



THE KINGDOM OF SAUDI ARABIA THROUGH
THE SAUDI FUND FOR DEVELOPMENT (SFD)



PROJECT Name:

Reconstruction and repair works of more than 150 effected houses for non-refugees and Rehabilitation and Furniture for field playgrounds and a culture center.

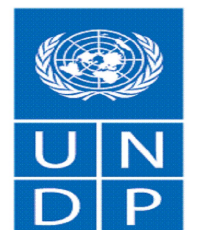
Lot#12: Construction of the western grand stand in Beit Lahia playground

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THE KINGDOM OF SAUDI ARABIA THROUGH
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EMPLOYER:

UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)



*Empowered lives.
Resilient nations.*

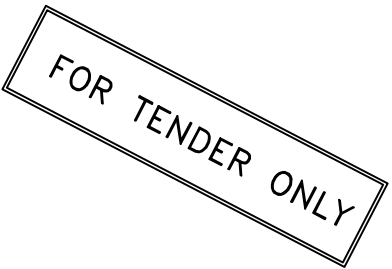
ARCHITECTURE




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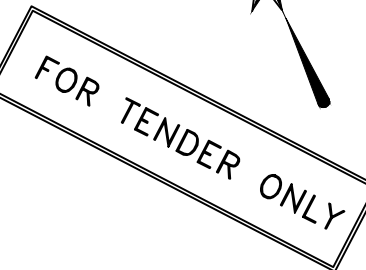
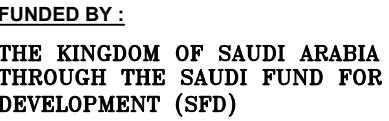
CLIENT:
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CONSULTANT:

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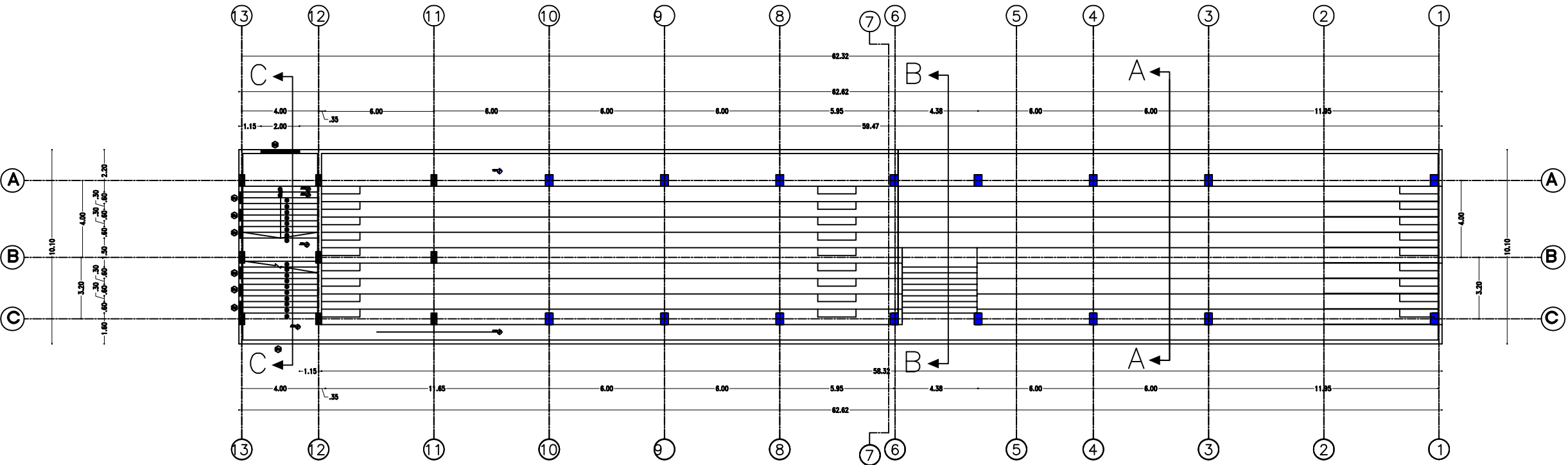
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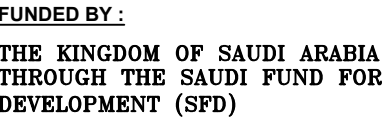
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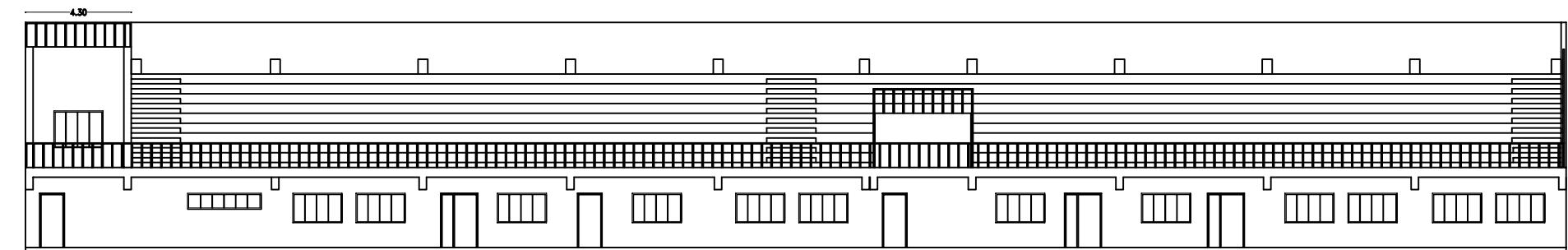
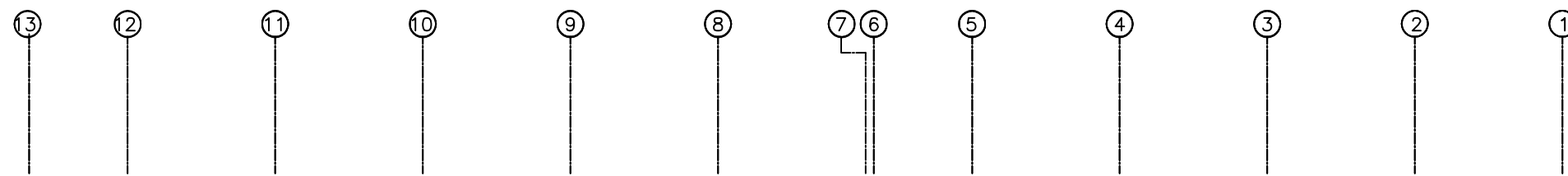
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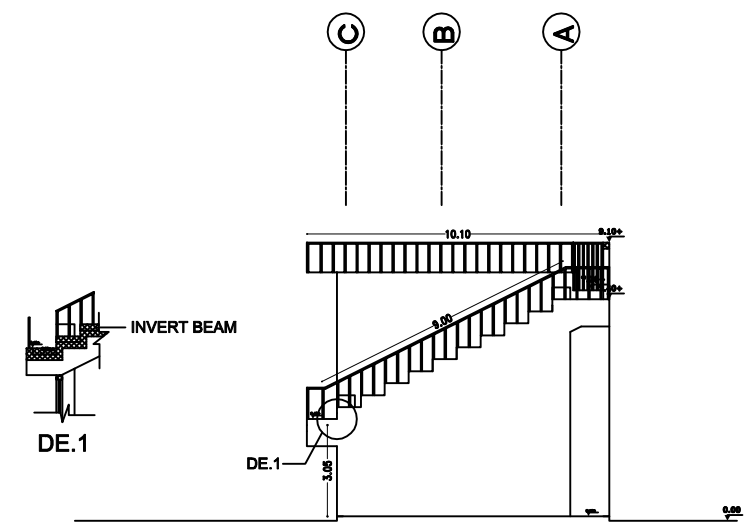
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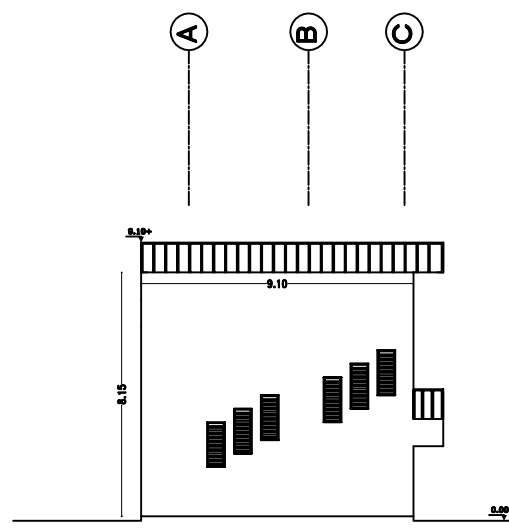
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FORE VIEW



SIDE ELEVATION



SIDE ELEVATION



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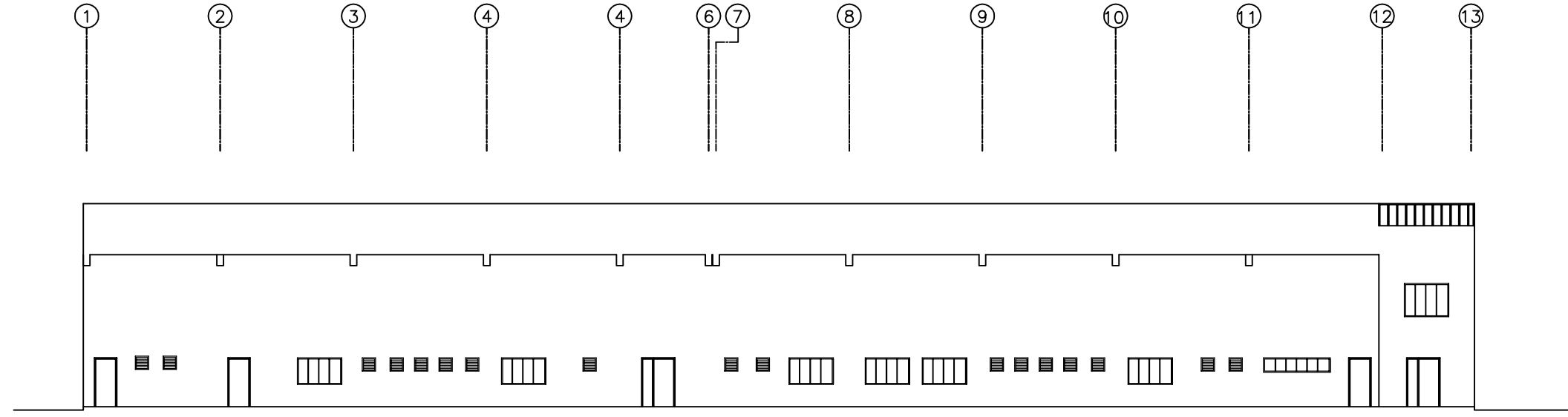
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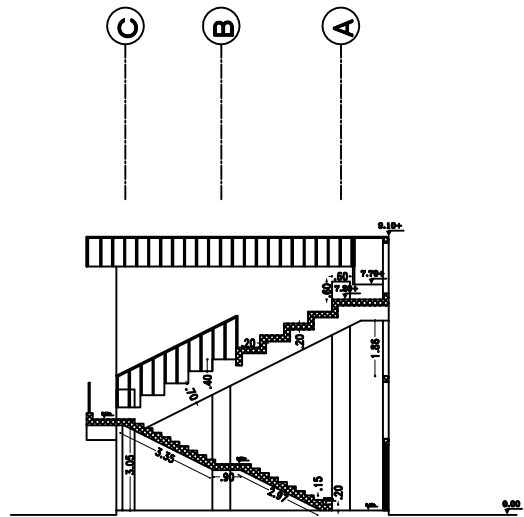
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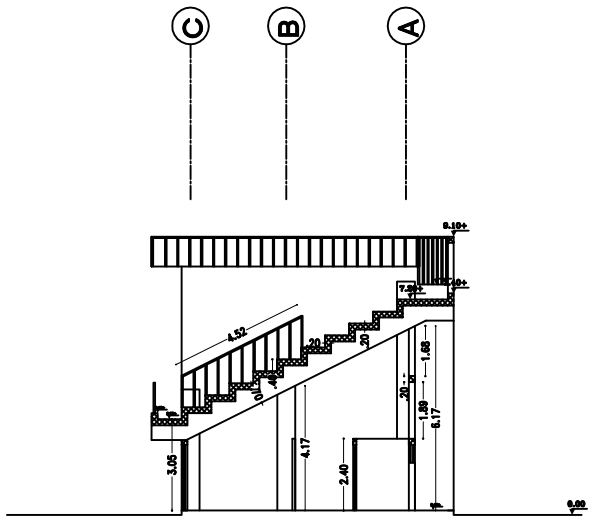
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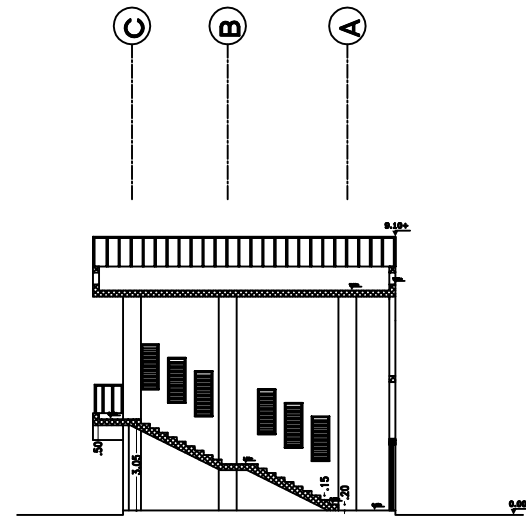
BACK VIEW



SECTION B-B



SECTION A-A



SECTION C-C



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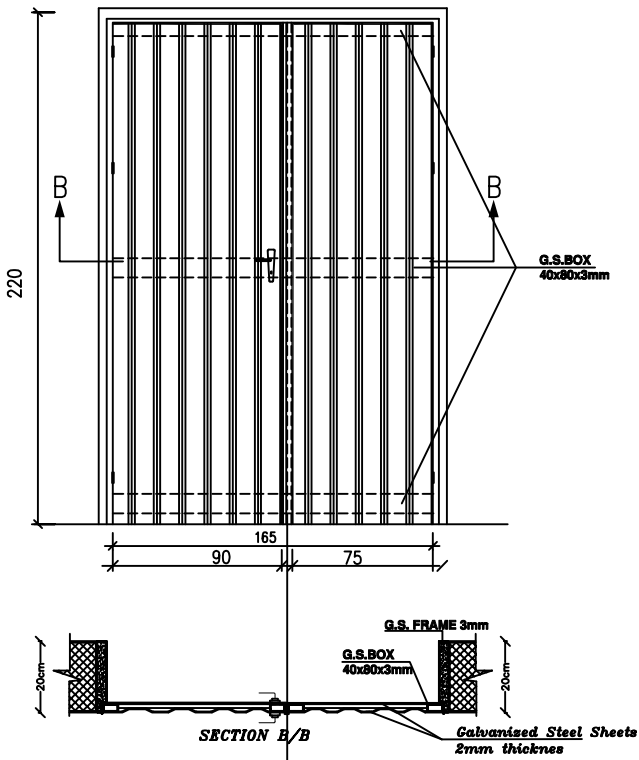
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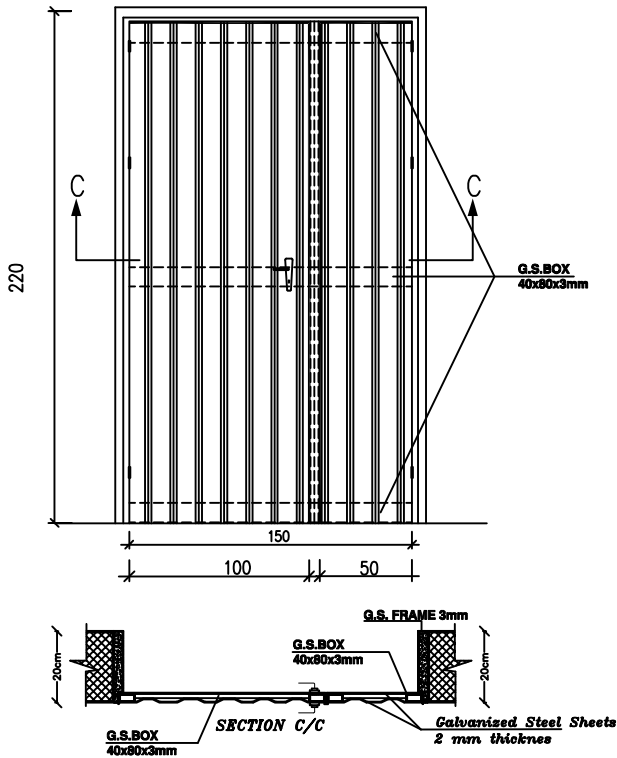
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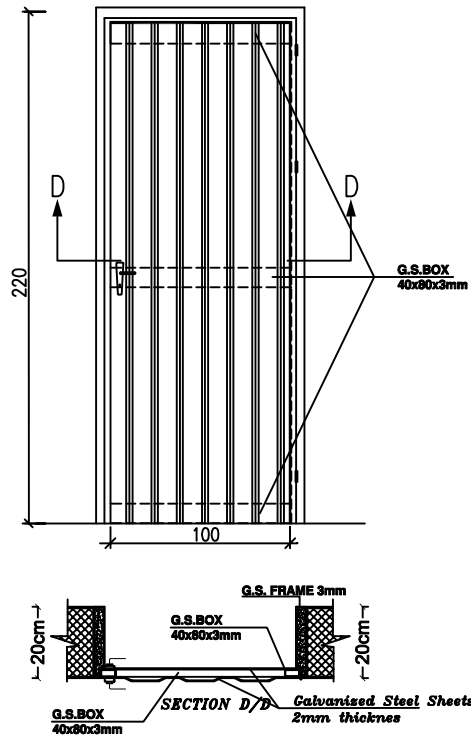
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DRAWN BY	DATE	SERIAL NO.



