



# Sindh Madressatul Islam University

Development of SMIU Model School & University Academic Block at SMIU City Campus Karachi (Phase-I, Model School)

## Tender Drawings

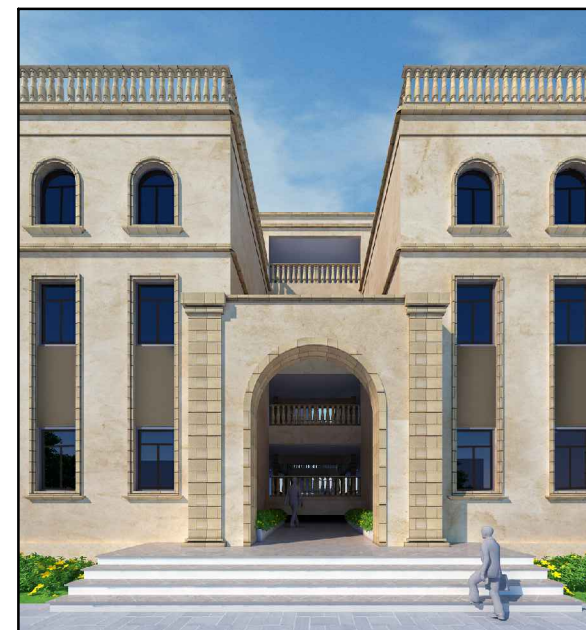


### EA Consulting Pvt Ltd

ARCHITECTURE | ENGINEERING | PROJECT MANAGEMENT  
PAKISTAN | UAE | CANADA

Head Office AL-9, 15<sup>th</sup> Lane, Khayban-e-Hilal, Phase-VII, DHA, Karachi-75500, Pakistan  
UAN +92 21 111 111 584 | Fax: +92 21 3584 1825 | info@eaworld.com | www.eaworld.com

# DEVELOPMENT OF SMIU CAMPUS KARACHI



**TENDER DRAWINGS**

Architecture

**MODEL SCHOOL City Campus**

July' 2018





Client :



Consultant :



**EA Consulting Pvt Ltd**

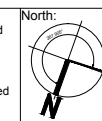
Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7,  
Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. : 111-111-584, Fax No. : 584-1825  
Email : info@eaworld.com | www.eaworld.com

Project :

**DEVELOPMENT OF  
SMIU CAMPUS  
KARACHI**

Key Plan :

- Note:
- All Dimensions to be confirmed on site with architect.
  - Do not scale.
  - Only written dimensions to be followed.
  - Any discrepancies to be clarified with the architect.
  - For structure details refer structure engineer drawings / details



No.	DATE	DESCRIPTION

No.	DATE	DESCRIPTION
1	25.05.2018	For Tender
0	03.05.2018	For Client Approval

<b>Date of Issue</b>	May 25, 2018
<b>Issued To</b>	Client
<b>Issued For</b>	Tender

**ARCHITECTURE**

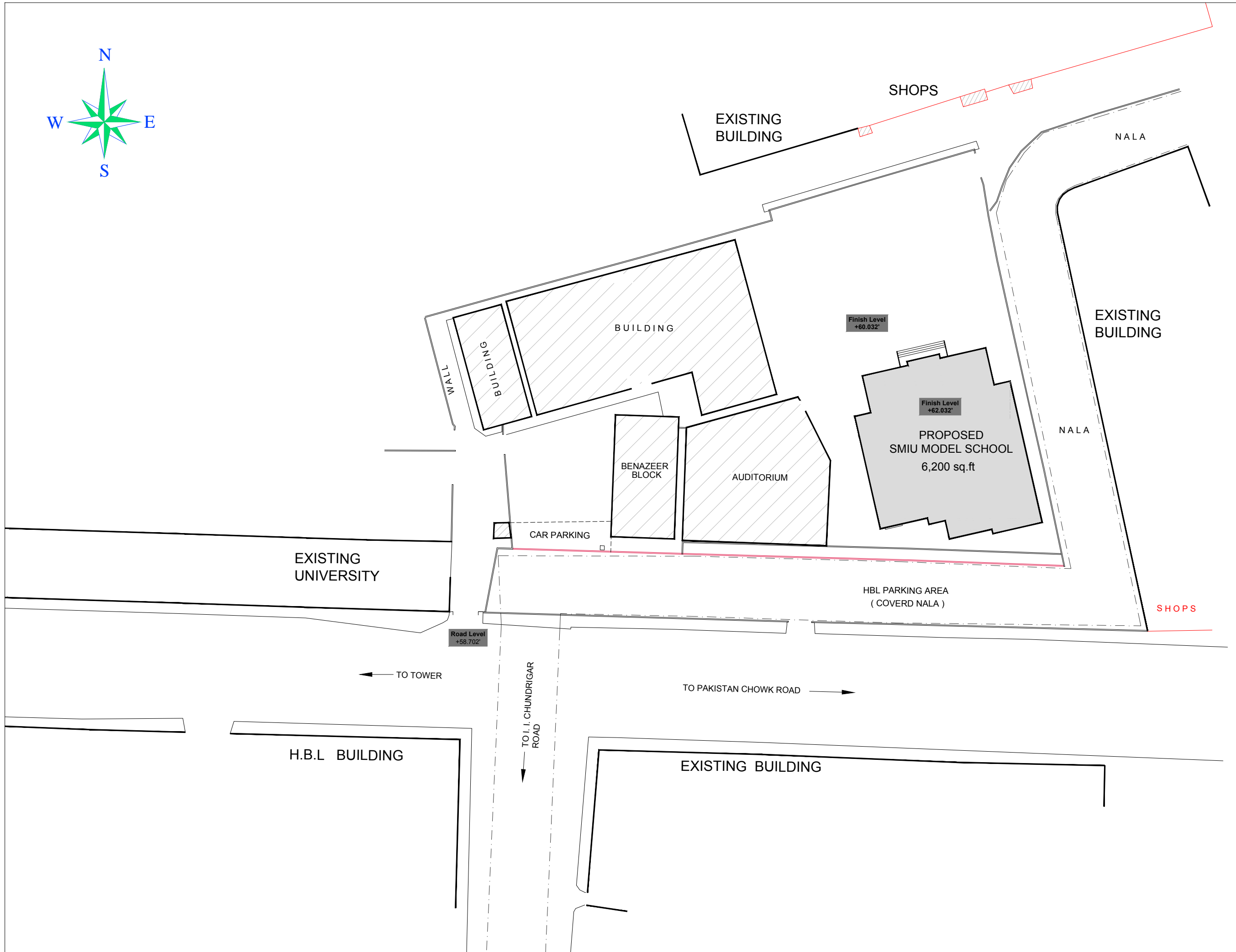
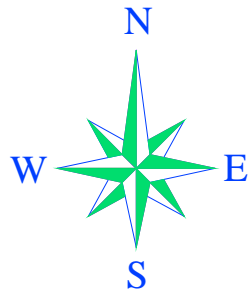
Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title :  
**3D VIEWS**

Designed :	Checked :	Approved :
FA	NIK	
Drawn :	Date :	Scale / Sheet :
MB	May 2018	3/32"=1'-0" @A3 3/16"=1'-0" @A1
Project Code :	00986	Rev. :

Drawing No. :  
**EA-00986-SMS- A0-0002**



Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7,  
 Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. : 111-111-584, Fax No. : 584-1825  
 Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF  
 SMIU CAMPUS  
 KARACHI**

Key Plan :

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1	25.05.2018	For Tender
0	03.05.2018	For Client Approval

Date of Issue : May 25, 2018  
 Issued To : Client  
 Issued For : Tender

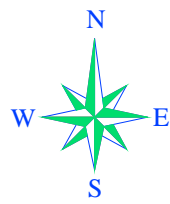
**ARCHITECTURE**

Status: **TENDER**

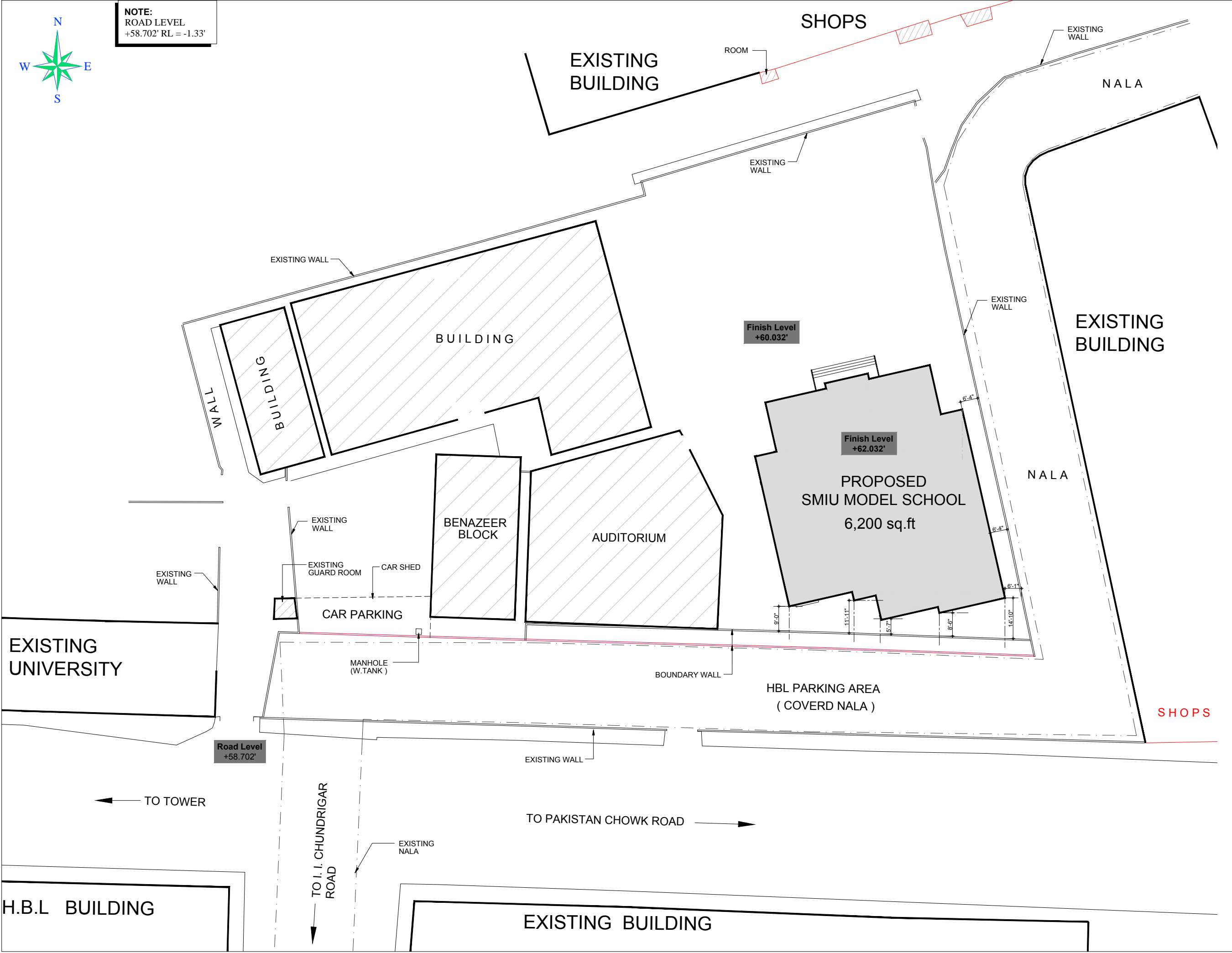
Building Name:  
**MODEL SCHOOL  
 CITY CAMPUS**

Drawing Title :  
**MASTER PLAN**

Designed : FA	Checked : NIK	Approved : KG
Drawn : MH	Date : May 2018	Scale / Sheet : 3/128" = 1'-0" @A3 3/64" = 1'-0" @A1
Project Code : 00986	Rev. :	
Drawing No. : EA-00986-SMS- A0-0003		



**NOTE:**  
ROAD LEVEL  
+58.702' RL = -1.33'



Client :  
Shah Wali Madressatul Islam University  
1885

Consultant :  
**EA Consulting Pvt Ltd**  
Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7,  
Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. : 111-111-584, Fax No. : 584-1825  
Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

- Note:
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  - Do not scale.
  - Only written dimensions to be followed.
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  - For structure details refer structure engineer drawings / details

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0	03.05.2018	For Client Approval

Date of Issue : May 25, 2018  
Issued To : Client  
Issued For : Tender

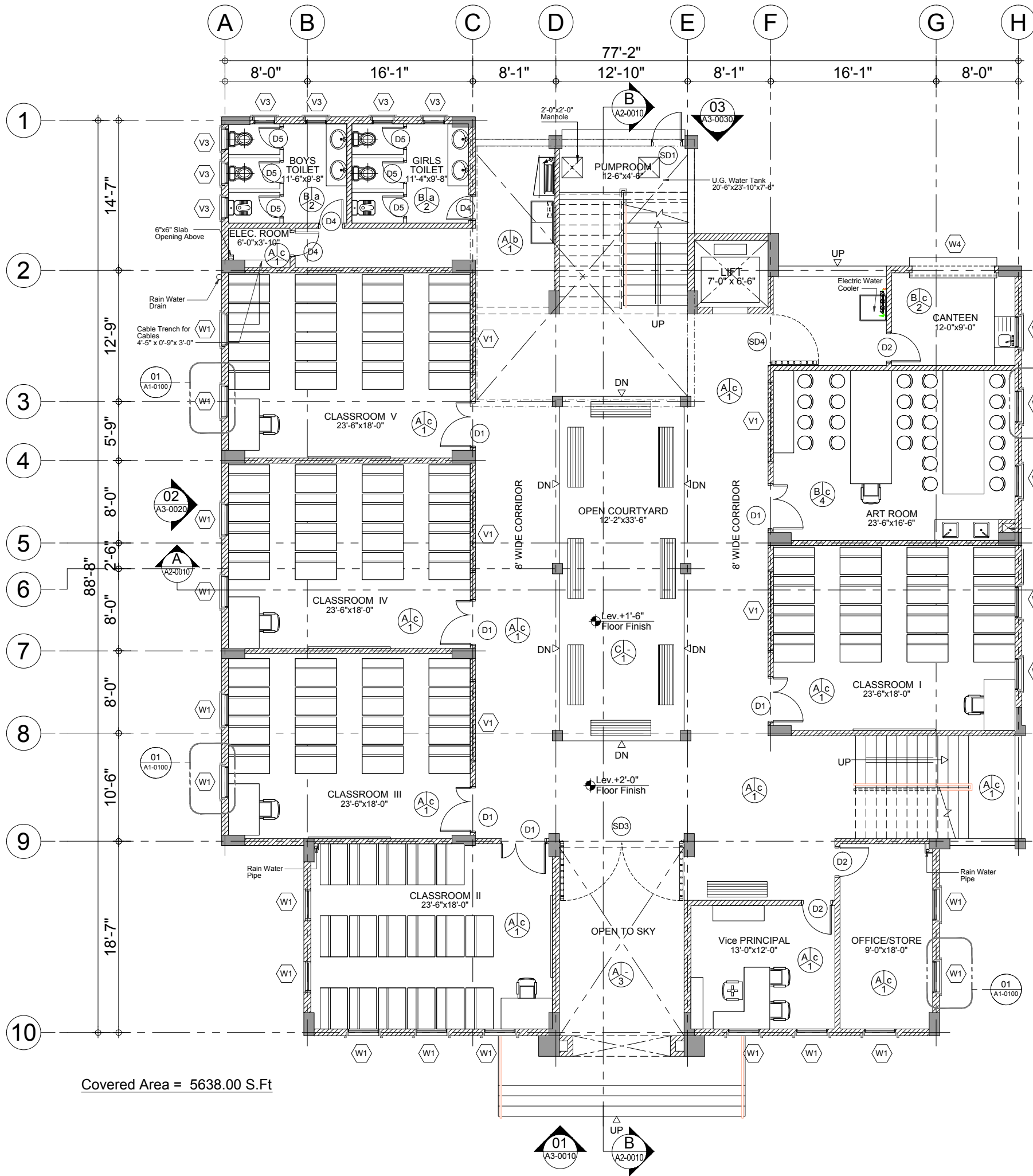
**ARCHITECTURE**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title :  
**SITE PLAN AND SETTING OUT PLAN**

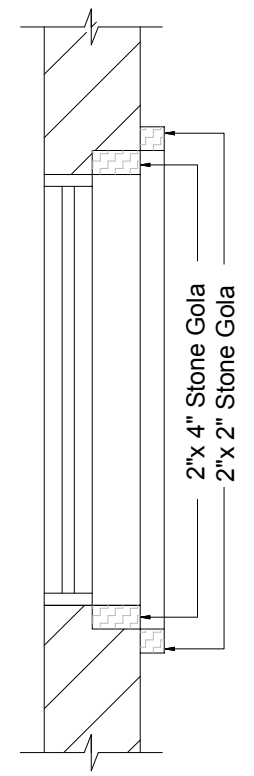
Designed : FA	Checked : NIK	Approved : KG
Drawn : MH	Date : May 2018	Scale / Sheet : 1/32" = 1'-0" @ A3
Project Code : 00986	Rev. :	1/16" = 1'-0" @ A1
Drawing No. : EA-00986-SMS- A0-0004		



Covered Area = 5638.00 S.Ft

**NOTE:**  
ROAD LEVEL  
+58.702' RL = -1.33'

FINISHES	
ABBREVIATION	
Flooring	Ceiling
Walls	
STRUCTURE	
RCC Framed Structure comprising of Columns, Beams & Slabs as per Structure Engineer details and specs. Structure to comply to relevant Earthquake Zone.	
EXTERNAL WALLS	
To be Non Load Bearing, 8" Outer Wall with 1/2" th. Plaster with Colour Crete Finish.	
INTERNAL WALLS	
To be 6" Non Load Bearing Solid Block Masonry Partition Wall as shown in drawing.	
WINDOWS	
Anodized Aluminum Windows as per detail, and windows schedule.	
DOORS	
- Formica pasted 1.5" th. Solid Core Shutter with 1.5"x1.5" Red Marinti Wood Beading	
- Grill Door of M.S. Square pipes with M.S. Solid bar frame Painted With Matt enamel paint Double Leaf Door.	
WALL FINISH	
1 - 1/2" th. Plaster on Block Work with 3 coats of Matt Enamel Paint upto false ceiling height and 4" high pre-polished marble skirting.	
2 - Upto 5/7" high porcelain tile (12" X12" X 3/8") dado in bathrooms/ pantry above 3 coats of matt enamel paint up to false ceiling.	
3 - Textured Paint on External Walls	
4 - 1/2" th. Plaster on Block Work with 3 coats of Matt Enamel Paint upto false ceiling height and 4" high half body porcelain skirting.	
CEILING	
a - 24" X24" X1/2" Mineral Fiber board tiles in metal suspension system with 3 coats of matt enamel paint as approved.	
b - 24" X24" X1/2" Plastic laminated gypsum board tiles in metal suspension system with 1/2" th. gypsum board border with 3 coats of matt enamel paint as approved.	
c - Oil Bond Destamper on ceiling over plaster.	
FLOORING	
A - 12" X12" X1/2" Thick Pre-Polished Marble (Botocina or Similar) on Floors where shown	
B - 12" X12" Full Body Porcelain Tiles Flooring of approved Colour/ Texture	
C - Coloured Concrete Tiles laid in pattern as per design.	
D - National Insulation Tiles laid in pattern as per design.	
ROOF INSULATION	
Heat Insulation Tiles to be used on the Roof.	
ROOF WATER PROOFING	
Water Proofing to roof to be a layer of 4mm thick modified bituminous membrane by Hygrip or similar approved.	
ROOF SCREED	
1:2:4 CC screed laid to falls minimum 50mm thick.	
HANDRAILS / BALUSTRADING	
- To be Stainless Steel 50mm pipe handrail and 19mm thick horizontal bars as per drawings.	



DETAIL - 01



Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. : 111-111-584, Fax No. : 584-1825  
 Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :  
 Note:  
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 • Do not scale.  
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 • Any discrepancies to be clarified with the architect.  
 • For structure details refer, structure engineer drawings / details

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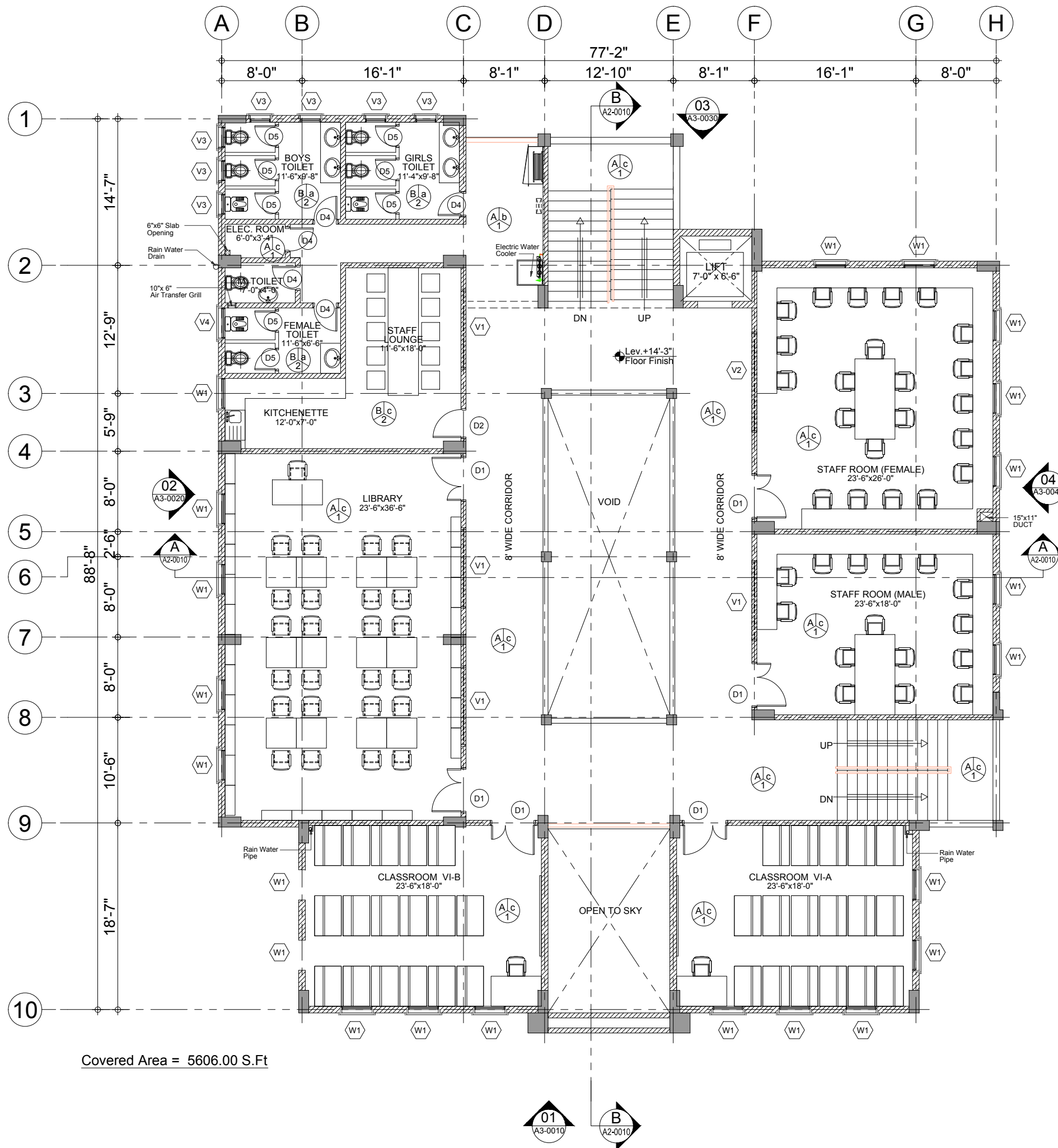
REVISIONS

Date of Issue	May 25, 2018
Issued To	Client
Issued For	Tender

**ARCHITECTURE**  
 Status: **TENDER**  
 Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title : **GROUND FLOOR PLAN**

Designed :	Checked :	Approved :
FA	NIK	KG
Drawn :	Date :	Scale / Sheet :
MB	May 2018	3/32"=1'-0" @A3
Project Code :	Rev. :	
	00986	
Drawing No. :	EA-00986-SMS- A1-0100	



Covered Area = 5606.00 S.Ft

FINISHES	
ABBREVIATION	
Flooring	Ceiling
Walls	
STRUCTURE	
RCC Framed Structure comprising of Columns, Beams & Slabs as per Structure Engineer details and specs. Structure to comply to relevant Earthquake Zone.	
EXTERNAL WALLS	
To be Non Load Bearing, 8" Outer Wall with 1/2" th. Plaster with Colour Crete Finish.	
INTERNAL WALLS	
To be 6" Non Load Bearing Solid Block Masonry Partition Wall as shown in drawing.	
WINDOWS	
Anodized Aluminum Windows as per detail, and windows schedule.	
DOORS	
- Formica pasted 1.5" th. Solid Core Shutter with 1.5"x1.5" Red Marinti Wood Beading	
- Grill Door of M.S. Square pipes with M.S. Solid bar frame Painted With Matt enamel paint Double Leaf Door.	
WALL FINISH	
1 - 1/2" th. Plaster on Block Work with 3 coats of Matt Enamel Paint upto false ceiling height and 4" high pre-polished marble skirting.	
2 - Upto 5/7" high porcelain tile (12" X12" X 3/8") dado in bathrooms/ pantry above 3 coats of matt enamel paint up to false ceiling.	
3 - Textured Paint on External Walls	
4 - 1/2" th. Plaster on Block Work with 3 coats of Matt Enamel Paint upto false ceiling height and 4" high half body porcelain skirting.	
CEILING	
a - 24" X24" X1/2" Mineral Fiber board tiles in metal suspension system with 3 coats of matt enamel paint as approved.	
b - 24" X24" X1/2" Plastic laminated gypsum board tiles in metal suspension system with 1/2" th. gypsum board border with 3 coats of matt enamel paint as approved.	
c - Oil Bond Destamper on ceiling over plaster.	
FLOORING	
A - 12" X12" X1/2" Thick Pre-Polished Marble (Botocina or Similar) on Floors where shown	
B - 12" X12" Full Body Porcelain Tiles Flooring of approved Colour/ Texture	
C - Coloured Concrete Tiles laid in pattern as per design.	
D - National Insulation Tiles laid in pattern as per design.	
ROOF INSULATION	
Heat Insulation Tiles to be used on the Roof.	
ROOF WATER PROOFING	
Water Proofing to roof to be a layer of 4mm thick modified bituminous membrane by Hygrip or similar approved.	
ROOF SCREED	
1:2:4 CC screed laid to falls minimum 50mm thick.	
HANDRAILS / BALUSTRADING	
- To be Stainless Steel 50mm pipe handrail and 19mm thick horizontal bars as per drawings.	



Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. : 111-111-584, Fax No. : 584-1825  
 Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :  
 North:

- Note:
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  - For structure details refer, structure engineer drawings / details

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0	03.05.2018	For Client Approval

REVISIONS  
 Date of Issue : May 25, 2018  
 Issued To : Client  
 Issued For : Tender

**ARCHITECTURE**

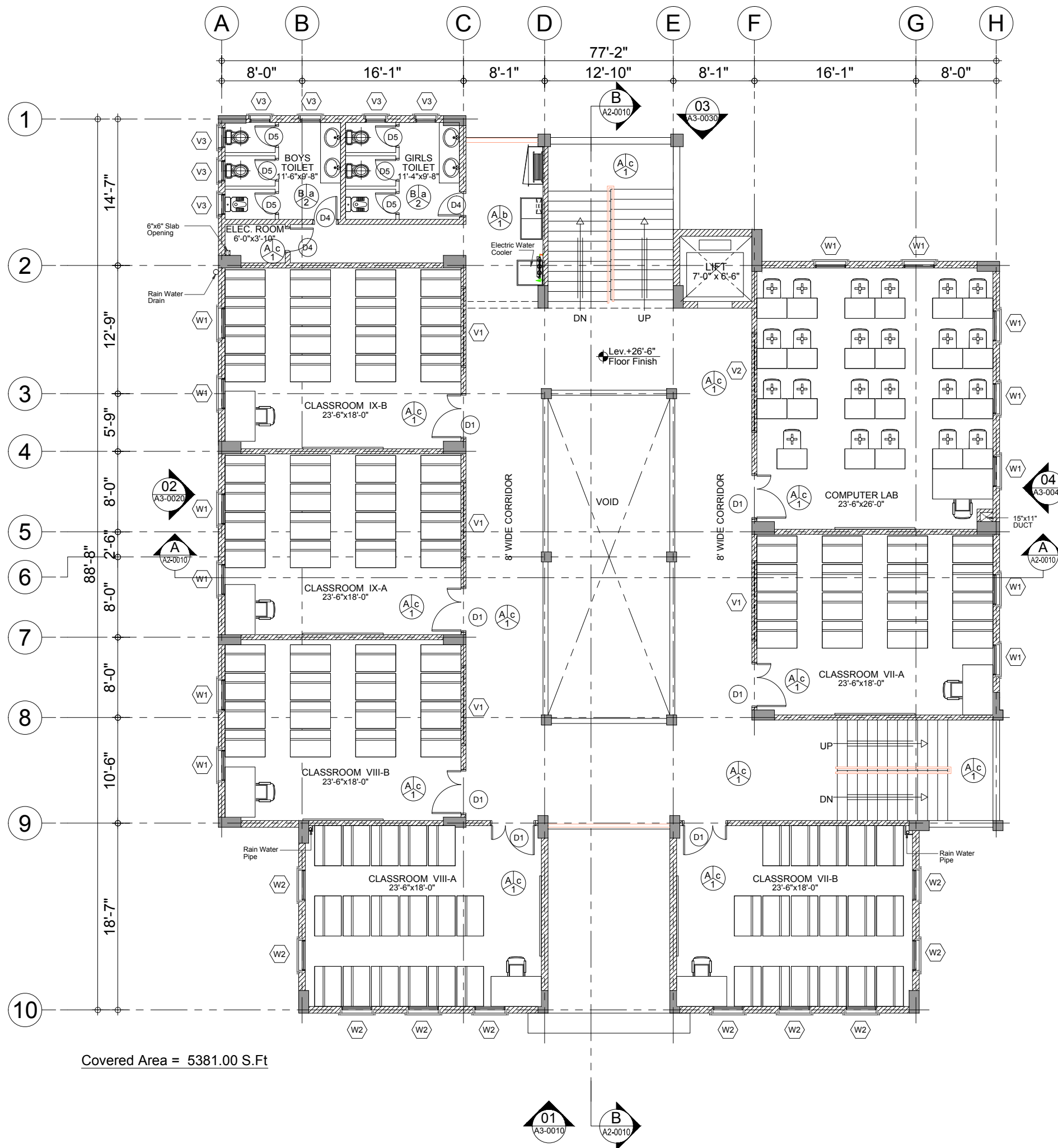
Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title:  
**FIRST FLOOR PLAN**

Designed : FA	Checked : NIK	Approved : KG
Drawn : MB	Date : May 2018	Scale / Sheet : 3/32" = 1'-0" @ A3
Project Code : 00986	Rev. :	
Drawing No. : EA-00986-SMS- A1-0200		





Covered Area = 5381.00 S.Ft

FINISHES	
ABBREVIATION	
Flooring	Ceiling
STRUCTURE	
RCC Framed Structure comprising of Columns, Beams & Slabs as per Structure Engineer details and specs. Structure to comply to relevant Earthquake Zone.	
EXTERNAL WALLS	
To be Non Load Bearing, 8" Outer Wall with 1/2" th. Plaster with Colour Crete Finish.	
INTERNAL WALLS	
To be 6" Non Load Bearing Solid Block Masonry Partition Wall as shown in drawing.	
WINDOWS	
Anodized Aluminum Windows as per detail, and windows schedule.	
DOORS	
- Formica pasted 1.5" th. Solid Core Shutter with 1.5"x1.5" Red Marinti Wood Beading	
- Grill Door of M.S. Square pipes with M.S. Solid bar frame Painted With Matt enamel paint Double Leaf Door.	
WALL FINISH	
1 - 1/2" th. Plaster on Block Work with 3 coats of Matt Enamel Paint upto false ceiling height and 4" high pre-polished marble skirting.	
2 - Upto 5/7" high porcelain tile (12" X12" X 3/8") dado in bathrooms/ pantry above 3 coats of matt enamel paint up to false ceiling.	
3 - Textured Paint on External Walls	
4 - 1/2" th. Plaster on Block Work with 3 coats of Matt Enamel Paint upto false ceiling height and 4" high half body porcelain skirting.	
CEILING	
a - 24" X24" X 1/2" Mineral Fiber board tiles in metal suspension system with 3 coats of matt enamel paint as approved.	
b - 24" X24" X 1/2" Plastic laminated gypsum board tiles in metal suspension system with 1/2" th. gypsum board border with 3 coats of matt enamel paint as approved.	
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FLOORING	
A - 12" X12" X 1/2" Thick Pre-Polished Marble (Botocina or Similar) on Floors where shown	
B - 12" X12" Full Body Porcelain Tiles Flooring of approved Colour/ Texture	
C - Coloured Concrete Tiles laid in pattern as per design.	
D - National Insulation Tiles laid in pattern as per design.	
ROOF INSULATION	
Heat Insulation Tiles to be used on the Roof.	
ROOF WATER PROOFING	
Water Proofing to roof to be a layer of 4mm thick modified bituminous membrane by Hygrip or similar approved.	
ROOF SCREED	
1:2:4 CC screed laid to falls minimum 50mm thick.	
HANDRAILS / BALUSTRADING	
- To be Stainless Steel 50mm pipe handrail and 19mm thick horizontal bars as per drawings.	



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 Consultant :  
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 Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF SMU CAMPUS KARACHI**

Key Plan :  
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Issued For	Tender

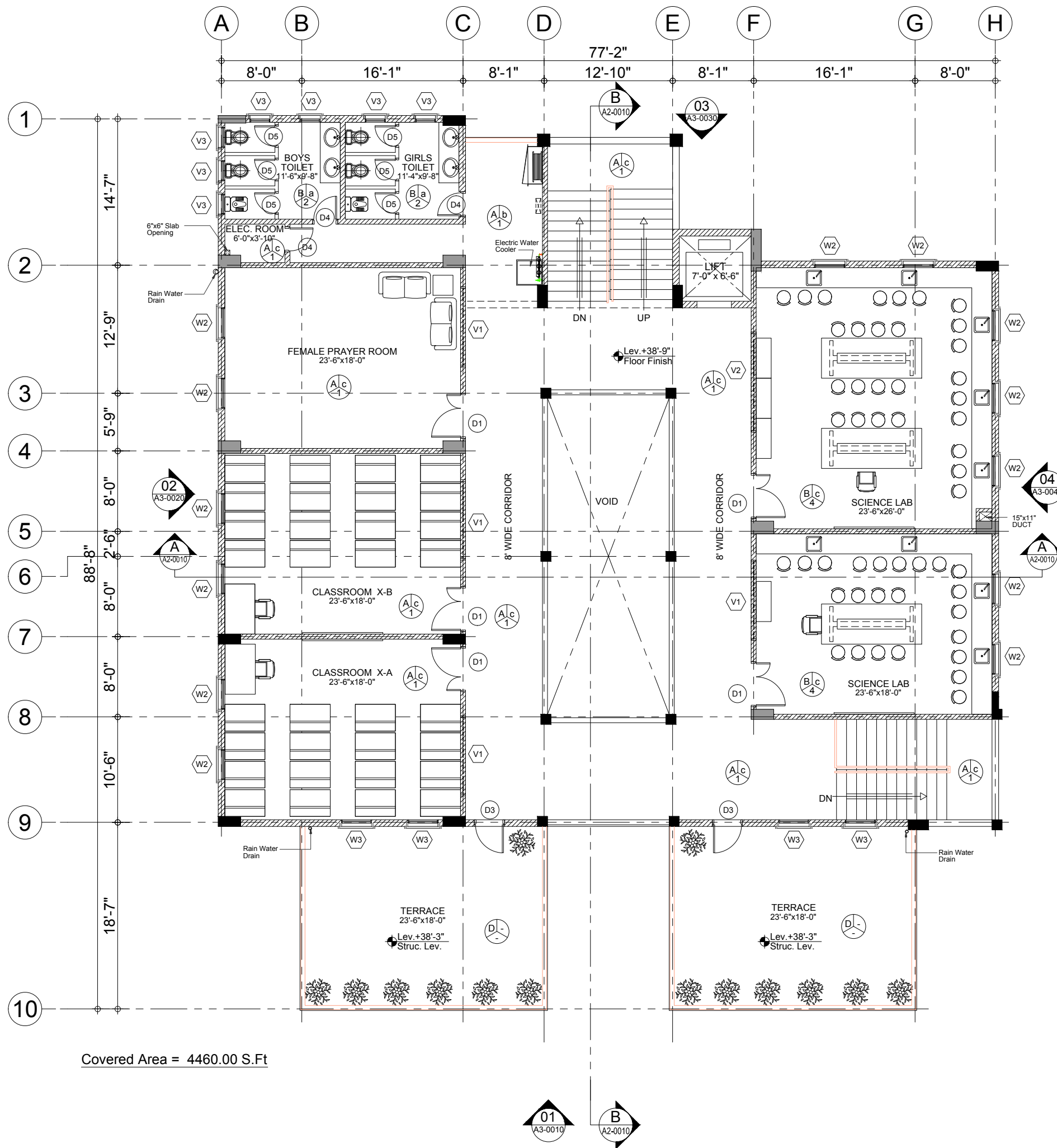
**ARCHITECTURE**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title:  
**SECOND FLOOR PLAN**

Designed :	Checked :	Approved :
FA	NIK	KG
Drawn :	Date :	Scale / Sheet :
MB	May 2018	3/32"=1'-0" @A3
Project Code :	Rev. :	
	00986	
Drawing No. :	EA-00986-SMS- A1-0300	



Covered Area = 4460.00 S.Ft

FINISHES	
ABBREVIATION	
Flooring	Ceiling
<b>STRUCTURE</b> RCC Framed Structure comprising of Columns, Beams & Slabs as per Structure Engineer details and specs. Structure to comply to relevant Earthquake Zone.	
<b>EXTERNAL WALLS</b> To be Non Load Bearing, 8" Outer Wall with 1/2" th. Plaster with Colour Crete Finish.	
<b>INTERNAL WALLS</b> To be 6" Non Load Bearing Solid Block Masonry Partition Wall as shown in drawing.	
<b>WINDOWS</b> Anodized Aluminum Windows as per detail, and windows schedule.	
<b>DOORS</b> - Formica pasted 1.5" th. Solid Core Shutter with 1.5"x1.5" Red Marinti Wood Beading - Grill Door of M.S. Square pipes with M.S. Solid bar frame Painted With Matt enamel paint Double Leaf Door.	
<b>WALL FINISH</b> 1 - 1/2" th. Plaster on Block Work with 3 coats of Matt Enamel Paint upto false ceiling height and 4" high pre-polished marble skirting. 2 - Upto 5/7" high porcelain tile (12" X12" X 3/8") dado in bathrooms/ pantry above 3 coats of matt enamel paint up to false ceiling. 3 - Textured Paint on External Walls 4 - 1/2" th. Plaster on Block Work with 3 coats of Matt Enamel Paint upto false ceiling height and 4" high half body porcelain skirting.	
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<b>FLOORING</b> A - 12" X12" X 1/2" Thick Pre-Polished Marble (Botocina or Similar) on Floors where shown B - 12" X12" Full Body Porcelain Tiles Flooring of approved Colour/ Texture C - Coloured Concrete Tiles laid in pattern as per design. D - National Insulation Tiles laid in pattern as per design.	
<b>ROOF INSULATION</b> Heat Insulation Tiles to be used on the Roof.	
<b>ROOF WATER PROOFING</b> Water Proofing to roof to be a layer of 4mm thick modified bituminous membrane by Hygrip or similar approved.	
<b>ROOF SCREED</b> 1:2:4 CC screed laid to falls minimum 50mm thick.	
<b>HANDRAILS / BALUSTRADING</b> - To be Stainless Steel 50mm pipe handrail and 19mm thick horizontal bars as per drawings.	



Client :  
 Consultant :  
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Project :  
**DEVELOPMENT OF SMU CAMPUS KARACHI**

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 North:

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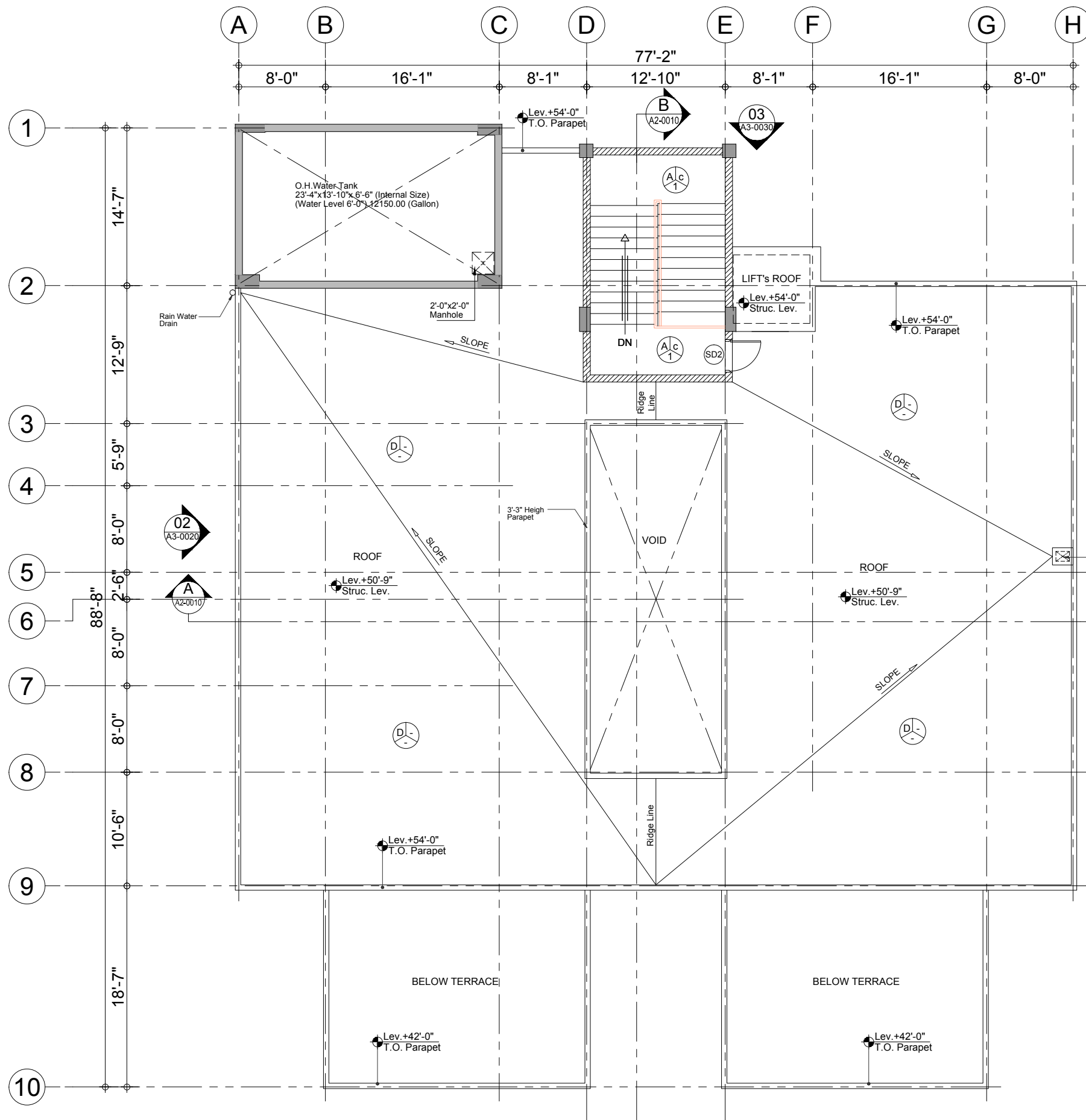
**ARCHITECTURE**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title:  
**THIRD FLOOR PLAN**

Designed :	Checked :	Approved :
FA	NIK	KG
Drawn :	Date :	Scale / Sheet :
MB	May 2018	3/32"=1'-0" @A3
Project Code :	00986	Rev. :
Drawing No. :	EA-00986-SMS- A1-0400	



Covered Area = 299.00 S.Ft  
 O.H. Water Tank Area = 374.00 S.Ft

FINISHES	
ABBREVIATION	
Flooring	Ceiling
Walls	
STRUCTURE	
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ROOF WATER PROOFING	
Water Proofing to roof to be a layer of 4mm thick modified bituminous membrane by Hygrip or similar approved.	
ROOF SCREED	
1:2:4 CC screed laid to falls minimum 50mm thick.	
HANDRAILS / BALUSTRADING	
- To be Stainless Steel 50mm pipe handrail and 19mm thick horizontal bars as per drawings.	



Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
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Project :  
**DEVELOPMENT OF SMU CAMPUS KARACHI**

Key Plan :  
 Note:  
 • All Dimensions to be confirmed on site with architect.  
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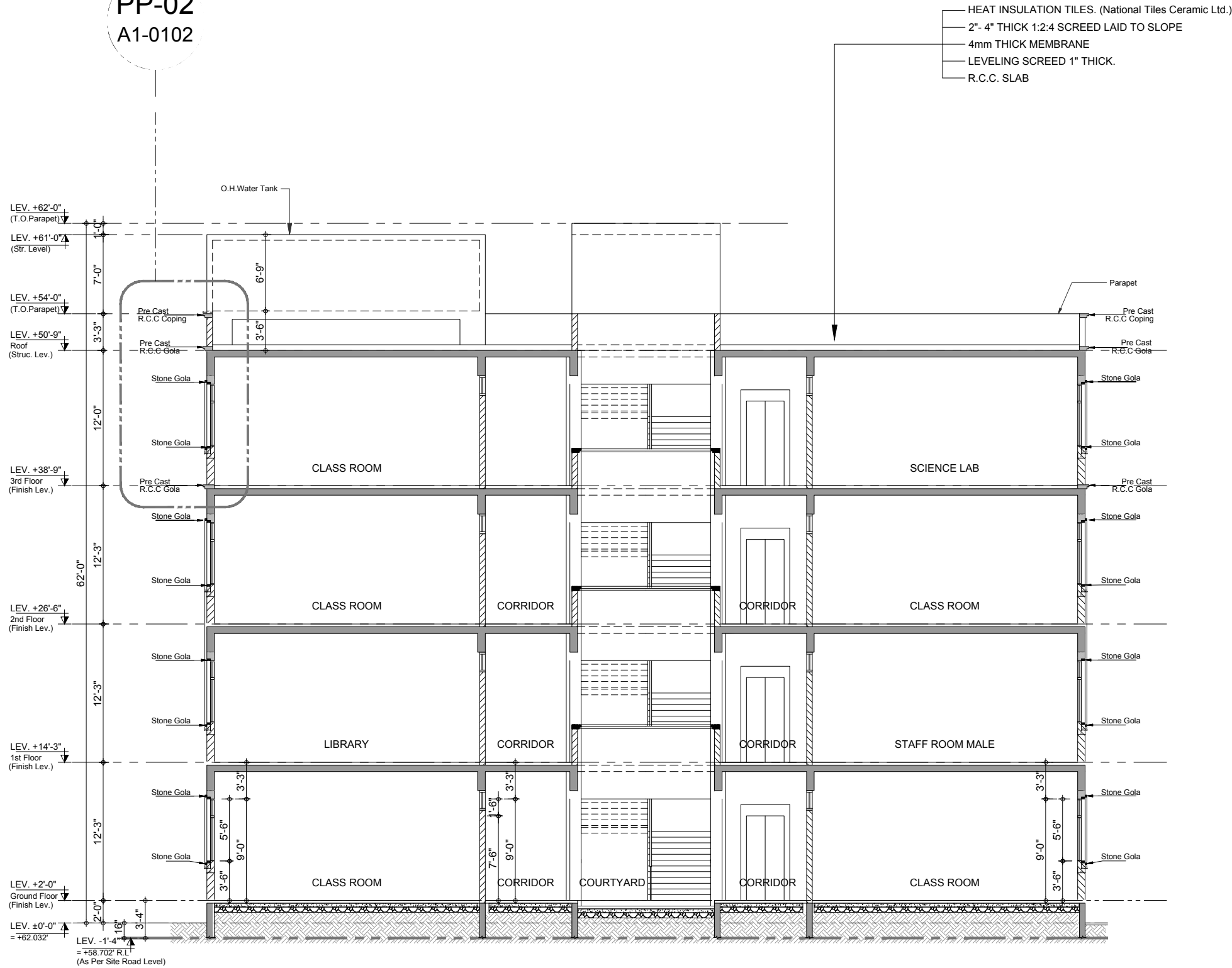
REVISIONS	
Date of Issue	May 25, 2018
Issued To	Client
Issued For	Tender

**ARCHITECTURE**  
 Status: **TENDER**  
 Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title : **ROOF PLAN**

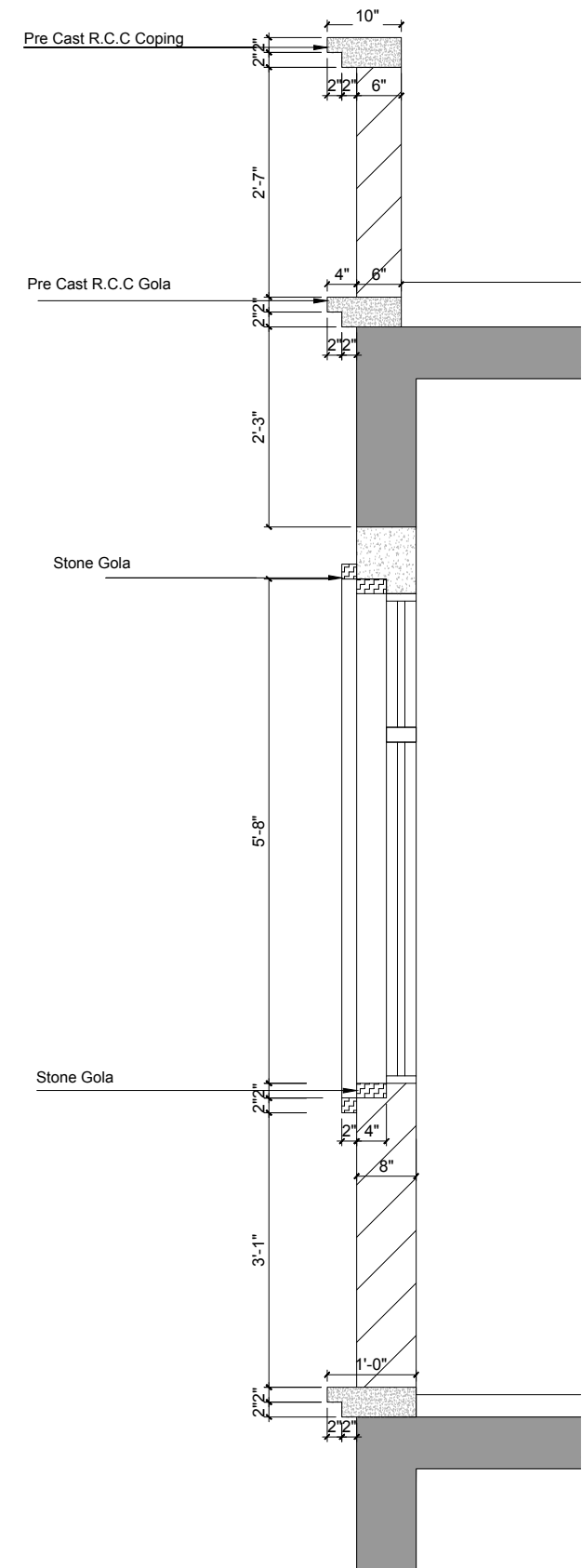
Designed :	Checked :	Approved :
FA	NIK	KG
Drawn :	Date :	Scale / Sheet :
MB	May 2018	3/32" = 1'-0" @ A3
Project Code :	Rev. :	
	00986	
Drawing No. :	EA-00986-SMS- A1-0500	

