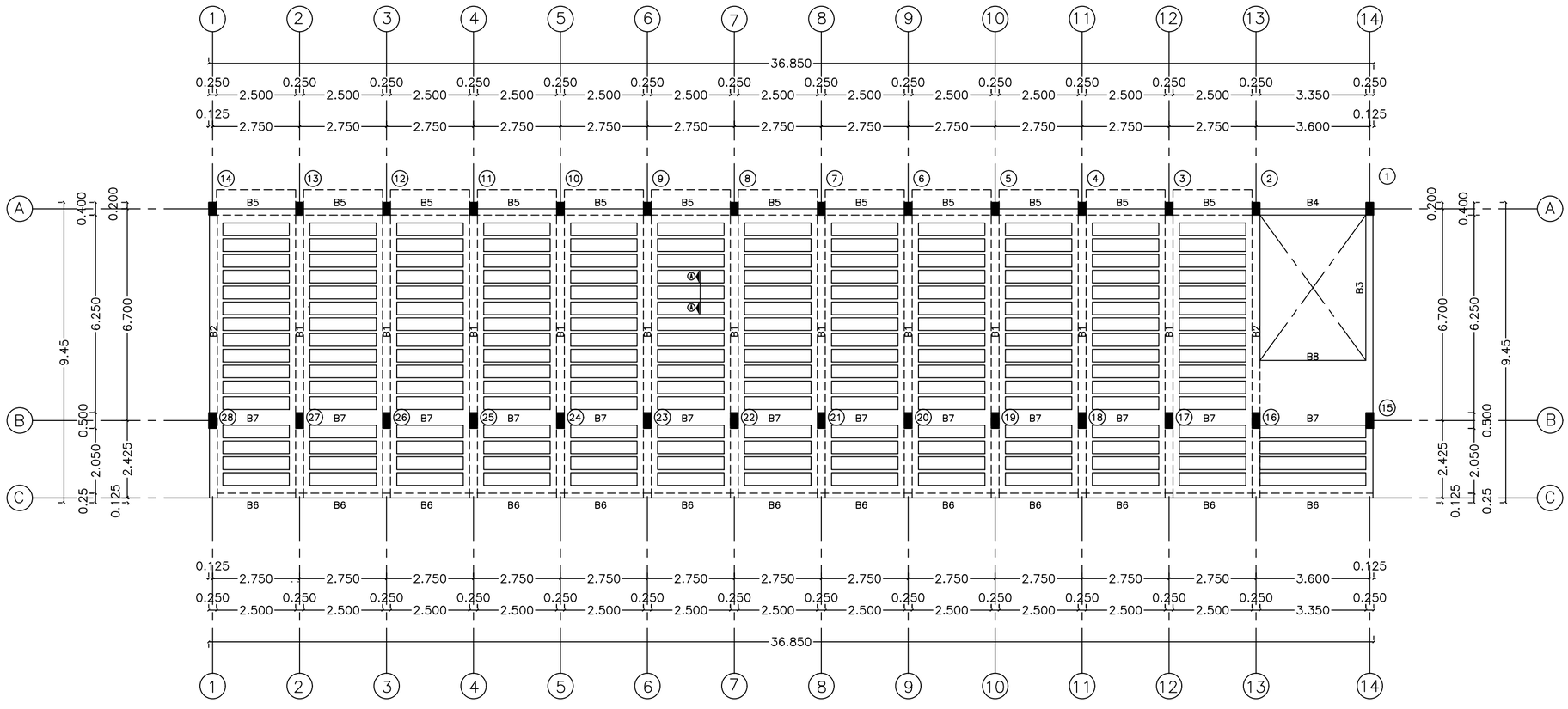
Abo Tamam Primary Girls School

DRAWING TITLE:
DISABEL BATH ROOM

DESIGN: M. SABBAH	DATE: 2-february-2016
DRAWN: M. SABBAH	
APPROVED: A.A.	SCALE: 1:100/A2
SHEET NO: ST020	



GROUND AND TYPICAL SLAB

State of Palestine
Ministry of Education & Higher Education

NOTES :-

- CONCRETE COVER FOR INTERNAL WORK = 2.5CM
- CONCRETE COVER FOR EXTERNAL WORK = 3.5CM
- READY MIX CONCRETE MUST BE APPROVED BY THE ENGINEER.
- CONCRETE CUBE CRUSHING STRENGTH AFTER 28 DAYS
  B = 25N/MM2 , FOR BEAMS & SLABS
  B = 30N/MM2 , FOR COLUMNS
- RIBBED HIGH YIELD STEEL FY=410N/MM2
- MILD YIELD STEEL FY=250N/MM2
- FOUNDATION WAS DESIGNED TO HAVE GROUND FLOOR, FIRST , SECOND & THIRD FLOORS ONLY.
- STANDERD RADII OF BENDS AND HOOKS AS GIVEN BELOW TO BE USED UNLESS SPECIFICALLY SHOWN OTHERWISE

BENDS R HOOKS R

BAR SIZE	GRADE 250 (TYPE AND GRADE R)	GRADE 410 (TYPE AND GRADE L)
D	R	R
6	12	18
8	16	24
10	20	30
12	24	36
14	28	42
16	32	48
18	36	54
20	40	60
25	50	100

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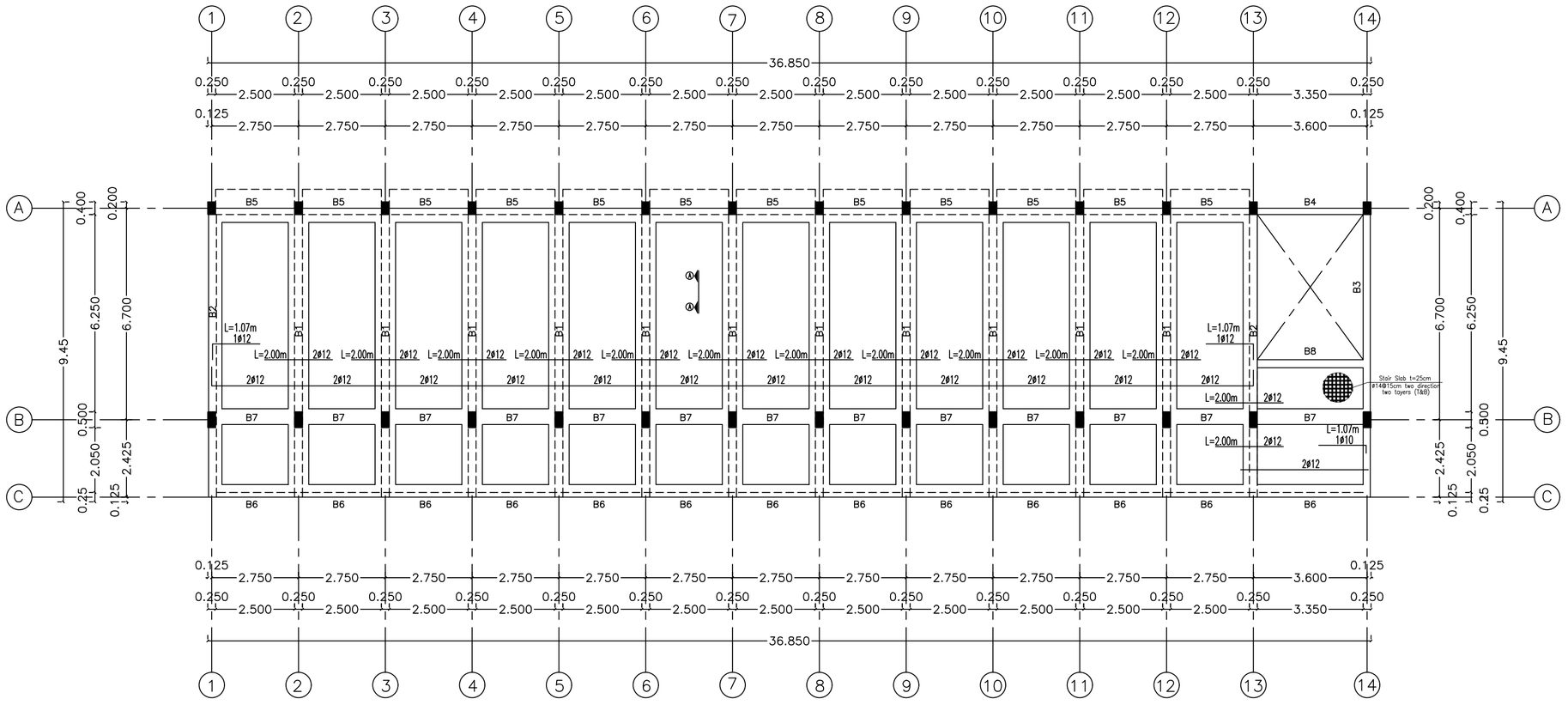
DRAWING TITLE:

GROUND AND TYPICAL SLAB EXISTING BUILDING

DESIGN: DESIGN	DATE: DATE
DRAWN: DRAWN	
APPROVED: APPROVED	SCALE: SCALE
SHEET NO: **ST21**	



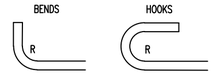
GROUND AND TYPICAL SLAB

State of Palestine
Ministry of Education & Higher Education

NOTES :-

- CONCRETE COVER FOR INTERNAL WORK = 2.5CM
- CONCRETE COVER FOR EXTERNAL WORK = 3.5CM
- READY MIX CONCRETE MUST BE APPROVED BY THE ENGINEER.
- CONCRETE CUBE CRUSHING STRENGTH AFTER 28 DAYS
  B = 25N/MM2 , FOR BEAMS & SLABS
  B = 30N/MM2 , FOR COLUMNS
- RIBBED HIGH YIELD STEEL FY=410N/MM2
- MILD YIELD STEEL FY=250N/MM2
- FOUNDATION WAS DESIGNED TO HAVE GROUND FLOOR, FIRST , SECOND & THIRD FLOORS ONLY.
- STANDERD RADII OF BENDS AND HOOKS AS GIVEN BELOW TO BE USED UNLESS SPECIFICALLY SHOWN OTHERWISE