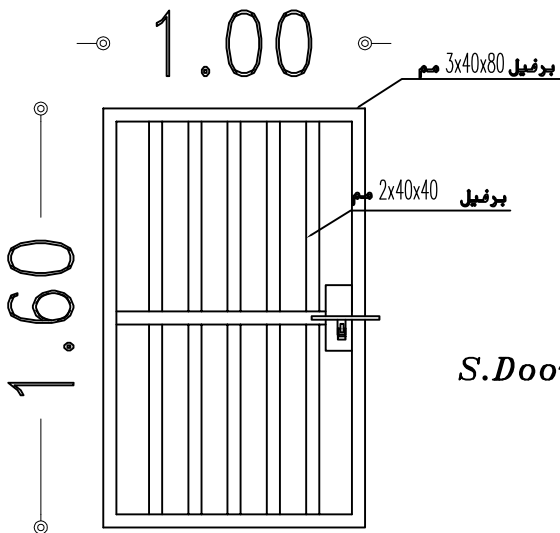
S.Door 3
باب حديد مغلفن ومكوبج



S.Door 1
باب حديد مغلفن ومكوبج



S.Door 2
باب حديد مغلفن ومكوبج



S.Door 4



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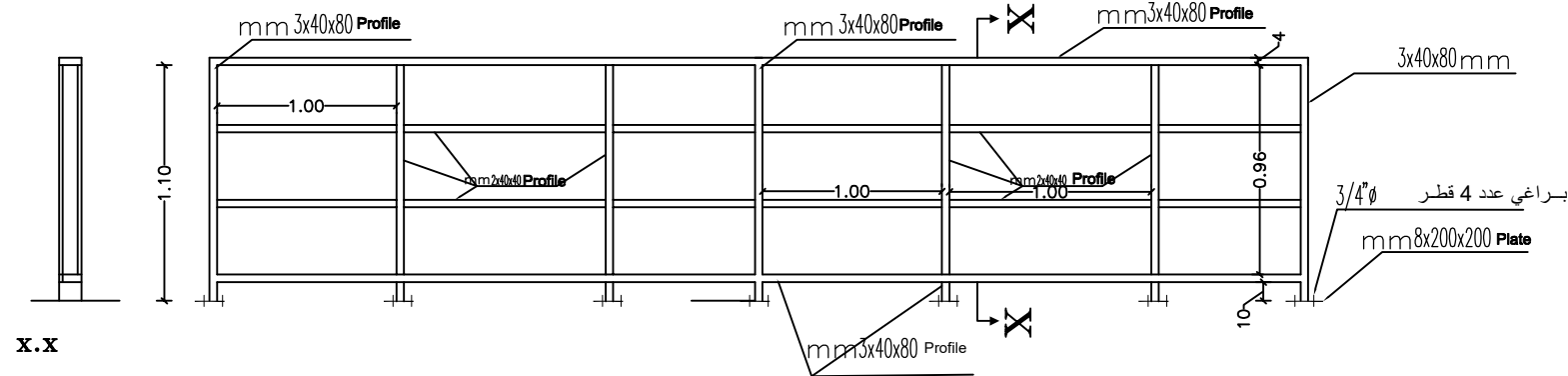
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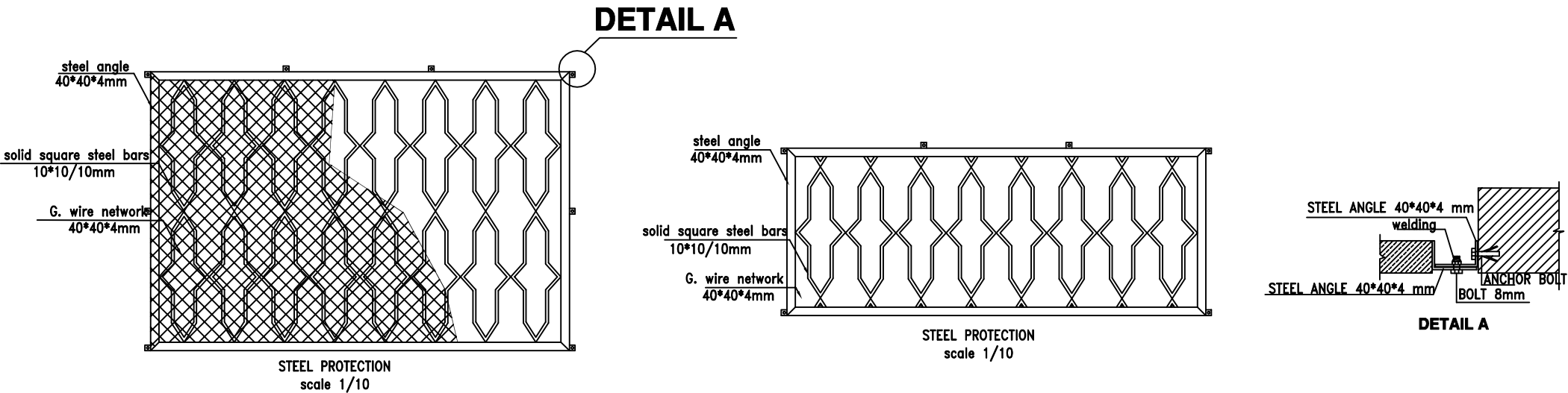
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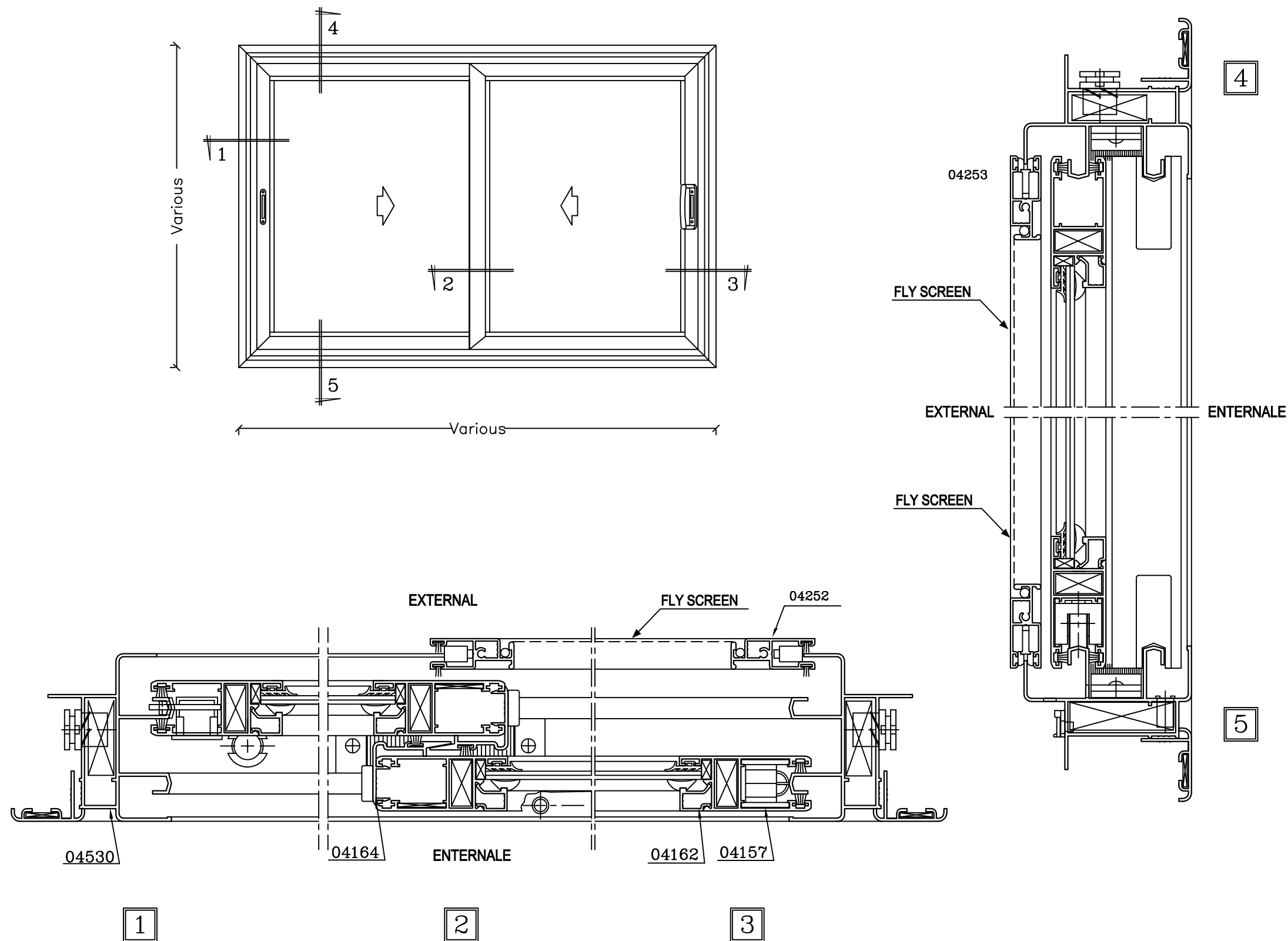
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Handrails Details



حمايات الشبائك



WINDOW DETAILS



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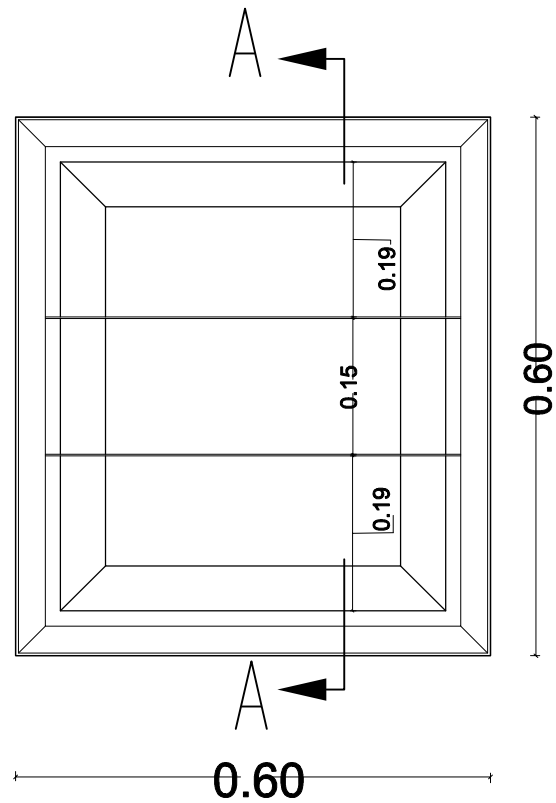
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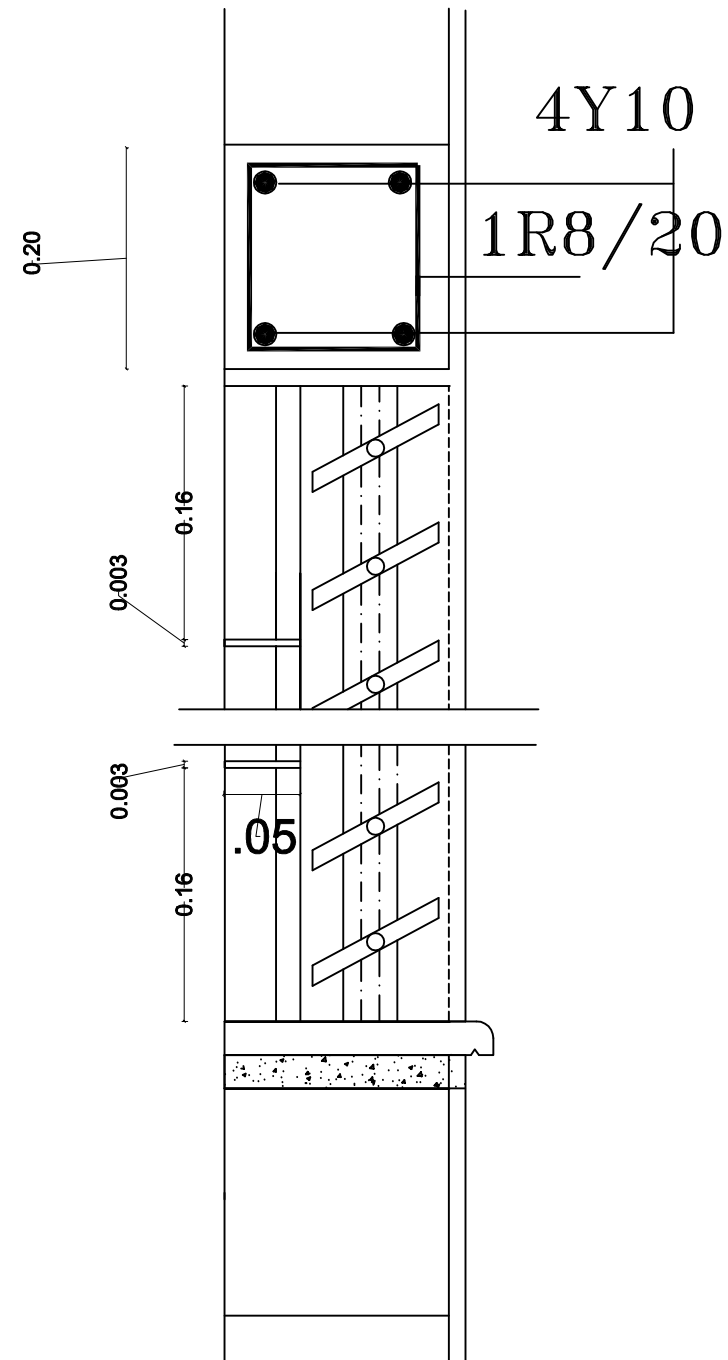
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W02



Detail A



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CIVIL WORKS



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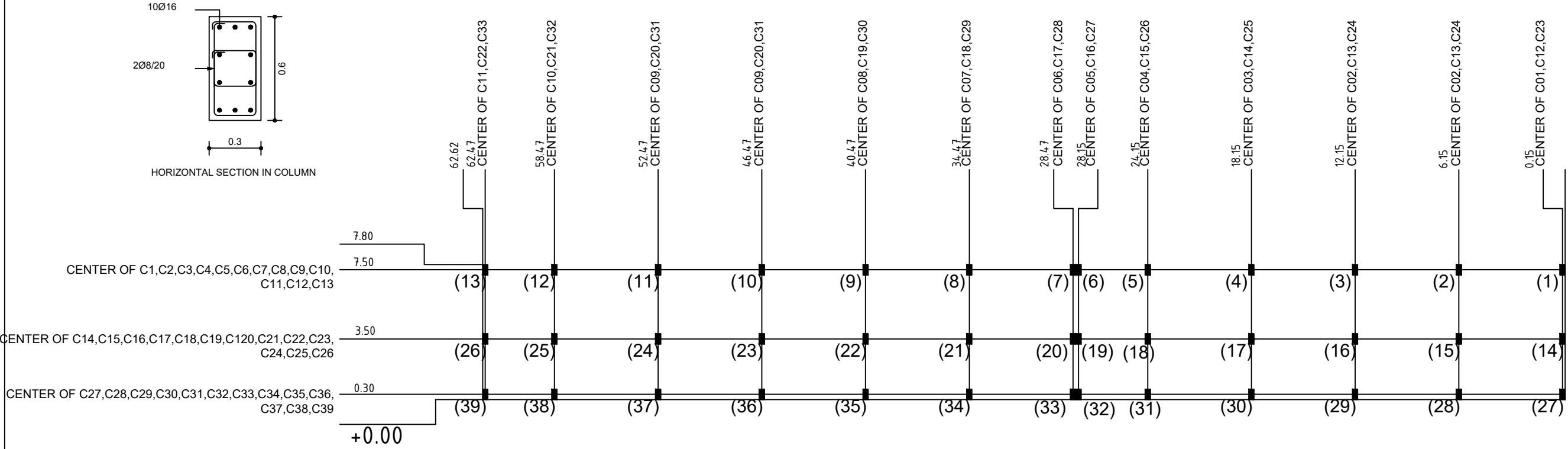
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COLUMN PLAN



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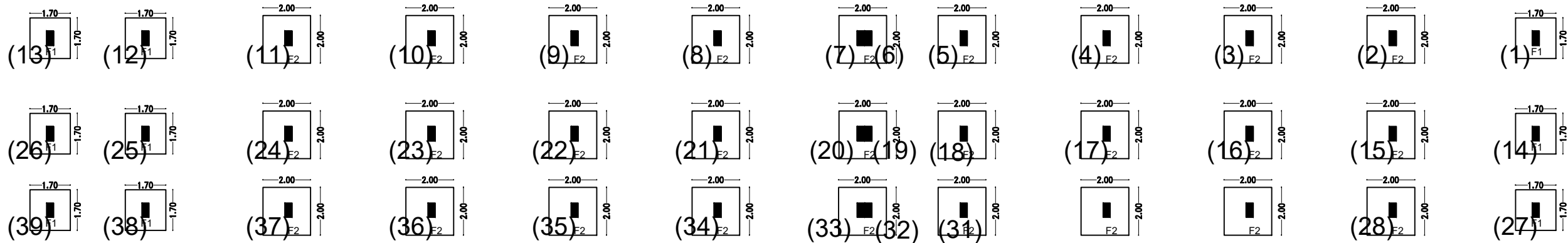
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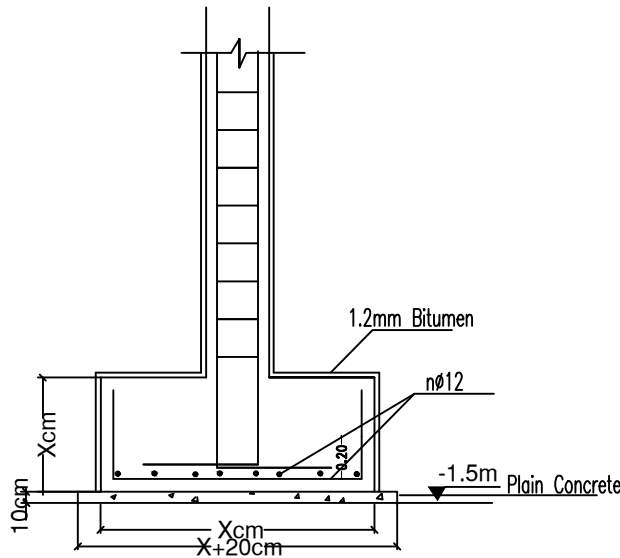


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GRAPHIC SCALE			
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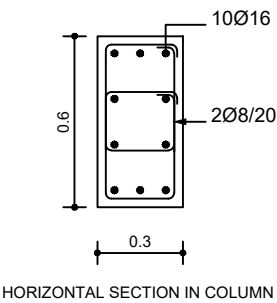
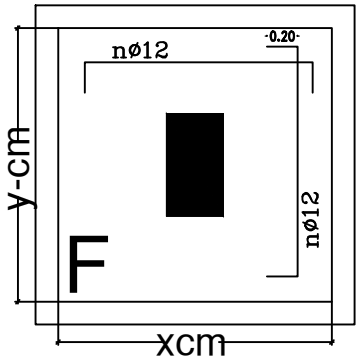


FOOTINGS PLAN

FOUNDATIONS RFT TABLE						
Mark	Column No.	Number	Dimentions			Reinforcement
			Length (cm)	Width (cm)	Depth (cm)	
F1	C1	9	1.7	1.7	0.4	Ø12/10cm Both Way
F2	C1	27	2	2	0.5	Ø12/12cm Bath way



Typical Detail in Isolated Footing

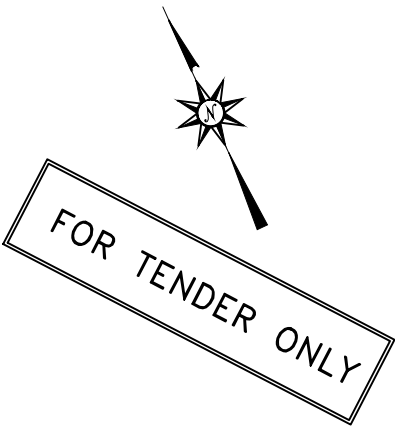


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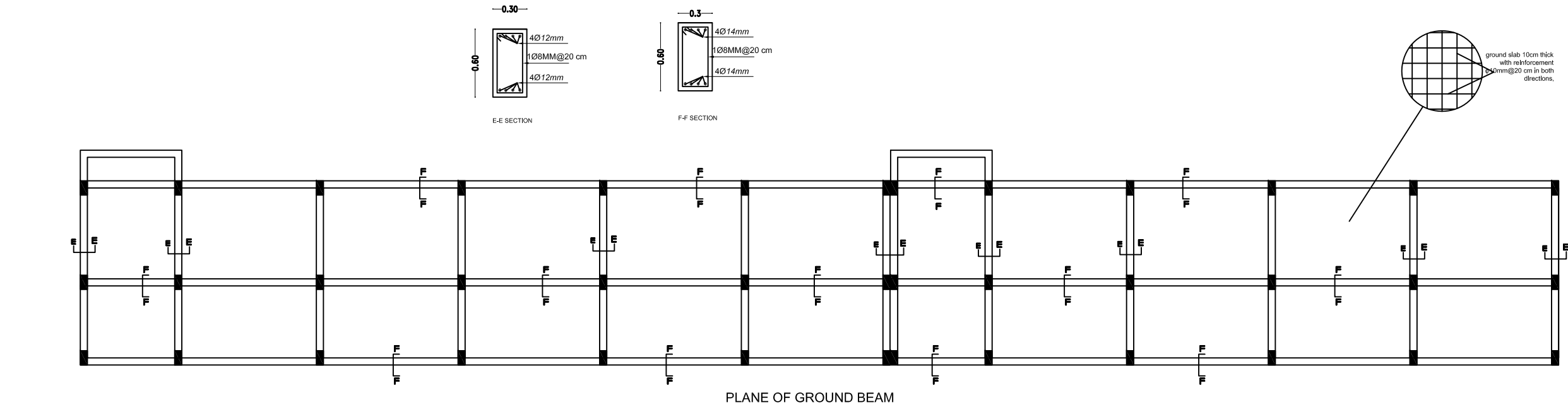
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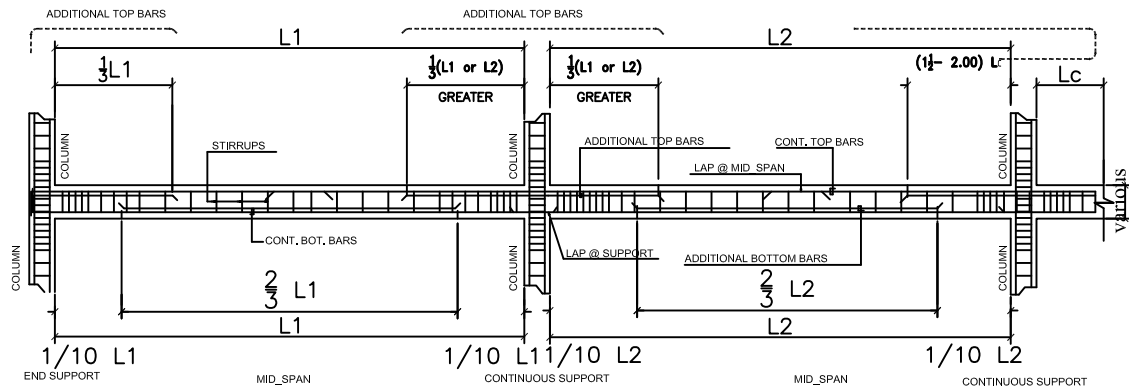


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STIRRUPS

-COLUMN STIRRUPS (TIES), ARE SPACED EVERY10CM FOR UPPER&LOWER THIRD (NOT LESS THAN SPAN THIRD), TIES AT MIDWAY OF COLUMN ARE SPACED AT 15CM IF ELSE NOT NOTED.

-BEAM STIRRUPS (TIES), ARE SPACED EVERY10CM FOR FIRST&LAST THIRD OF BEAM SPAN(NOT LESS SPAN THIRD), TIES AT MIDWAY OF BEAM ARE SPACED AT 15CM IF ELSE NOT NOTED.

TYPICAL REINFORCING DETAIL OF BEAMS AND GIRDERS.
SCALE: N.T.S.