PP-02  
A1-0102



- HEAT INSULATION TILES. (National Tiles Ceramic Ltd.)
- 2"- 4" THICK 1:2:4 SCREED LAID TO SLOPE
- 4mm THICK MEMBRANE
- LEVELING SCREED 1" THICK.
- R.C.C. SLAB

**NOTE:**  
ROAD LEVEL  
+58.702' RL = -1.33'



Client :  
Consultant :  
**EA Consulting Pvt Ltd**  
Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7,  
Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. 111-111-584, Fax No. 584-1825  
Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF  
SMU CAMPUS  
KARACHI**

Key Plan :  
Note:  
• All Dimensions to be confirmed on site with architect.  
• Do not scale.  
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Date of Issue: May 25, 2018  
Issued To: Client  
Issued For: Tender

**ARCHITECTURE**  
Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title:  
**SECTION A-A**

Designed : FA	Checked : NIK	Approved : KG
Drawn : MB/MH	Date : May 2018	Scale / Sheet : 3/32" = 1'-0" @ A3
Project Code : 00986	Rev. :	3/16" = 1'-0" @ A1
Drawing No. : EA-00986-SMS- A2-0010		

**SECTION A-A**

SCALE:-1'-0" = 3/16"

**PP-02**

SCALE:-1'-0" = 1"

**NOTE:**  
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Project :  
**DEVELOPMENT OF  
SMU CAMPUS  
KARACHI**

Key Plan :  
North:

Note:  
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Date of Issue : May 25, 2018  
Issued To : Client  
Issued For : Tender

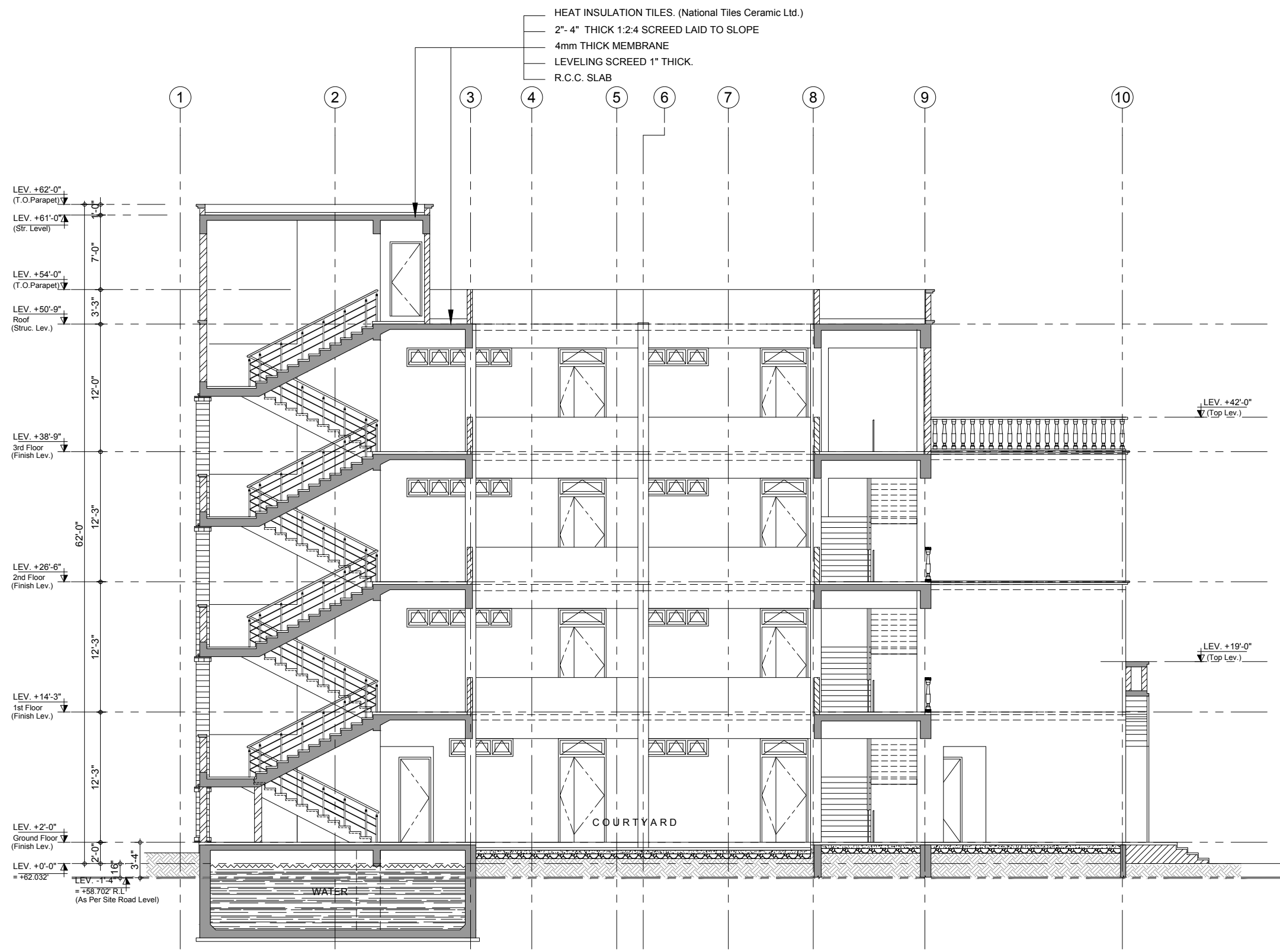
**ARCHITECTURE**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title:  
**SECTION B-B**

Designed : FA	Checked : NIK	Approved : KG
Drawn : MB/MH	Date : May 2018	Scale / Sheet : 3/32" = 1'-0" @ A3 3/16" = 1'-0" @ A1
Project Code : 00986	Rev. : 1	
Drawing No. : EA-00986-SMS- A2-0020		



**SECTION B-B**

SCALE:- 1'-0" = 3/16"

**NOTE:**  
ROAD LEVEL  
+58.702' RL = -1.33'

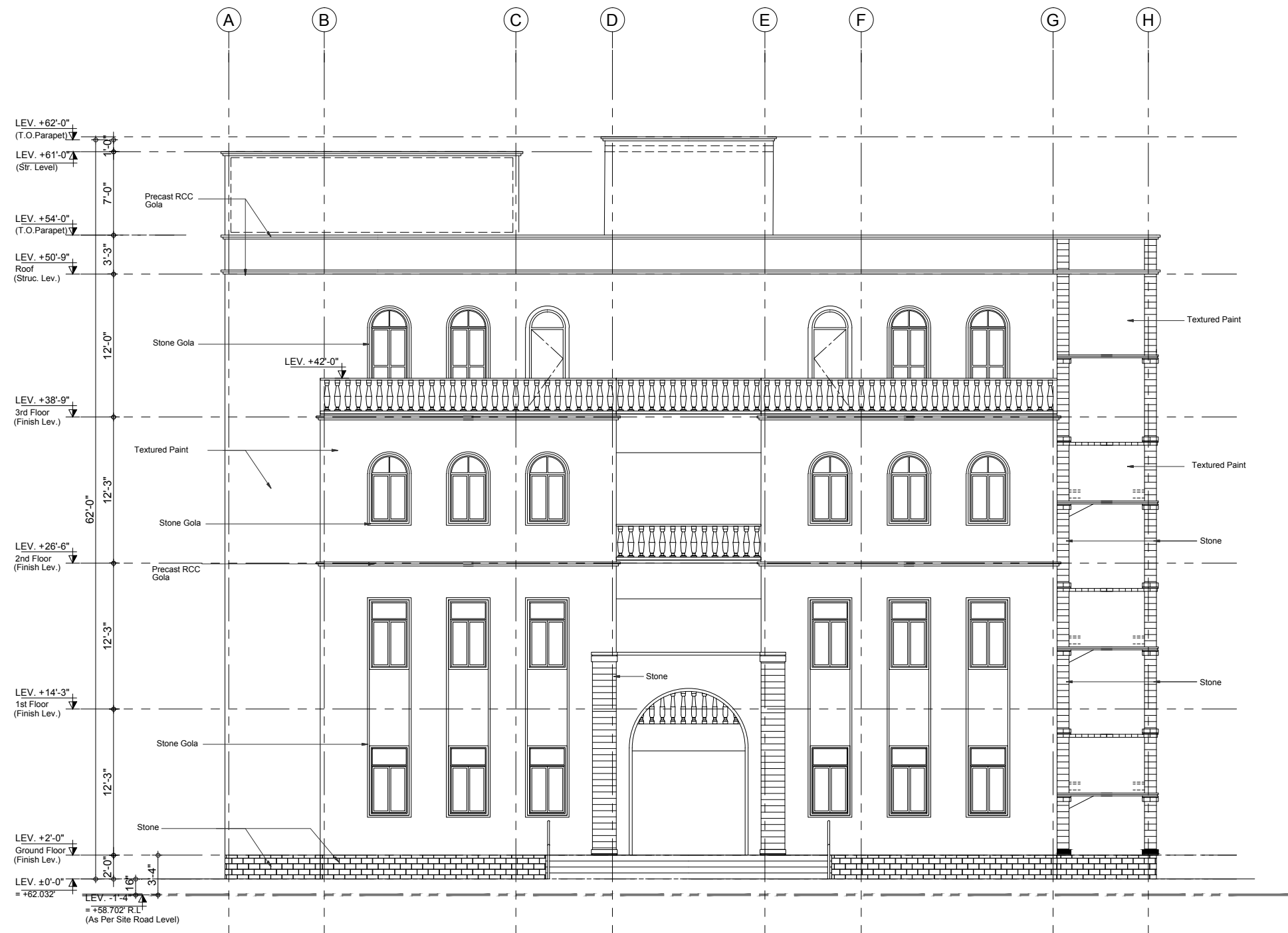
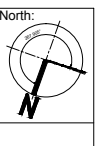


Client :  
Consultant :  
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Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF  
SMIU CAMPUS  
KARACHI**

Key Plan :

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Issued For : Tender

**ARCHITECTURE**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title :  
**ELEVATION 01**

Designed : FA	Checked : NIK	Approved : NIK
Drawn : MB/MH	Date : May 2018	Scale / Sheet : 3/32"=1'-0" @A3 3/16"=1'-0" @A1
Project Code : 00986	Rev. :	

Drawing No. :  
EA-00986-SMS- A3-0010

**NOTE:**  
ROAD LEVEL  
+58.702' RL = -1.33'



Client :

Consultant :



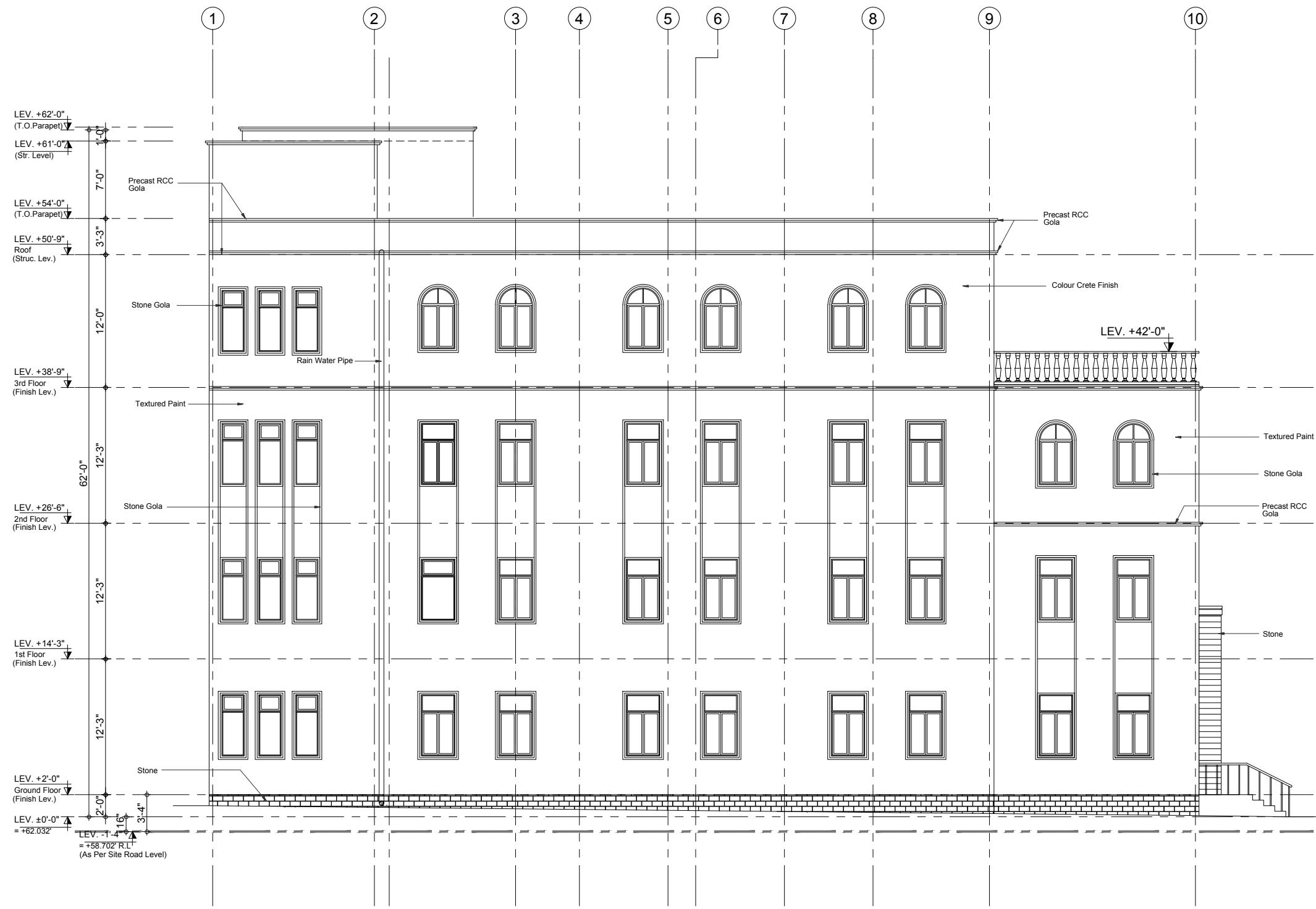
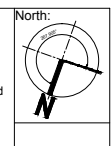
**EA Consulting Pvt Ltd**  
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Project :

**DEVELOPMENT OF  
SMIU CAMPUS  
KARACHI**

Key Plan :

- Note:
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  - Do not scale.
  - Only written dimensions to be followed.
  - Any discrepancies to be clarified with the architect.
  - For structure details refer structure engineer drawings / details



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**Date of Issue** May 25, 2018  
**Issued To** Client  
**Issued For** Tender

**ARCHITECTURE**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title:  
**ELEVATION 02**

Designed : FA	Checked : NIK	Approved : NIK
Drawn : MB/MH	Date : May 2018	Scale / Sheet : 3/32" = 1'-0" @ A3 3/16" = 1'-0" @ A1
Project Code : 00986	Rev. :	
Drawing No. : EA-00986-SMS- A3-0020		

**NOTE:**  
ROAD LEVEL  
+58.702' RL = -1.33'

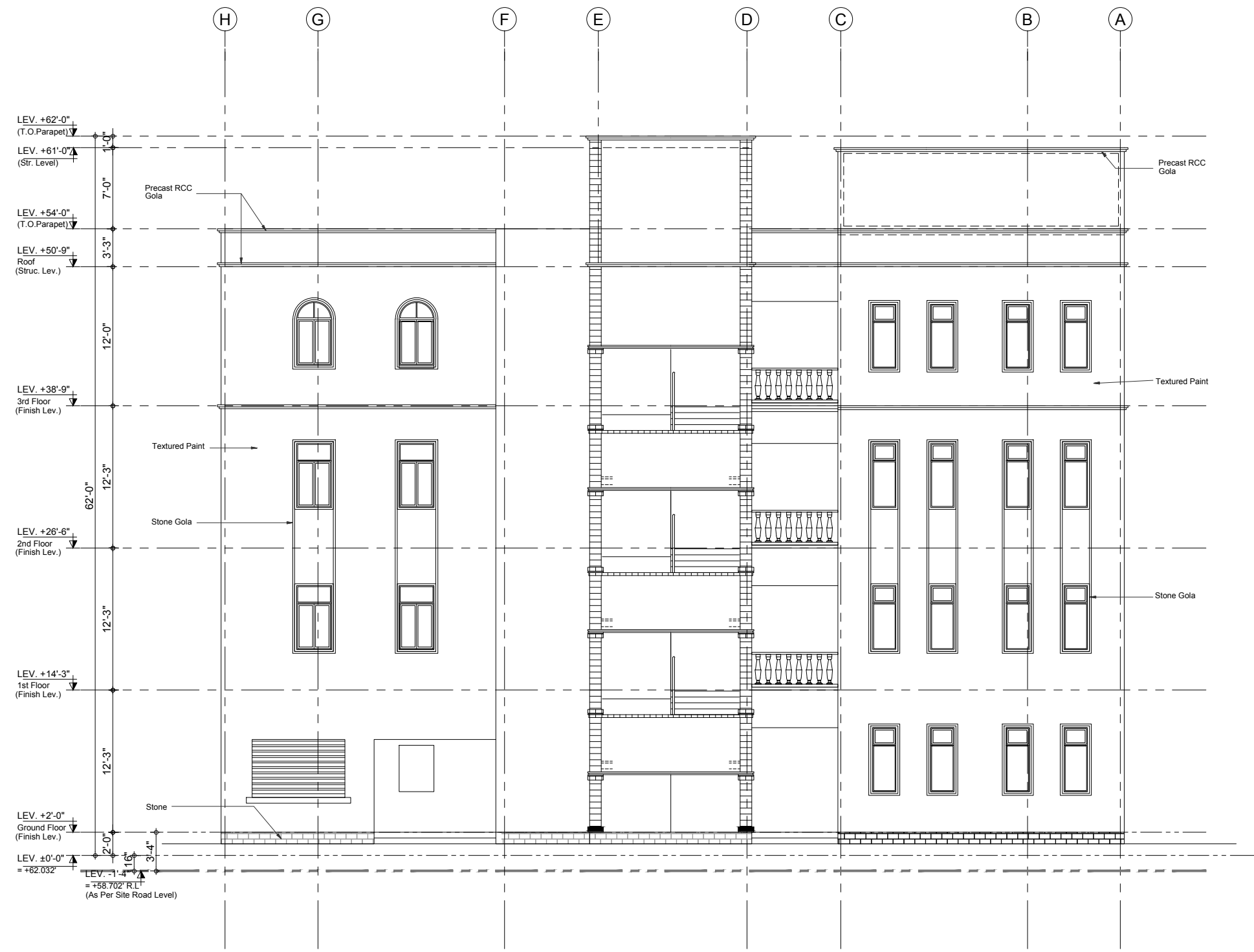
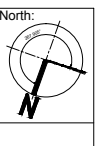


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Project :  
**DEVELOPMENT OF  
SMIU CAMPUS  
KARACHI**

Key Plan :

Note:  
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**Date of Issue** : May 25, 2018  
**Issued To** : Client  
**Issued For** : Tender

**ARCHITECTURE**  
Status: **TENDER**  
Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title : **ELEVATION 03**

Designed : FA	Checked : NIK	Approved : KGM
Drawn : MB/MH	Date : May 2018	Scale / Sheet : 3/32" = 1'-0" @ A3
Project Code : 00986	Rev. :	3/16" = 1'-0" @ A1

Drawing No. : **EA-00986-SMS- A3-0030**



**NOTE:**  
ROAD LEVEL  
+58.702' RL = -1.33'

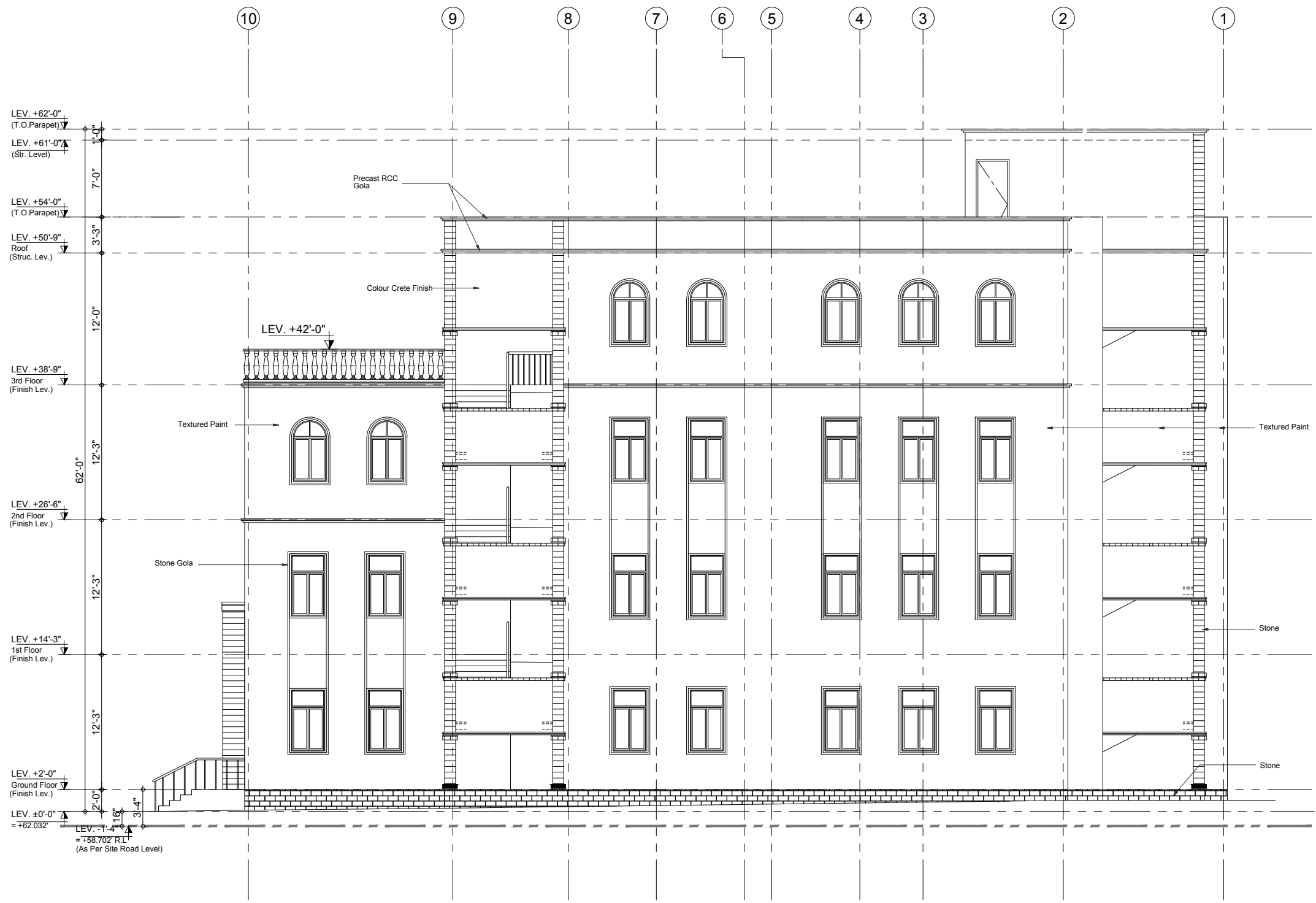


Client :  
Consultant :  
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Project :  
**DEVELOPMENT OF  
SMU CAMPUS  
KARACHI**

Key Plan :

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Issued To: Client  
Issued For: Tender

**ARCHITECTURE**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title:  
**ELEVATION 04**

Designed : FA	Checked : NIK	Approved : KG
Drawn : MB/MH	Date : May 2018	Scale / Sheet : 3/32"=1'-0" @A3 3/16"=1'-0" @A1
Project Code : 00986	Rev. :	
Drawing No. : EA-00986-SMS- A3-0040		

## SCHEDULE OF FINISHES

### Ground Floor

S.#	TITLE	FLOOR	SKIRTING	DADO	WALL	CEILING	REMARKS
01	Ent. Steps / Platform	Marble Tile Floor	Marble Tile	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
02	Class Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
03	Art Room	Full body Porcelain tiles	Half body Porcelain tiles	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
04	Vice Principal Office	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
05	Office/ Store	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
06	Canteen	Full body Porcelain tiles	Half body Porcelain tiles	Dado 5' High	Matt Enamel Paint	Oil Bond Destemper	Dado Up To 5' High
07	Electrical Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
08	Corridors	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
09	Toilets	Matt Finish Porcelain Tile Floor Finish	Half body Porcelain tiles	Dado 7' High	Matt Enamel Paint	False Ceiling	Dado Up To 7' High
10	Courtyard	Coloured Concrete Tiles	Marble Tile Skirting	-	-	-	Skirting Up To 4" High