BENDS HOOKS



BAR SIZE	GRADE 250 (TYPE AND GRADE R)	GRADE 410 (TYPE AND GRADE L)
D	R	R
6	12	18
8	16	24
10	20	30
12	24	36
14	28	42
16	32	48
18	36	54
20	40	60
25	50	100

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IN COOPERATION WITH:

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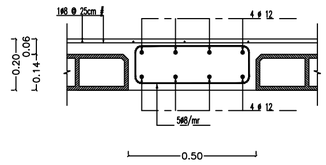
Abo Tamam Primary Girls School

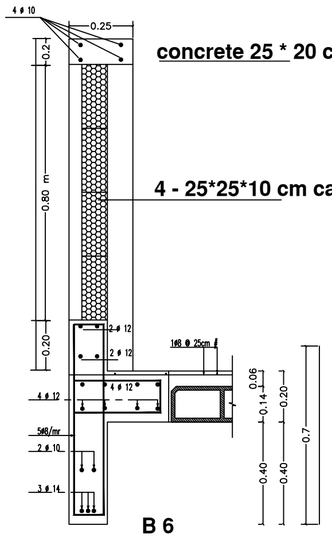
DRAWING TITLE:
GROUND AND TYPICAL SLAB
EXISTING BUILDING

DESIGN: DESIGN	DATE: DATE
DRAWN: DRAWN	
APPROVED: APPROVED	SCALE: SCALE

SHEET NO:
ST22



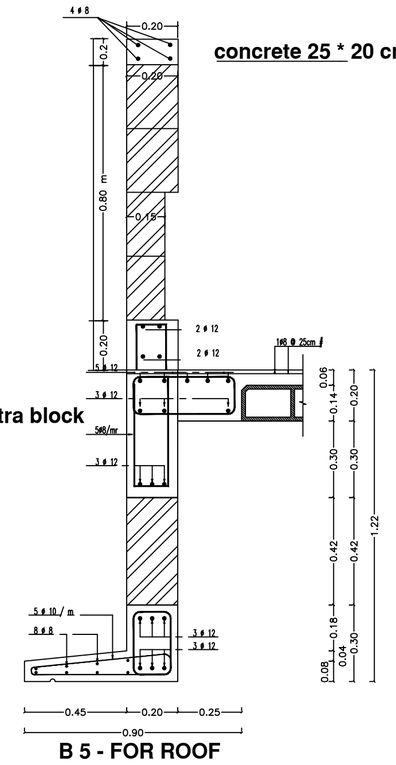
B 7



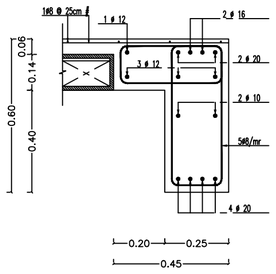
B 6

concrete 25 * 20 cm

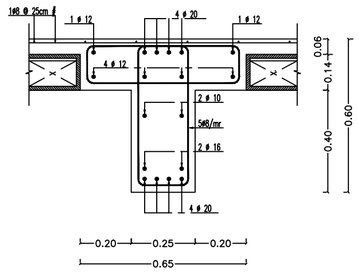
4 - 25*25*10 cm calustra block



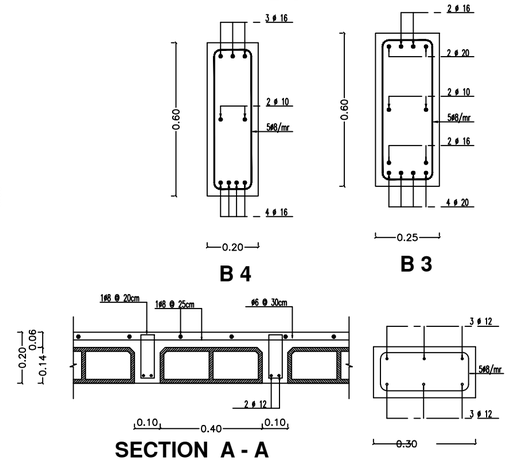
B 5 - FOR ROOF



B 2



B 1

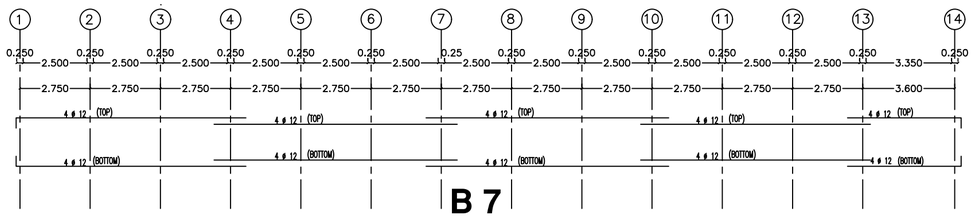


B 5 - FOR OTHER FLOORS

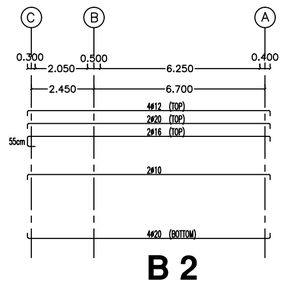
B 4 B 3

SECTION A - A

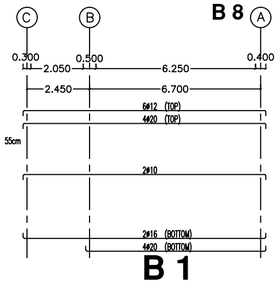
B 8



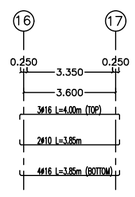
B 7



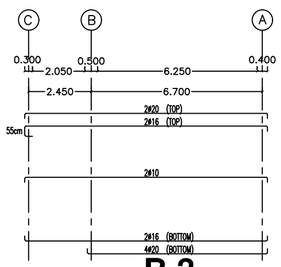
B 2



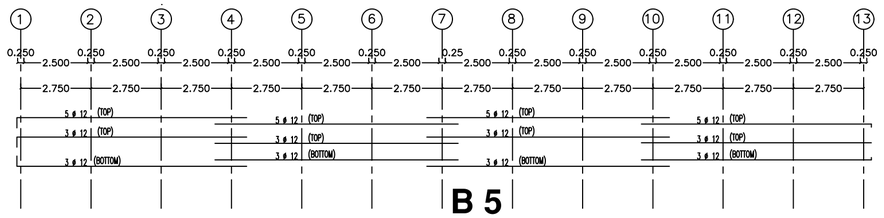
B 1



B 4



B 3



B 5

State of Palestine
Ministry of Education & Higher Education

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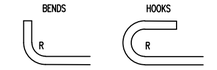
BENDS HOOKS



BAR SIZE	GRADE 250 (TYPE AND GRADE R)	GRADE 410 (TYPE AND GRADE L)
D	R	R
6	12	18
8	16	24
10	20	30
12	24	36
14	28	42
16	32	48
18	36	54
20	40	60
25	50	100

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IN COOPERATION WITH:

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Abo Tamam Primary Girls School

DRAWING TITLE:

FIRST FLOOR PLAN
EXISTING BUILDING

DESIGN: DESIGN	DATE: DATE
DRAWN: DRAWN	
APPROVED: APPROVED	SCALE: SCALE
SHEET NO: **ST23**	

TABLE COLUMNS

TYPE	COLUMNS NUMBER	TOTAL	COLUMNS SIZE		REINFORCEMENT	
			WIDTH	length	BARS	STIRRUPS
C1	17,18,19,20,21,22, 23,24,25,26,27	11	25	50	12 Y 14	R8@20cm
C2	3,4,5,6,7,8,9,10,11, 12,13	11	25	40	6 Y 14	R8@20cm
C3	2,28	2	25	50	8 Y 14	R8@20cm
C4	1,14	2	20	40	6 Y 14	R8@20cm
C5	29,30,31,32,33,34,35 36,37,38,39,40,41,42	14	20	25	4 Y 14	R8@20cm
C6	15,16	2	20	75	10 Y 14	2R8@20cm

The hight of C5 = 1.2 m

State of Palestine
Ministry of Education & Higher Education

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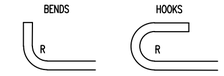
BENDS HOOKS



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D	R	R
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8	16	24
10	20	30
12	24	36
14	28	42
16	32	48
18	36	54
20	40	60
25	50	100