GENERAL NOTES1:

1.CODE OF PRACTICE

Detailing and workmanship shall be according to ACI 318-05.
Design for concrete done according to ACI 318-05.
Estimation of Loads are according to ASCE 7-05 Table 4-1
Approved equivalent international codes shall be accepted.
Material testing is according to ASTM Standards.

2.DRAWINGS

- Structural drawings shall be read in conjunction with Architectural, Mechanical and Electrical drawings.
- Stairs and openings smaller than 200x200mm are not shown on the Structural drawings .
For required openings refer to Architectural . Mechanical and Electrical drawings .
- Contractor shall prepare shop drawings and bar bending schedules for reinforcement in a format agreed with the Engineer .
- Drawings are not necessarily to scale .
- Chemicals for fair faced concrete are not shown on Structural Drawings . Reference should be made to Architectural details for such purpose .
- Contractor shall supply detailed drawings and calculations for all support and temporary works and propping systems as applicable and all other relevant information subject to the Engineer's approval prior to commencement of construction .

3 _CONCRETE COMPRESSIVE STRENGTH

The following concrete compressive strength for (Cube 15x15x15) after 28 days shall be employed
Plain Concrete = 200 kg/cm2
For Foundations = 300 kg/cm2
For Ground Beams = 300 kg/cm2
For Columns = 300 kg/cm2
For slabs = 300 kg/cm2
For all non Structural Elements = 250 kg/cm2

4 FOUNDATIONS_

- Contractor shall adhere strictly to the geotechnical report for this project. He shall be responsible to determine strata characteristics at the appropriate levels .
- The foundations are designed for a permissible bearing capacity equal to 150 kN/m2 .
- Contractor shall be responsible for the coordination of all required E/M services within the sub - structure subject to approval of the engineer .

5 BACK Fill

All back fill material shall conform to specifications and shall be properly tested .

GENERAL RULES

1.COVER_

Clear concrete cover to reinforcement shall be :
70mm for Foundation, column necks, ground beams

25 mm for beams,columns, walls and slabs and stairs and all other elements.

2.Min. Bar Spacing

Bar spacing "a" shall be not less than the greatest in the following three cases:
1) 25 mm 2) 1.5 d 3) 1.25 times the max. size of coarse aggregate.

3.Interval of bar splices

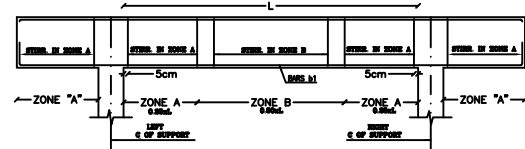
Lap splice with hook $a > 0.5L$	(1)	(2)
Lap splice without hook $a > 0.5L$	(3)	(4)
Gas pressure welding $a > 40d$	(5)	(6)

Floor Slab

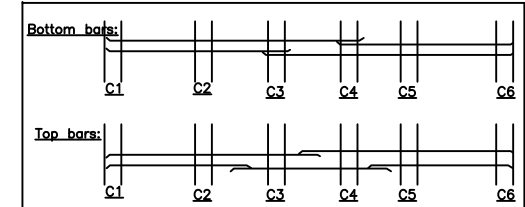
1.Floor Openings (max. size 600mmx600mm)

Provide additional reinforcing bars at floor openings.
a: 2Ø14 (double layer)
b1= n1 (same dia.)
b2= n2 (same dia.)
reinforcing bars at floor openings (which is over max. size) are shown in structural drawings.

4. TYPICAL DETAIL For Stirrups Distribution



5.Typical Staggered Bars for slabs and stadium requirements



6.Lap Splices

Kind	Compressive Strength of concrete F_c (kg/cm2)	Without Hook			With Hook		
		S1	S2	S3	S1	S2	S3
Secondary	≥ 200	40d	35d	25d	30d	25d	15d
Main	≥ 200	45d	40d	25d	35d	30d	15d

S1 : Lap splice length, and embedment length in tension zone.
S2 : embedment length in compression zone.
S3 : embedment length for the bottom bars of sub-beam and floor slab.
In case concrete strength, F_c is below 200kg/cm2,S1 and S2 length shall be increased by 5d to the required length shown in the table.

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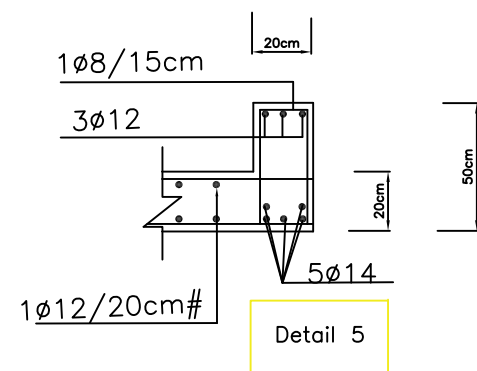
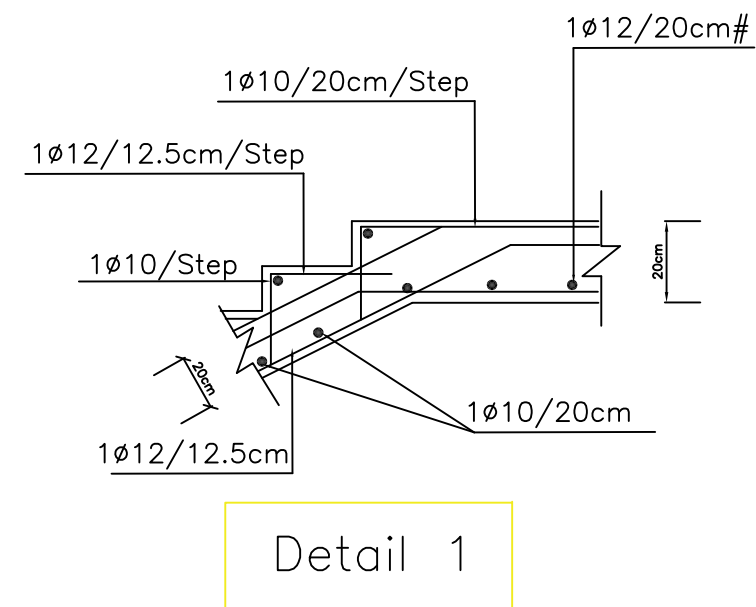
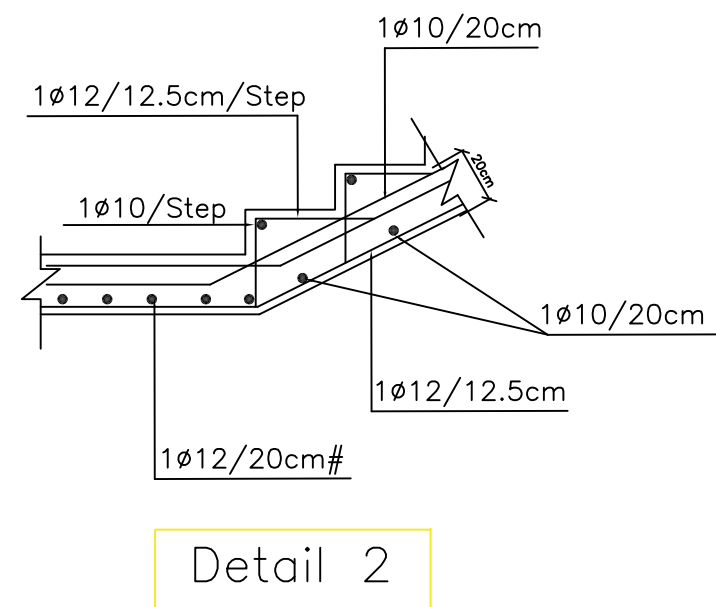
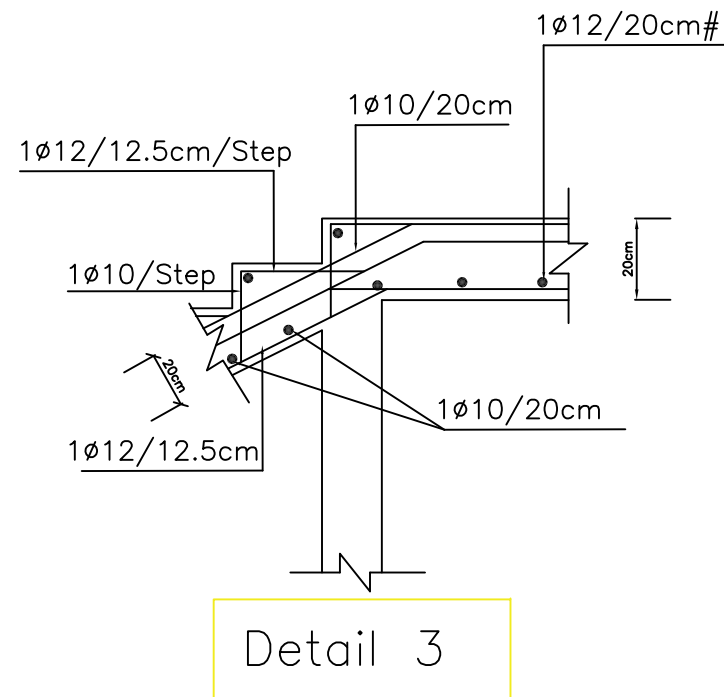
Reconstruction and repair works of more than 150 effected houses for non-refugees and Rehabilitation and Furniture for field playgrounds and a culture center.

Lot#12: Construction of the western grand stand in Beit Lahia playground

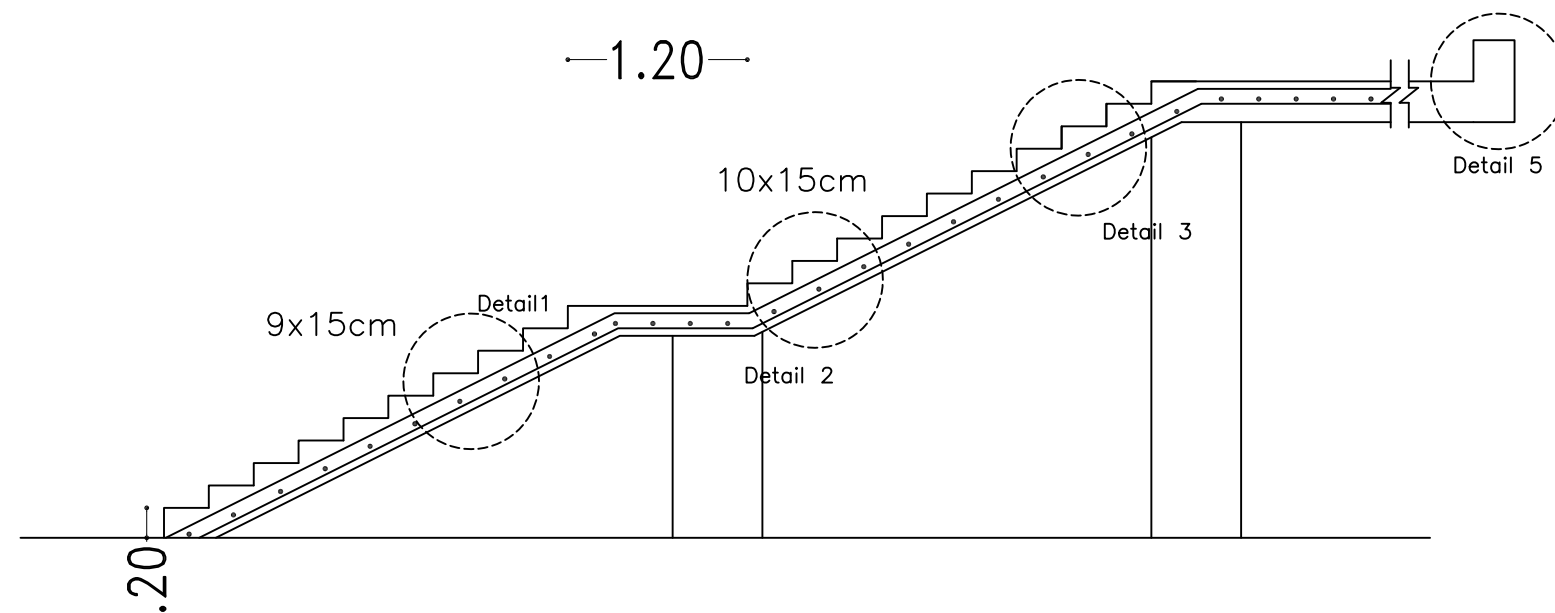
DRAWING TITLE:

Ground Beams Details

PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	C-04
DRAWN BY	DATE	SERIAL NO.



**IPE Length =50cm
 **Total No. of IPEs=20



Inverted Edge Beam To Fix IPE140&HandRail.
 Hand Rail connection to the IPE140 BOLTED Connection
 Hand Rail bolt&nut size =14mm hot rolled



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 THE KINGDOM OF SAUDI ARABIA
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 DEVELOPMENT (SFD)



LEGEND:

FOR TENDER ONLY



SYM.	NAME
GRAPHIC SCALE 0 1 2 3 4	
NO	DATE
ENG	REVISIONS

CLIENT:
 Beit Lahia municipality

EMPLOYER:
 UNITED NATIONS RELIEF AND WORKS AGENCY
 (UNRWA) THROUGH UNITED NATIONS
 DEVELOPMENT PROGRAMME (UNDP/PAPP)

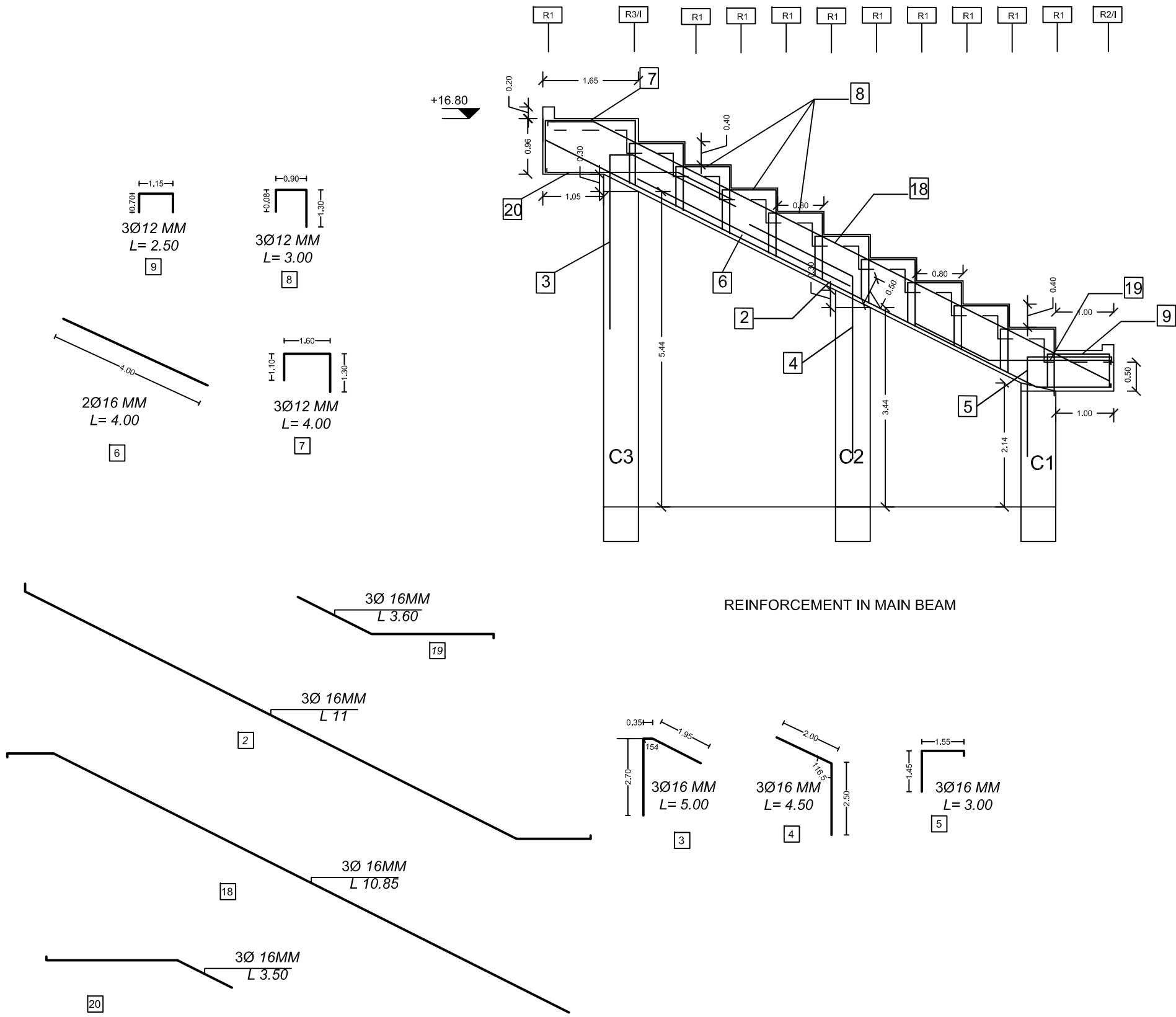
CONSULTANT:

PROJECT TITLE:
 Reconstruction and repair works of more
 than 150 effected houses for non-refugees
 and Rehabilitation and Furniture for field
 playgrounds and a culture center.
 Lot#12: Construction of the western grand
 stand in Beit Lahia playground

DRAWING TITLE:
 Stairs Details

PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	C-05
DRAWN BY	DATE	SERIAL NO.

REINFORCEMENT WORK FOR PART I and II



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LEGEND:

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SYM.	NAME
GRAPHIC SCALE 0 1 2 3 4	
NO	DATE
ENG	REVISIONS

CLIENT:
Beit Lahia municipality

EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.
Lot#12: Construction of the western grand
stand in Beit Lahia playground

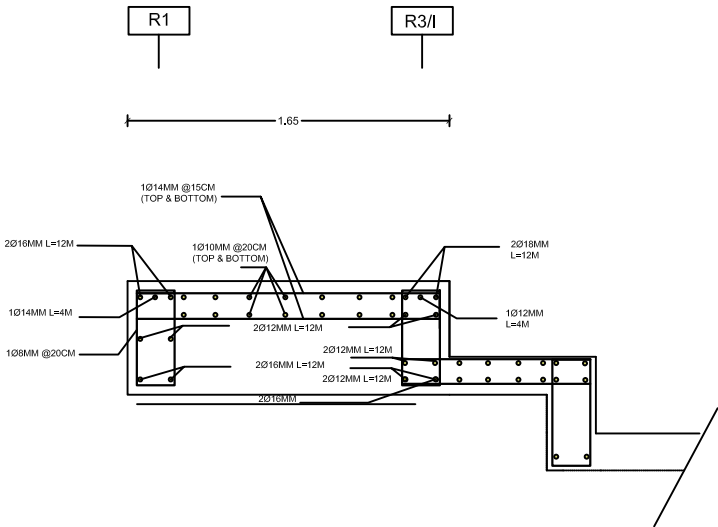
DRAWING TITLE :
Drop Beams Details

PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	C-06
DRAWN BY	DATE	SERIAL NO.

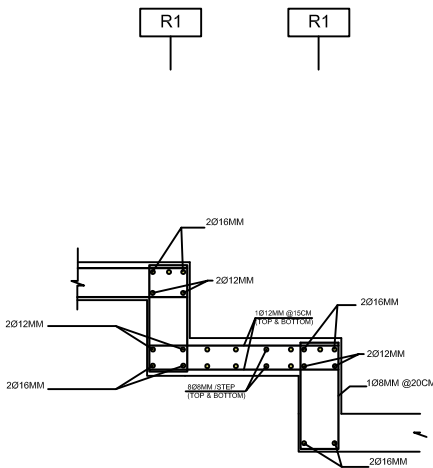
REINFORCEMENT WORK

Table 1 (Ribbed Beam)

Type	Number	Section	REINFORCEMENT DETAILS
<u>R3/I</u>	<u>2</u>		
<u>R2/I</u>	<u>2</u>		
<u>R1</u>	<u>20</u>		



DETAIL- D1



DETAIL- D2

STEP'S REINFORCEMENT BETWEEN MAIN BEAMS



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LEGEND.