### First Floor

S.#	TITLE	FLOOR	SKIRTING	DADO	WALL	CEILING	REMARKS
01	Staff Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
02	Class Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
03	Library	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
04	Faculty Lounge/ Pantry	Full body Porcelain tiles	Half body Porcelain tiles	Dado 5' High	Matt Enamel Paint	Oil Bond Destemper	Dado Up To 5' High
05	Corridors	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
06	Toilets	Matt Finish Porcelain Tile Floor Finish	Half body Porcelain tiles	Dado 7' High	Matt Enamel Paint	False Ceiling	Dado Up To 7' High
07	Electrical Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High

### Second Floor

S.#	TITLE	FLOOR	SKIRTING	DADO	WALL	CEILING	REMARKS
01	Computer Lab	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 6" High
02	Class Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 6" High
03	Electrical Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
04	Corridors	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
05	Toilets	Matt Finish Porcelain Tile Floor Finish	Half body Porcelain tiles	Dado 7' High	Matt Enamel Paint	False Ceiling	Dado Up To 7' High

### Third Floor

S.#	TITLE	FLOOR	SKIRTING	DADO	WALL	CEILING	REMARKS
01	Science Lab	Full body Porcelain tiles	Half body Porcelain tiles	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
02	Class Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
03	Female Prayer Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
04	Electrical Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
05	Corridors	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
06	Toilets	Matt Finish Porcelain Tile Floor Finish	Half body Porcelain tiles	Dado 7' High	Matt Enamel Paint	False Ceiling	Dado Up To 7' High

### LIST OF MATERIAL

01	All Internal Walls 1/2" Thick Cement 1:3 C.C Plaster with paint finish as specified Sand Plaster Finish Plain Plaster.
02	All Concrete Ceiling Soffits, Beams, Column etc. to have 1/2" C.C Plaster Finish for Paint as specified
03	12"x12"x1/2" Thick Pre-Polished Marble (Botocina or Similar) on Floors where shown
04	12"x4"x1/2" Thick Marble (Botocina) Chemical Pre-Polished Tiles Skirting as per Drawing.
05	12"x12"x3/8" Thick Half Body Porcelain Tiles Dado.
06	Full Body Porcelain Tiles Flooring of approved Colour/ Texture
07	Laid to Patterns as shown
08	ICI or Berger Matt Enamel Paint for approved Colour on walls
09	Oil Bond Destemper on ceiling
10	Textured Paint on external Walls

Client :



Consultant :



**EA Consulting Pvt Ltd**

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Email : info@eaworld.com | www.eaworld.com

Project :

**DEVELOPMENT OF  
SMIU CAMPUS  
KARACHI**

Key Plan :

Note:  
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REVISIONS		

<b>Date of Issue</b>	May 25, 2018
<b>Issued To</b>	Client
<b>Issued For</b>	Tender

**ARCHITECTURE**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title :  
**SCHEDULE OF FINISHES**

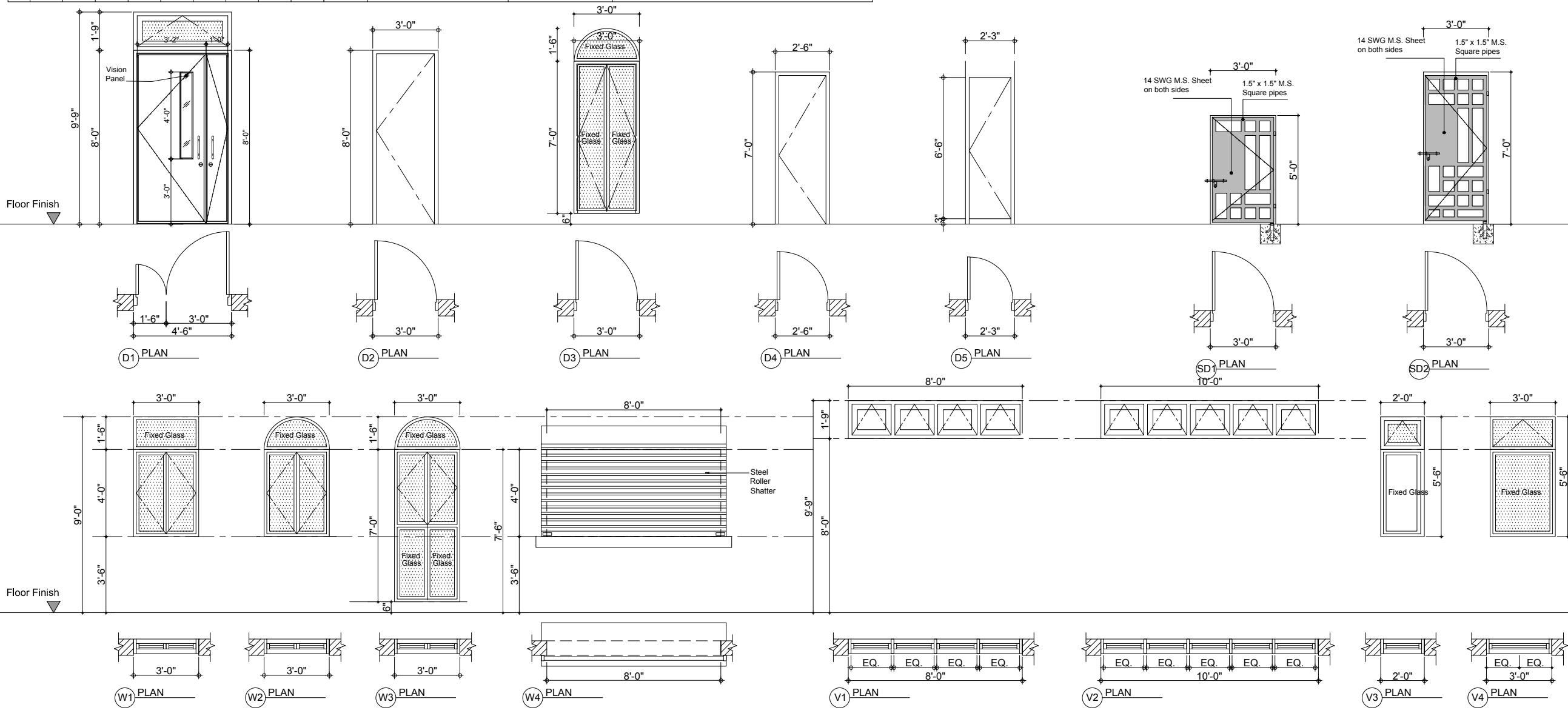
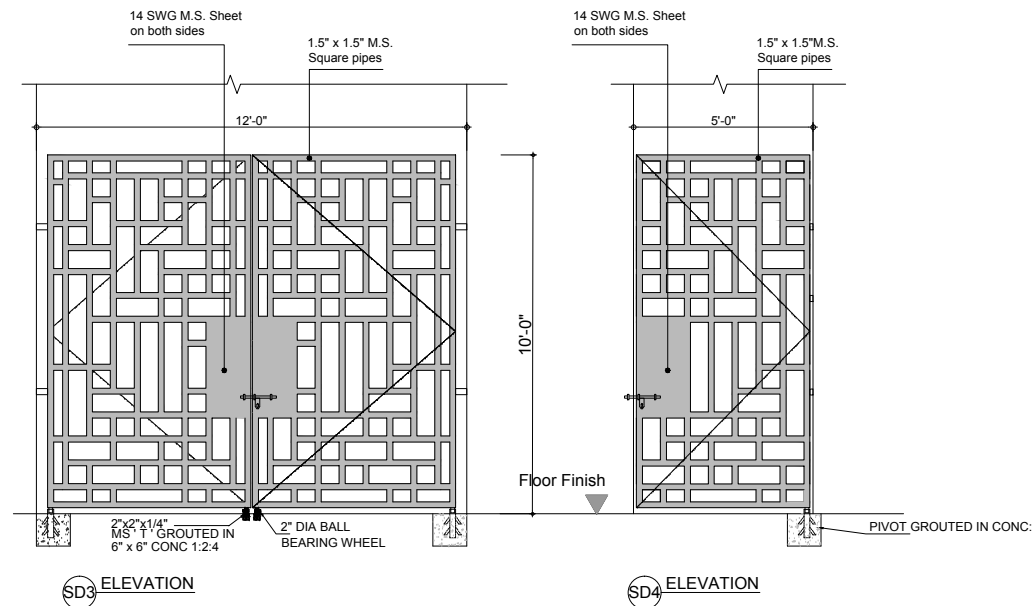
Designed :	Checked :	Approved :
FA	NIK	KG
Drawn :	Date :	Scale / Sheet :
MH	May 2018	3/8"=1'-0" @A1
Project Code :	00986	Rev. :

Drawing No. :  
**EA-00986-SMS- A6-0010**

# SCHEDULE OF DOORS, WINDOWS & VENTILATORS

Schedule Of Doors																
S.#	Doors Type	Sizes		Ground Floor	First Floor	Second Floor	Third Floor	Roof Floor	Total No.	Type	Material	Finishes	Frame	Frame Finish	Hardware	Notes
		Width	Height													
01	D1	4'-6"	9'-9"	6	6	7	5	-	24	As per Design	Formica pasted 1.5" th. Solid Core Shutter with 1.5"x1.5" Red Marinti Wood Lipping.	Polish Finished Wood Beading	16 Swg Folded M.S. Sheet	Enamel paint with Anti Rust	Deadlock 1/2" Th. S.S Hinge (Ball Bearing) & Door Closer (Dooma or Equivalent)	
02	D2	3'-0"	8'-0"	3	1	-	-	-	4	///	///	///	///	///	///	
03	D3	3'-0"	8'-6"	-	-	-	2	-	2	///	///	///	///	///	///	
04	D4	2'-6"	7'-0"	3	5	3	3	-	14	///	///	///	///	///	///	
05	D5	2'-3"	6'-6"	6	8	6	6	-	26	///	///	///	///	///	///	
06	SD1	3'-0"	5'-0"	1	-	-	-	-	1	///	M.S sq pipe door / gate. As per drawing.	///	///	///	As shown on drawings	
07	SD2	3'-0"	7'-0"	-	-	-	-	-	1	///	///	///	///	///	///	
06	SD3	12'-0"	10'-0"	1	-	-	-	-	1	///	///	///	///	///	///	
07	SD4	5'-0"	10'-0"	1	-	-	-	-	1	///	///	///	///	///	///	

Schedule Of Windows & Ventilator													
S.#	W/ V Type	Sizes		Ground Floor	First Floor	Second Floor	Third Floor	Roof Floor	Total No.	Type	Material	Glass	Notes
		Width	Height										
01	W1	3'-0"	5'-6"	21	22	13	-	-	56	As Per Design	Champaign Anodized Deluxe Aluminum Beading sections.	5mm* Th. Clear Glass	
02	W2	3'-0"	5'-6"	-	-	10	13	-	23	///	///	///	
03	W3	3'-0"	8'-6"	-	-	-	4	-	4	///	///	///	
04	W4	8'-0"	4'-0"	1	-	-	-	-	1	///	20 SWG G.I. Steel Roller Shutter with Enamel Paint	-	As Per Architect Approval
01	V1	8'-0"	1'-9"	5	4	4	4	-	16	///	Champaign Anodized Deluxe Aluminum Beading sections.	5mm* Th. Clear Glass	
02	V2	10'-0"	1'-9"	-	1	1	1	-	3	///	///	///	
03	V3	2'-0"	5'-6"	7	7	7	7	-	28	///	///	///	
03	V4	3'-0"	5'-6"	-	1	-	-	-	1	///	///	///	

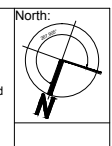


Client :  
 Consultant :  
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 Phone No. : 111-111-584, Fax No. : 584-1825  
 Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

Note:  
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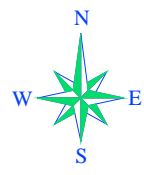


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Date of Issue : May 25, 2018  
 Issued To : Client  
 Issued For : Tender

**ARCHITECTURE**  
 Status: **TENDER**  
 Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title :  
**DOORS & WINDOWS SCHEDULE, PLANS AND ELEVATIONS**  
 Designed : Checked : Approved :  
 Drawn : Date : Scale / Sheet :  
 Project Code : 00986 Rev. :  
 Drawing No. : EA-00986-SMS- A6-0020



NOTE:  
ROAD LEVEL  
+58.702' RL = -1.33'

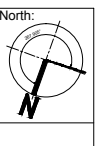


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Consultant :  
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Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF  
SMIU CAMPUS  
KARACHI**

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Issued For : Tender

**ARCHITECTURE**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title:  
**EXTERNAL  
DEVELOPMENT**

Designed : FA	Checked : NIK	Approved : NIK
Drawn : May 2018	Date : May 2018	Scale / Sheet : 3/32"=1'-0" @ A3
Project Code : 00986	Rev. :	
Drawing No. : EA-00986-SM3	11-0001	

# DEVELOPMENT OF SMIU CAMPUS KARACHI



**TENDER DRAWINGS**

Structure

**MODEL SCHOOL City Campus**

JULY' 2018



Client :



**EA Consulting Pvt Ltd**

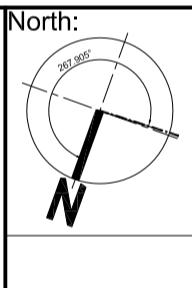
Head Office: PL-9, 15th Lane, Khayaban-e-Hilal Phase 7,  
Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. : 111-111-584, Fax No. : 584-1825  
Email : info@eaworld.com | www.eaworld.com

Project :

**DEVELOPMENT OF  
SMIU CAMPUS  
KARACHI**

Key Plan :

Note:  
• All Dimensions to be confirmed on site with architect.  
• Do not scale.  
• Only written dimensions to be followed.  
• Any discrepancies to be clarified with the architect.  
• For structure details refer structure engineer drawings / details



No.	DATE	DESCRIPTION
0	25-05-2018	ISSUED FOR TENDER

No.	DATE	DESCRIPTION
REVISIONS		

Date of Issue	May 25, 2018
Issued To	Client
Issued For	Tender

**STRUCTURE**

Status:

**TENDER**

Building Name:

**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title :

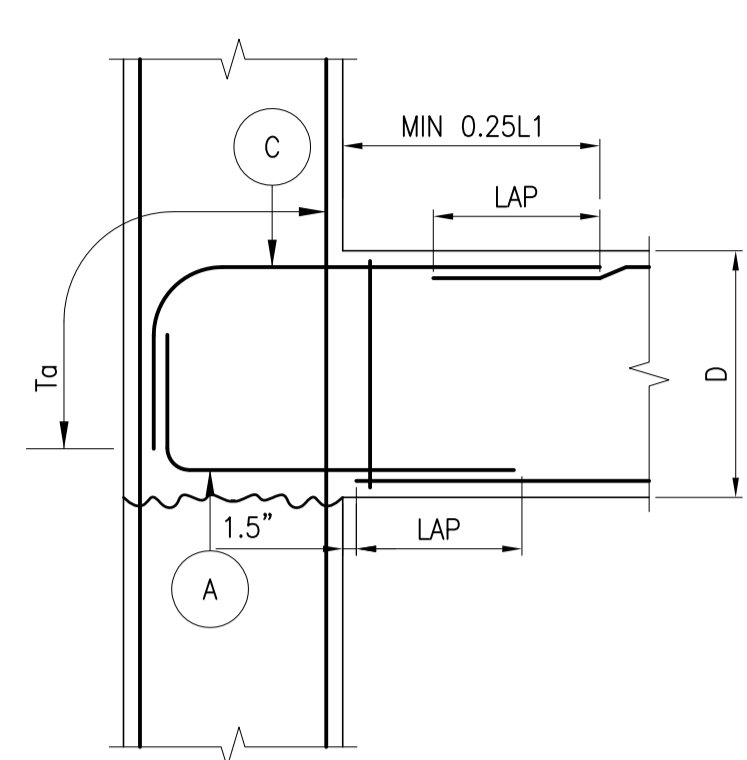
**LIST OF DRAWING**

Designed :	Checked :	Approved :
HA	HA	AKM
Drawn :	Date :	Scale / Sheet :
MMK	April, 2018	AS SHOWN
Project Code :	00986	Rev. : 0
Drawing No. :	EA-986-SMS-S-0000	

## LIST OF DRAWINGS

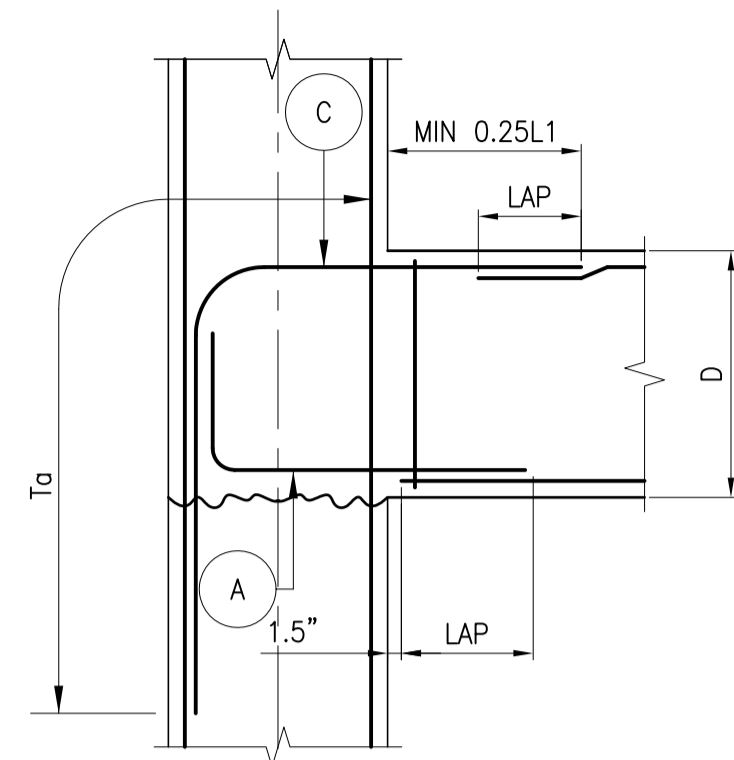
S.NO.	DRG. NO.	DESCRIPTION
<b>STANDARD DRAWINGS</b>		
01	EA-986-SMS-S-0000	LIST OF DRAWINGS
02	EA-986-SMS-S-0001	GENERAL NOTES
03	EA-986-SMS-S-0011	STANDARD DETAILS (SHEET 1 OF 5)
04	EA-986-SMS-S-0012	STANDARD DETAILS (SHEET 2 OF 5)
05	EA-986-SMS-S-0013	STANDARD DETAILS (SHEET 3 OF 5)
06	EA-986-SMS-S-0014	STANDARD DETAILS (SHEET 4 OF 5)
07	EA-986-SMS-S-0015	STANDARD DETAILS (SHEET 5 OF 5)
<b>FOUNDATION PLAN</b>		
08	EA-986-SMS-S-0101	COLUMN LAYOUT PLAN & DETAILS
09	EA-986-SMS-S-0102	COLUMN SCHEDULE
10	EA-986-SMS-S-0103	FOUNDATION LAYOUT PLAN & DETAILS
<b>FRAMING PLAN</b>		
11	EA-986-SMS-S-2001	PLINTH FRAMING PLAN & DETAILS
12	EA-986-SMS-S-2002	FIRST FLOOR FRAMING PLAN & DETAILS
13	EA-986-SMS-S-2003	SECOND FLOOR FRAMING PLAN & DETAILS
14	EA-986-SMS-S-2004	THIRD FLOOR FRAMING PLAN & DETAILS
15	EA-986-SMS-S-2005	ROOF FRAMING PLAN & DETAILS
16	EA-986-SMS-S-2006	UPPER ROOF FRAMING REINFORCEMENT PLAN & DETAILS
<b>REINFORCEMENT PLAN</b>		
17	EA-986-SMS-S-3001	FIRST FLOOR REINFORCEMENT PLAN & SECTION DETAILS
18	EA-986-SMS-S-3002	SECOND FLOOR REINFORCEMENT PLAN & SECTION DETAILS
19	EA-986-SMS-S-3003	THIRD FLOOR REINFORCEMENT PLAN & SECTION DETAILS
20	EA-986-SMS-S-3004	ROOF REINFORCEMENT PLAN & SECTION DETAILS
<b>BEAM DETAIL</b>		
21	EA-986-SMS-S-4001	BEAM SCHEDULE & DETAILS (SHEET 1 OF 2)
22	EA-986-SMS-S-4002	BEAM SCHEDULE & DETAILS (SHEET 2 OF 2)
<b>TANK DETAIL</b>		
23	EA-986-SMS-S-5001	UNDER GROUND WATER TANK REINFORCEMENT PLAN & DETAILS
24	EA-986-SMS-S-5002	OVER HEAD WATER TANK REINFORCEMENT PLAN & DETAILS
<b>STAIRCASE DETAIL</b>		
25	EA-986-SMS-S-6001	STAIR CASE-1 PLAN SECTION & DETAILS
26	EA-986-SMS-S-6002	STAIR CASE-2 PLAN SECTION & DETAILS



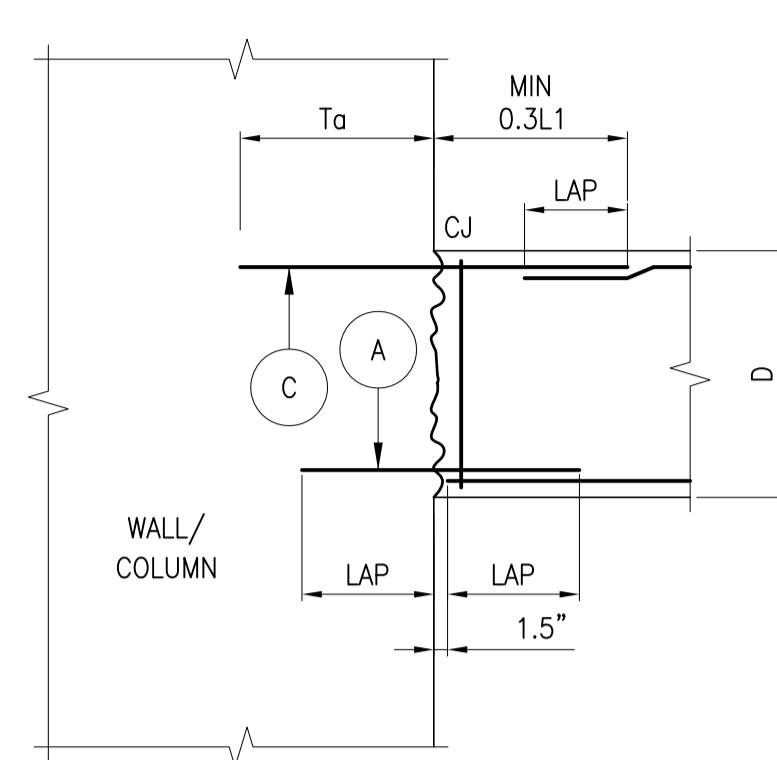


NOTE:  
TYPE-1 :  $T_a$  TO BE ACHIEVED WITHIN BEAM DEPTH WITH L-BAR (EDGE COLUMN)

$T_a$  - TENSION ANCHORAGE

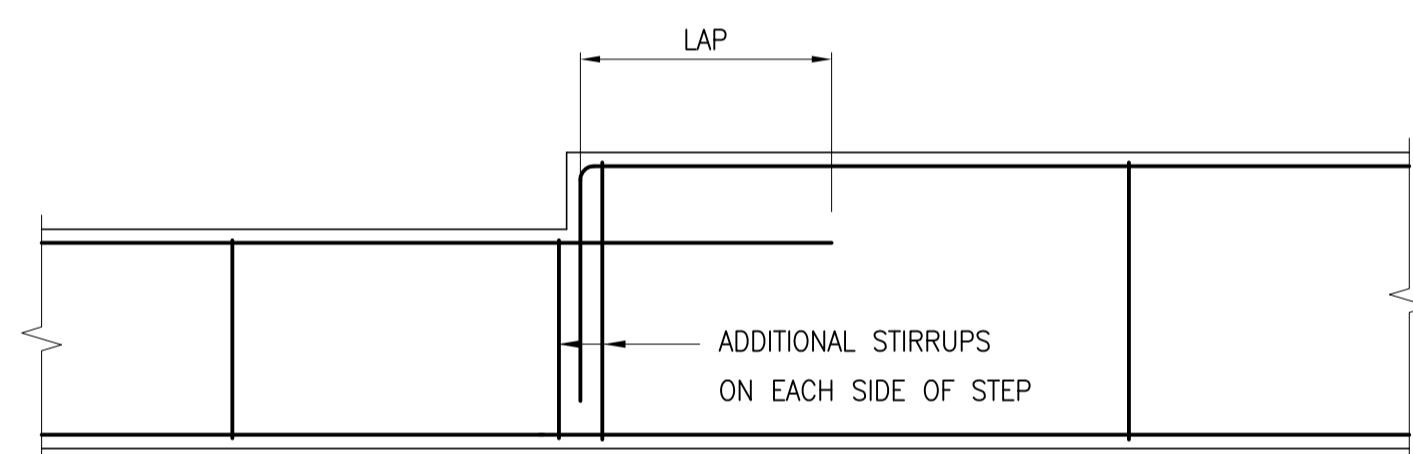


TYPE-2 :  $T_a$  TO BE ACHIEVED BY ANCHORING L-BARS INTO COLUMN. ( $T_a$  CANNOT BE ACHIEVED WITHIN BEAM DEPTH) (EDGE COLUMN)