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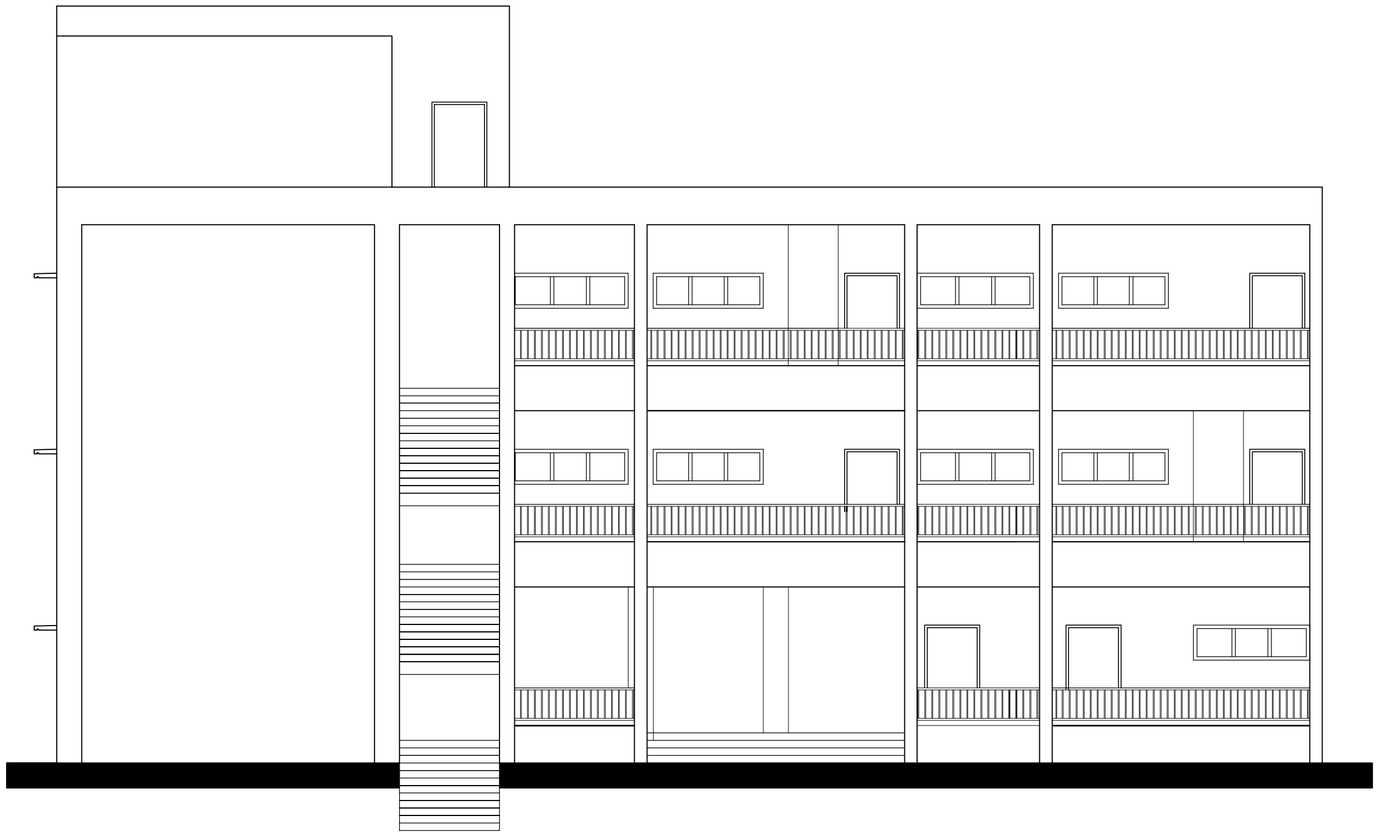
Abo Tamam Primary Girls School

DRAWING TITLE:

TABLE COLUMNS
EXISTING BUILDING

DESIGN: DESIGN	DATE: DATE
DRAWN: DRAWN	
APPROVED: APPROVED	SCALE: SCALE
SHEET NO: **ST24**	



المخططات الميكانيكية

مايو ٢٠١٦

ALI BIN ABI TALEB SCHOOL BUILDING — LIST OF DRAWINGS

A ARCHITECTURAL DRAWINGS	S STRUCTURAL DRAWINGS	E ELECTRICAL DRAWINGS	M MECHANICAL DRAWINGS		D DESALINATION DRAWINGS
SHEET NO. SHEET TITLE					
			MSW0	SEWAGE SYSTEM FOR SITE PLAN	
			MS0	STORM WATER FOR SITE PLAN	
			MS1	STORMWATER GULLIES DETAILS	
			MW0	WATER DISTRIBUTION SYSTEM FOR SITE PLAN	
			MF0	FIRE FIGHTING SYSTEM FOR SITE PLAN	
			MIR0	IRRIGATION SYSTEM FOR SITE PLAN	
			M01	GROUND FLOOR SEWAGE PLAN	
			M02	FIRST FLOOR SEWAGE PLAN	
			M03	SECOND FLOOR SEWAGE PLAN	
			M04	ROOF DRAINAGE PLAN	
			M05	GROUND FLOOR WATER DISTRIBUTION PLAN	
			M06	FIRST FLOOR WATER DISTRIBUTION PLAN	
			M07	SECOND FLOOR WATER DISTRIBUTION PLAN	
			M08	ROOF WATER DISTRIBUTION PLAN	
			M09	GROUND FLOOR FIRE FIGHTING PLAN	
			M12	FIRS FLOOR FIRE FIGHTING PLAN	
			M10	SECOND FLOOR FIRE FIGHTING PLAN	
			M11	ROOF FIRE FIGHTING PLAN	
			M12	GAS SYSTEM FOR SCIENCE LAB. PLAN.	
			M13	VENTILATION SYSTEM FOR MULTI AERAS PLAN	
			MD01	DETAIL-1 (PLUMBING DETAILS)	
			MD02	DETAIL-2 (FUEL SYSTEM DETAILS)	

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Ministry of Education & Higher Education

NOTES :-

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CONSULTANT:

ABUSHAHLA & ASSOCIATES
"Consulting Engineers"
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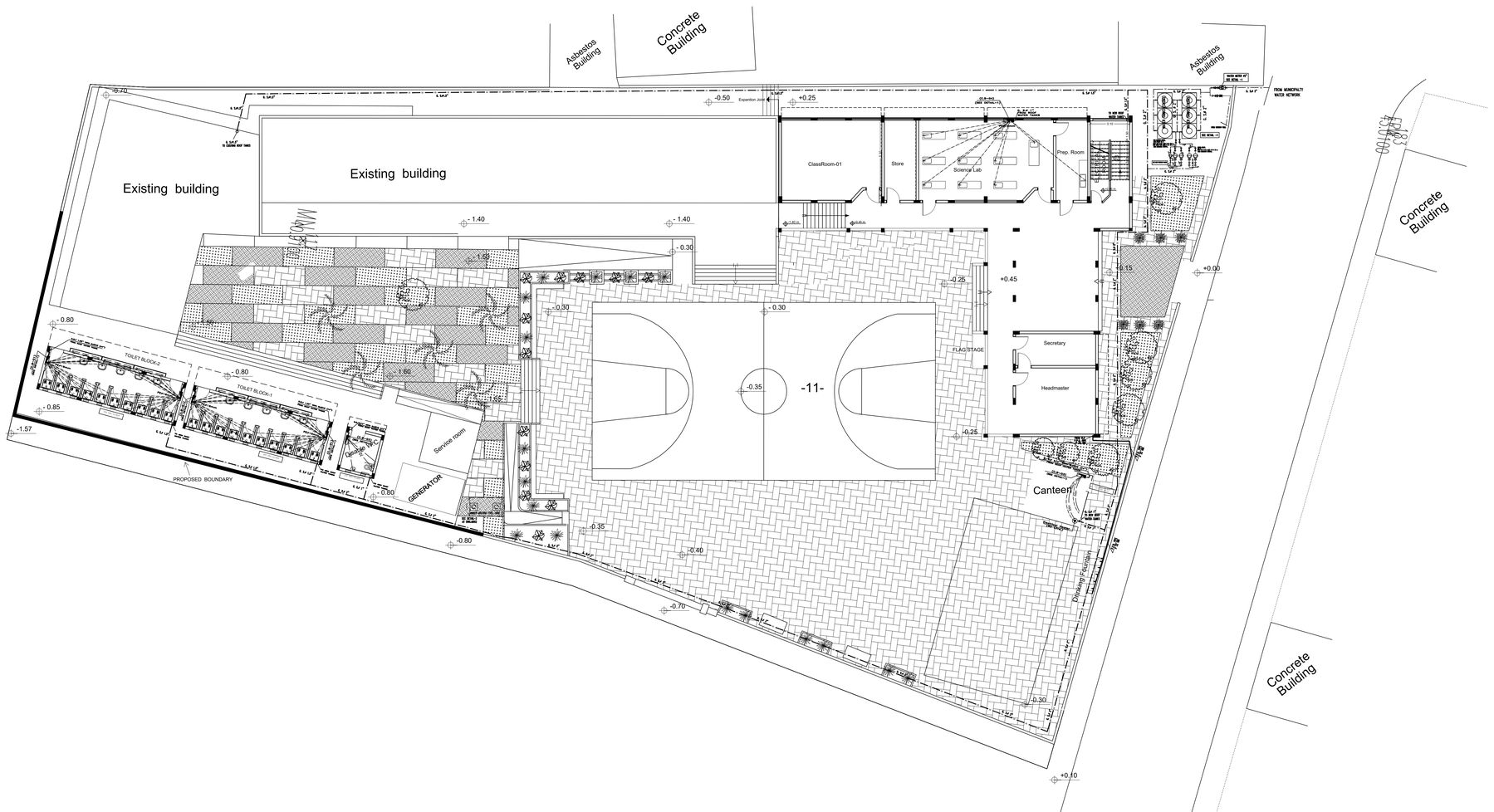
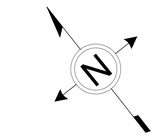
DRAWING TITLE:

LIST DRAWINGS

DESIGN: S.S.	DATE: 3-MARCH-2016
DRAWN: S.S.	
APPROVED: A.A.	SCALE: -
SHEET NO: **M000**	





State of Palestine
Ministry of Education & Higher Education

NOTES :-

1. CONTRACTOR SHALL SUBMIT THE MANUFACTURE'S DIMENSIONS, DETIALS & CONNECTIONS FOR APPROVAL OF THE ENGINEER BEFORE THE WORK COMMENCED.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL WORKS, STEEL PARTS & CONNECTIONS FOR ENGINEER'S APPROVAL.