FOR TENDER ONLY



SYM.		NAME	
GRAPHIC SCALE			
NO DATE	ENG	REVISIONS	

CLIENT

Beit Lahia municipality

EMPLOYER

UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

CONSULTANT:

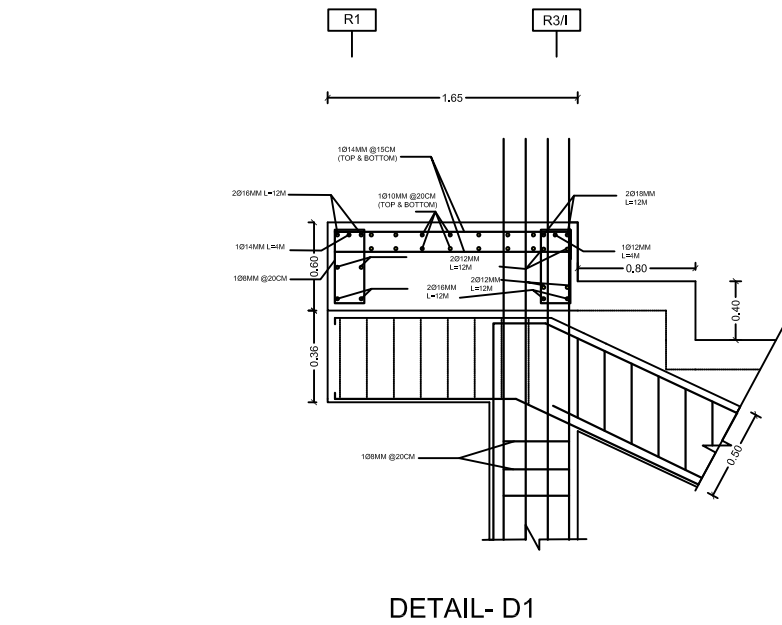
PROJECT TITLE:

Reconstruction and repair works of more than 150 effected houses for non-refugees and Rehabilitation and Furniture for field playgrounds and a culture center.

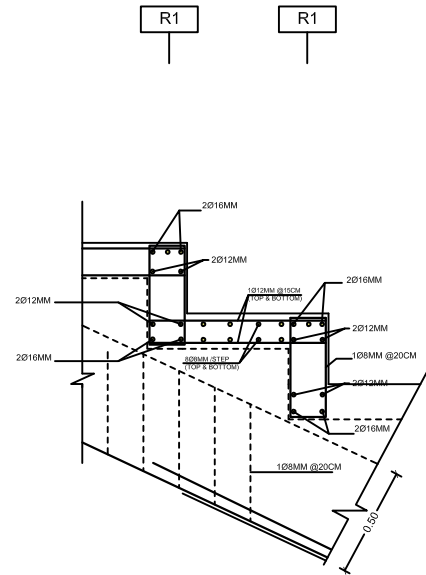
Lot#12: Construction of the western grand stand in Beit Lahia playground

DRAWING TITLE : REINFORCEMENT WORK

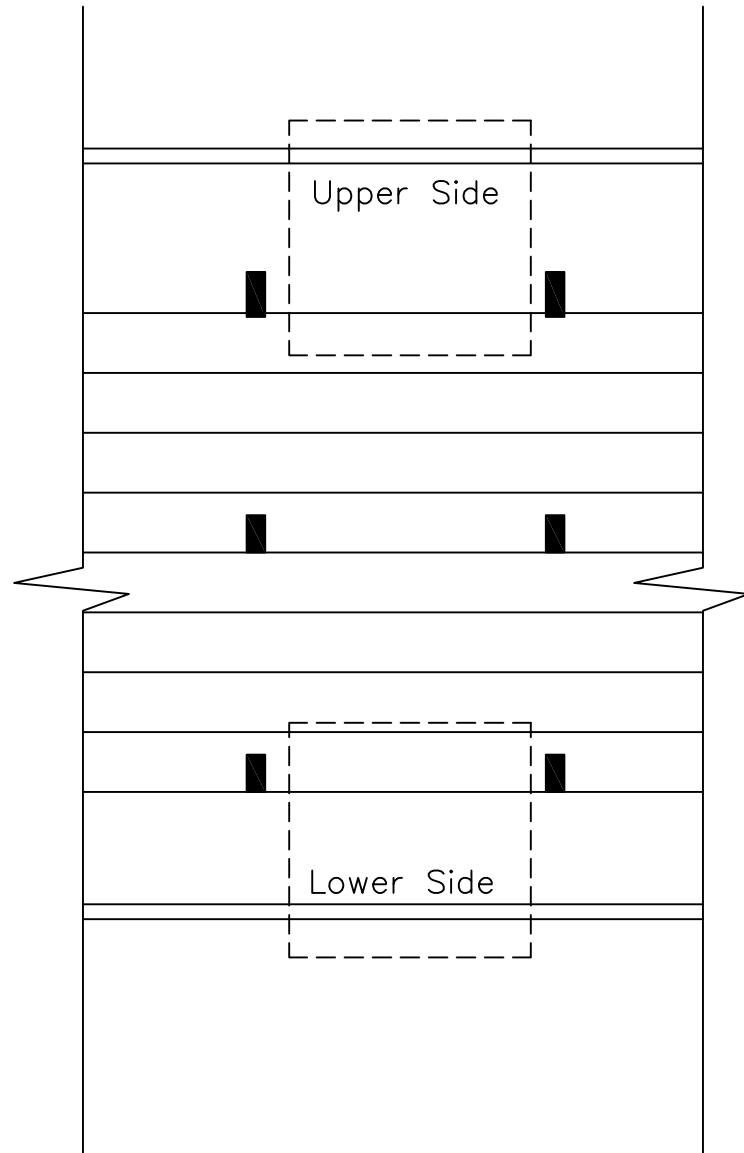
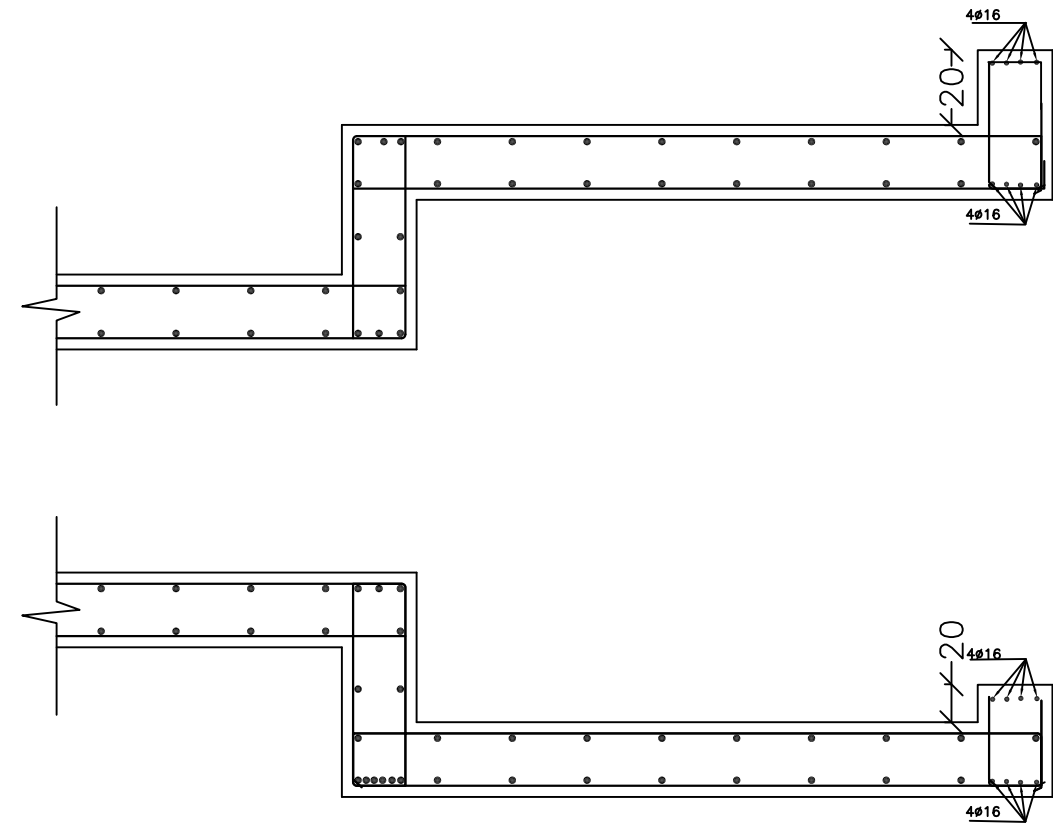
PREPARED BY	SCALE	DRAWING NO. C-07
CHECKED BY	APPROVED BY	
DRAWN BY	DATE	SERIAL NO.



DETAIL- D1



DETAIL- D2



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LEGEND:

FOR TENDER ONLY



SYM.	NAME
GRAPHIC SCALE 0 1 2 3 4	
NO	DATE
ENG	REVISIONS

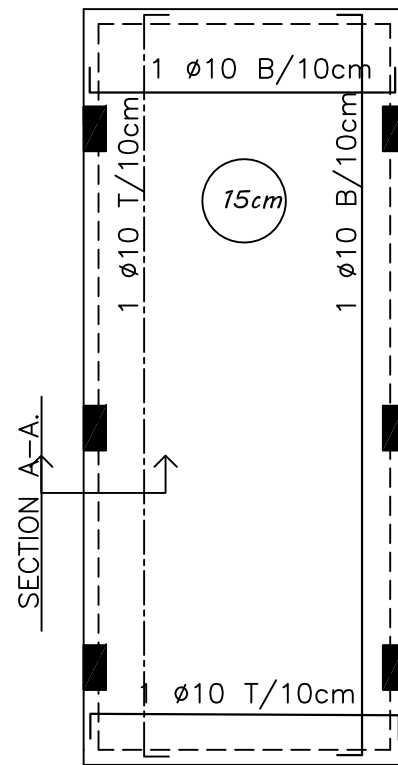
CLIENT:
Beit Lahia municipality

EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

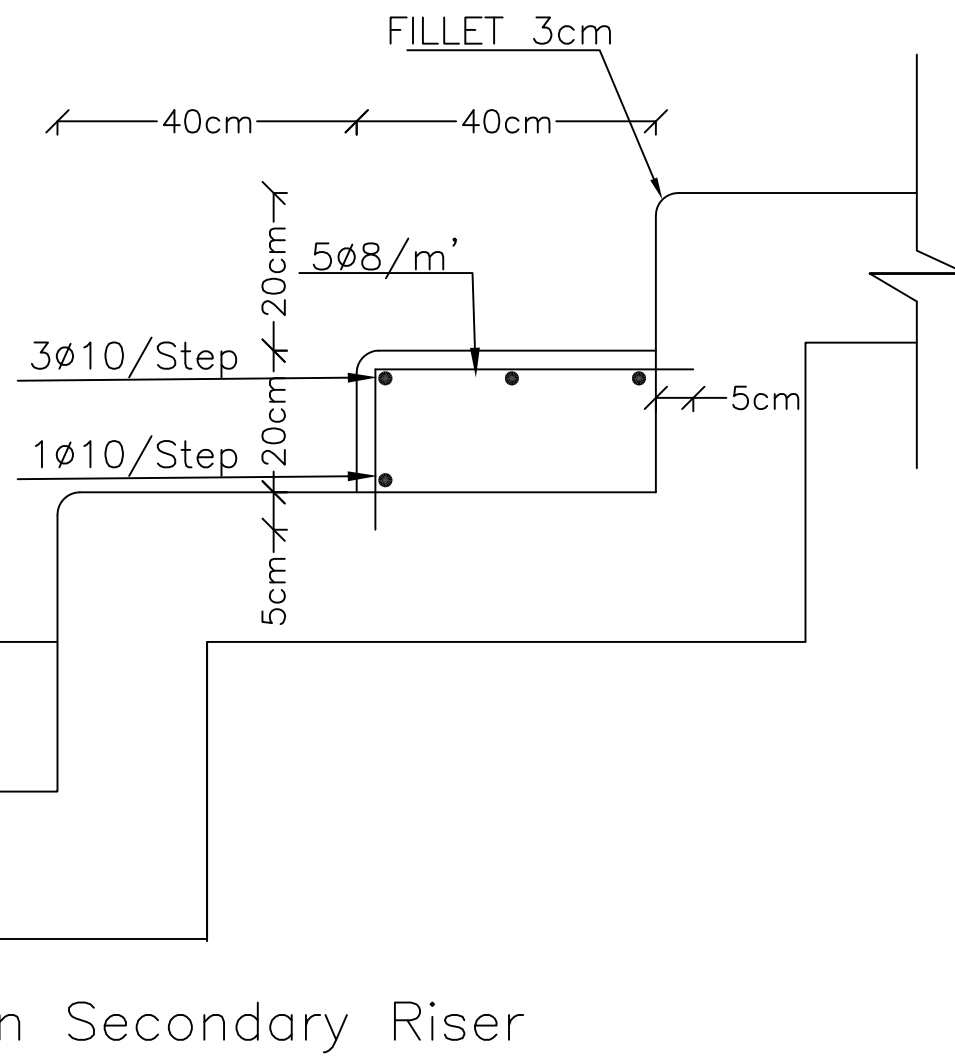
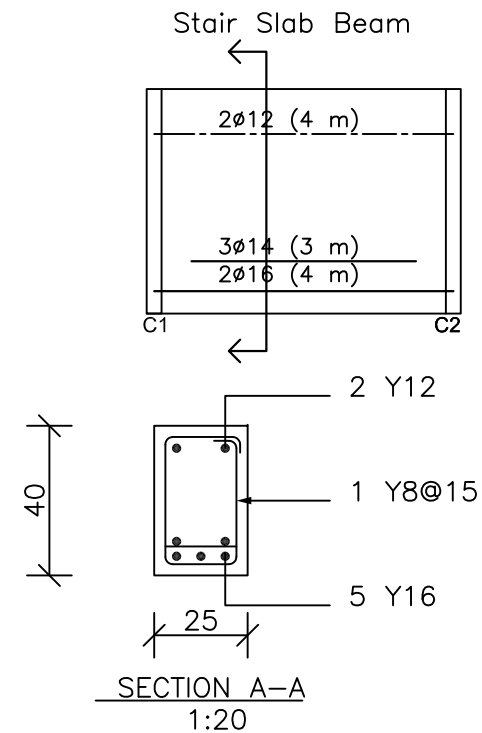
CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.
Lot#12: Construction of the western grand
stand in Beit Lahia playground

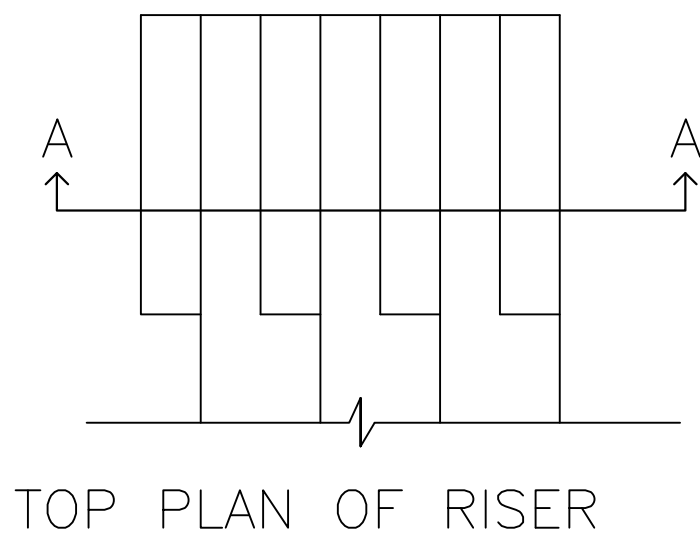
DRAWING TITLE :		
REINFORCEMENT WORK		
PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	C-08
DRAWN BY	DATE	SERIAL NO.



Ceiling Of Stair SLAB Thickness 15cm



Detail In Secondary Riser
SECTION A-A



TOP PLAN OF RISER



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LEGEND:

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SYM.	NAME
GRAPHIC SCALE 0 1 2 3 4	
NO	DATE
ENG	REVISIONS

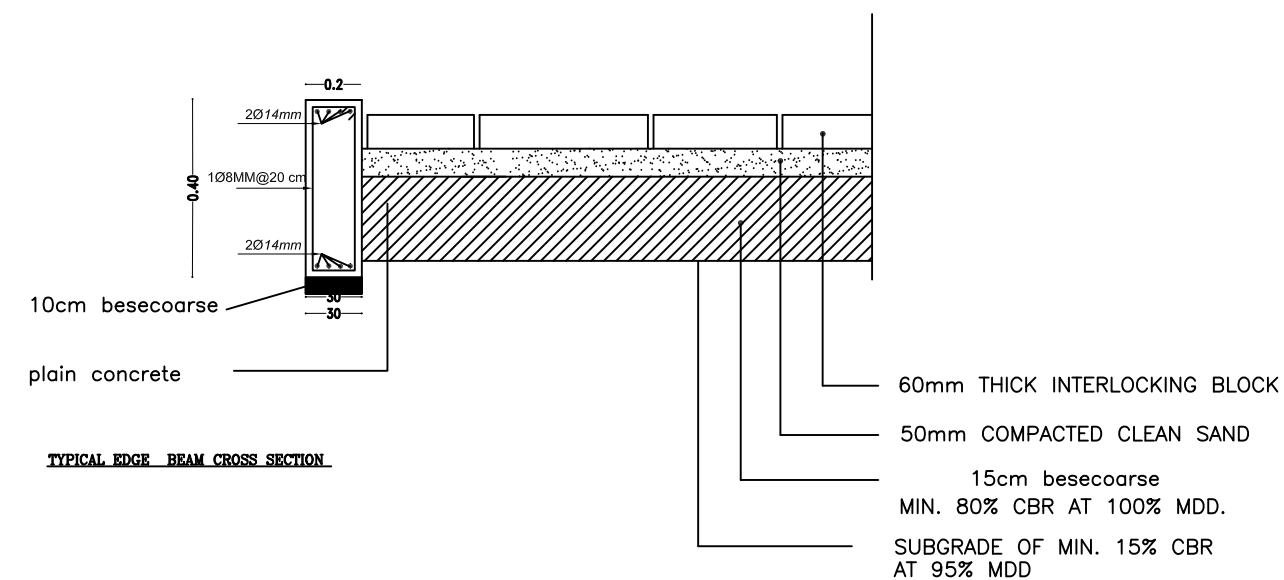
CLIENT:
Beit Lahia municipality

EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

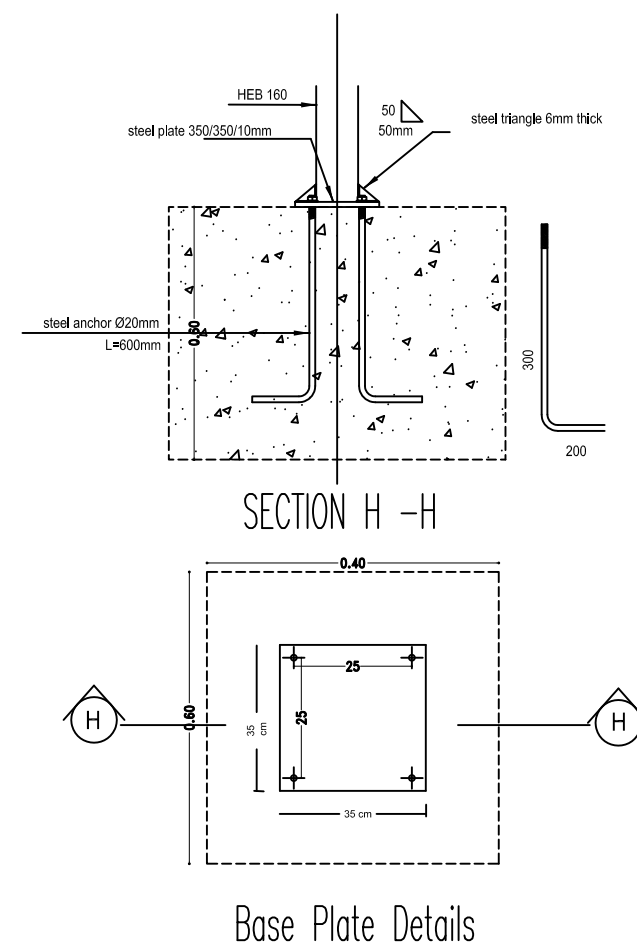
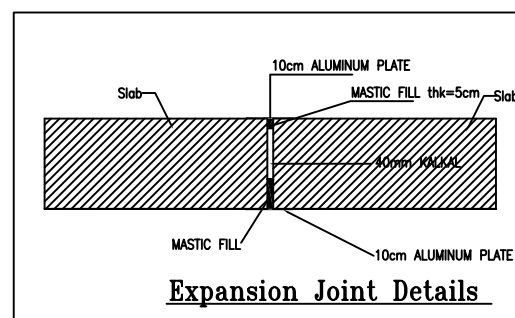
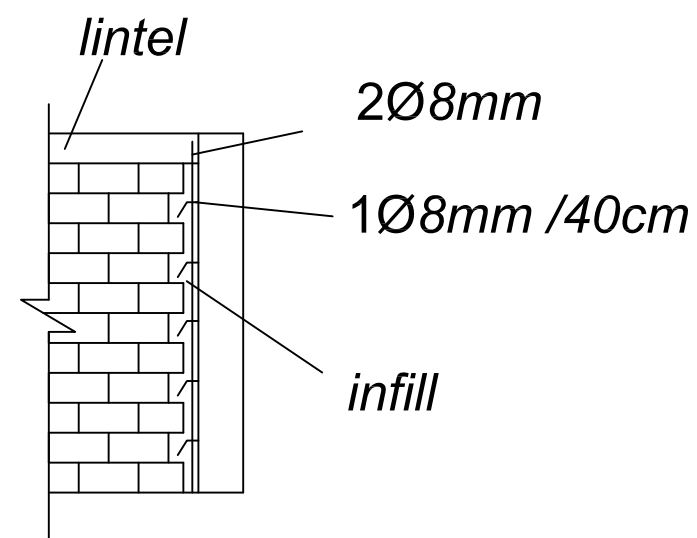
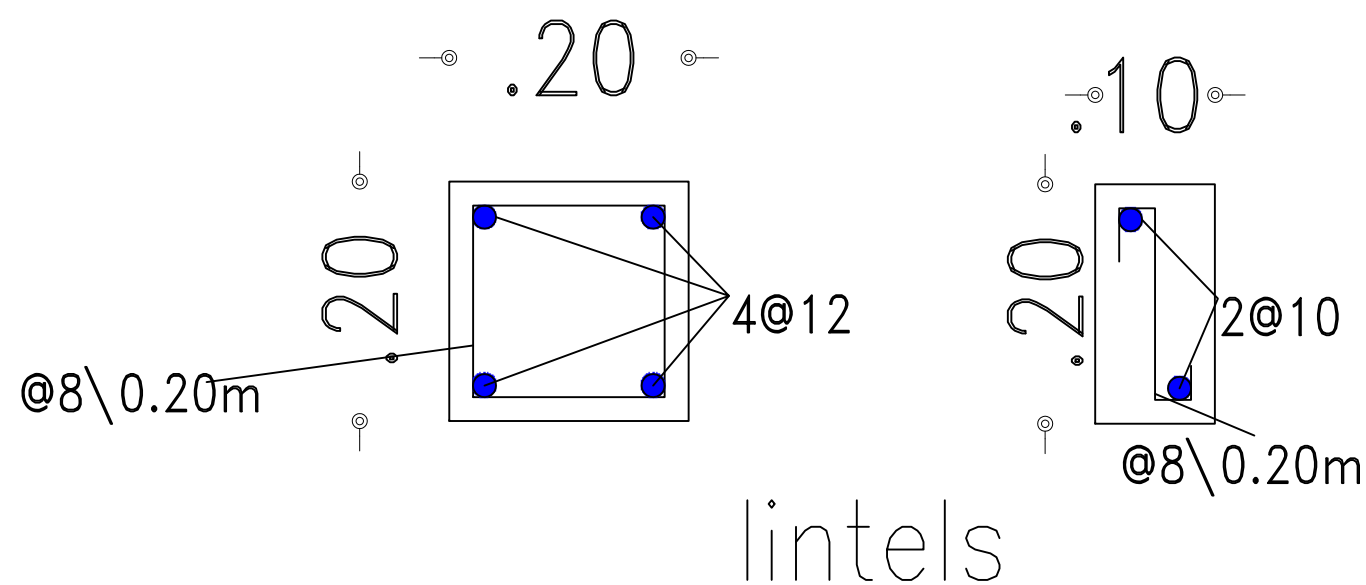
CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.
Lot#12: Construction of the western grand
stand in Beit Lahia playground

DRAWING TITLE :		
REINFORCEMENT WORK		
PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	C-09
DRAWN BY	DATE	SERIAL NO.