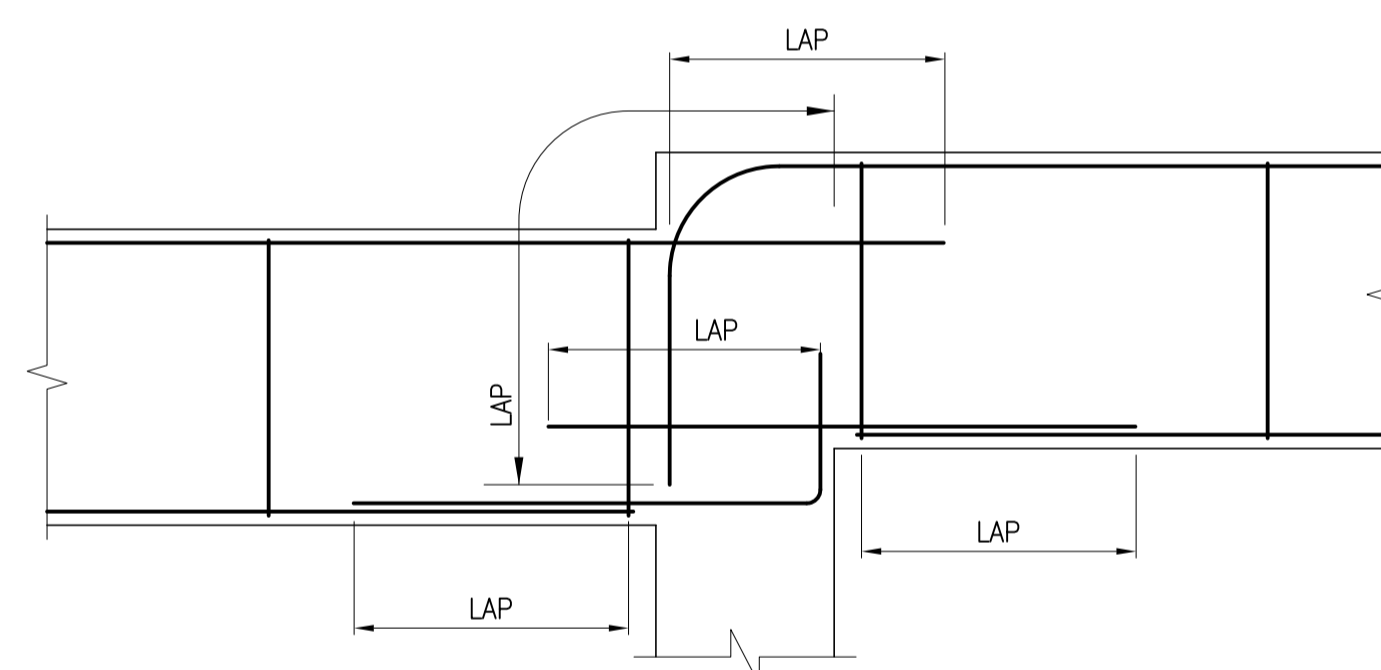


TYPE-3 :  $T_a$  TO BE ACHIEVED BY STRAIGHT BARS (LONG COLUMNS / WALLS)

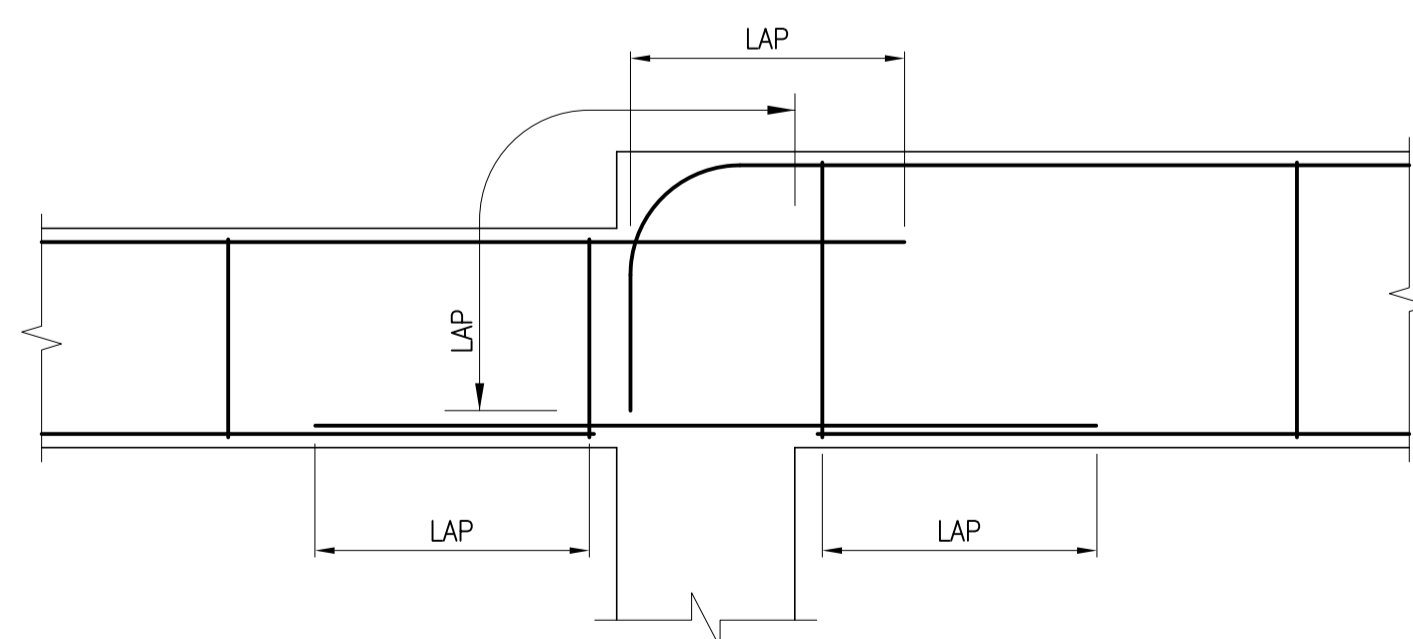
**A** DETAILS OF COLUMN BEAM INTERSECTIONS  
SCALE N.T.S



**1** IN SPAN  
SCALE N.T.S

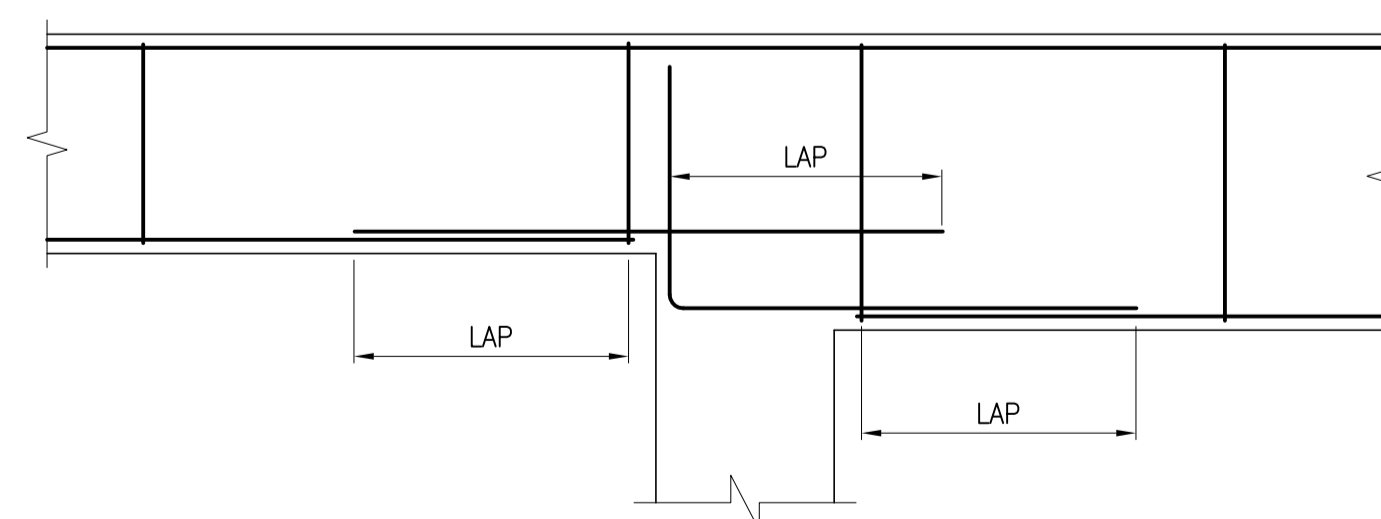


**2** AT SUPPORT CASE-1  
SCALE N.T.S



**3** AT SUPPORT CASE-2  
SCALE N.T.S

NOTE:  
1. COLUMN REINFORCEMENT OMITTED FOR CLARITY



**4** AT SUPPORT CASE-3  
SCALE N.T.S

**B** BEAM STEP DETAILS  
SCALE N.T.S

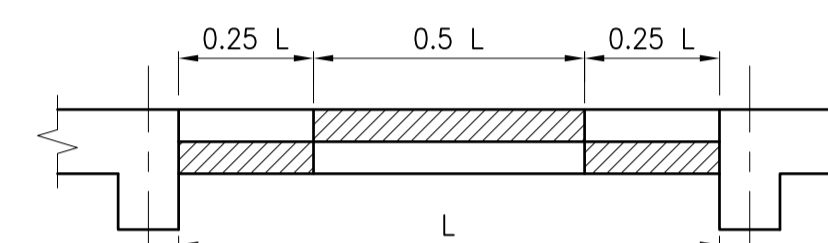
**NOTES :-**

- TO AVOID EXCESSIVE LAPPING THE CONTRACTOR MAY PROPOSE ALTERNATIVE REINFORCEMENT ARRANGEMENTS FOR CONTINUOUS BEAMS FOR THE ENGINEER'S APPROVAL. THE ALTERNATIVE ARRANGEMENTS MUST NOT RESULT IN LESSER REINFORCEMENT BEING PROVIDED IN ANY LOCATION THAN THAT INDICATED IN THE BEAM SCHEDULE.
- CONTRACTOR MAY PROPOSE ALTERNATIVE DETAILING FOR CONTINUOUS BEAMS FOR CONSIDERING REINFORCEMENT TO RUN CONTINUOUSLY ACROSS BEAM / COLUMN JUNCTION UTILIZING THE MAXIMUM LENGTH OF BAR AS MUCH AS POSSIBLE. LAPS WHERE REQUIRED SHOULD BE PROVIDED ONLY AT THE LOCATIONS SHOWN ON THE TYPICAL DETAILS.
- FOR DETAILS OF BARS MARKED THUS (A), (B), (C) ETC. SEE BEAM SCHEDULES.

- MAXIMUM CLEAR DISTANCE BETWEEN LONGITUDINAL BARS = 6" UNLESS SCHEDULED OTHERWISE.
- SIDE REINFORCEMENT FOR ALL BEAMS DEEPER THAN 2'-6" (OVERALL) UNO

WIDTH OF BEAM	SIDE REFT
8"	#4@10"
12"	#4@8"
16"	#4@6"
21" OR GREATER THAN 21"	#5@8"

- WHERE REFT IS TO BE DETAILED CONTINUOUSLY, LAPS IN REFT MAY OCCUR ONLY IN SHADED AREAS SHOWN BELOW:



**C** LAP LOCATIONS  
SCALE N.T.S

Client :



Consultant :



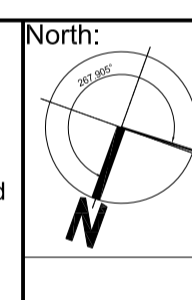
**EA Consulting Pvt Ltd**  
Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. 111-111-584, Fax No. 584-1825  
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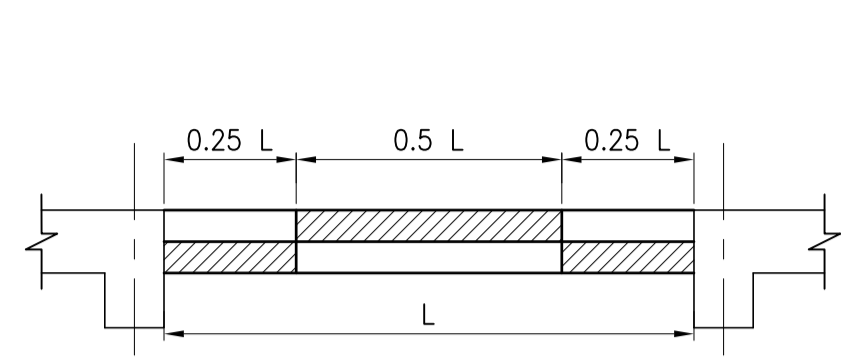
**STRUCTURE**  
Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

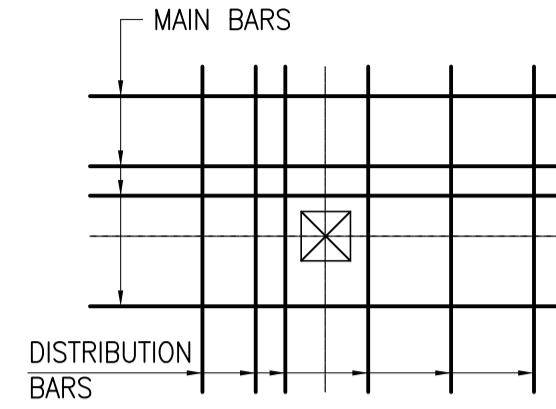
Drawing Title:  
**STANDARD DETAILS (SHEET 1 OF 5)**

Designed :	Checked :	Approved :
HA	HA	AKM
Drawn :	Date :	Scale / Sheet :
MMK	April, 2018	AS SHOWN
Project Code :	00986	Rev. : 0
Drawing No. :	EA-986-GEN-S-0011	

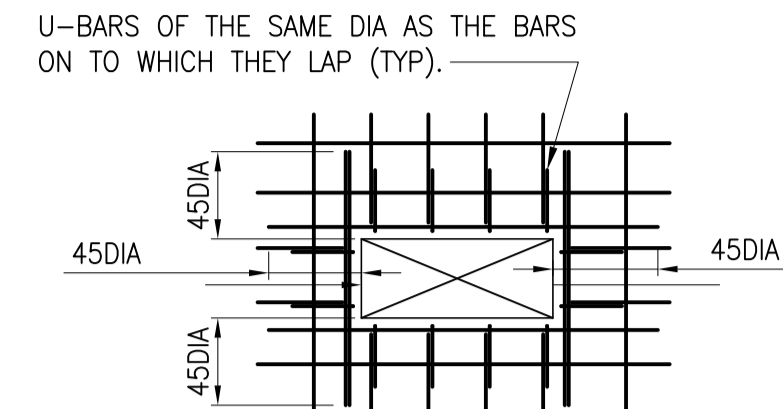




**A** LAP LOCATIONS  
SCALE N.T.S

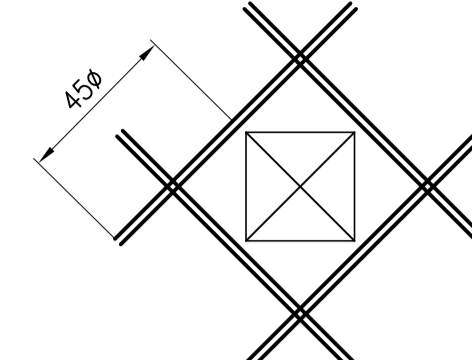


**B** OPENINGS MORE THAN 6"  
SCALE N.T.S  
BARS MAY BE DISPLACED NO ADDITIONAL REINF. NECESSARY



**C** OPENINGS MORE THAN 6"  
AND LESS THAN 18"  
SCALE N.T.S

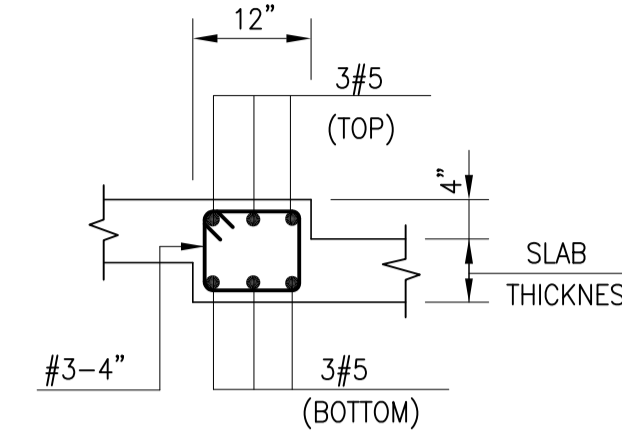
CUT BARS INTERRUPTED BY HOLE. PROVIDE TRIMMER BARS OF SAME DIA. TYPE & NUMBER AS CUT BARS



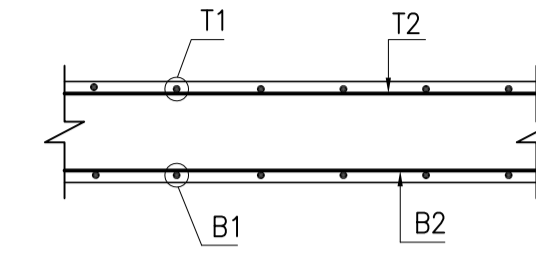
NOTES:  
1. ALL REPLACEMENT AND DIAGONAL BARS SHOULD EXTEND AN ANCHORAGE LENGTH BEYOND THE EDGE OF THE HOLE.  
2. HOLES LARGER THAN 36" IN ANY DIRECTION ARE DETAILED ON THE DRAWINGS

**D** OPENINGS MORE THAN 18"  
AND LESS THAN 36"  
SCALE N.T.S

PROVIDE TRIMMER BARS AS PREVIOUS DETAIL IN ADDITION PROVIDE DIAGONAL TRIMMER OF SAME DIA, TYPE & NUMBER AS PREVIOUS DETAIL TRIMMERS.

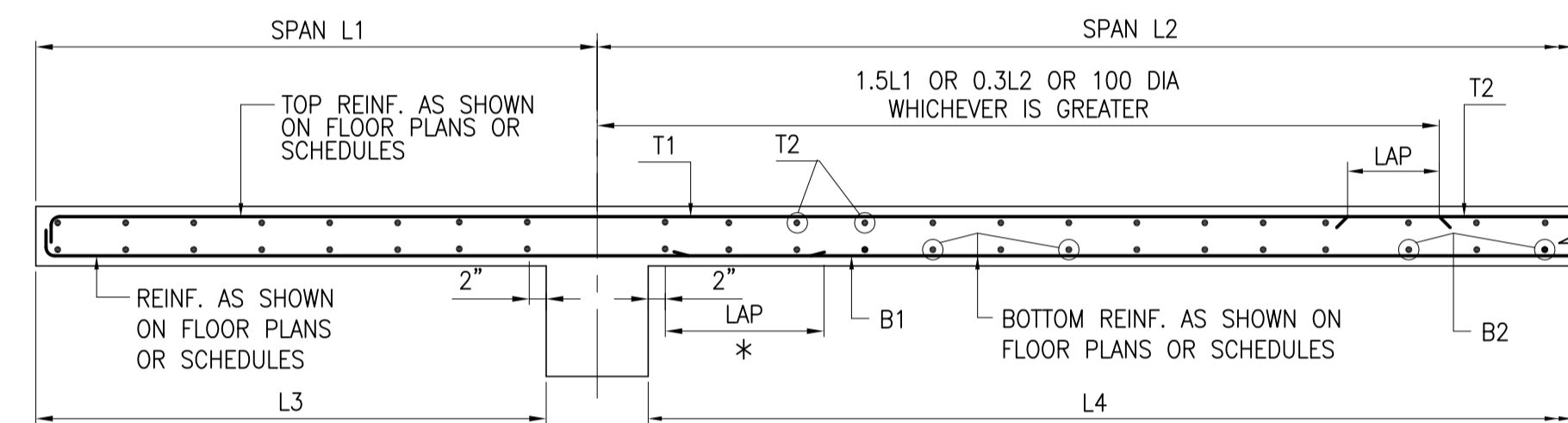


**E** TYP. SECTION OF FOLD  
AT SUNK SLAB  
SCALE N.T.S

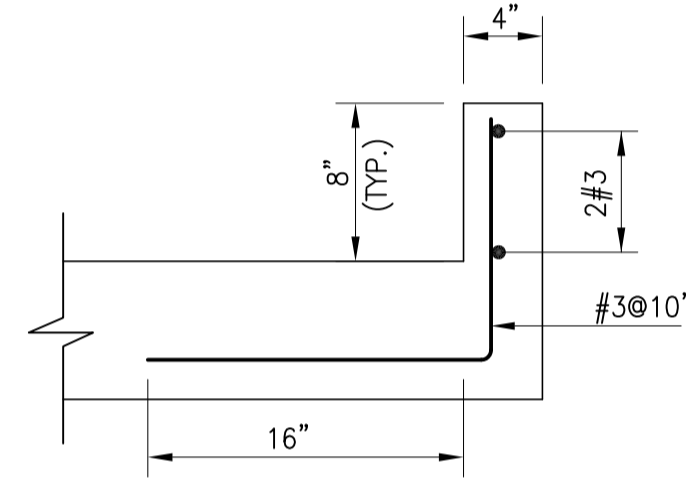


T1 DENOTES FIRST (OUTERMOST) LAYER OF TOP REINF. T2 DENOTES SECOND LAYER TOP REINF.  
B1 DENOTES FIRST (OUTERMOST) LAYER OF BOTTOM REINF. B2 DENOTES SECOND LAYER OF BOTTOM REINF.. ETC

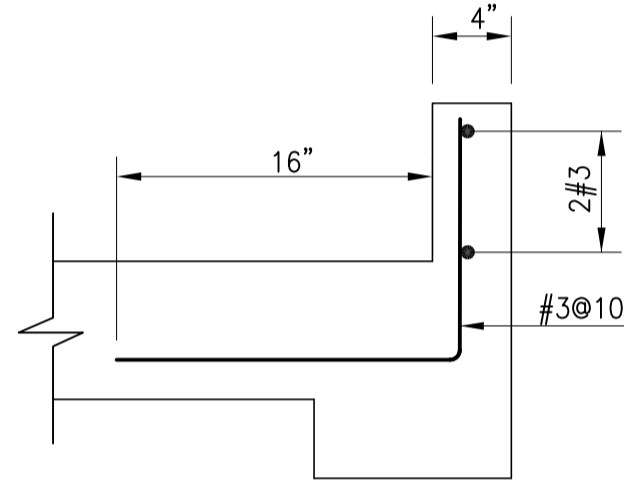
**F** NOTATION FOR PLACEMENT OF REINFORCEMENT  
SCALE N.T.S



**G** CANTILEVER SLAB  
SCALE N.T.S  
MULTIPLE LAYERS OF REINF. ARE NUMBERED IN ASCENDING ORDER FROM THE OUTERMOST LAYER INWARDS AS SHOWN BELOW:



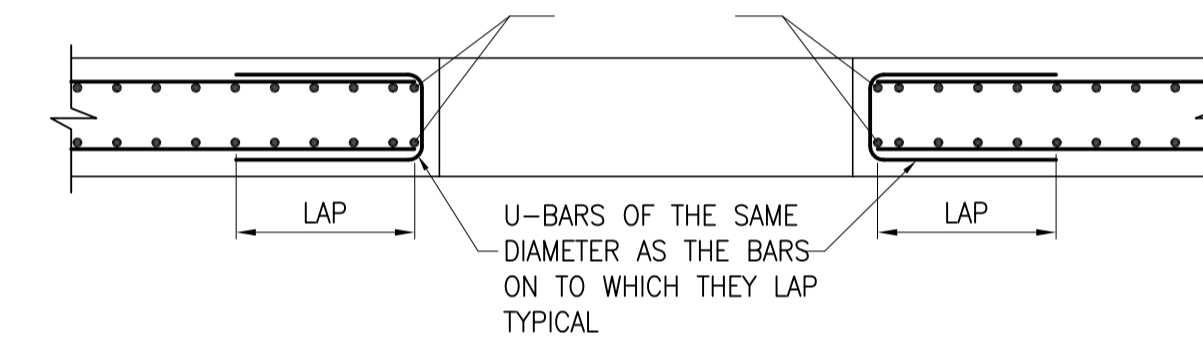
**H** 1 UPSTAND FROM SLAB  
SCALE N.T.S



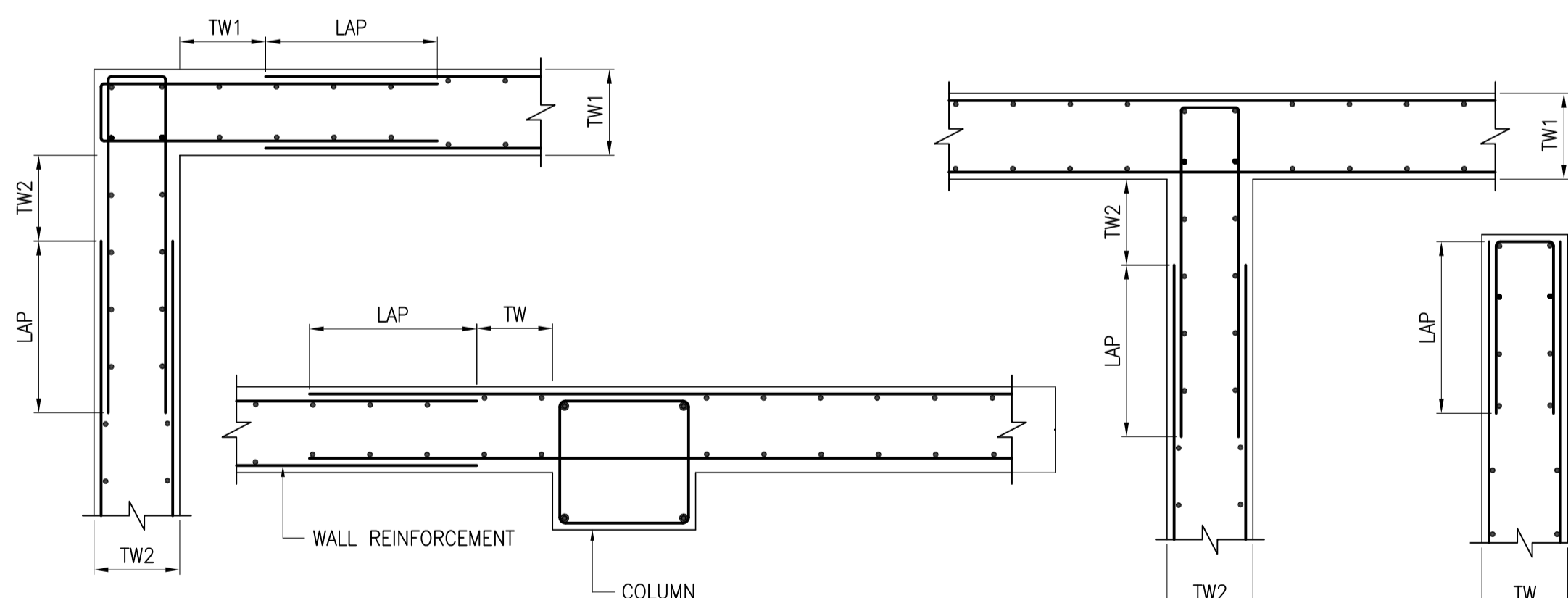
**H** 2 UPSTAND FROM BEAM  
SCALE N.T.S

**H** TYPICAL OPENING UPSTAND REINFORCEMENT DETAIL  
SCALE N.T.S

TRIMMER BARS

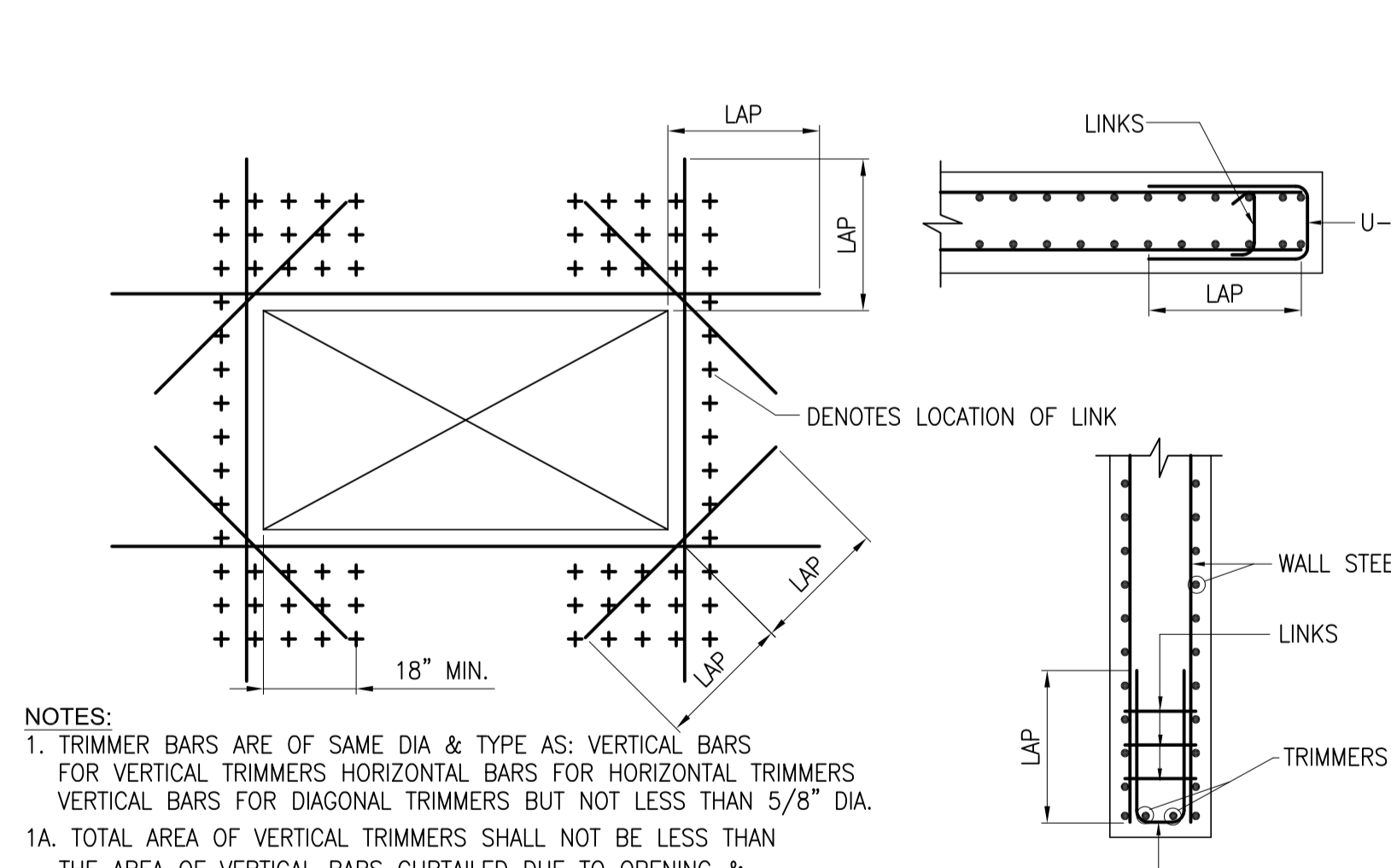


**I** TRIMMING OF OPENINGS IN SLABS  
SCALE N.T.S



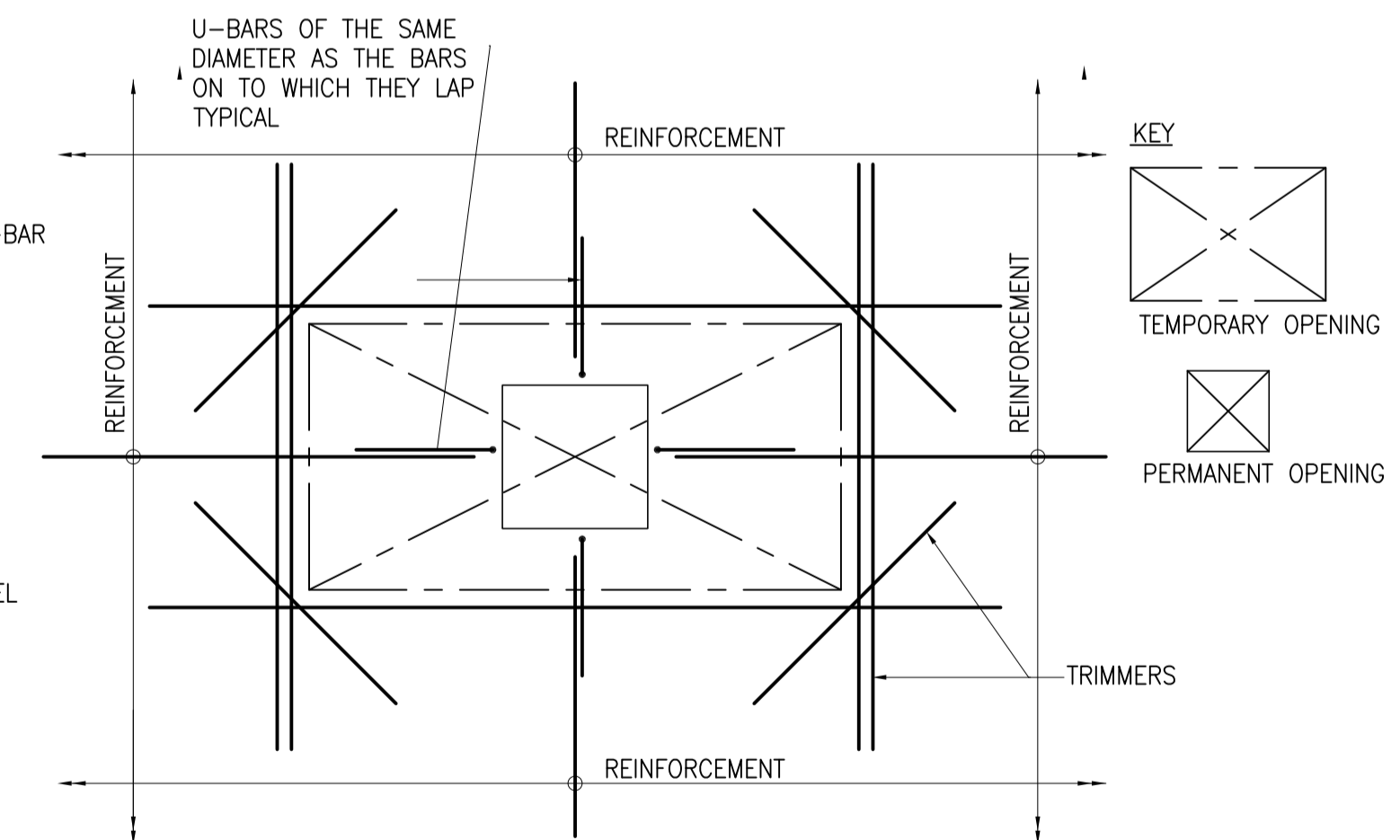
NOTES:  
1. TW, TW1 & TW2 ARE WALL THICKNESSES

**J** WALL JUNCTION DETAILS  
SCALE N.T.S



NOTES:  
1. TRIMMER BARS ARE OF SAME DIA & TYPE AS: VERTICAL BARS FOR VERTICAL TRIMMERS HORIZONTAL BARS FOR HORIZONTAL TRIMMERS VERTICAL BARS FOR DIAGONAL TRIMMERS BUT NOT LESS THAN 5/8" DIA.  
1A. TOTAL AREA OF VERTICAL TRIMMERS SHALL NOT BE LESS THAN THE AREA OF VERTICAL BARS CURTAILED DUE TO OPENING & TOTAL AREA OF HORIZONTAL TRIMMERS SHALL NOT BE LESS THAN THE AREA OF HORIZONTAL BARS CURTAILED DUE TO OPENING. THESE TRIMMERS SHALL BE DISTRIBUTED EQUALLY ON BOTH SIDES OF OPENING  
2. LINKS SHALL BE #3 BARS AND SHALL CONFORM WITH THE SPACING OF WALL REINFORCEMENT, BUT SPACING NOT TO EXCEED 8"  
3. THIS DETAIL APPLIES TO OPENINGS >10".

**K** TRIMMING OF HOLES IN WALLS  
SCALE N.T.S



NOTES:  
1. TRIMMERS ARE FIXED TO TEMPORARY OPENING (BOXOUT) DIMENSIONS. REINFORCEMENT TERMINATES AT PERMANENT OPENING. IF PERMANENT OPENING IS OMITTED THEN REINFORCEMENT IS CONTINUOUS THROUGHOUT UNO.  
2. REINFORCEMENT IS CONTINUOUS THROUGHOUT UNO.

**L** DETAIL WHERE TEMPORARY & PERMANENT OPENINGS ARE CONCURRENT  
SCALE N.T.S



Client :



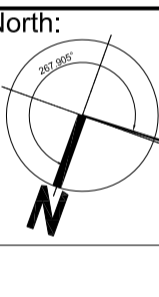
EA Consulting Pvt Ltd  
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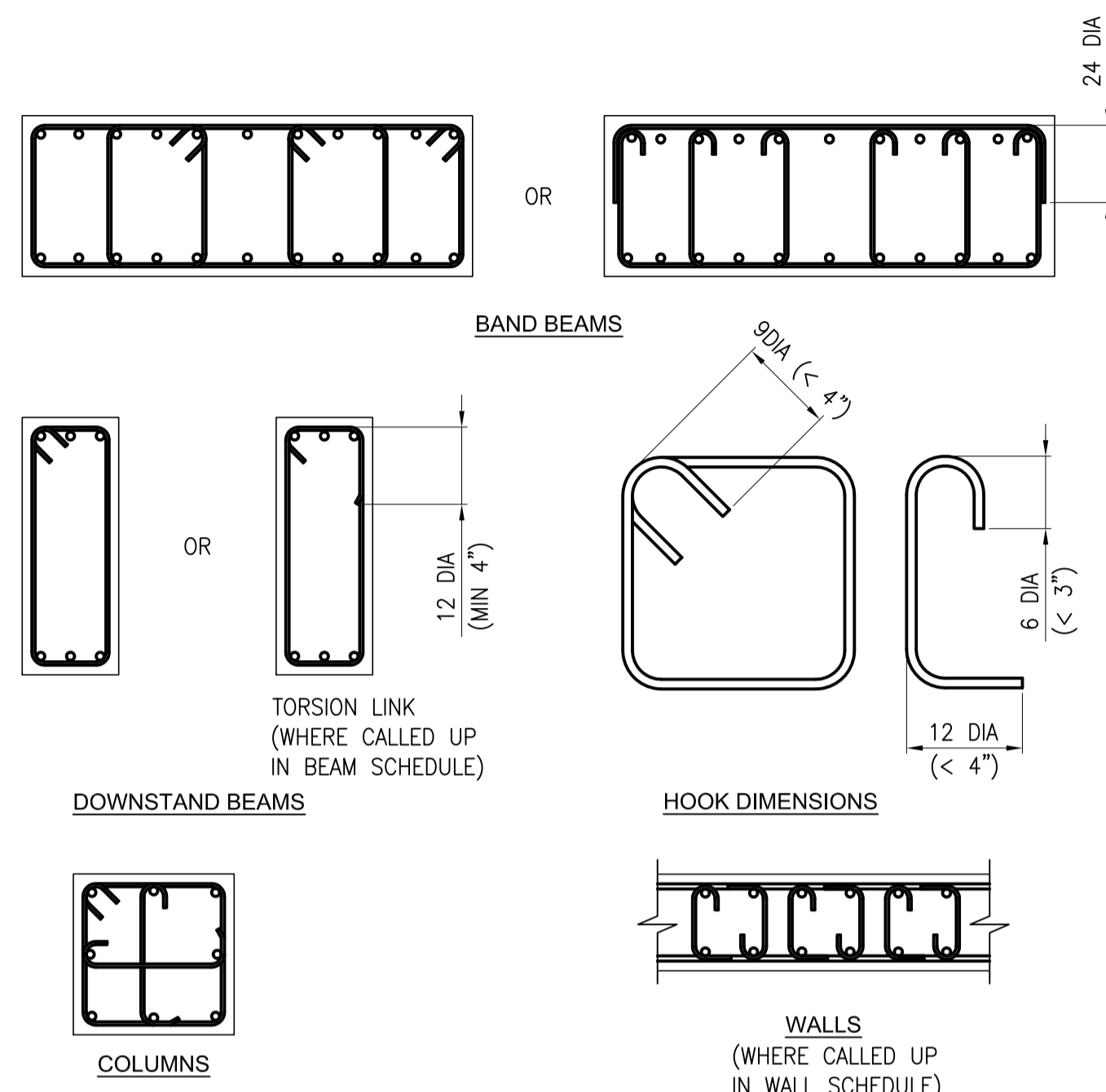
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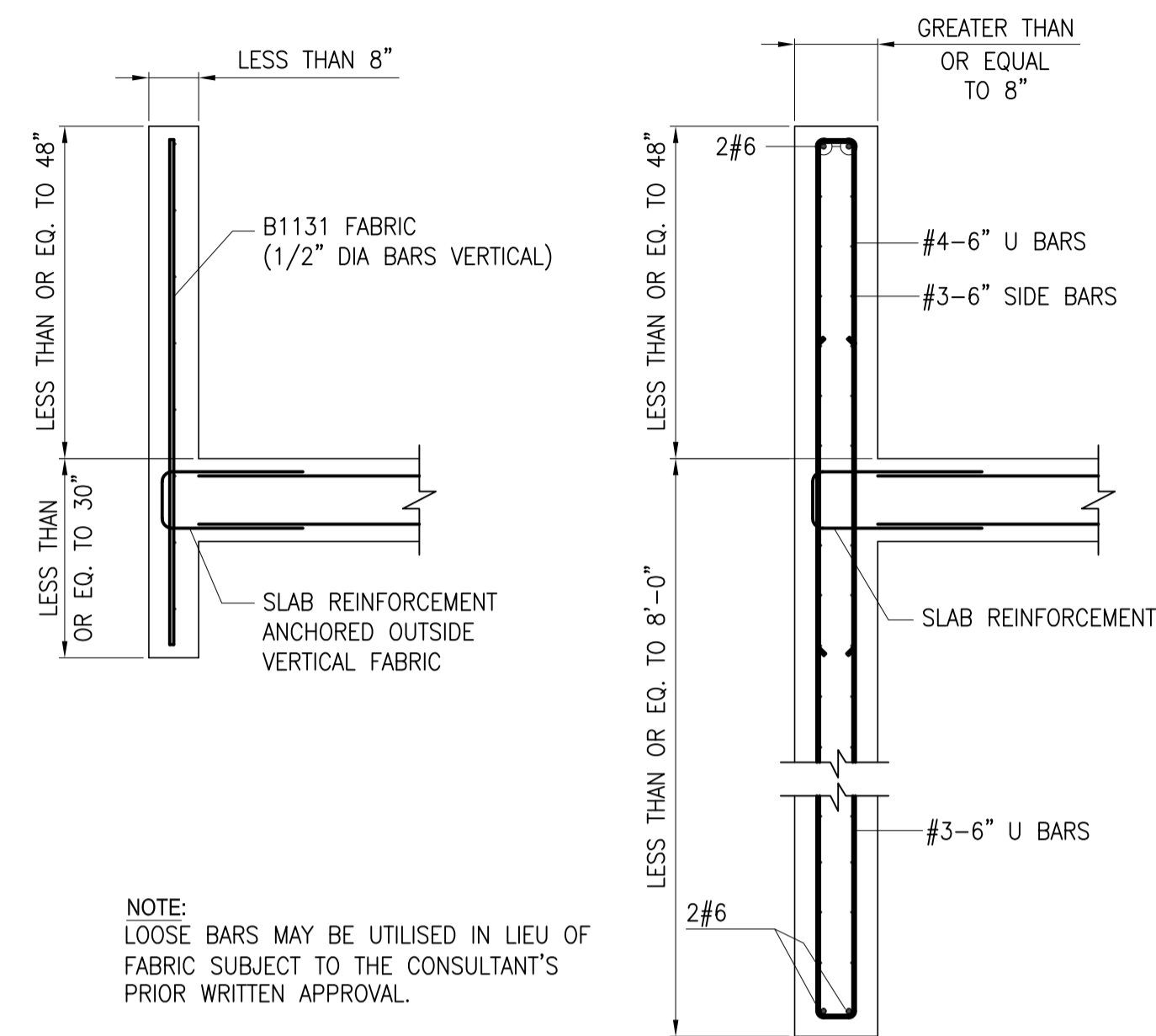
Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title: **STANDARD DETAILS (SHEET 2 OF 5)**

Designed :	Checked :	Approved :
HA	HA	AKM
Drawn :	Date :	Scale / Sheet :
MMK	April, 2018	AS SHOWN
Project Code :	00986	Rev. : 0
Drawing No. :	EA-986-GEN-S-0012	

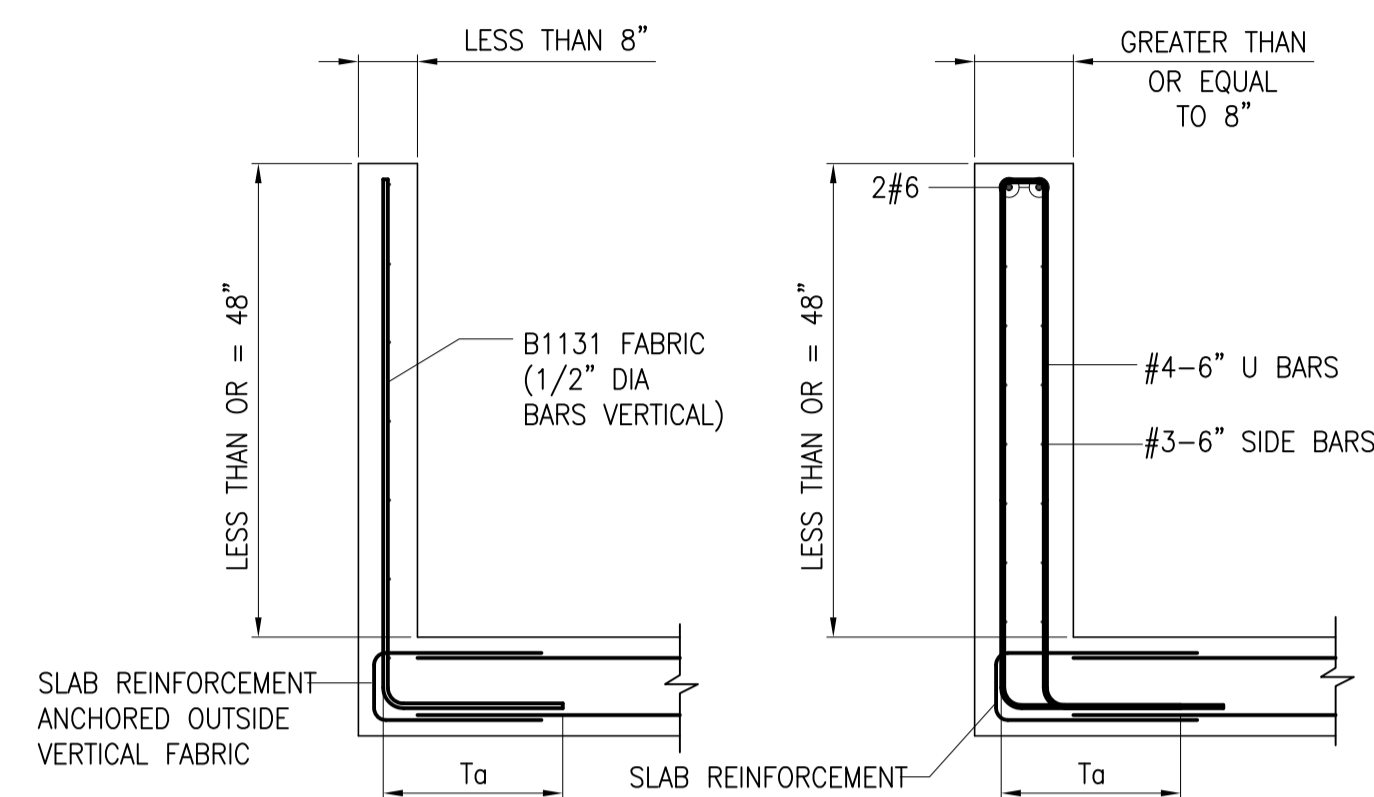


**A** TYPICAL LINK SHAPES  
SCALE N.T.S



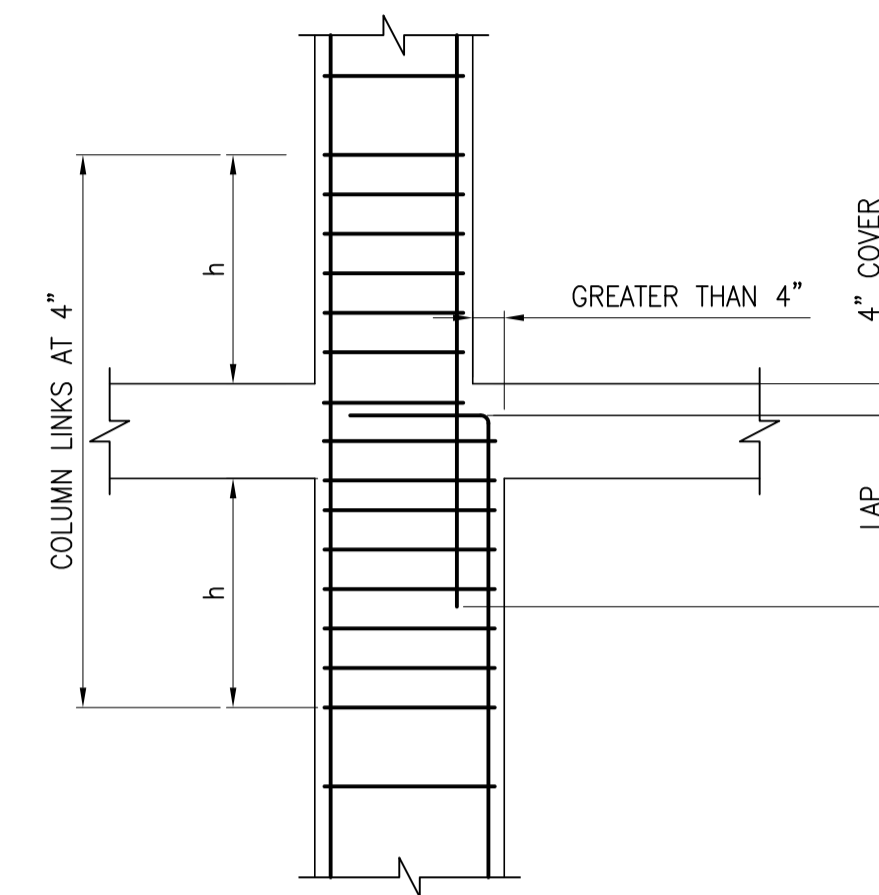
NOTE:  
LOOSE BARS MAY BE UTILISED IN LIEU OF FABRIC SUBJECT TO THE CONSULTANT'S PRIOR WRITTEN APPROVAL.