- Cold Water
- Hot Water
- (W.M) Water Meter
- (G.V) Gate Valve
- Check Valve
- Collector Box (C.B)
- E.H Electrical Heater (50L.)
- FAUCET ø3/4"
- DRESSER

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CONSULTANT:

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"Consulting Engineers"
Palestine
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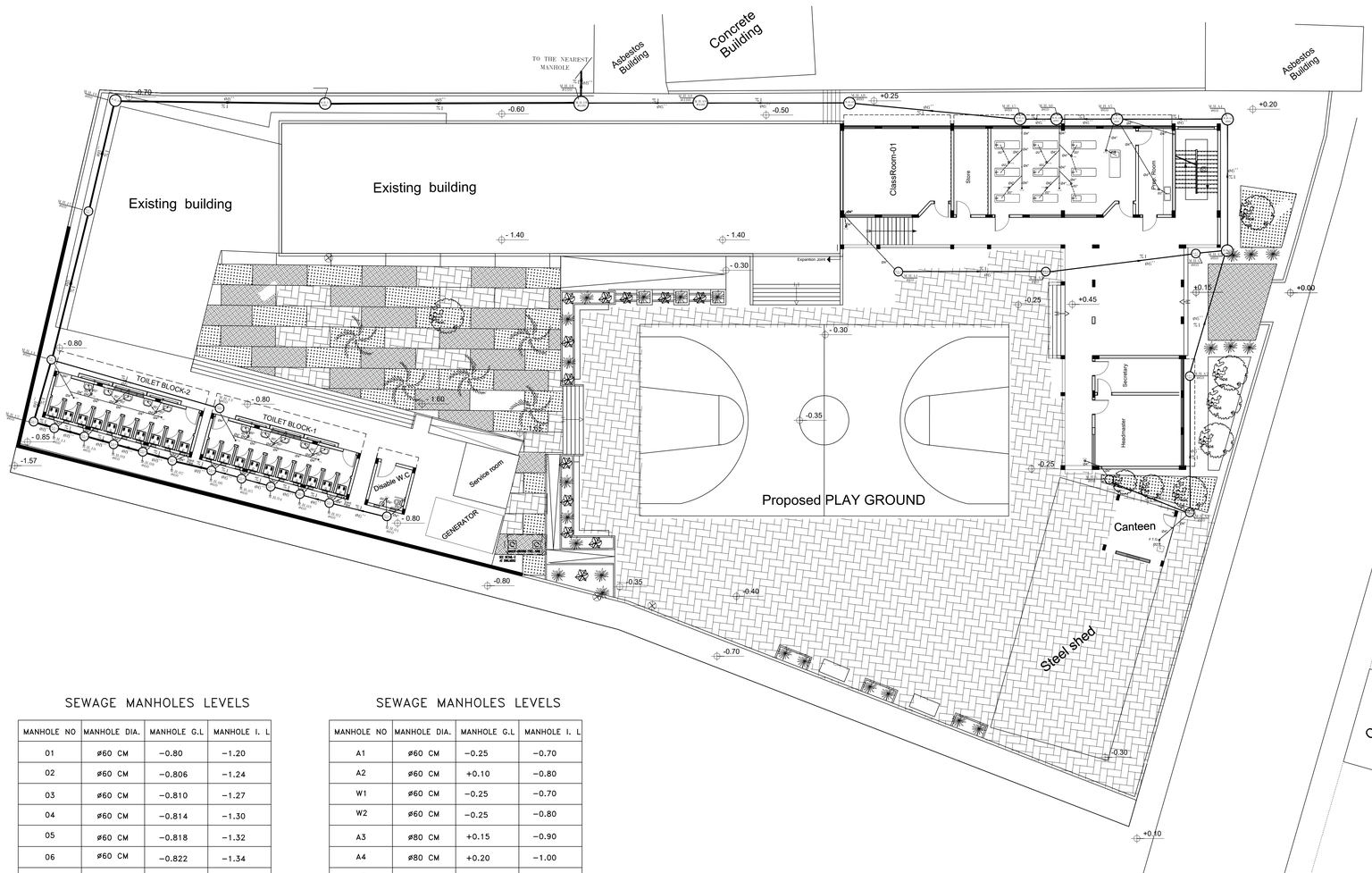
Abo Tamam Primary Girls School

DRAWING TITLE:
WATER DISTRIBUTION FOR SITE PLAN

DESIGN: AA	DATE: 2-february-2016
DRAWN: AA	
APPROVED: A.A.	SCALE: 1:200/A1
SHEET NO: **MW0**	



SEWAGE MANHOLES LEVELS

MANHOLE NO	MANHOLE DIA.	MANHOLE G.L	MANHOLE I. L
01	ø60 CM	−0.80	−1.20
02	ø60 CM	−0.806	−1.24
03	ø60 CM	−0.810	−1.27
04	ø60 CM	−0.814	−1.30
05	ø60 CM	−0.818	−1.32
06	ø60 CM	−0.822	−1.34
07	ø60 CM	−0.826	−1.37
08	ø60 CM	−0.830	−1.39
09	ø60 CM	−0.835	−1.41
10	ø60 CM	−0.840	−1.43
11	ø60 CM	−0.845	−1.45
12	ø60 CM	−0.850	−1.48
13	ø60 CM	−0.80	−1.30
14	ø60 CM	−0.80	−1.53
15	ø60 CM	−0.75	−1.63
16	ø80 CM	−0.70	−1.73
17	ø80 CM	−0.65	−1.88
18	ø100 CM	−0.60	−2.04

SEWAGE MANHOLES LEVELS

MANHOLE NO	MANHOLE DIA.	MANHOLE G.L	MANHOLE I. L
A1	ø60 CM	−0.25	−0.70
A2	ø60 CM	+0.10	−0.80
W1	ø60 CM	−0.25	−0.70
W2	ø60 CM	−0.25	−0.80
A3	ø80 CM	+0.15	−0.90
A4	ø80 CM	+0.20	−1.00
A5	ø80 CM	+0.22	−1.08
A6	ø80 CM	+0.23	−1.13
A7	ø80 CM	+0.24	−1.16
A8	ø80 CM	+0.25	−1.20
A9	ø100 CM	+0.50	−1.30

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G.L	GROUND LEVEL
I.L	INVERT LEVEL
F.T	FLOOR TRAP
Ø2"	ø2" PVC SEWER PIPE
Ø4"	ø4" UPVC SEWER PIPE
Ø6"	ø6" UPVC SEWER PIPE
Ø8"	ø8" UPVC SEWER PIPE
R.W.	RAIN WATER PIPE
M.H.	Manhole
F.T.G	Floor Trap Gully
F.C.O	Floor Clean Out
M.H.G	Manhole with Trap Gully

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CONSULTANT:

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"Consulting Engineers"
Palestine
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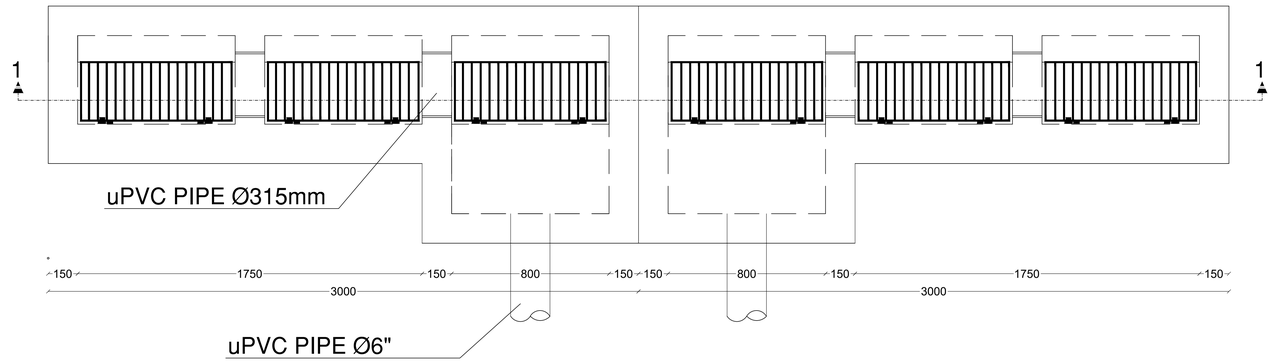
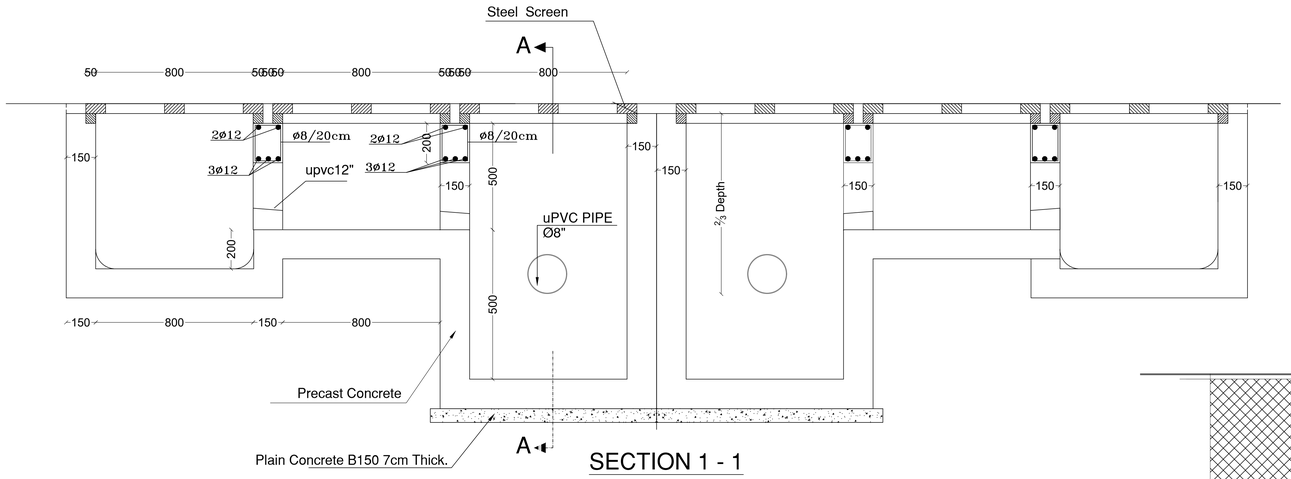
Abo Tamam Primary Girls School