TYPICAL EDGE BEAM CROSS SECTION



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LEGEND:

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SYM.	NAME
GRAPHIC SCALE 0 1 2 3 4	
NO	DATE
ENG	REVISIONS

CLIENT:
Beit Lahia municipality

EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

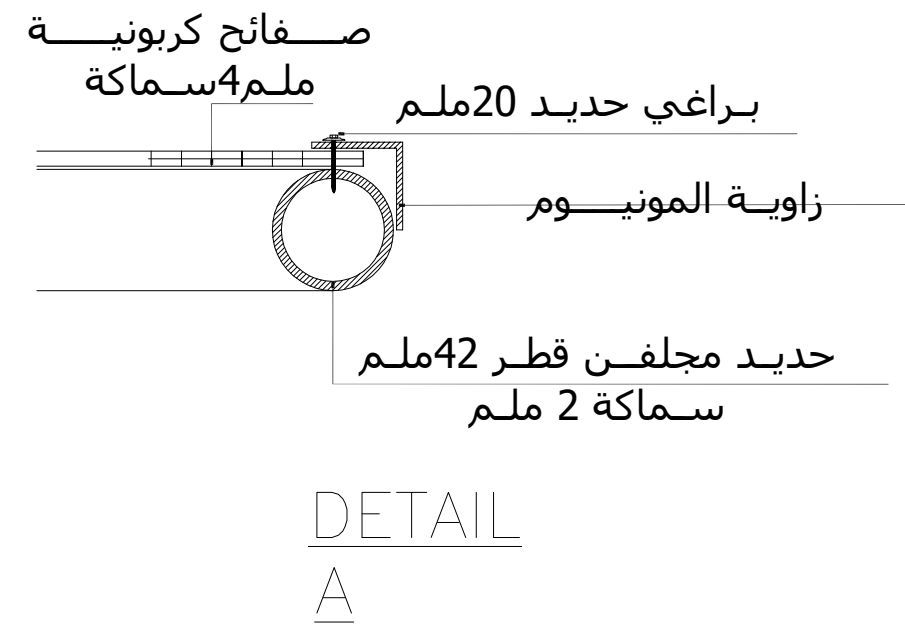
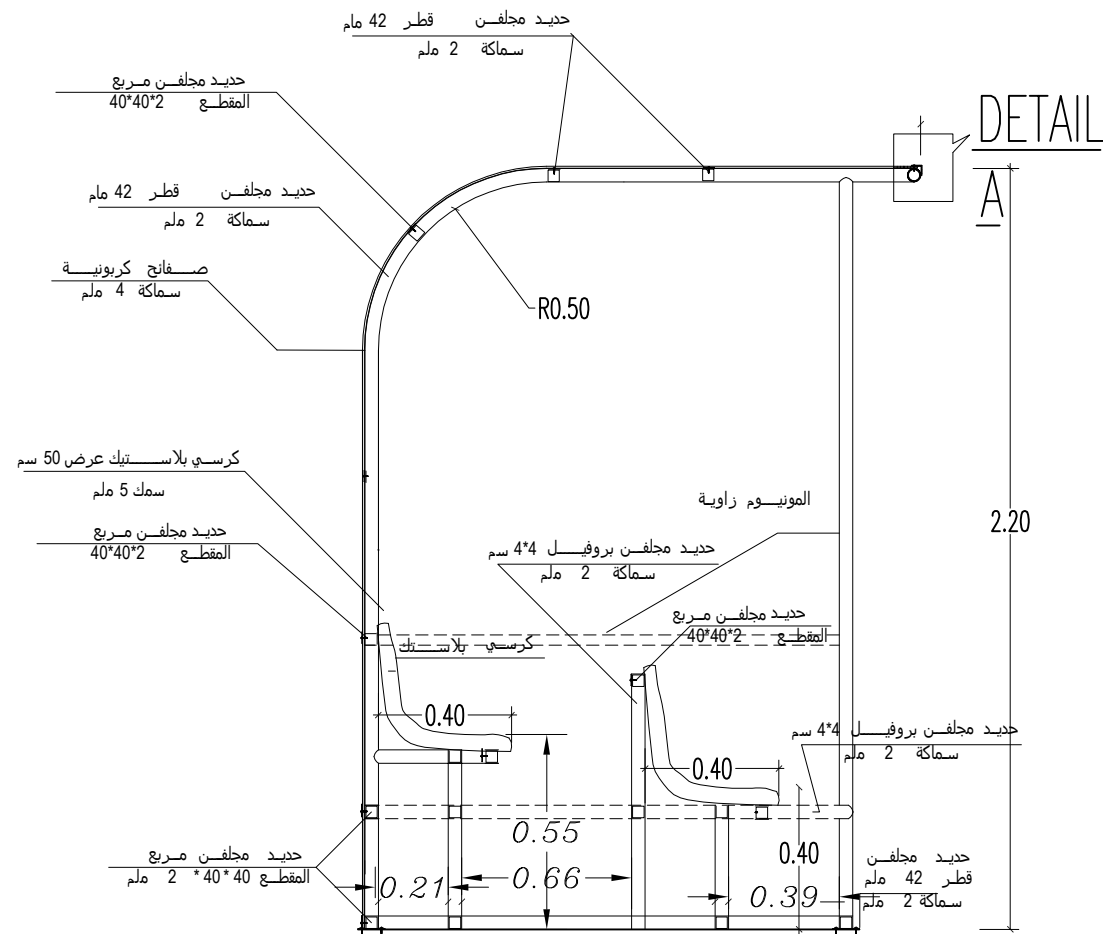
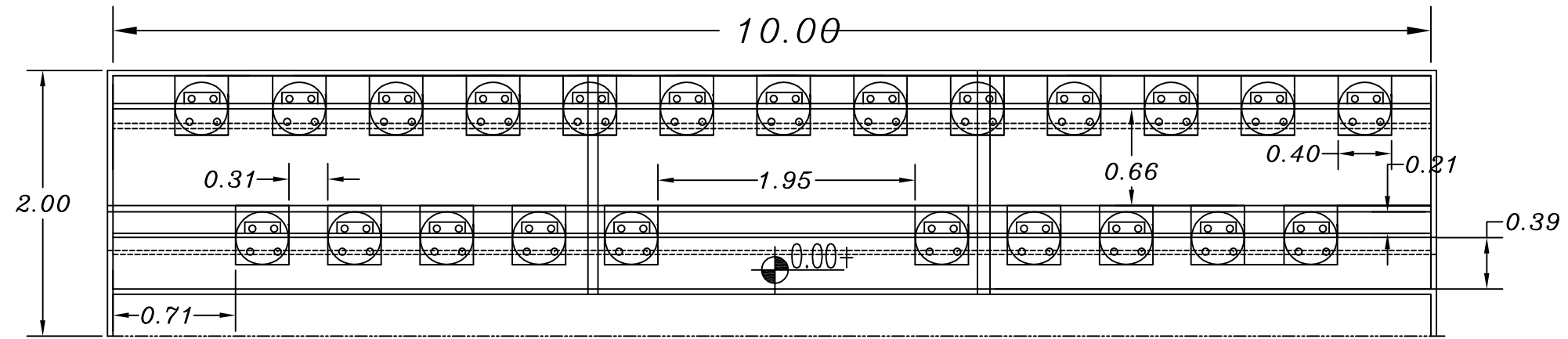
CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.

Lot#12: Construction of the western grand
stand in Beit Lahia playground

DRAWING TITLE: REINFORCEMENT WORK

PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	C-10
DRAWN BY	DATE	SERIAL NO.



تفاصيل دكة الاحتياط
Players Bench Detail



FUNDED BY :
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LEGEND:

FOR TENDER ONLY



SYM.	NAME
GRAPHIC SCALE 0 1 2 3 4	
NO DATE	ENC REVISIONS

CLIENT:
Beit Lahia municipality

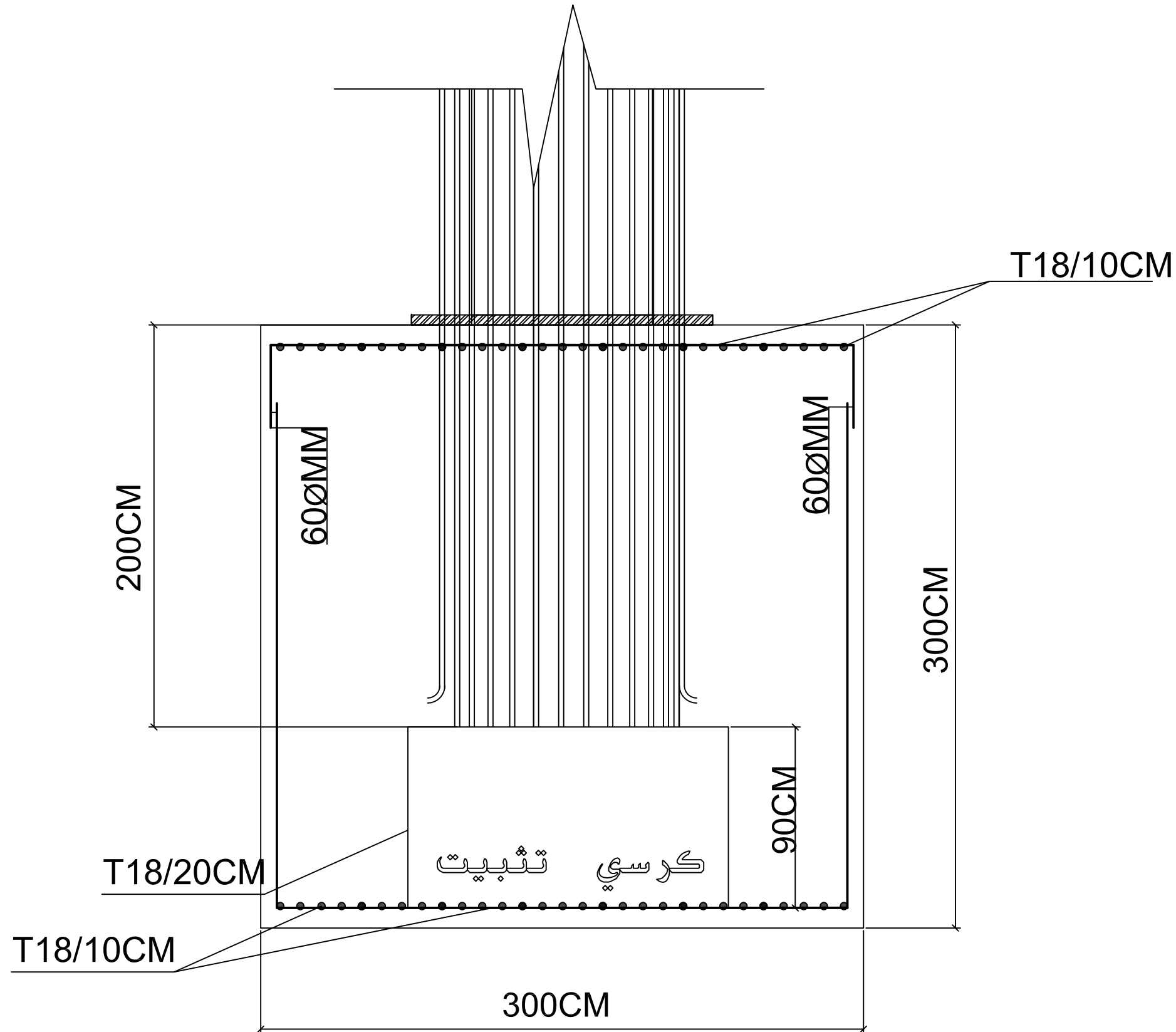
EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more than 150
affected houses for non-refugees and Rehabilitation and
Furniture for field playgrounds and a culture center.
Lot#12: Construction of the western grand stand in Beit
Lahia playground

DRAWING TITLE : *Players Bench Detail*

PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	C-9
DRAWN BY	DATE	SERIAL NO.



SECTION A-A



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LEGEND:

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SYM.		NAME	
GRAPHIC SCALE			
			
NO	DATE	ENG	REVISIONS

CLIENT:
Beit Lahia municipality

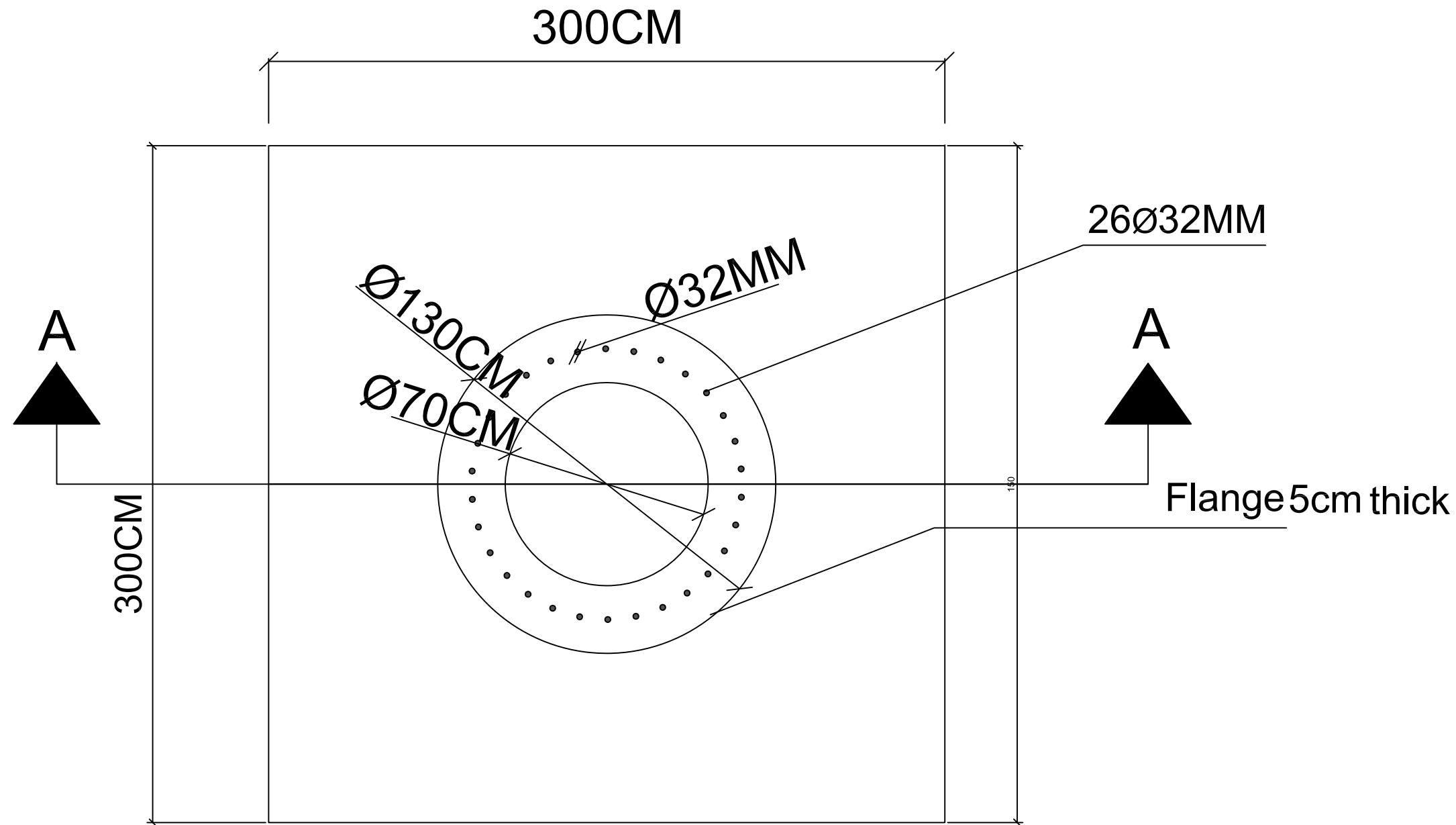
EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.
Lot#12: Construction of the western grand
stand in Beit Lahia playground

DRAWING TITLE : Pole Foundation Detail

PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	C-12
DRAWN BY	DATE	SERIAL NO.



قاعدة العمود في الباطون

تفصيلة اتصال بلاطة برج الانارة بقاعدة الباطون



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LEGEND:

FOR TENDER ONLY



SYM.	NAME
GRAPHIC SCALE 0 1 2 3 4	
NO	DATE
ENG	REVISIONS

CLIENT:

Beit Lahia municipality

EMPLOYER:

UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

CONSULTANT:

PROJECT TITLE:

Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.

Lot#12: Construction of the western grand
stand in Beit Lahia playground

DRAWING TITLE : Pole Foundation Detail

PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	C-13
DRAWN BY	DATE	SERIAL NO.