**B** UPSTAND/DOWNSTAND REINFORCEMENT  
SCALE N.T.S

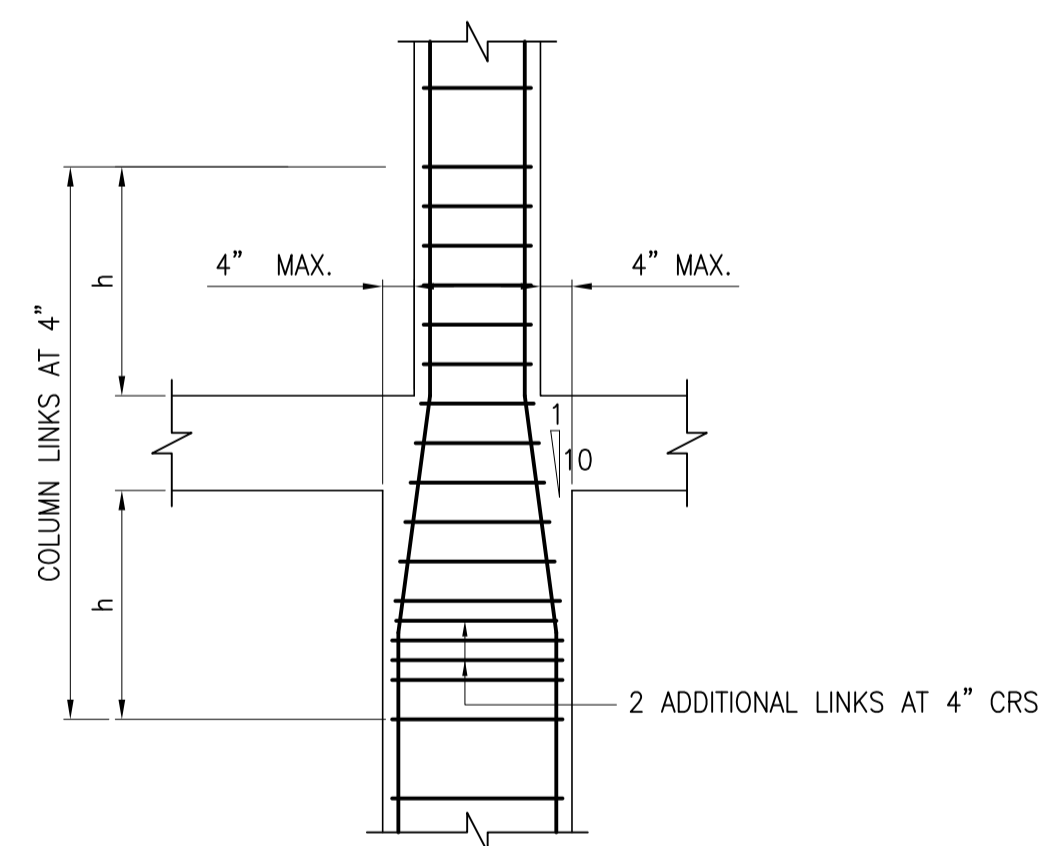


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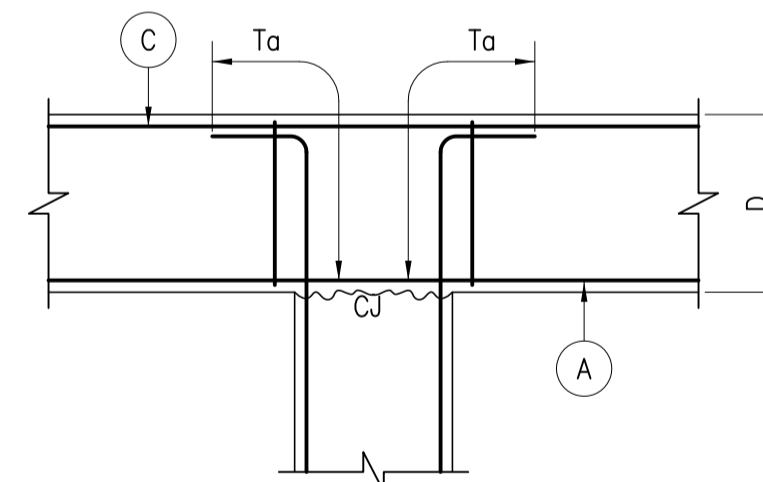
**C** UPSTAND REINFORCEMENT  
SCALE N.T.S



**D** SYMMETRICAL COLUMN JUNCTION SHOWN WITH STEP GREATER THAN 4"  
SCALE N.T.S  
NOTE:  
WHERE STEP IS 4" OR LESS CRANKED BARS MAY BE USED SIMILAR TO DETAIL B



**E** SYMMETRICAL COLUMN JUNCTION SHOWN WITH STEP 4" OR LESS  
SCALE N.T.S  
NOTE:  
1. WHERE STEP IS GREATER THAN 4" BARS FROM LARGER COLUMN TO BE BENT AT 90° AND TERMINATED AS SHOWN IN DETAIL 1.



**F** COLUMN BEAM JUNCTION DETAIL SHOWN WITH STEP 4" OR LESS  
SCALE N.T.S

Client :



Consultant :



**EA Consulting Pvt Ltd**

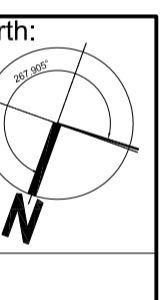
Head Office: AL-9, 15th Lane, Khayaban-e-Hayat, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
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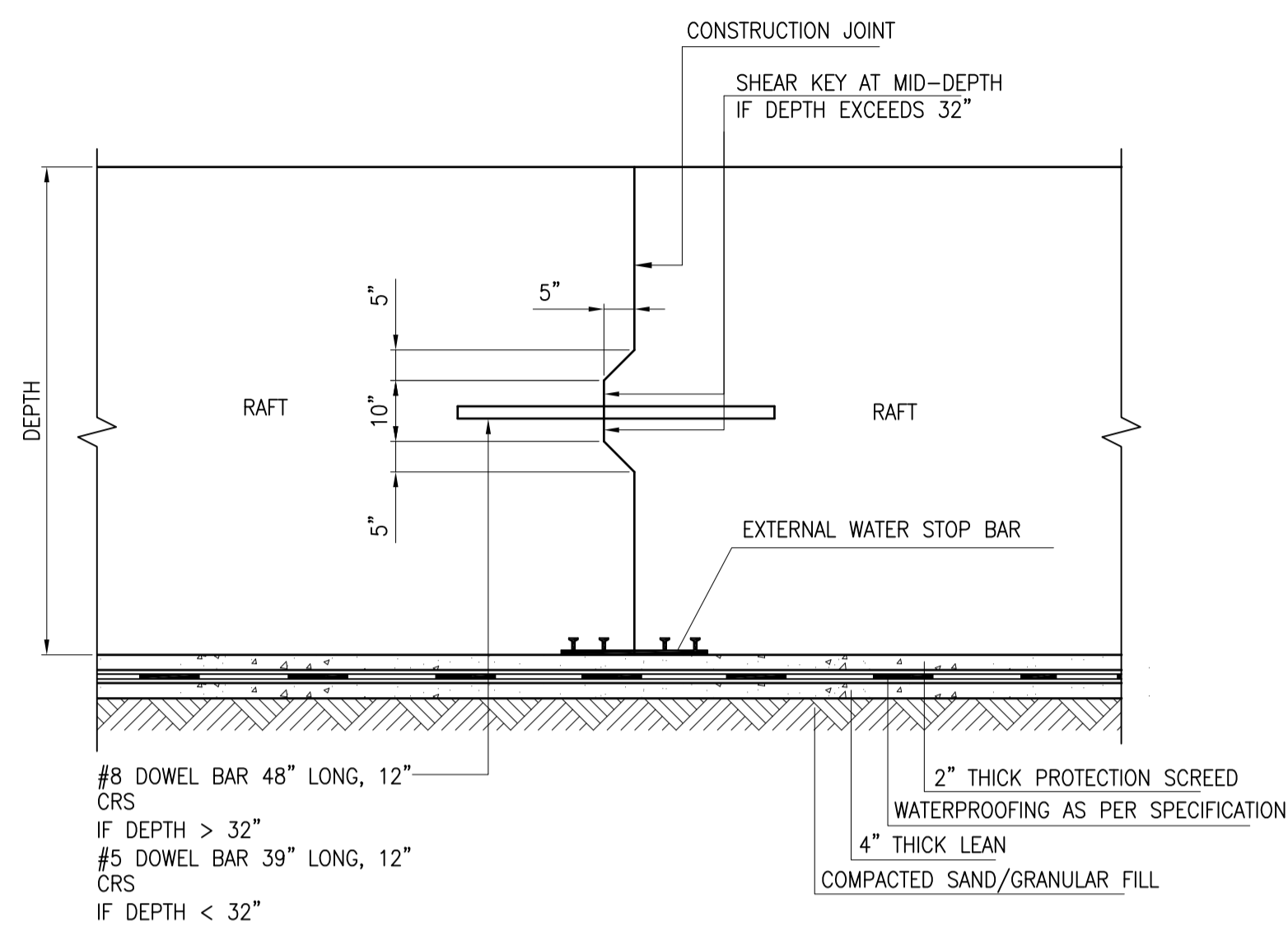
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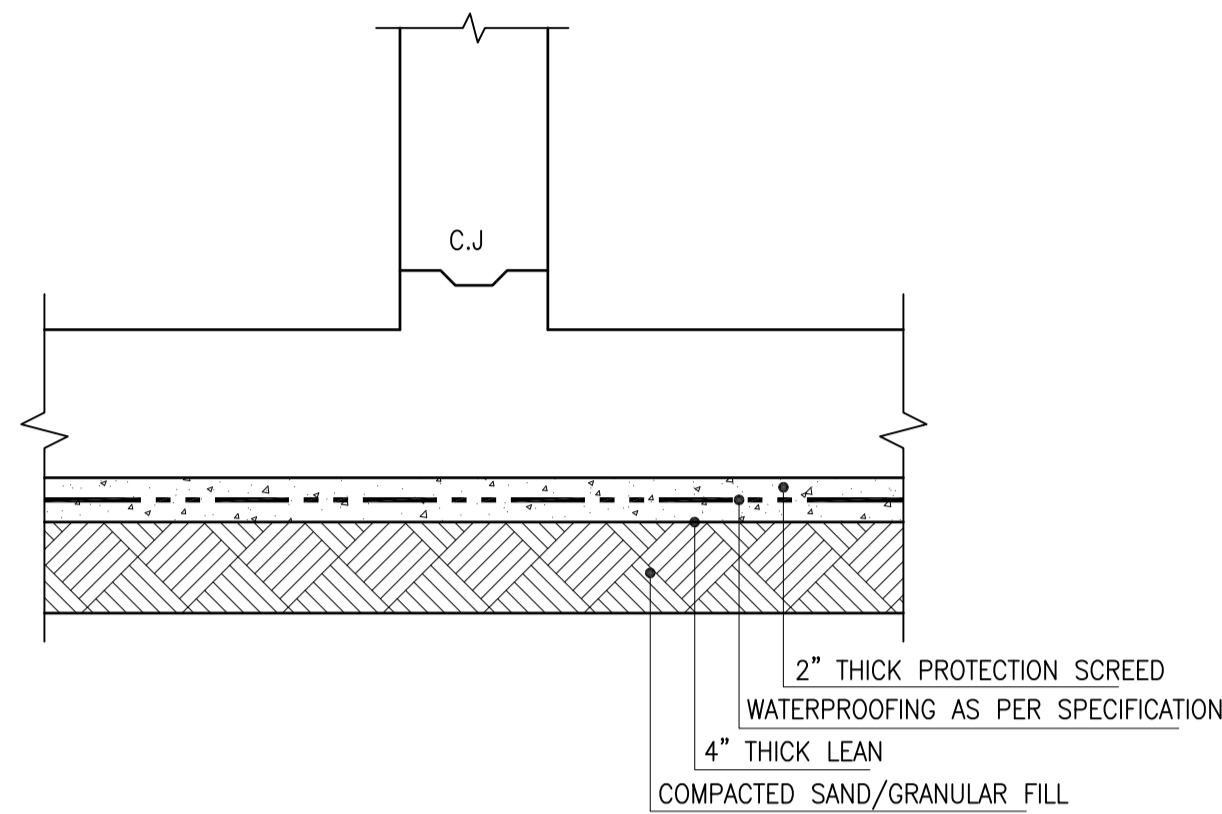
Drawing Title: **STANDARD DETAILS (SHEET 3 OF 5)**

Designed :	Checked :	Approved :
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Drawn :	Date :	Scale / Sheet :
MMK	April, 2018	AS SHOWN
Project Code :	00986	Rev. : 0

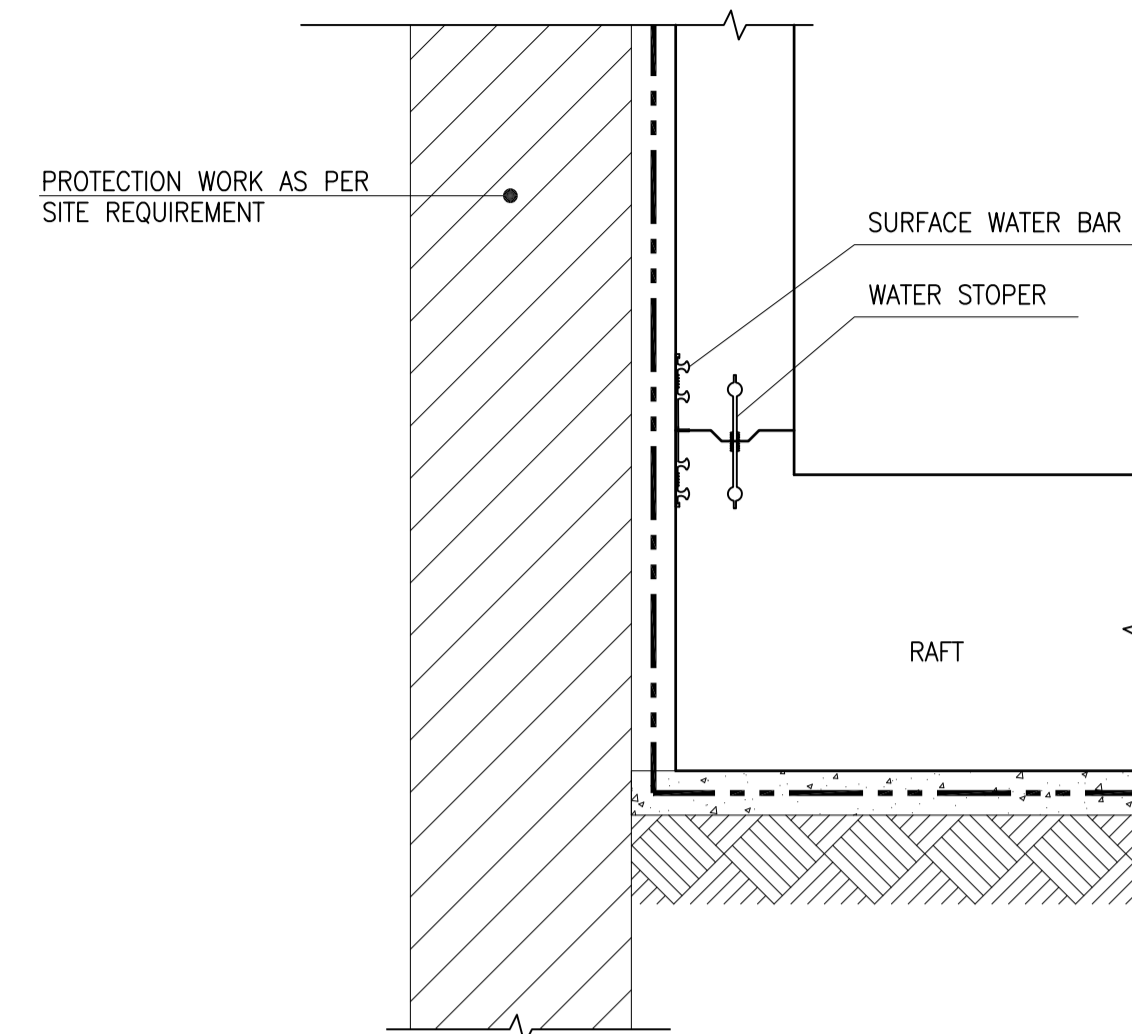
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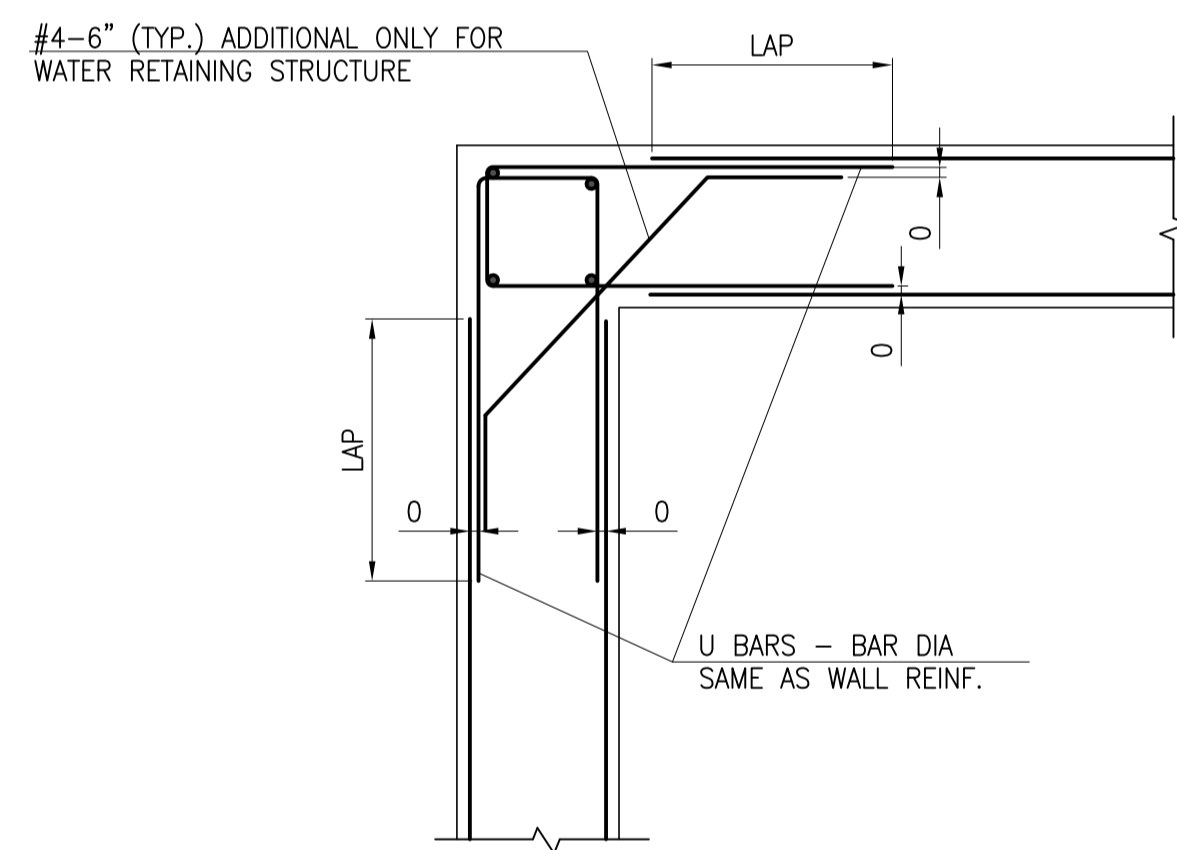
**A** DETAIL OF CONSTRUCTION JOINT IN RAFT  
SCALE N.T.S



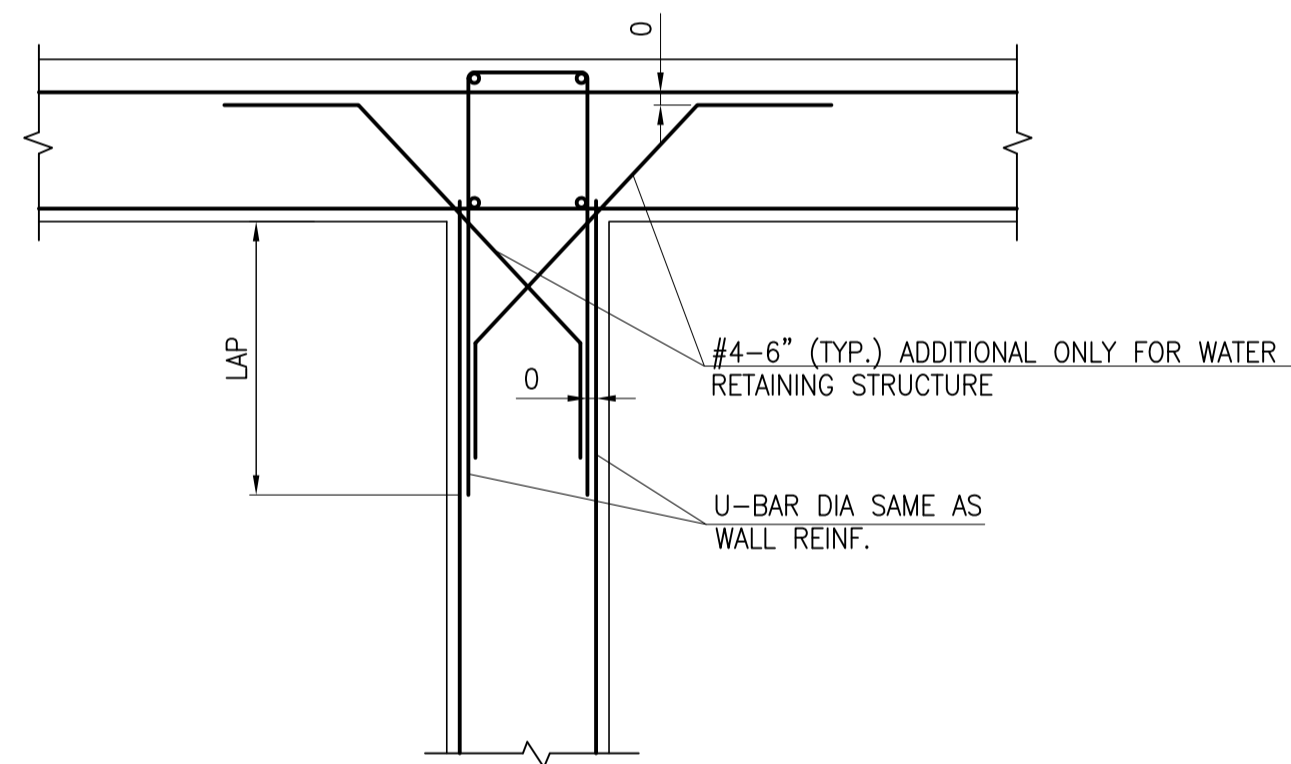
**B** WATER PROOFING DETAIL FOR LIFT FOUNDATION  
SCALE N.T.S



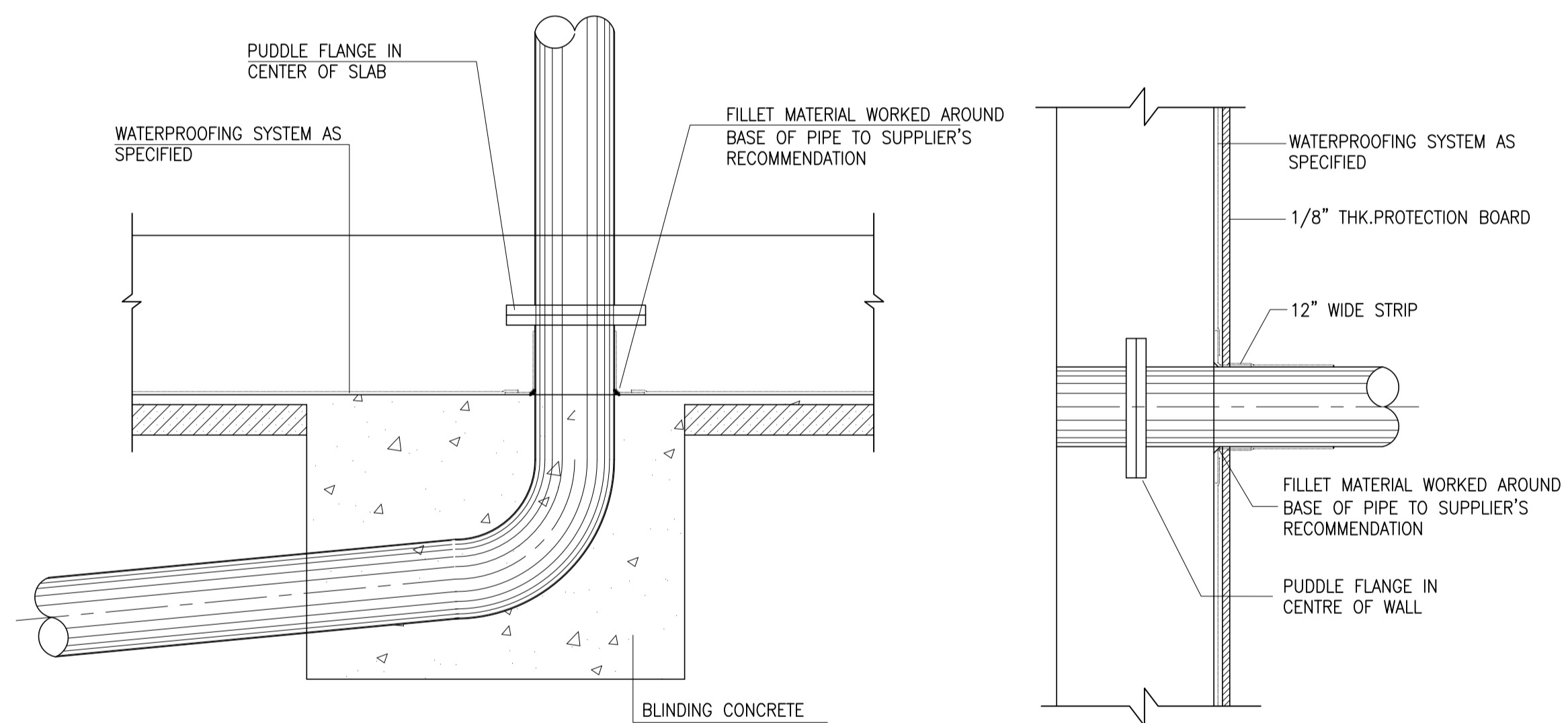
**C** TYPICAL WATER STOPPER DETAIL  
SCALE N.T.S