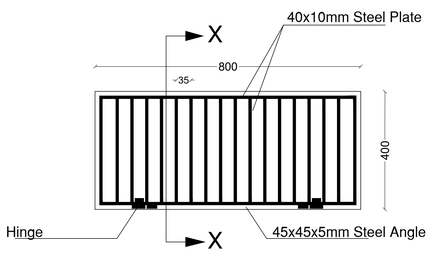
DRAWING TITLE:
Proposaed Site Plan

DESIGN: AA	DATE: 2-february-2016
DRAWN: AA	
APPROVED: A.A.	SCALE: 1:200/A1
SHEET NO: **MSW0**	

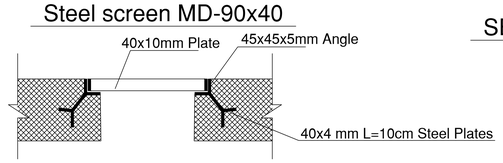




SECTION 1 - 1

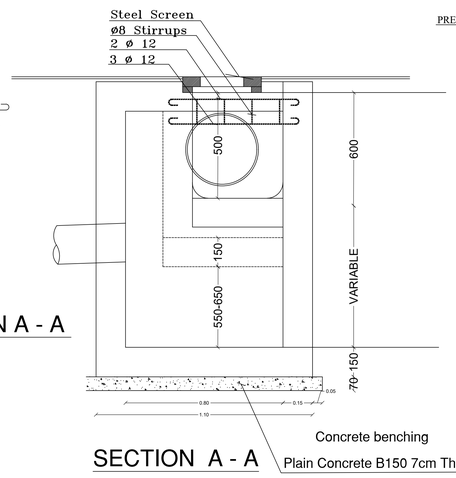


Steel screen MD-90x40



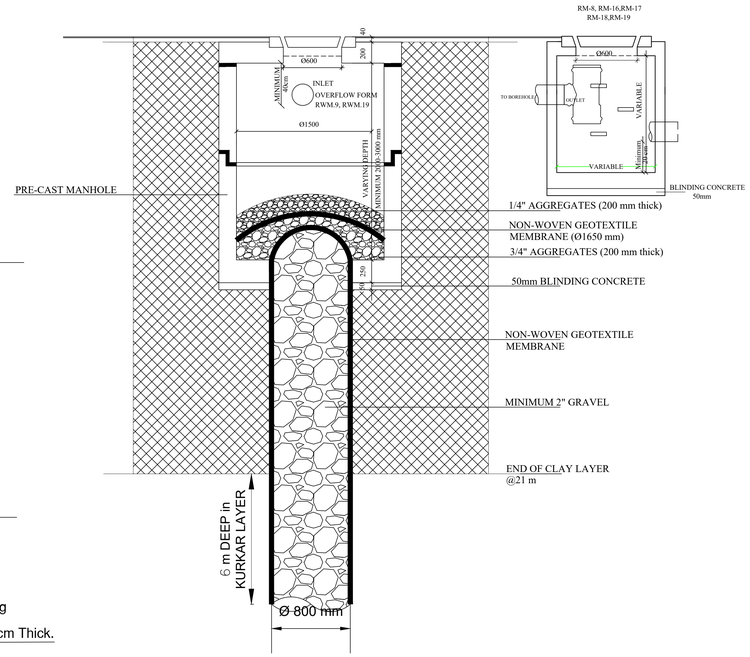
SECTIO X - X

ø 12\15cm L=105cm



SECTION A - A

SECTION A - A



TYPICAL BOREHOLE DETAIL

State of Palestine
Ministry of Education & Higher Education

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I.L	INVERT LEVEL
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Ø6"	ø6" UPVC SEWER PIPE
Ø8"	ø8" UPVC SEWER PIPE
R.W.	RAIN WATER PIPE
M.H.	Manhole
F.T.G	Floor Trap Gully
F.C.O	Floor Clean Out
M.H.	Manhole with Trap Gully

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"Consulting Engineers"
Palestine
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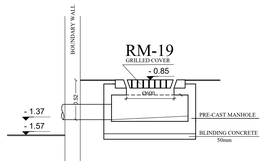
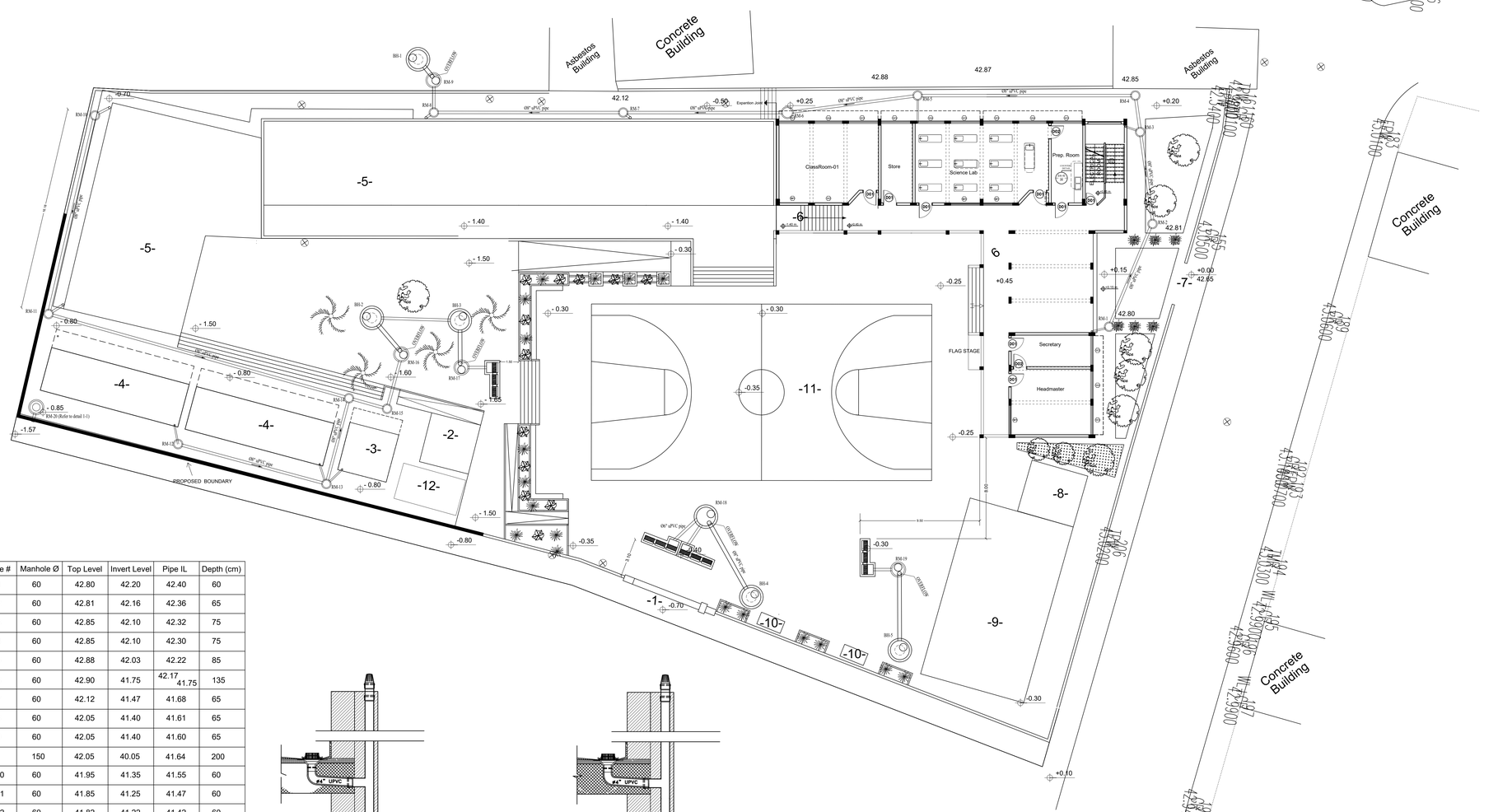
Abo Tamam Primary Girls School

DRAWING TITLE:
STORMWATER GULLIES DETAILS

DESIGN: A.A.	DATE: 8- MARCH-2016
DRAWN: A.A.	
APPROVED: A.A.	SCALE: 1:100
SHEET NO: **MS1**	

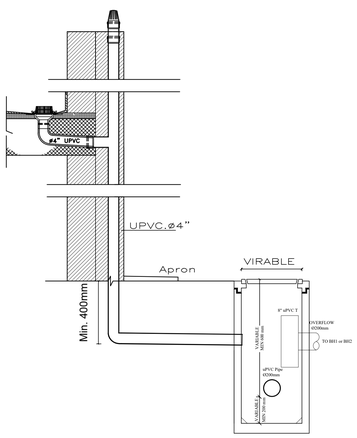


DETAIL 1-1



Manhole #	Manhole Ø	Top Level	Invert Level	Pipe IL	Depth (cm)
RM-1	60	42.80	42.20	42.40	60
RM-2	60	42.81	42.16	42.36	65
RM-3	60	42.85	42.10	42.32	75
RM-4	60	42.85	42.10	42.30	75
RM-5	60	42.88	42.03	42.22	85
RM-6	60	42.90	41.75	42.17 41.75	135
RM-7	60	42.12	41.47	41.68	65
RM-8	60	42.05	41.40	41.61	65
RM-9	60	42.05	41.40	41.60	65
BH1	150	42.05	40.05	41.64	200
RM-10	60	41.95	41.35	41.55	60
RM-11	60	41.85	41.25	41.47	60
RM-12	60	41.82	41.22	41.42	60
RM-13	60	41.85	41.15	41.36	70
RM-14	60	41.83	41.12	41.35	71
RM-15	60	41.83	41.11	41.31 40.53	130
RM-16	100	41.05	39.70	40.51	135
BH2	150	41.10	38.10	40.64	300
RM-17	100	41.01	40.01	40.50 40.10	100
BH3	150	41.10	38.10	40.60	300
RM-18	150	42.27	40.97	41.67	130
BH4	150	42.28	40.28	41.68	200
RM-19	100	42.35	40.15	41.75	120
BH5	150	42.29	40.29	41.69	200
RM-20	100	41.80	40.43	40.40	1.37