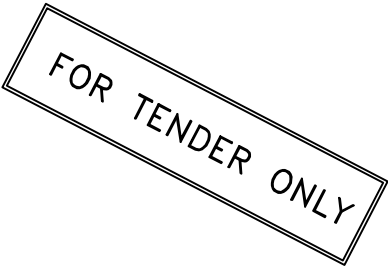
MECHANICAL




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THROUGH THE SAUDI FUND FOR
DEVELOPMENT (SFD)



LEGEND:



SYM.		NAME	
GRAPHIC SCALE			
NO	DATE	ENG	REVISIONS

CLIENT:
Beit Lahia municipality

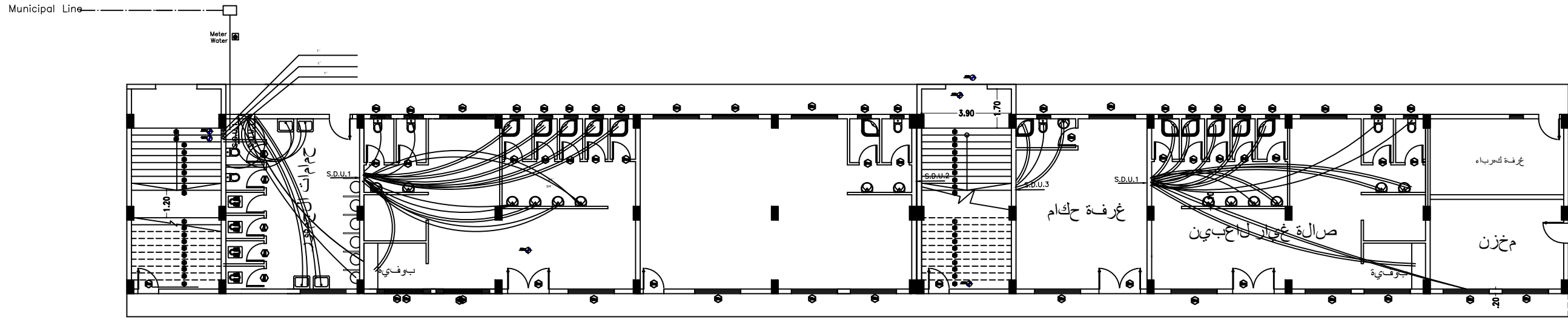
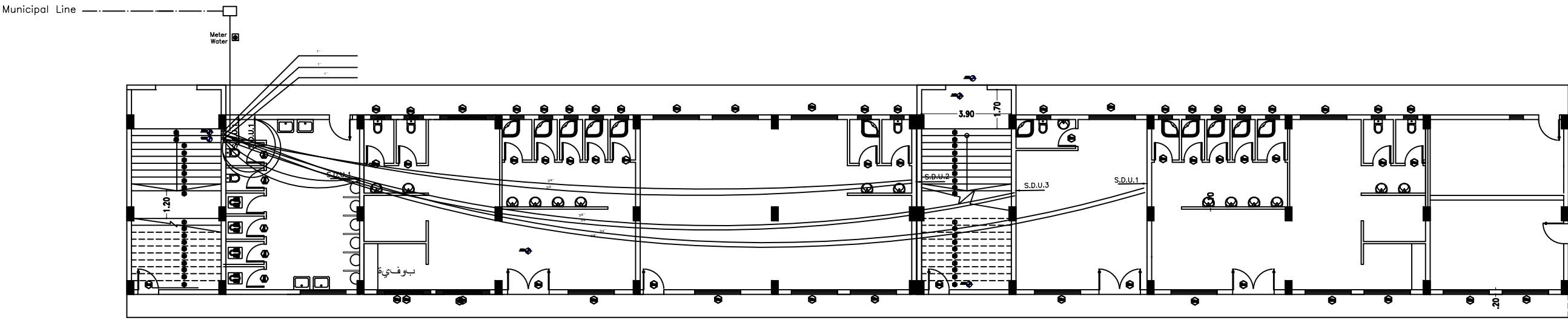
EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.

Lot#12: Construction of the western grand
stand in Beit Lahia playground

DRAWING TITLE :			
PREPARED BY	SCALE	DRAWING NO.	
CHECKED BY	APPROVED BY	Mech-00	
DRAWN BY	DATE	SERIAL NO.	




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THROUGH THE SAUDI FUND FOR
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LEGEND:

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SYM.		NAME	
GRAPHIC SCALE			
NO. DATE	ENG.	REVISIONS	

CLIENT:
Beit Lahia municipality

EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.

Lot#12: Construction of the western grand
stand in Beit Lahia playground

DRAWING TITLE :		
PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	Mech-01
DRAWN BY	DATE	SERIAL NO.

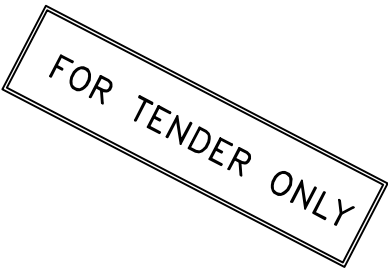
SHED WORKS




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LEGEND:



SYM.		NAME	
GRAPHIC SCALE			
NO	DATE	ENG	REVISIONS

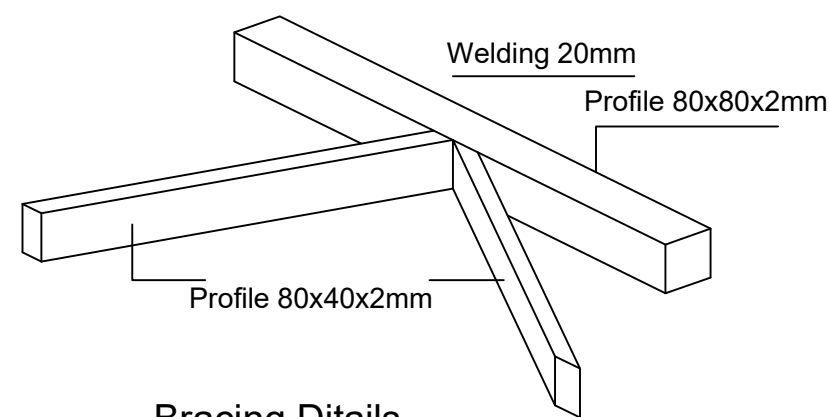
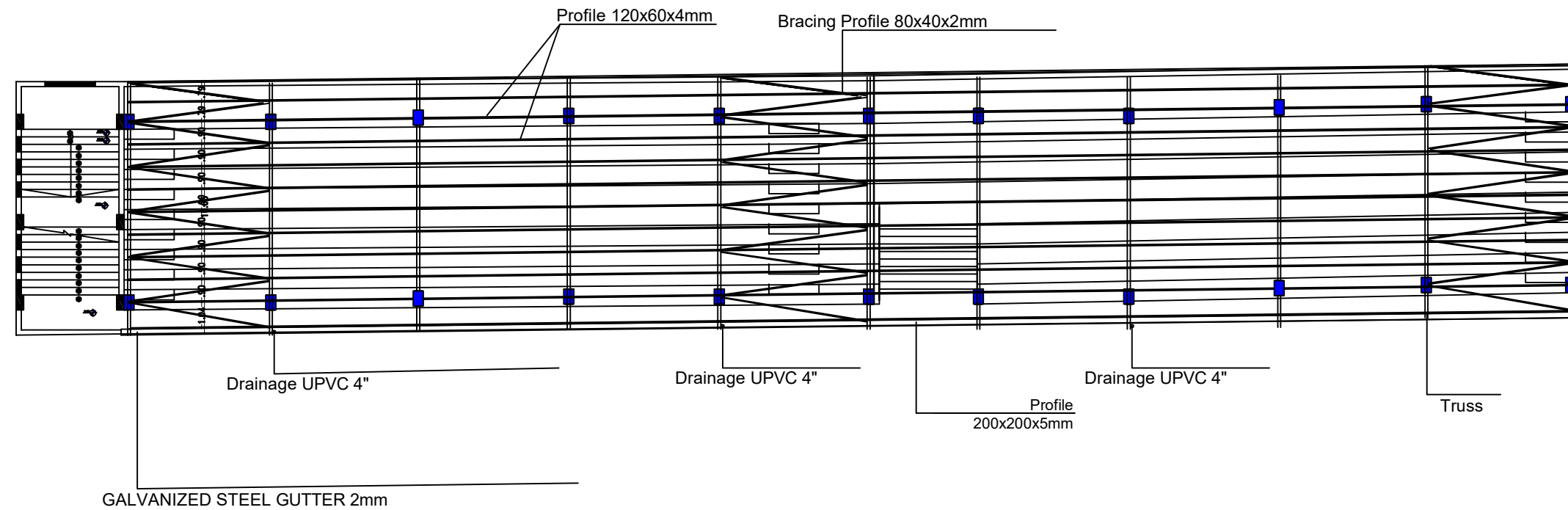
CLIENT:
Beit Lahia municipality

EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more than 150 effected houses for non-refugees and Rehabilitation and Furniture for field playgrounds and a culture center.
Lot#12: Construction of the western grand stand in Beit Lahia playground

DRAWING TITLE :			
PREPARED BY	SCALE	DRAWING NO.	
CHECKED BY	APPROVED BY	sh-00	
DRAWN BY	DATE	SERIAL NO.	



Bracing Ditails



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LEGEND:

FOR TENDER ONLY



SYM.	NAME
GRAPHIC SCALE 0 1 2 3 4	
NO	DATE
ENG	REVISIONS

CLIENT:
Beit Lahia municipality

EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

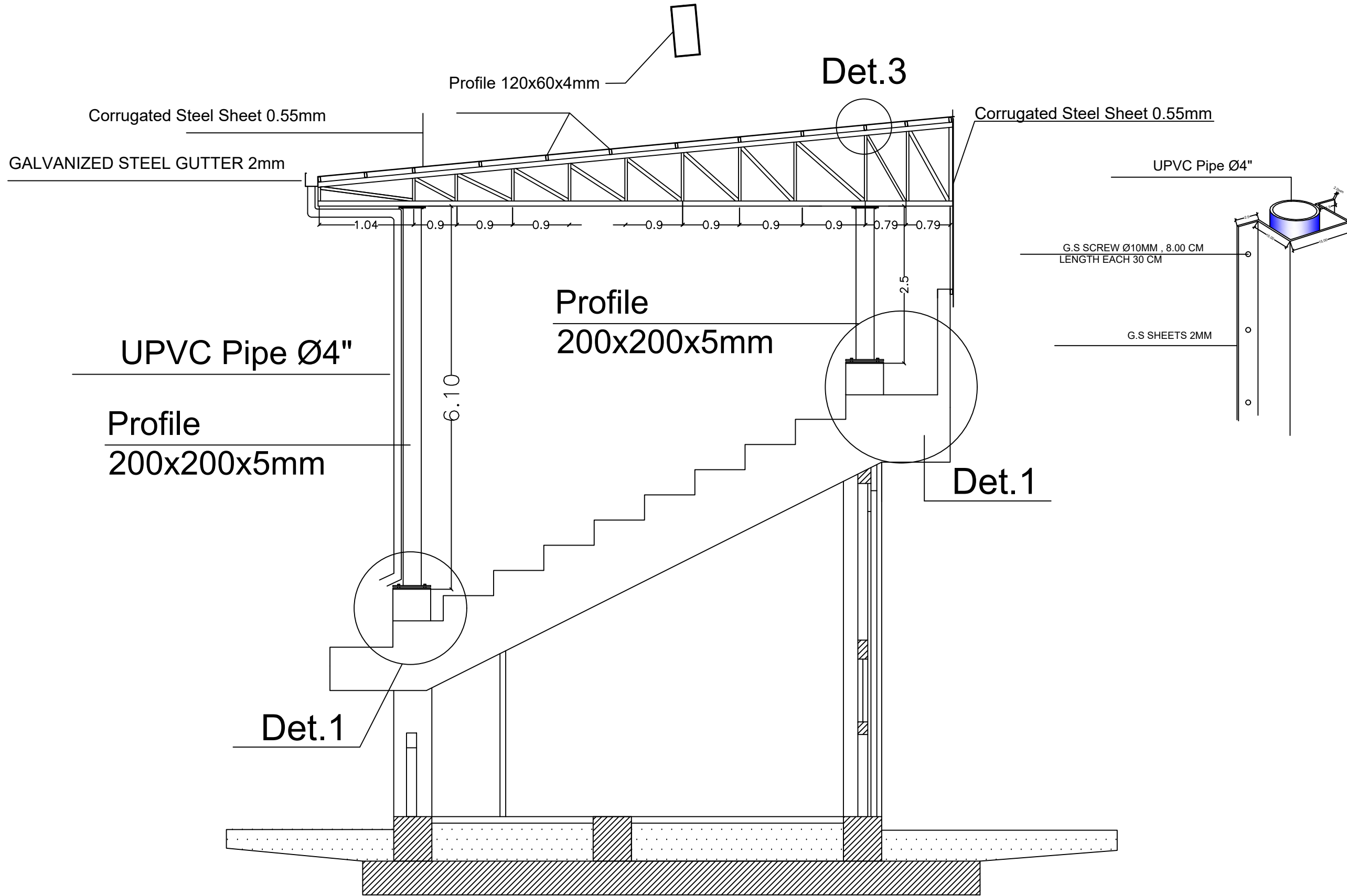
CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.

Lot#12: Construction of the western grand
stand in Beit Lahia playground

DRAWING TITLE :

PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	sh-01
DRAWN BY	DATE	SERIAL NO.




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LEGEND:

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SYM.		NAME	
GRAPHIC SCALE			
NO.	DATE	ENG.	REVISIONS

CLIENT:
Beit Lahia municipality

EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

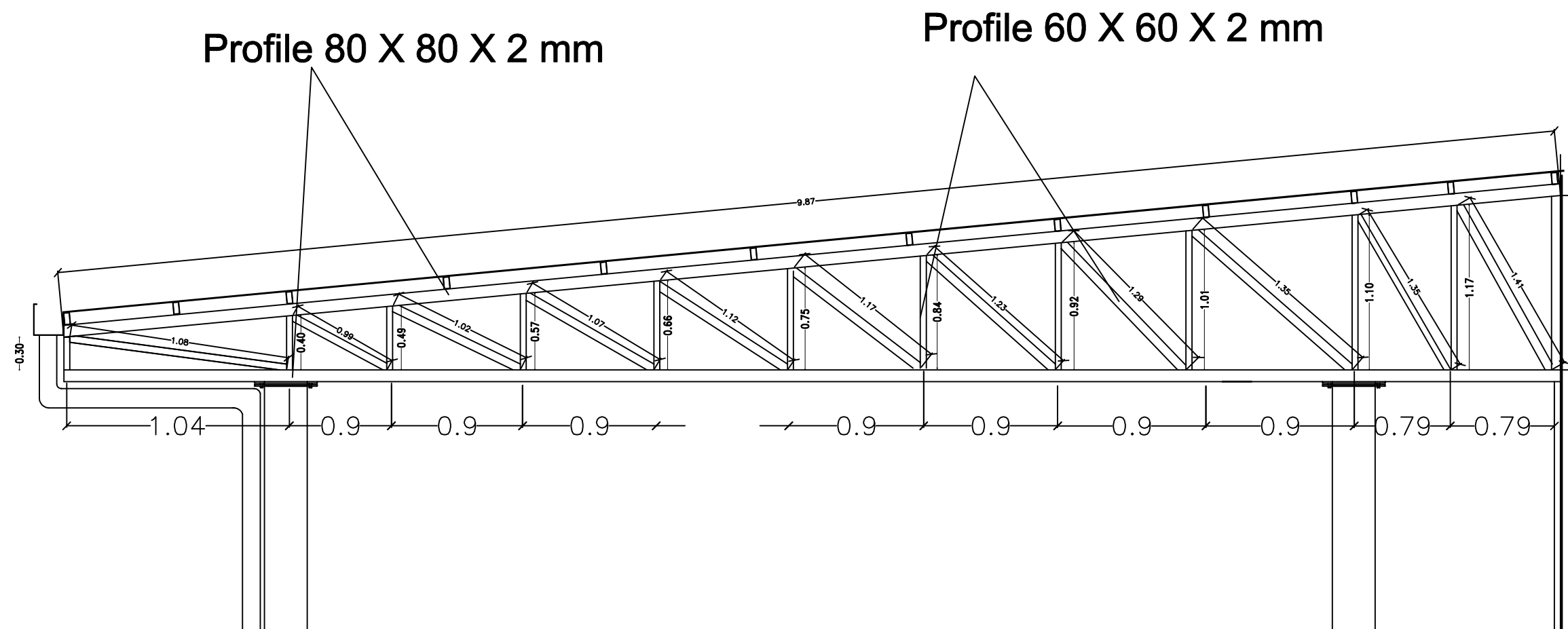
CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.

Lot#12: Construction of the western grand
stand in Beit Lahia playground

DRAWING TITLE :

PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	sh-02
DRAWN BY	DATE	SERIAL NO.




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DEVELOPMENT (SFD)



LEGEND:

FOR TENDER ONLY



SYM.		NAME	
GRAPHIC SCALE			
NO.	DATE	ENG.	REVISIONS

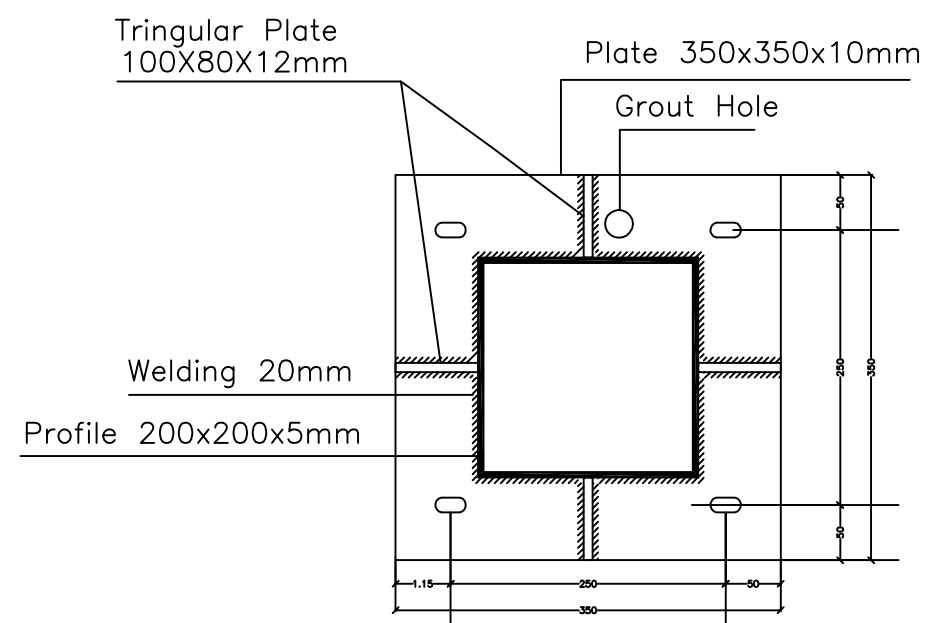
CLIENT:
Beit Lahia municipality

EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

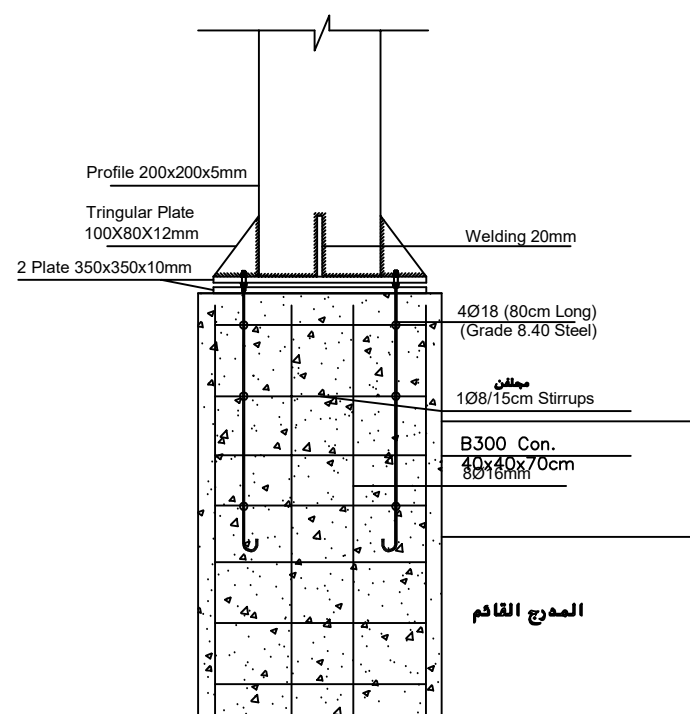
CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.
Lot#12: Construction of the western grand
stand in Al-Beit Lahia playground

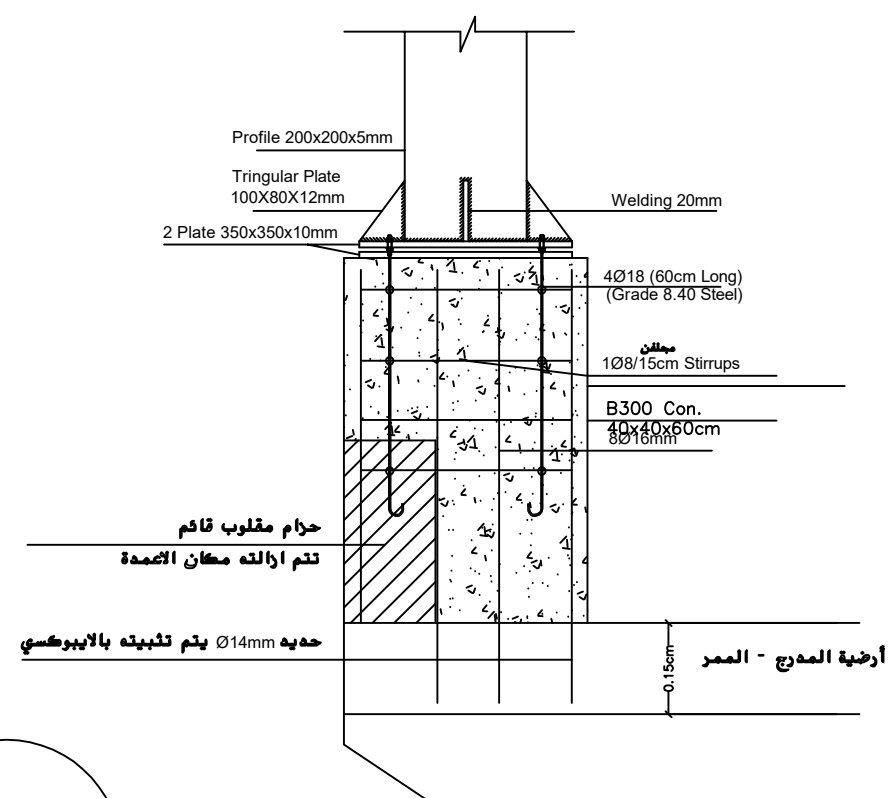
DRAWING TITLE :		
PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	sh-03
DRAWN BY	DATE	SERIAL NO.