Depth of Boreholes =27.0 m
Minimum pipes slope is 0.5%



TYPICAL RAINWATER DRAINAGE
RM-5, RM-15

TYPICAL RAINWATER DRAINAGE
SECTION A-A

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NOTES :-

Legend :

- Fake Grass
- Level
- Proposed tree
- Proposed tree
- Existing tree
- Existing tree
- Proposed Plants
- Rain pipes

-1- New main entrance
-2- Proposed Service Room
-3- proposed disable bathroom
-4- Proposed toilets
-5- Existing concrete building
-6- proposed concrete building
-7- SECONDARY ENTRANCE
-8- proposed canteen
-9- proposed steel shed
-10- Garbage containers
-11- proposed playground
-12- proposed GENERATOR room
-Proposed Interlock
AREA = 842

42.65 m = 0.00 m

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+0.00 = 42.91 = Existing Asphalt Level

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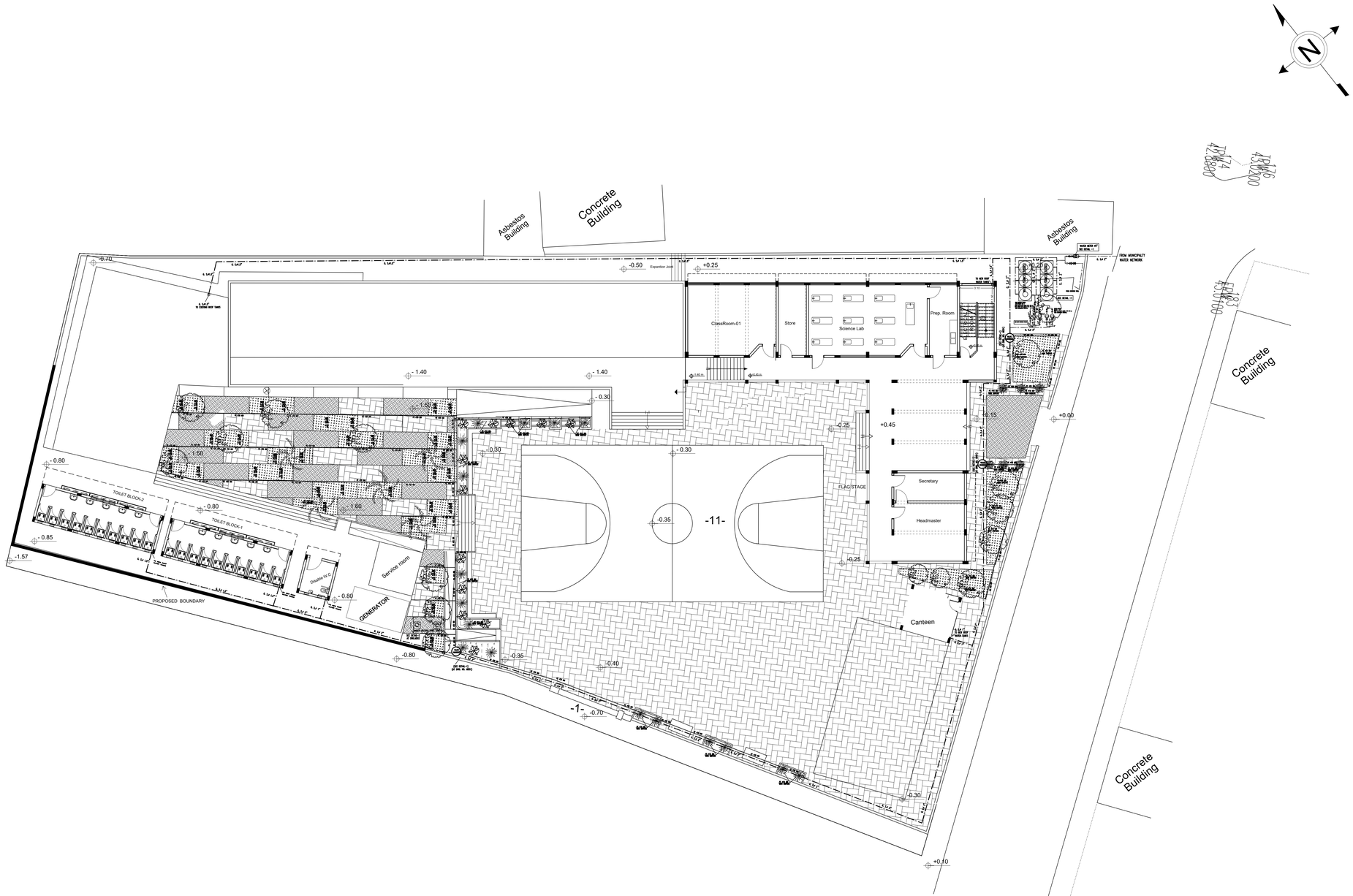
DRAWING TITLE:
Storm Water For Site Plan

DESIGN: AA	DATE: 2-february-2016
DRAWN: AA	
APPROVED: A.A.	SCALE: 1:200/A1
SHEET NO: **MS0**	



IRRIGATION SYSTEM FOR SITE PLAN

State of Palestine
Ministry of Education & Higher Education

NOTES :-

1. CONTRACTOR SHALL SUBMIT THE MANUFACTURE'S DIMENSIONS, DETIALS & CONNECTIONS FOR APPROVAL OF THE ENGINEER BEFORE THE WORK COMMENCED.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL WORKS, STEEL PARTS & CONNECTIONS FOR ENGINEER'S APPROVAL.

- Cold Water
- Hot Water
- (W.M) Water Meter
- (G.V) Gate Valve
- Check Valve
- Collector Box (C.B)
- E.H Electrical Heater (50L.)
- FAUCET ø3/4"
- DRESSER

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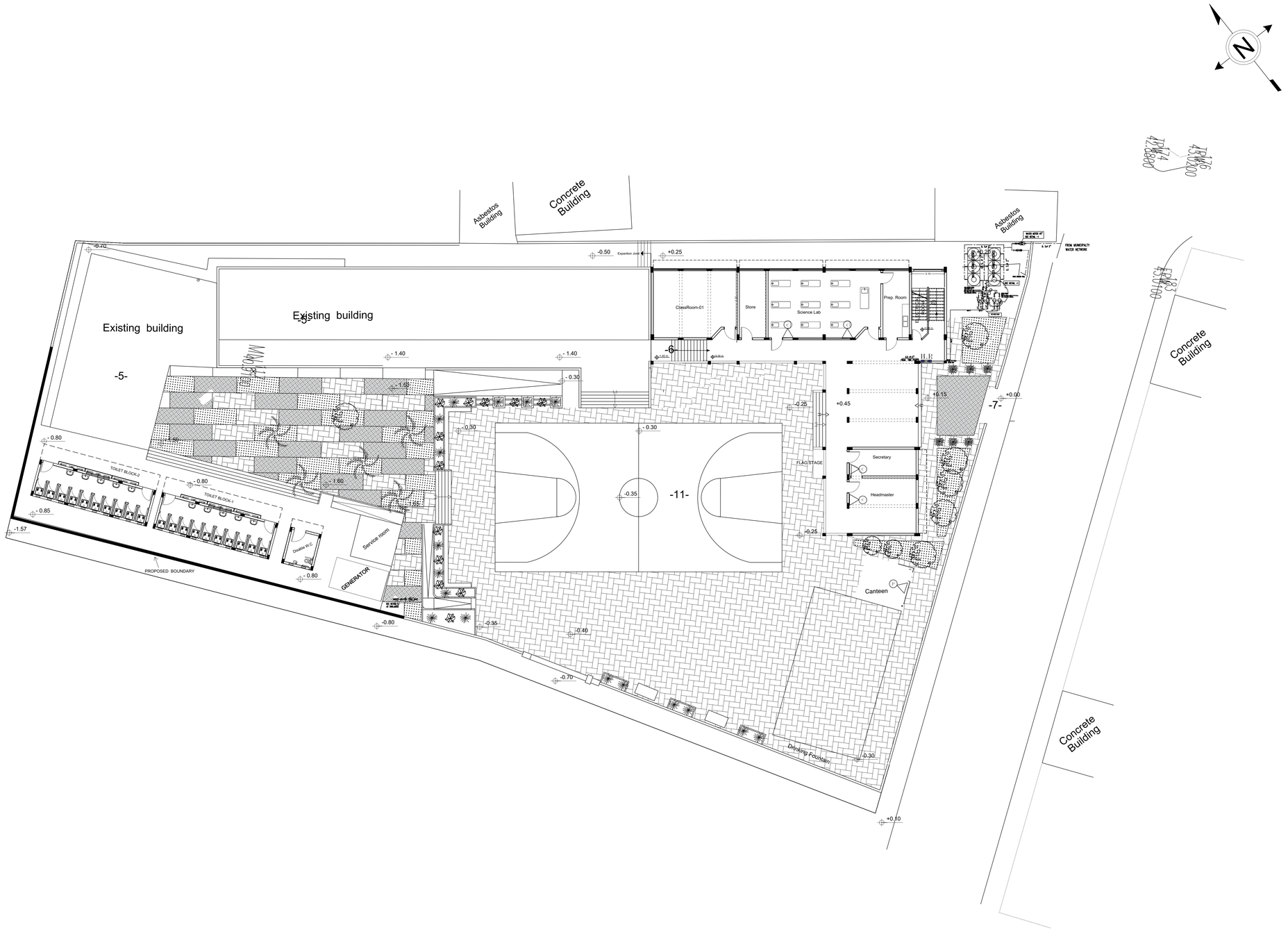
DRAWING TITLE:
IRRIGATION SYSTEM FOR SITE PLAN

DESIGN: AA	DATE: 2-february-2016
DRAWN: AA	
APPROVED: A.A.	SCALE: 1:200/A1
SHEET NO: **MIR0**	



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NOTES :-

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2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL WORKS, STEEL PARTS & CONNECTIONS FOR ENGINEER'S APPROVAL.

- P — FIRE EXTINGUISHER (DRY POWDER 3 K.G)
- C — FIRE EXTINGUISHER (CO2 GAS 3 K.G)
- H.R — Hose Reel Cabinet (80x80x25 cm)
- (G.V) Gate Valve
- Check Valve
- WATER PUMP
- G.S. — GALVANIZED STEEL PIPE
- DRESSER

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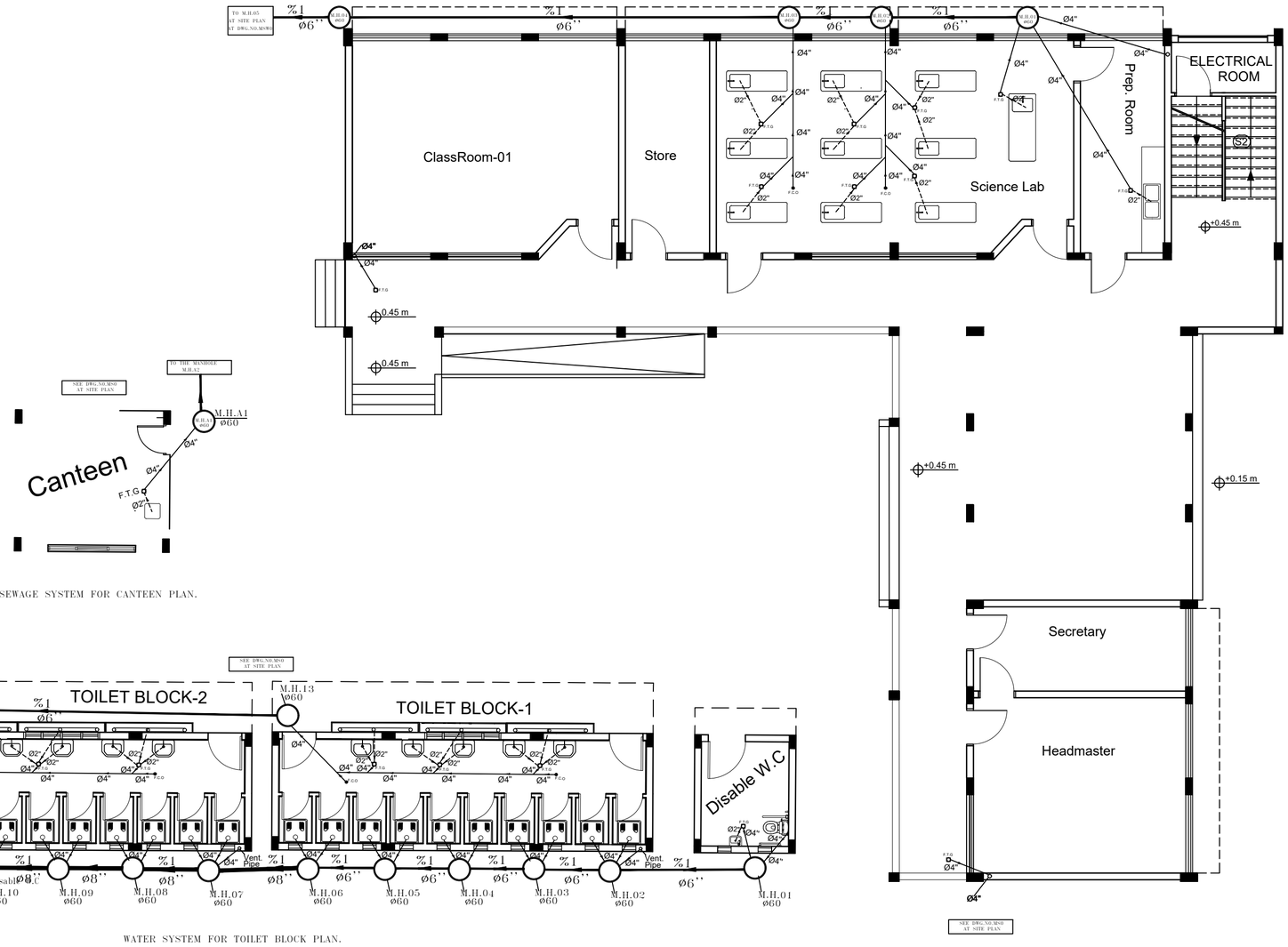
DRAWING TITLE:
FIRE FIGHTING FOR SITE PLAN

DESIGN: AA	DATE: 2-february-2016
DRAWN: AA	
APPROVED: A.A.	SCALE: 1:200/A1
SHEET NO: **MF0**	



SEWAGE SYSTEM FOR CANTEEN PLAN.

WATER SYSTEM FOR TOILET BLOCK PLAN.

Ground Floor Sewage Plan

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NOTES :-

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G.L	GROUND LEVEL
I.L	INVERT LEVEL
F.T	FLOOR TRAP
Ø2"	#2" PVC SEWER PIPE
Ø4"	#4" UPVC SEWER PIPE
Ø6"	#6" UPVC SEWER PIPE
Ø8"	#8" UPVC SEWER PIPE
R.W.	RAIN WATER PIPE
M.H.	Manhole
F.T.G	Floor Trap Gully
F.C.O	Floor Clean Out
M.H.G	Manhole with Trap Gully

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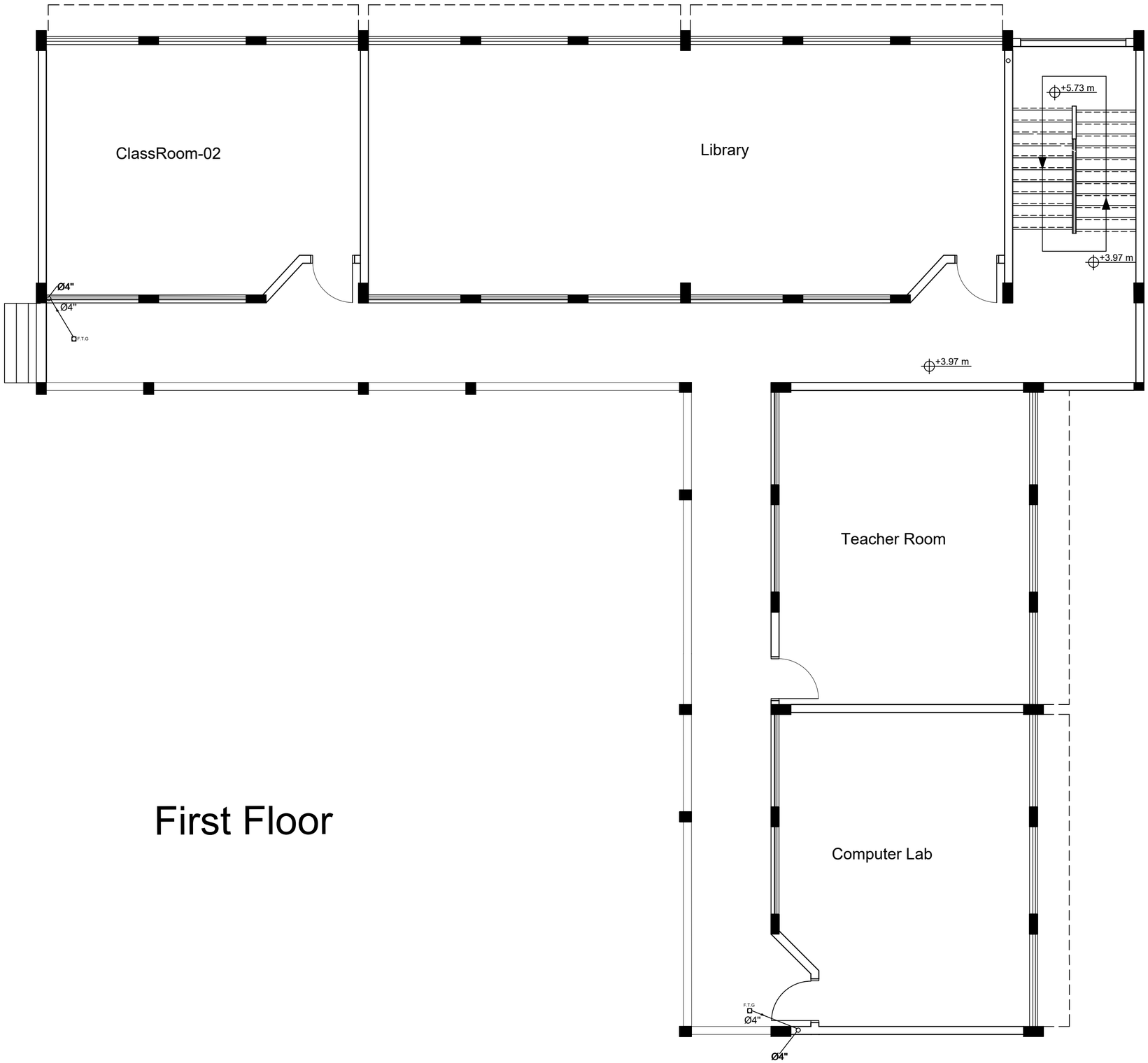
DRAWING TITLE:
Ground Floor Sewage Plan