Base Plate
24mm dia. holes



تفاصيل قواعد الاعمدة العلوية



تفاصيل قواعد الاعمدة الامامية

Det. 1



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THROUGH THE SAUDI FUND FOR
DEVELOPMENT (SFD)**



LEGEND:

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SYN.		NAME	
GRAPHIC SCALE			
NO. DATE	ENG.	REVISIONS	

CLIENT:

Beit Lahia municipality

EMPLOYER:

UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

CONSULTANT:

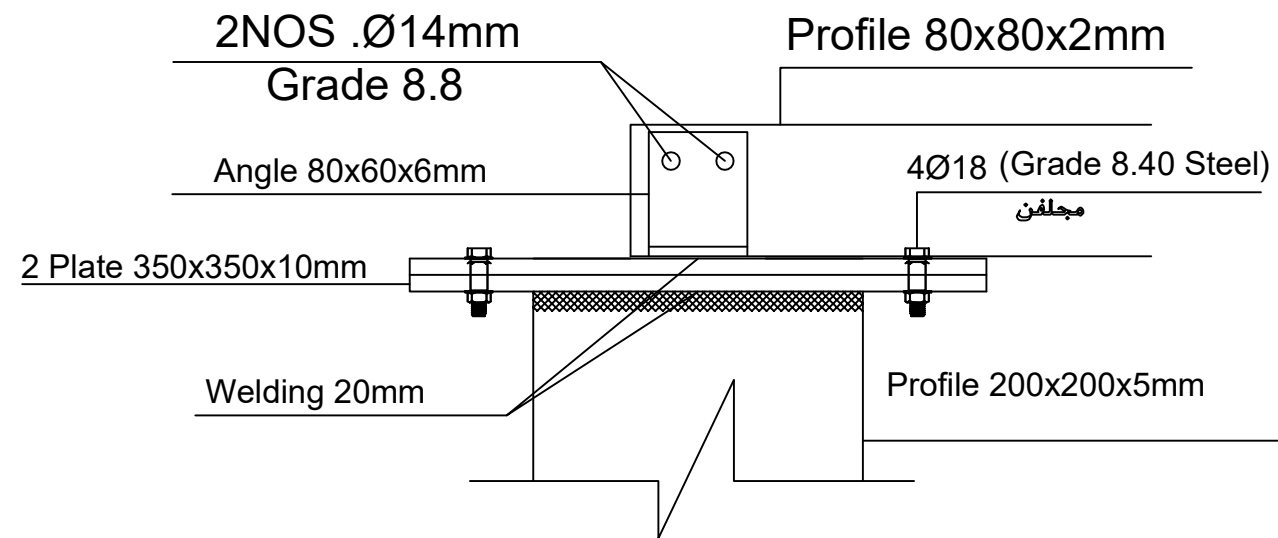
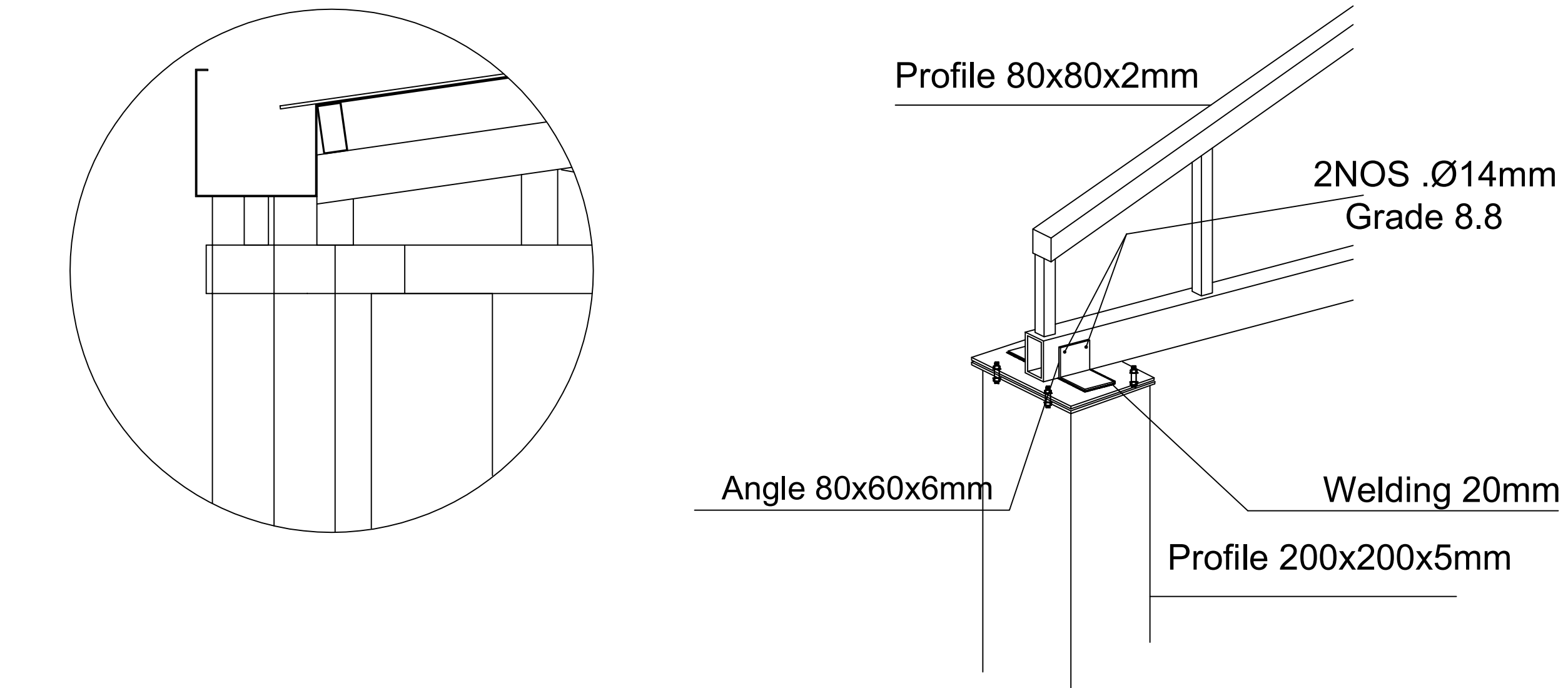
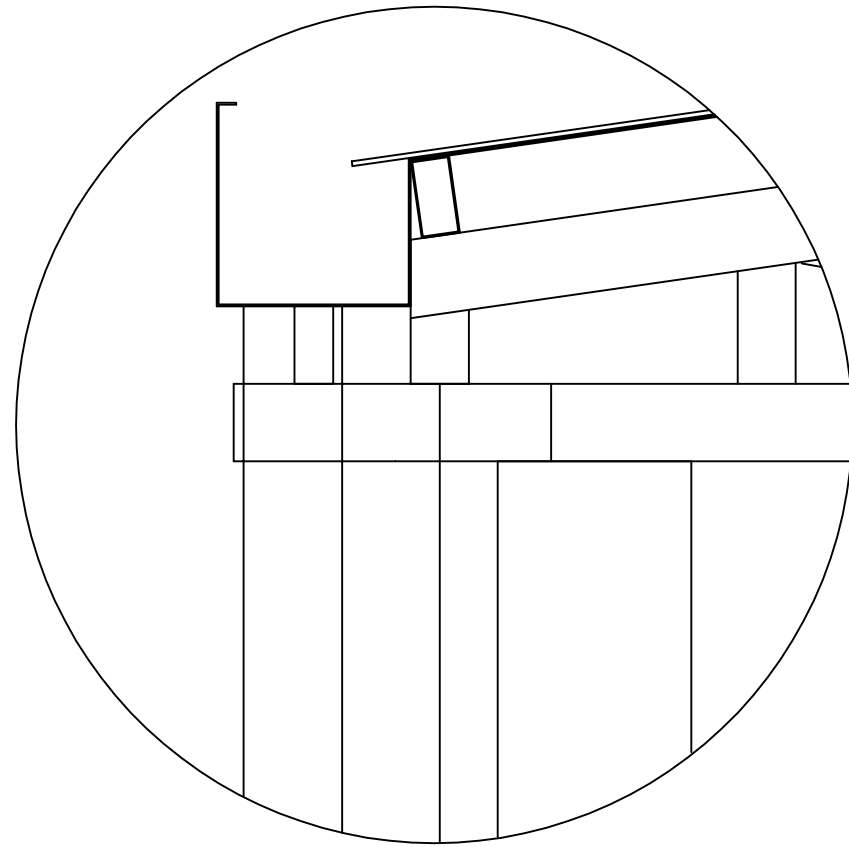
PROJECT TITLE:

Reconstruction and repair works of more than 150 effected houses for non-refugees and Rehabilitation and Furniture for field playgrounds and a culture center.

Lot#12: Construction of the western grand stand in Beit Lahia playground

DRAWING TITLE :

PREPARED BY	SCALE	DRAWING NO. sh-04
CHECKED BY	APPROVED BY	
DRAWN BY	DATE	SERIAL NO.



Det.2



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LEGEND:

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SYM.	NAME
GRAPHIC SCALE 0 1 2 3 4	
NO	DATE
ENG	REVISIONS

CLIENT:

Beit Lahia municipality

EMPLOYER:

UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

CONSULTANT:

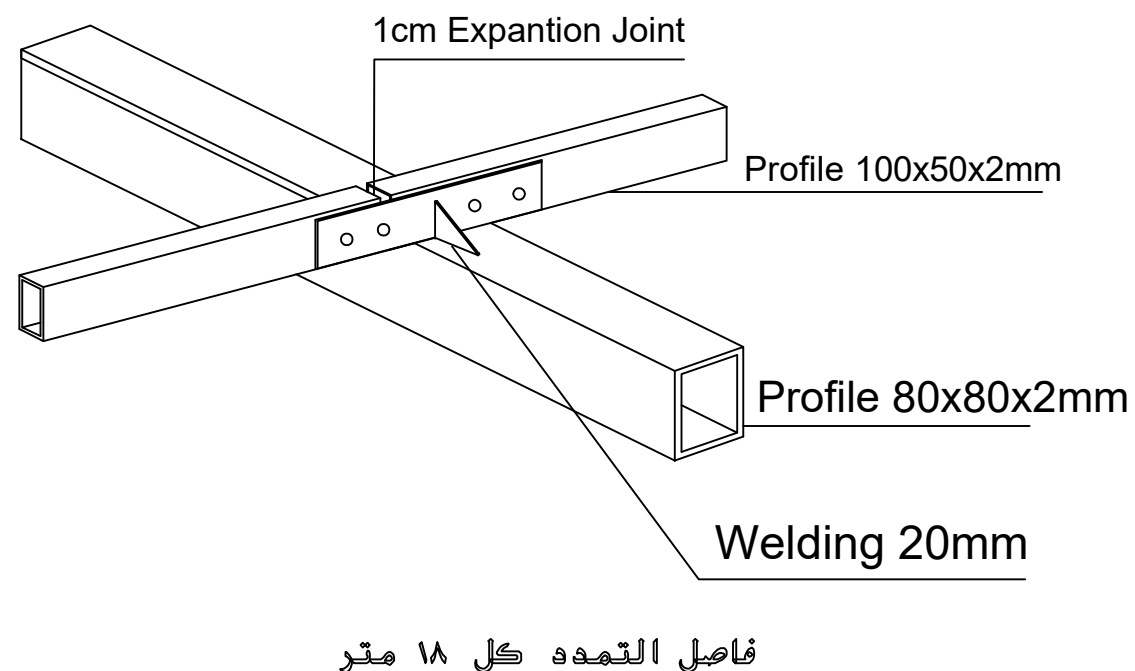
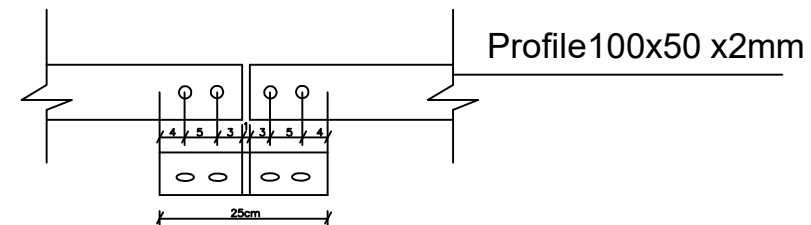
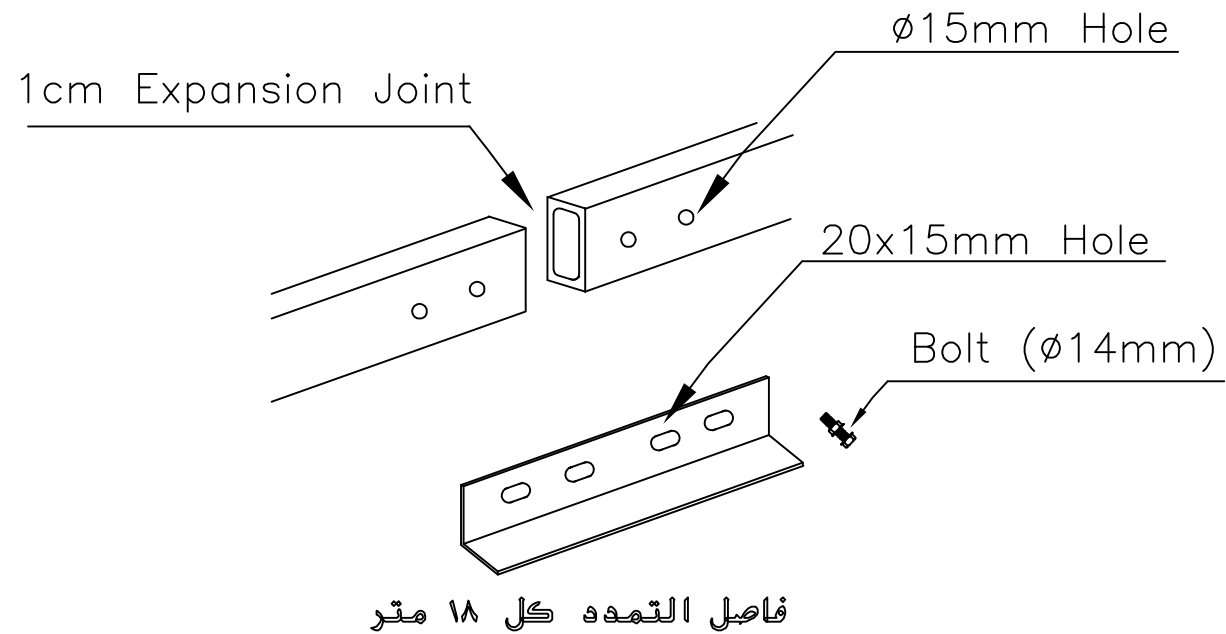
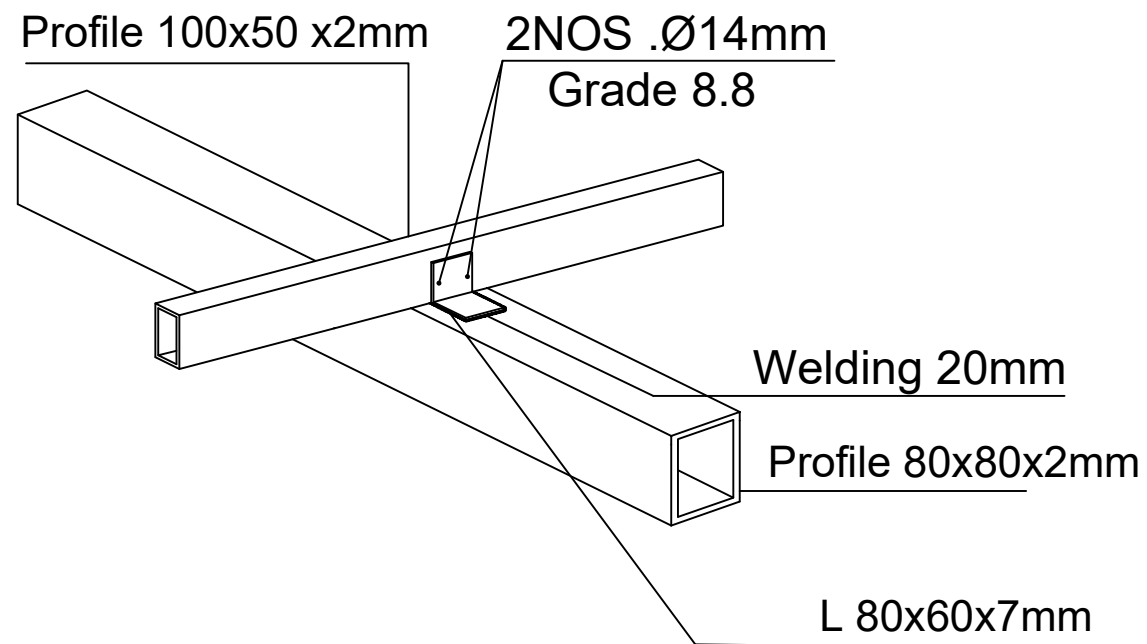
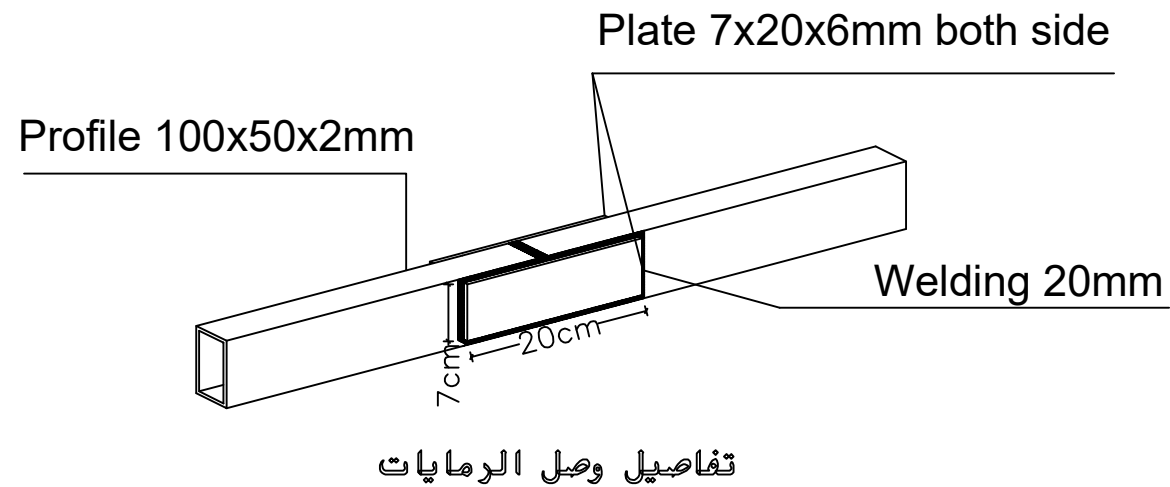
PROJECT TITLE:

Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.

Lot#12: Construction of the western grand
stand in Beit Lahia playground

DRAWING TITLE :

PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	sh-05
DRAWN BY	DATE	SERIAL NO.



FUNDED BY :

THE KINGDOM OF SAUDI ARABIA
THROUGH THE SAUDI FUND FOR
DEVELOPMENT (SFD)



LEGEND:

FOR TENDER ONLY



SYM.	NAME
GRAPHIC SCALE 0 1 2 3 4	
NO	DATE
ENG	REVISIONS

CLIENT:
Beit Lahia municipality

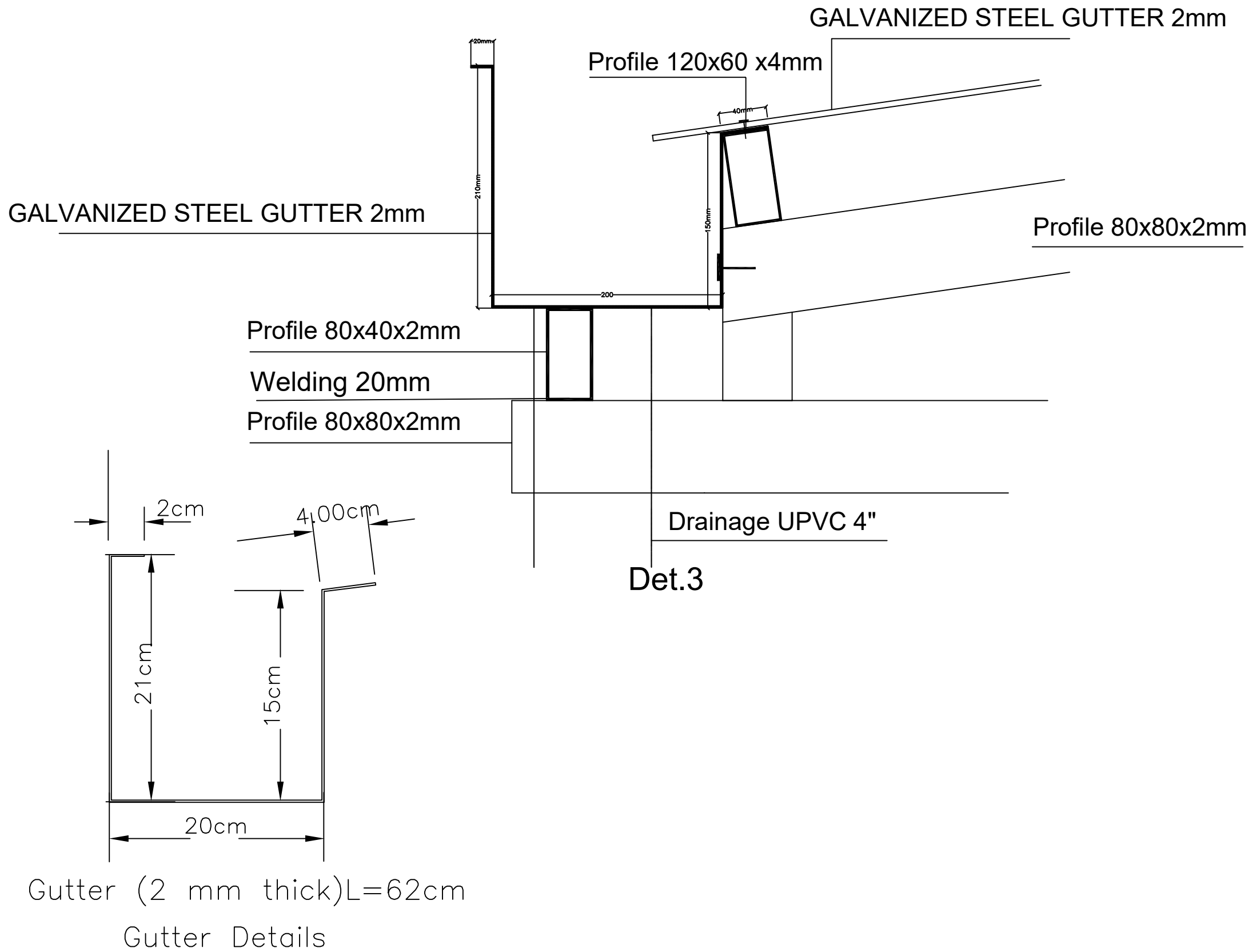
EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.

Lot#12: Construction of the western grand
stand in Beit Lahia playground

DRAWING TITLE :		
PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	sh-06
DRAWN BY	DATE	SERIAL NO.




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THE KINGDOM OF SAUDI ARABIA
THROUGH THE SAUDI FUND FOR
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LEGEND:

FOR TENDER ONLY



SYM.		NAME	
GRAPHIC SCALE			
NO	DATE	ENG	REVISIONS

CLIENT:
Beit Lahia municipality

EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.
Lot#12: Construction of the western grand
stand in Beit Lahia playground

DRAWING TITLE :			
PREPARED BY	SCALE	DRAWING NO.	
CHECKED BY	APPROVED BY	sh-07	
DRAWN BY	DATE	SERIAL NO.	

Electrical Drawings



FUNDED BY :

**THE KINGDOM OF SAUDI ARABIA
THROUGH THE SAUDI FUND FOR
DEVELOPMENT (SFD)**



LEGEND:

FOR TENDER ONLY



SYN		RAN	
GRAPHIC SCALE			
NO	DATE	ENG	REVISIONS

CLIENT:

Beit Lahia municipality

EMPLOYER:

UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

CONSULTANT:

PROJECT TITLE:

PROJECT FIVE:
Reconstruction and repair works of more than 150 effected houses for non-refugees and Rehabilitation and Furniture for field playgrounds and a culture center.

Lot#12: Construction of the western grand stand in Beit Lahia playground

DRAWING TITLE :

PREPARED BY	SCALE	DRAWING NO.
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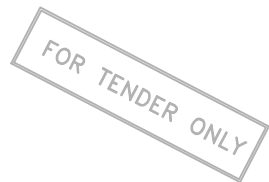
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E (01 - 8)	Electrical Symbols
E (02 - 8)	Electrical Site layout
E (03 - 8)	Earthing system
E (04 - 8)	lighting& Power and data system
E (05 - 8)	SINGLE LINE POWER DIAGRAM (S-MDB)
E (06 - 8)	SINGLE LINE POWER DIAGRAM (SDB1,SDB2)
E (07 - 8)	SHED LIGHTING SYSTEM



FUNDED BY :
THE KINGDOM OF SAUDI ARABIA
THROUGH THE SAUDI FUND FOR
DEVELOPMENT (SFD)



LEGEND:



REV.	DATE

CLIENT:

Belt Lahia municipality

EMPLOYER:

UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAP)

CONSULTANT:

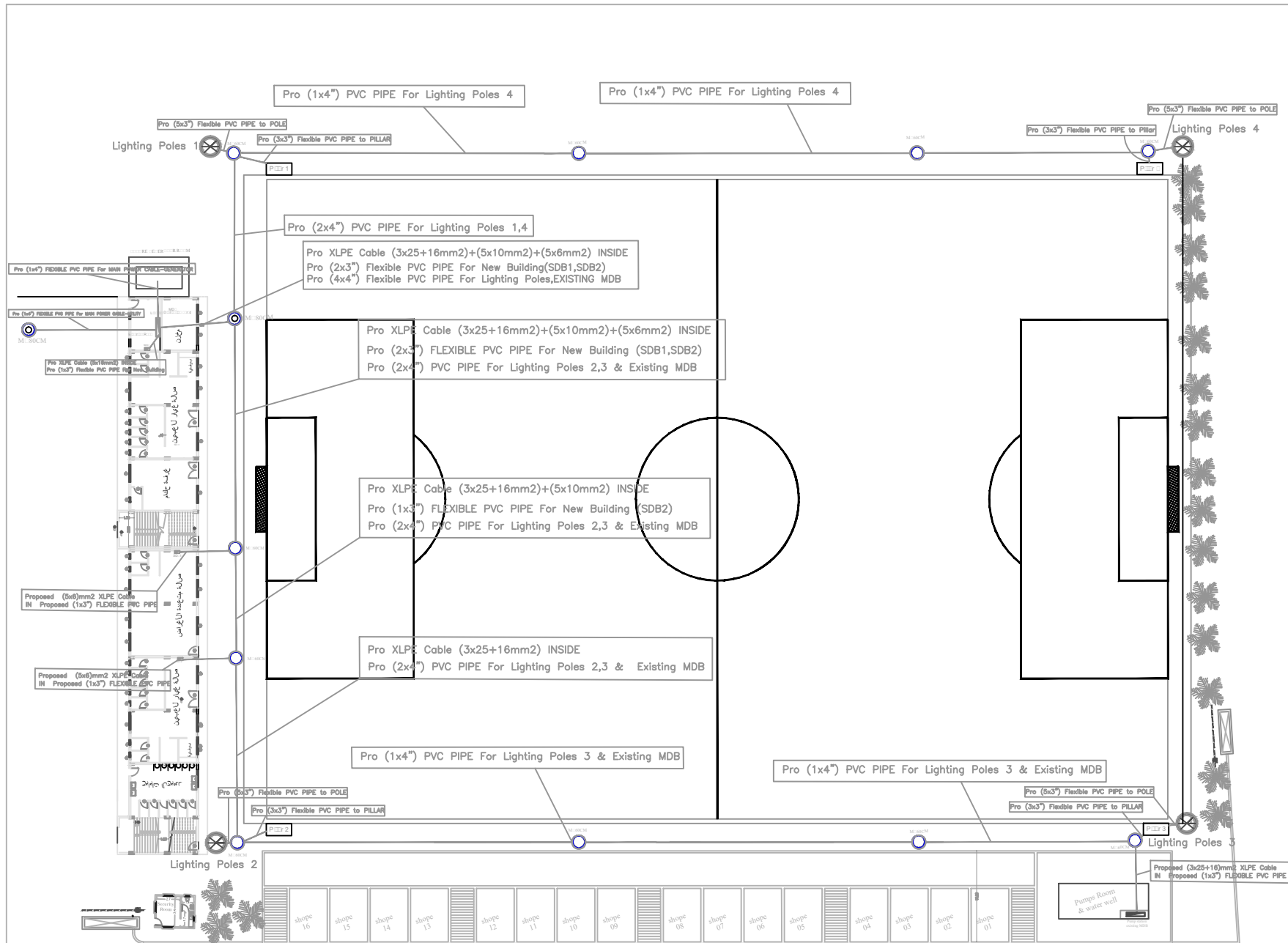
PROJECT TITLE:

Reconstruction and repair works of more than 150 effected houses for non-refugees and Rehabilitation and Furniture for field playgrounds and a culture center.

Lot#12: Construction of the western grand stand in Belt Lahia playground

DRAWING TITLE: Table of content

PREPARED BY	SCALE	DRAWING NO.
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DRAWN BY	DATE	SHEET NO.



Electrical Site layout



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THROUGH THE SAUDI FUND FOR
DEVELOPMENT (SFD)



LEGEND:

-  Manhole 60cm
-  Manhole 80cm
-  Lighting Pole

FOR TENDER ONLY



NO.	DATE	ENG.	REVISIONS

CLIENT:
 Belt Lahia municipality

EMPLOYER:
 UNITED NATIONS RELIEF AND WORKS AGENCY
 (UNRWA) THROUGH UNITED NATIONS
 DEVELOPMENT PROGRAMME (UNDP/PAP)

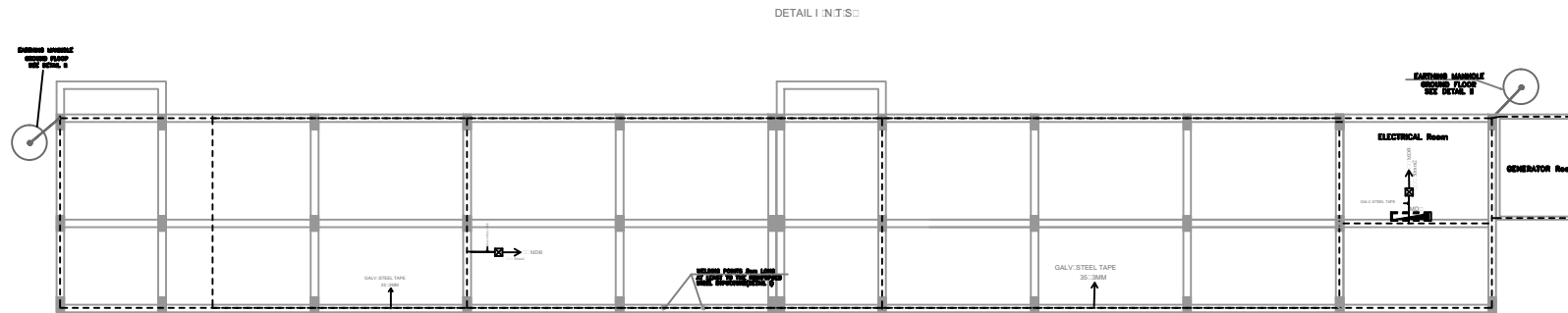
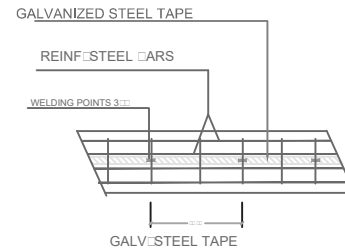
CONSULTANT:

PROJECT TITLE:
 Reconstruction and repair works of more
 than 150 effected houses for non-refugees
 and Rehabilitation and Furniture for field
 playgrounds and a culture center.

Lot#12: Construction of the western grand
 stand in Belt Lahia playground

DRAWING TITLE:
 Electrical Site layout

PREPARED BY	SCALE	DRAWING NO.
		E-02
CHECKED BY	APPROVED BY	REVISION NO.
DRAWN BY	DATE	



Earthling system

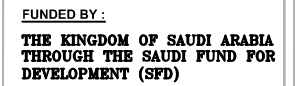


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PREPARED BY	SCALE	DRAWING NO.
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DRAWN BY	DATE	SERIAL NO.



CLIENT: Beit Lahia municipality

EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more than 150 effected houses for non-refugees and Rehabilitation and Furniture for field playgrounds and a culture center.

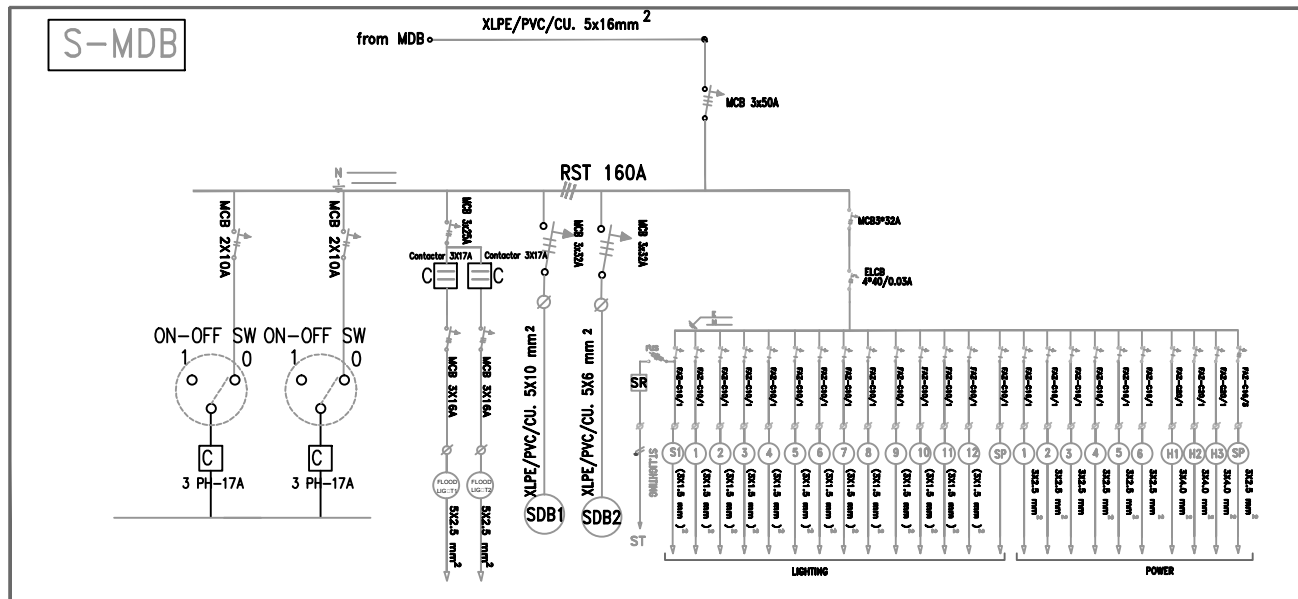
Lot#12: Construction of the western grand stand in Beit Lahia playground

DRAWING TITLE :

PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	E-04
DRAWN BY	DATE	SERIAL NO.



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PREPARED BY	SCALE	DRAWING NO. E-04
CHECKED BY	APPROVED BY	SERIAL NO.
DRAWN BY	DATE	



SINGLE LINE POWER DIAGRAM (S-MDB)

SINGLE LINE POWER DIAGRAM (S-MDB)



FUNDED BY:
THE KINGDOM OF SAUDI ARABIA
THROUGH THE SAUDI FUND FOR
DEVELOPMENT (SFD)



LEGEND:

FOR TENDER ONLY



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CLIENT:
Belt Lahia municipality

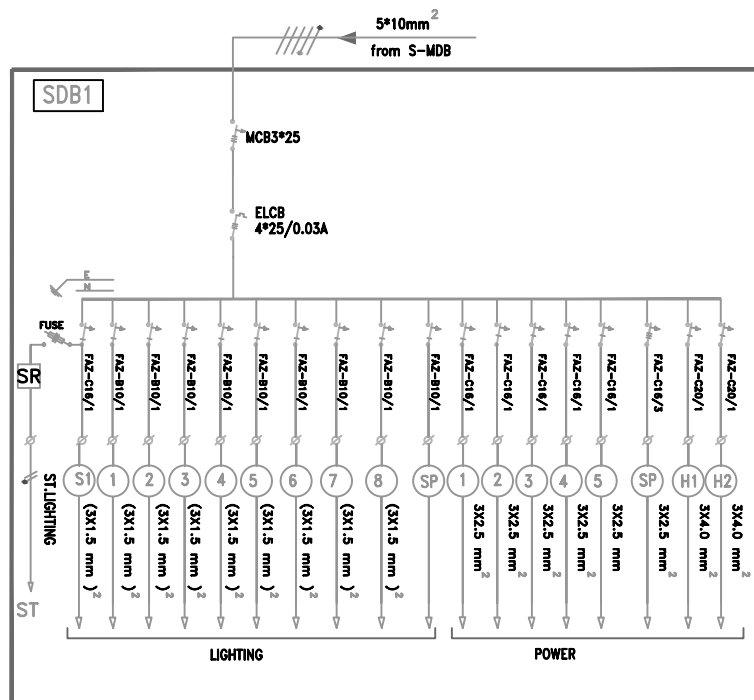
EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAP)

CONSULTANT:

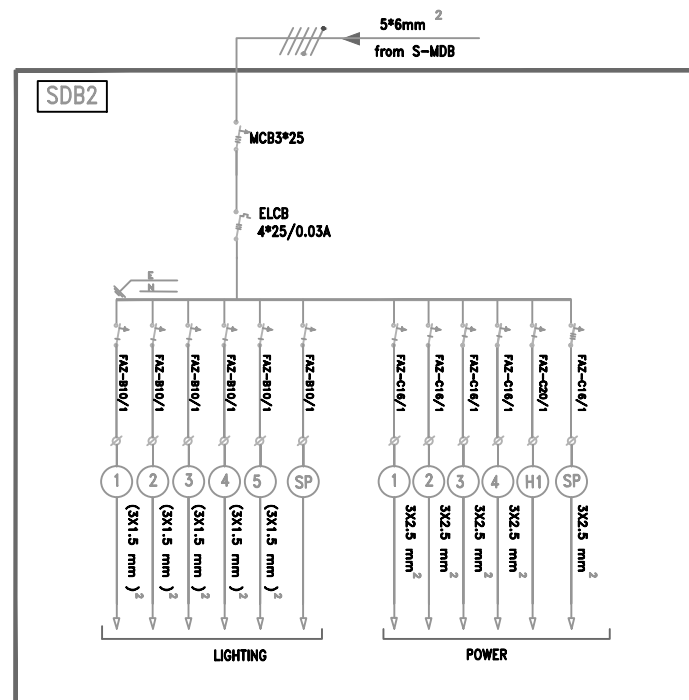
PROJECT TITLE:
Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.

Lot#12: Construction of the western grand
stand in Belt Lahia playground

DRAWING TITLE:	SCALE	DRAWING NO.
SINGLE LINE POWER DIAGRAM (S-MDB)	1:1	E-05
PREPARED BY	CHECKED BY	DRAWN BY
APPROVED BY	DATE	REVISIONS



SINGLE LINE POWER DIAGRAM
(SDB1)



SINGLE LINE POWER DIAGRAM
(SDB2)

SINGLE LINE POWER DIAGRAM (SDB1,SDB2)



FUNDED BY:
THE KINGDOM OF SAUDI ARABIA
THROUGH THE SAUDI FUND FOR
DEVELOPMENT (SFD)



LEGEND:

FOR TENDER ONLY



NO.	DATE	ENG	REVISIONS

CLIENT:
Belt Lahia municipality

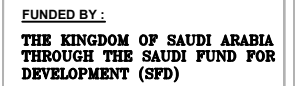
EMPLOYER:
UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAP)

CONSULTANT:

PROJECT TITLE:
Reconstruction and repair works of more
than 150 effected houses for non-refugees
and Rehabilitation and Furniture for field
playgrounds and a culture center.

Lot#12: Construction of the western grand
stand in Belt Lahia playground

DRAWING TITLE:	SCALE	DRAWING NO.
SINGLE LINE POWER DIAGRAM	SD-1 SD-2	E-06
PREPARED BY	CHECKED BY	DRAWN BY
DATE	DATE	DATE



SHED LIGHTING SYSTEM

CLIENT:

Beit Lahia municipality

EMPLOYER:

UNITED NATIONS RELIEF AND WORKS AGENCY
(UNRWA) THROUGH UNITED NATIONS
DEVELOPMENT PROGRAMME (UNDP/PAPP)

CONSULTANT:

PROJECT TITLE:

Reconstruction and repair works of more than 150 effected houses for non-refugees and Rehabilitation and Furniture for field playgrounds and a culture center.

Lot#12: Construction of the western grand stand in Belt Lahia playground

DRAWING TITLE :
SCHED LIGHTING SYSTEM

PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	E-07
DRAWN BY	DATE	SERIAL NO.