DESIGN: AA	DATE: 20-February-2016
DRAWN: AA	
APPROVED: A.A.	SCALE: 1:100
SHEET NO: **M01**	



First Floor

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NOTES :-

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G.L	GROUND LEVEL
I.L	INVERT LEVEL
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Ø6"	#6" UPVC SEWER PIPE
Ø8"	#8" UPVC SEWER PIPE
R.W.	RAIN WATER PIPE
M.H.	Manhole
F.T.G	Floor Trap Gully
F.C.O	Floor Clean Out
M.H.G	Manhole with Trap Gully

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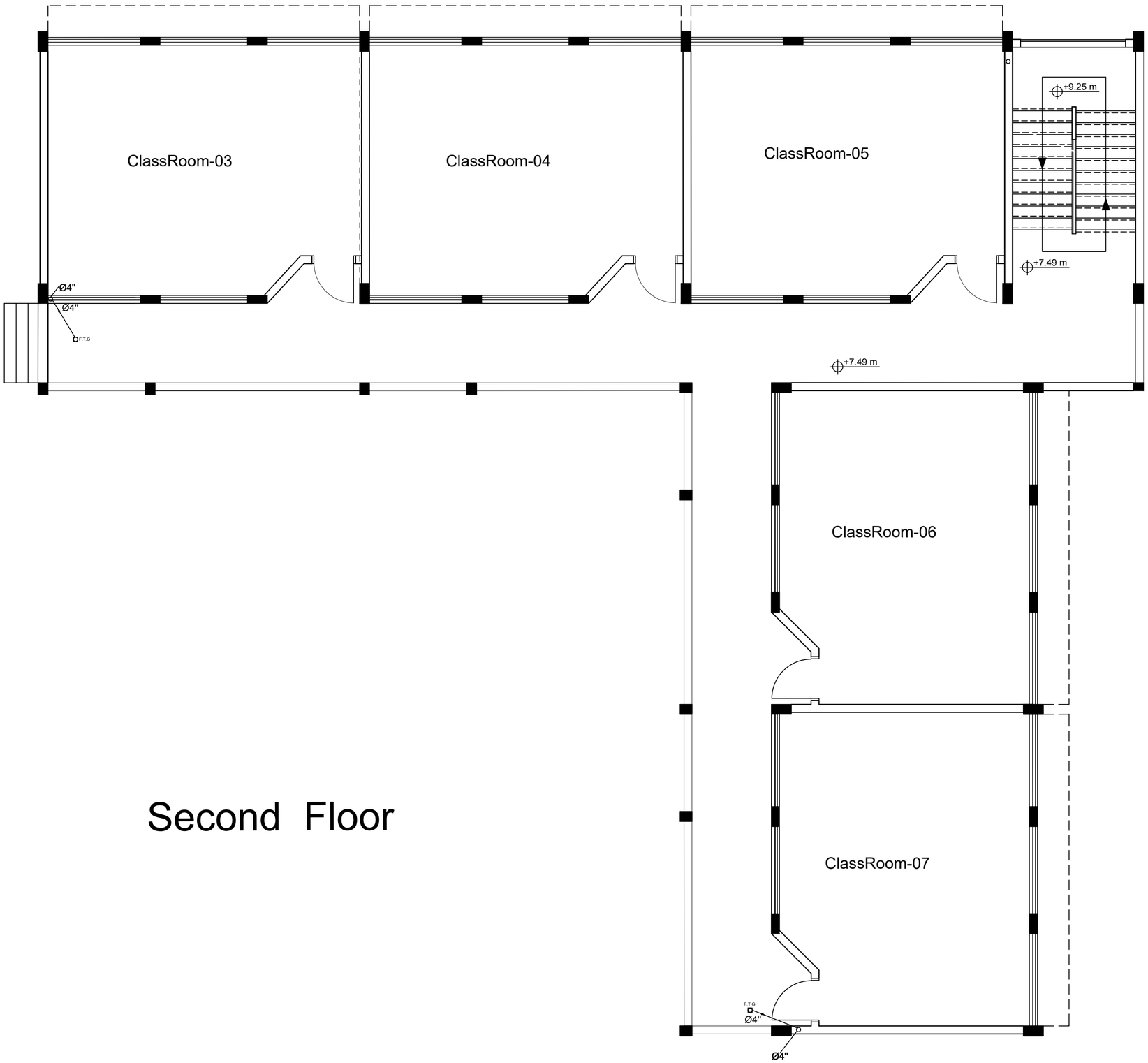
DRAWING TITLE:
First Floor Sewage Plan

DESIGN: AA	DATE: 20-February-2016
DRAWN: AA	
APPROVED: A.A.	SCALE: 1:100
SHEET NO: **M02**	



Second Floor

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NOTES :-

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I.L	INVERT LEVEL
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Ø4"	#4" UPVC SEWER PIPE
Ø6"	#6" UPVC SEWER PIPE
Ø8"	#8" UPVC SEWER PIPE
R.W.	RAIN WATER PIPE
M.H.	Manhole
F.T.G	Floor Trap Gully
F.C.O	Floor Clean Out
M.H.G	Manhole with Trap Gully

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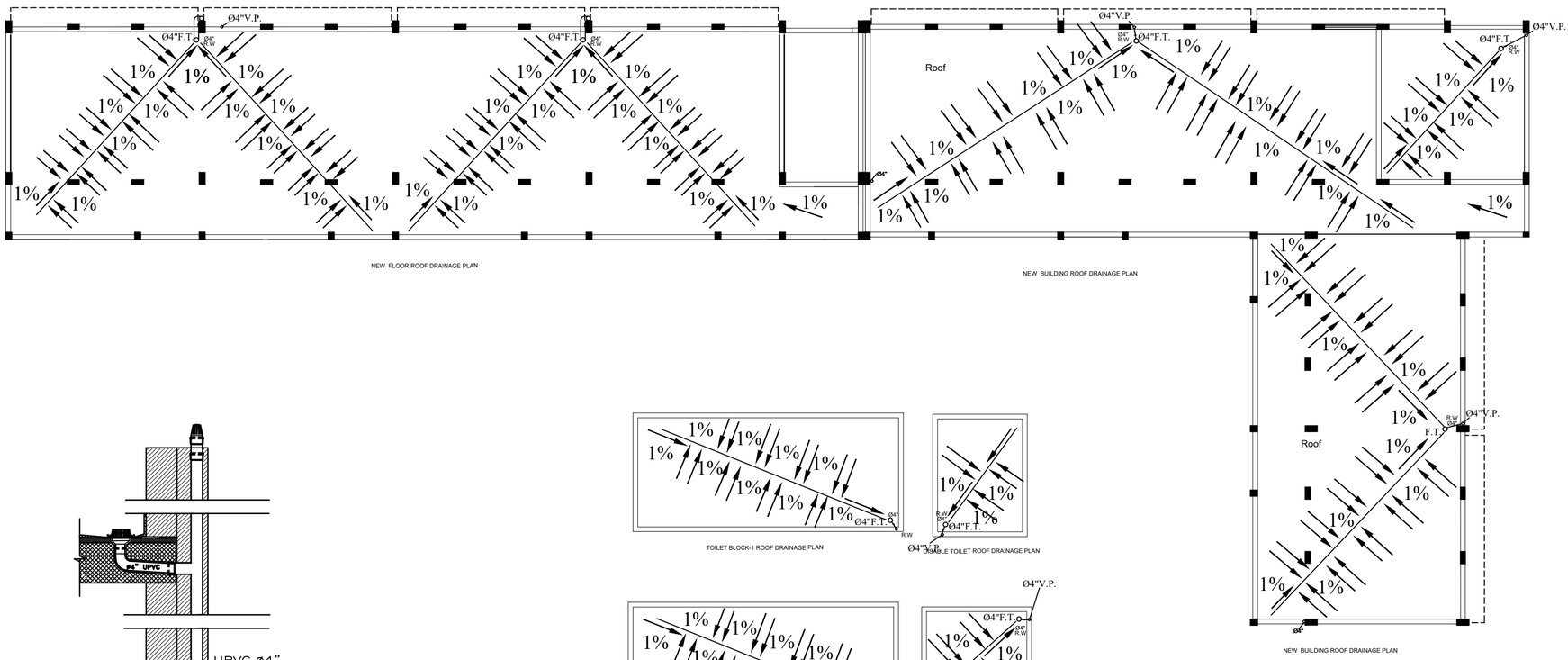
Abo Tamam Primary Girls School

DRAWING TITLE:
Second Floor Sewage Plan

DESIGN: AA	DATE: 20-February-2016
DRAWN: AA	
APPROVED: A.A.	SCALE: 1:100
SHEET NO: **M03**	



NEW FLOOR ROOF DRAINAGE PLAN

NEW BUILDING ROOF DRAINAGE PLAN

TYPICAL RAINWATER DRAINAGE
SECTION A-A

TOILET BLOCK-1 ROOF DRAINAGE PLAN

DISABLE TOILET ROOF DRAINAGE PLAN

TOILET BLOCK-2 ROOF DRAINAGE PLAN

CANTEEN ROOF DRAINAGE PLAN

NEW BUILDING ROOF DRAINAGE PLAN

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I.L	INVERT LEVEL
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Ø4"	#4" UPVC SEWER PIPE
Ø6"	#6" UPVC SEWER PIPE
Ø8"	#8" UPVC SEWER PIPE
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F.T.G	Floor Trap Gully
F.C.O	Floor Clean Out
M.H.G	Manhole with Trap Gully

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DRAWING TITLE:
Roofs Drainage Plan

DESIGN: AA	DATE: 20-February-2016
DRAWN: AA	
APPROVED: A.A.	SCALE: 1:100
SHEET NO: **M04**	