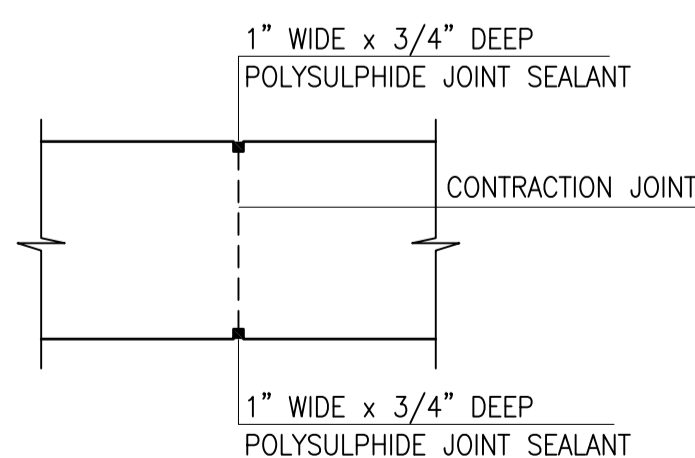
**D** TYPICAL CORNER DETAIL  
FOR WATER TANK WALL U.N.O  
SCALE N.T.S



**E** TYPICAL INTERSECTION DETAIL  
FOR WATER TANK WALL U.N.O  
SCALE N.T.S



**F** TYPICAL SERVICE ENTRY DETAIL  
IN FOUNDATION / WALL / SLAB  
SCALE N.T.S



**G** TYPICAL CONTRACTION JOINT PLAN  
SCALE N.T.S

Client :



Consultant :



**EA Consulting Pvt Ltd**

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Project :

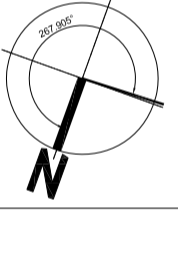
**DEVELOPMENT OF  
SMIU CAMPUS  
KARACHI**

Key Plan :

Note:

- All Dimensions to be confirmed on site with architect.
- Do not scale.
- Only written dimensions to be followed.
- Any discrepancies to be clarified with the architect.
- For structure details refer, structure engineer drawings / details

North:



No.	DATE	DESCRIPTION
0	25-05-2018	ISSUED FOR TENDER

Date of Issue	May 25, 2018
Issued To	Client
Issued For	Tender

**STRUCTURE**

Status:

**TENDER**

Building Name:

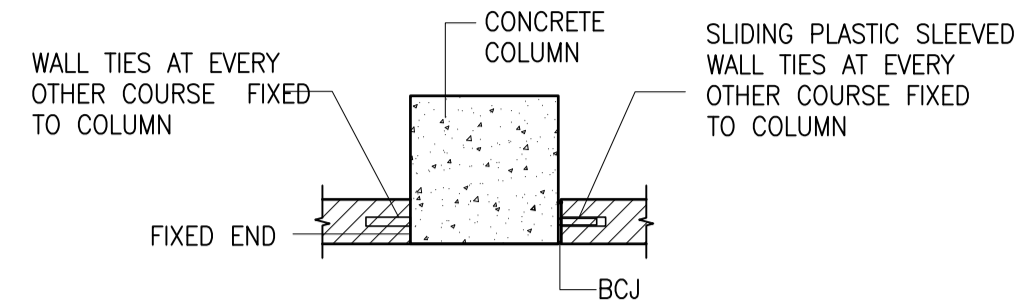
**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title :

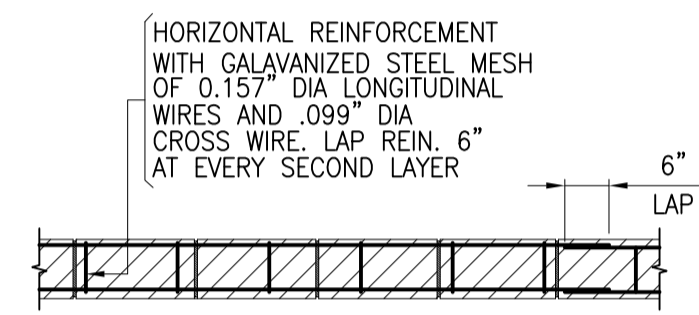
**STANDARD DETAILS  
(SHEET 4 OF 5)**

Designed :	Checked :	Approved :
HA	HA	AKM
Drawn :	Date :	Scale / Sheet :
MMK	April, 2018	AS SHOWN
Project Code :	00986	Rev. : 0

Drawing No. : EA-986-GEN-S-0014

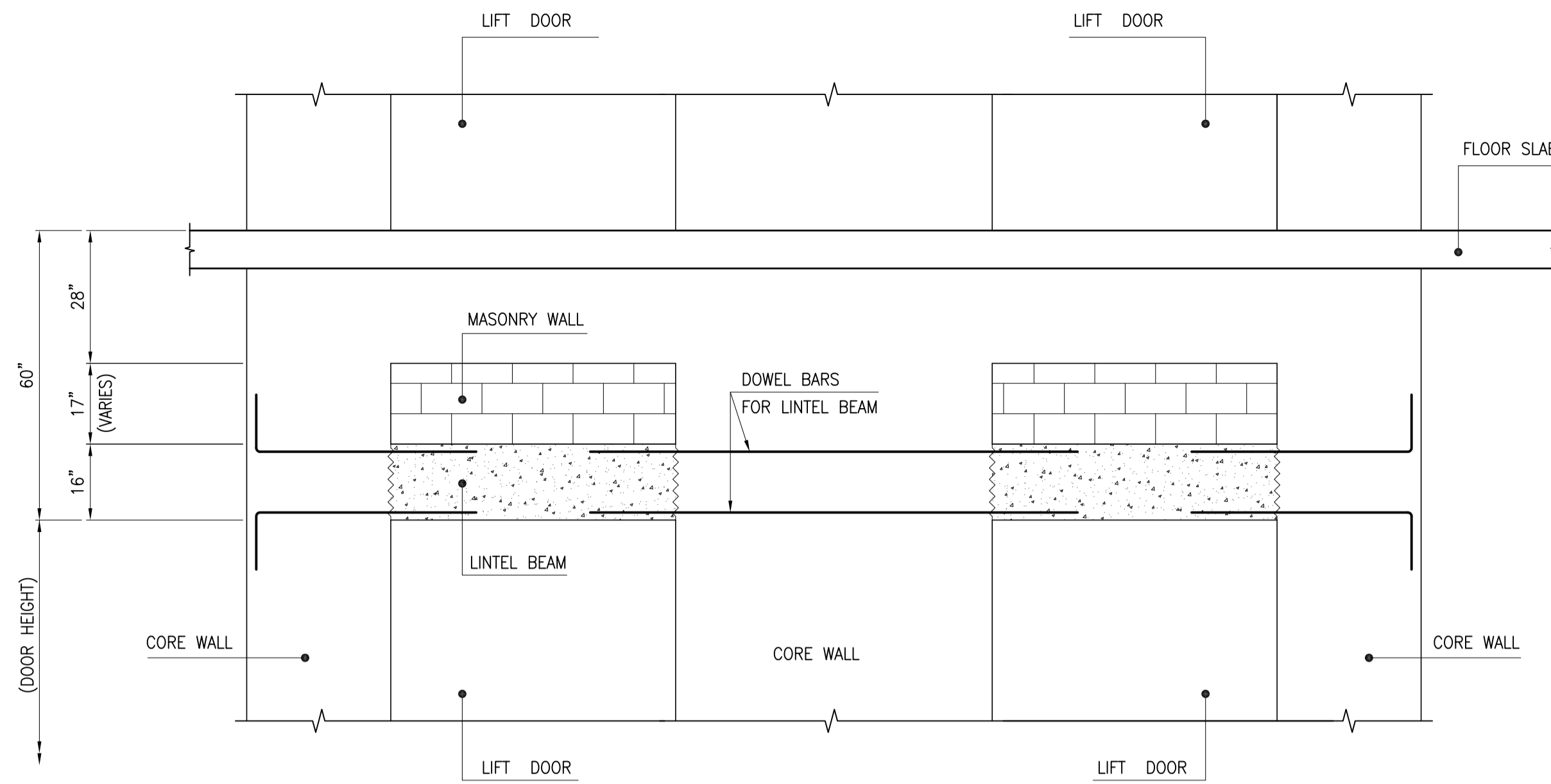


**TYPICAL COLUMN AND BLOCK WORK JOINT DETAIL**  
SCALE N.T.S.

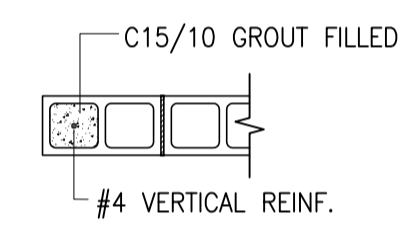


**TYPICAL BED JOINT REINFORCEMENT DETAIL**  
SCALE N.T.S.

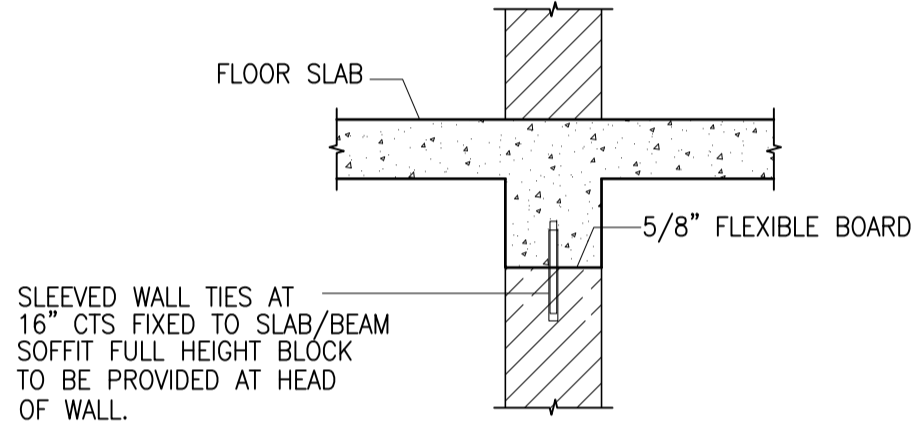
NOTES:-  
1. WALL TIES TO BE PLACED AT 16\"/>



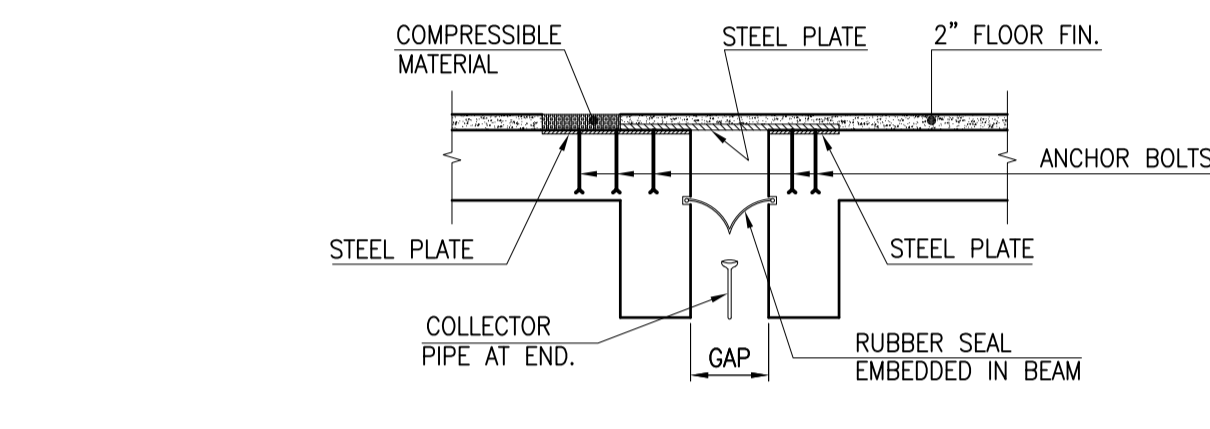
**TYPICAL DETAIL OF LINTEL BEAM OVER LIFT DOOR OPENINGS**  
SCALE N.T.S.



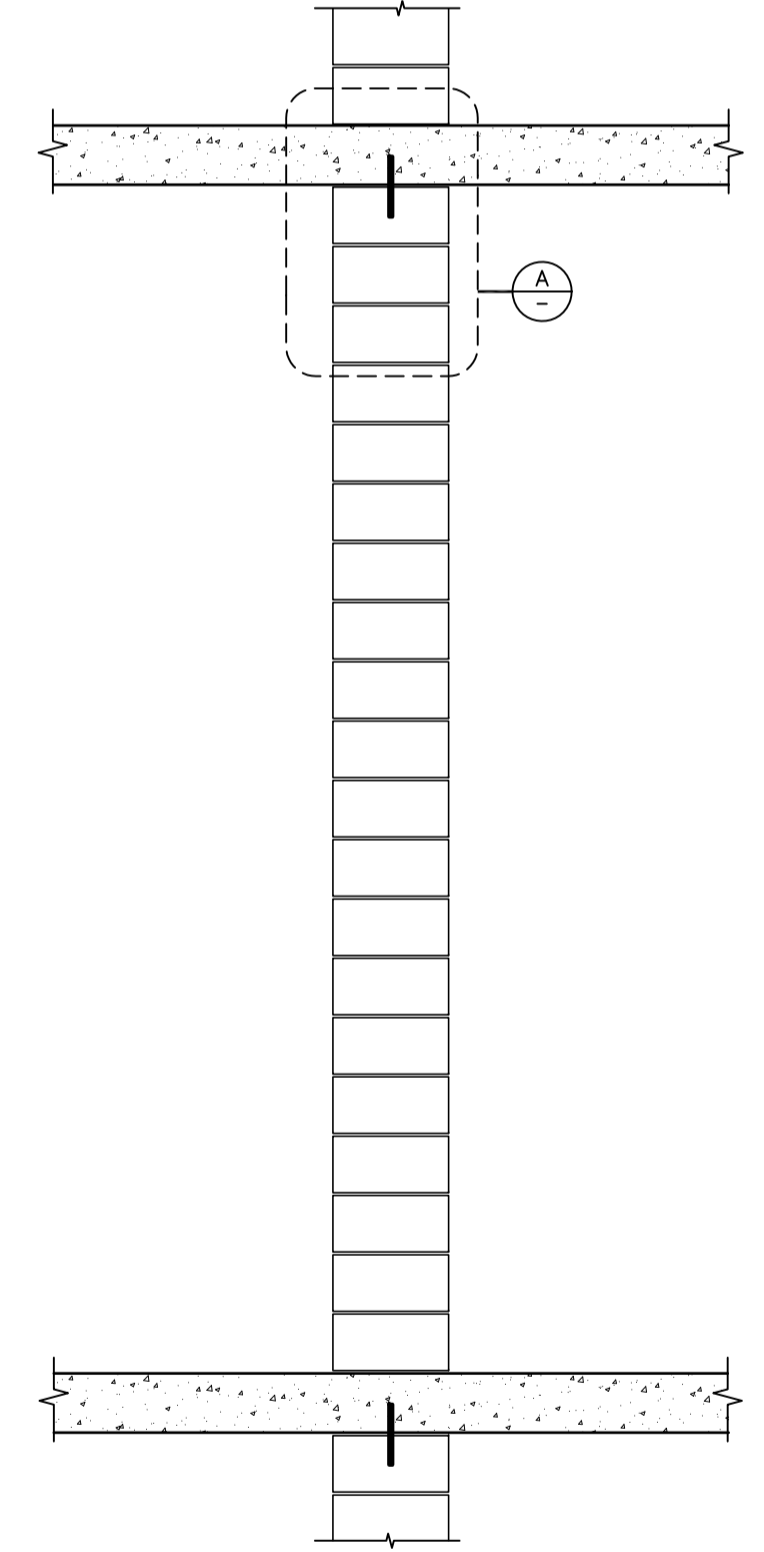
**SECTION 1**  
SCALE N.T.S.



**DETAIL A**  
SCALE N.T.S.



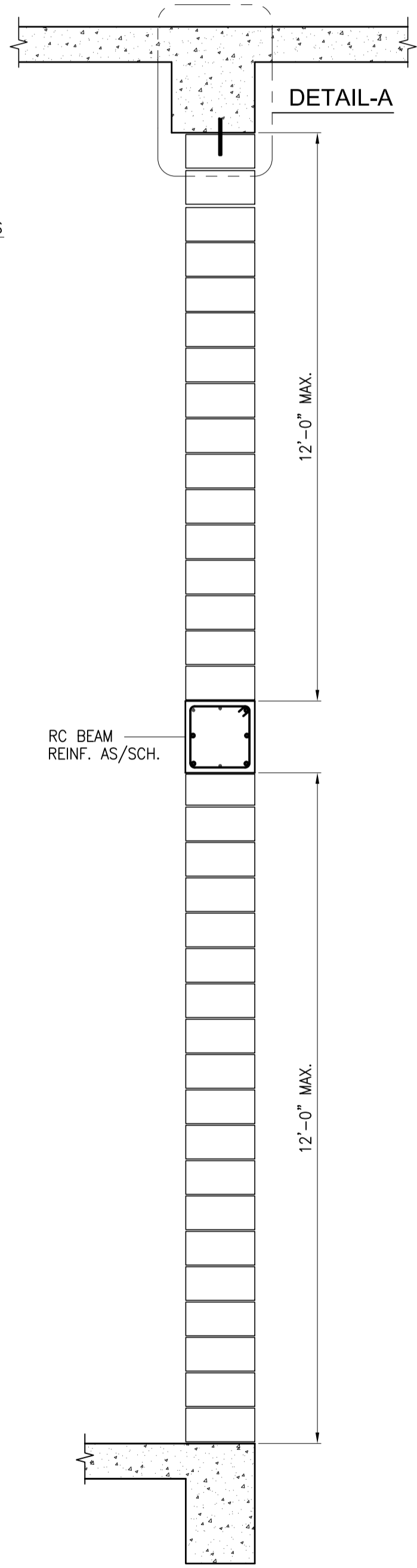
**TYPICAL EXPANSION JOINT DETAIL**  
SCALE N.T.S.



NOTE : ALL INTERNAL WALLS TO BE ANCHORED TO R/C MEMBERS AT TOP, BOTTOM AND BOTH SIDES. AND SHALL HAVE HORIZONTAL AND VERTICAL STIFFENING MEMBERS.

NOTE : DESIGN AND WORKMANSHIP OF ALL CONCRETE MASONRY WORK TO COMPLY WITH ACI 530-99/ASCE 5-99/TMS 402-99 AND SPECIFICATIONS.

**DETAIL OF SINGLE HEIGHT MASONRY WALL TO SLAB CONNECTION**  
SCALE N.T.S.

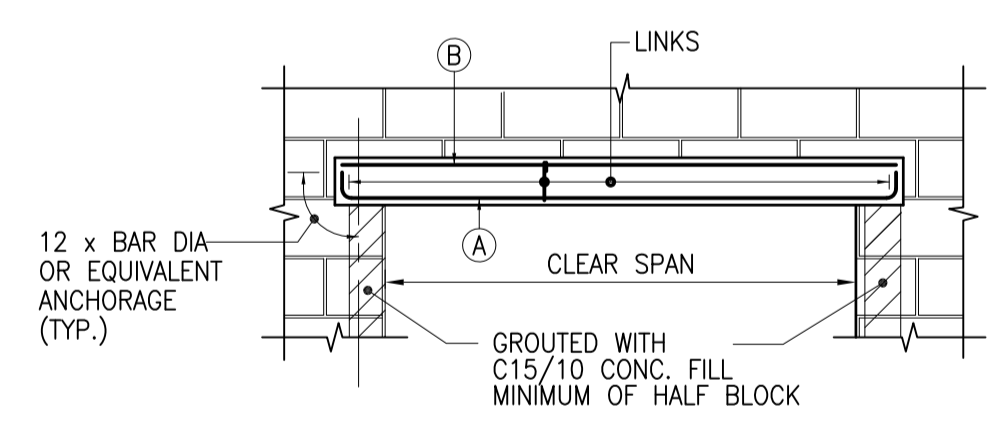


**DETAIL OF SINGLE HEIGHT MASONRY WALL TO SLAB CONNECTION**  
SCALE N.T.S.

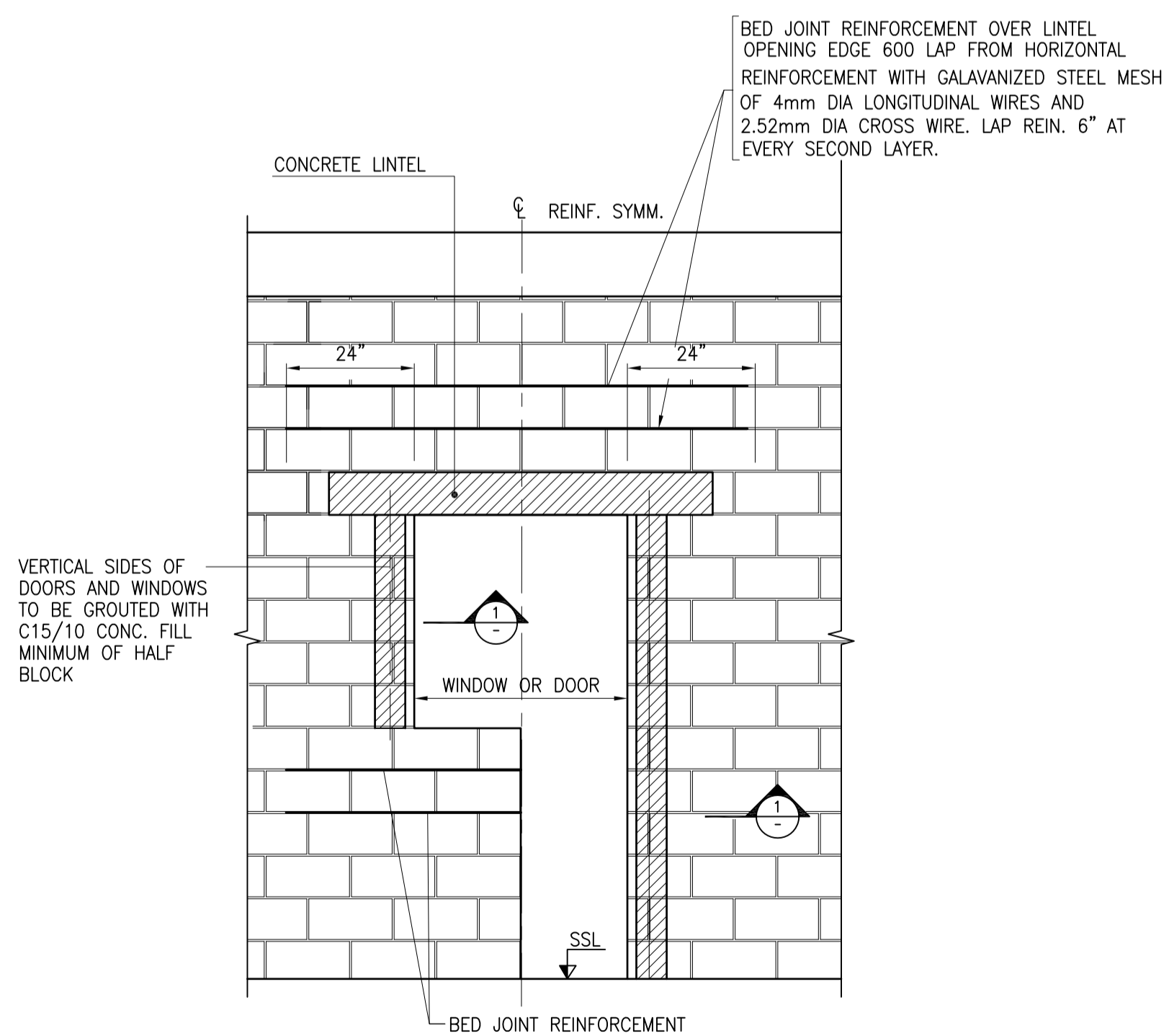
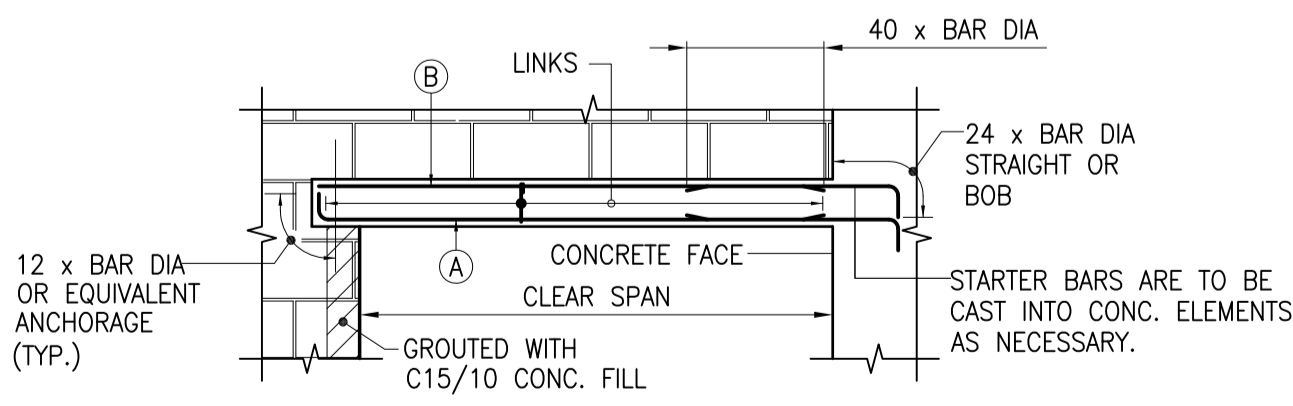
SCHEDULE OF LINTELS UNO.

CLEAR SPAN WIDTH	LINTEL SIZE		REINFORCEMENT		
	WIDTH	DEPTH	A	B	LINKS
3'-0"	8"	6"	2#4	2#4	#3-5"
5'-0"	8"	8"	2#4	2#4	#3-5"
6'-6"	8"	10"	2#5	2#4	#3-5"
8'-0"	8"	12"	2#5	2#4	#3-5"

- NOTES:
- BEARING ON BLOCK WALL ON EITHER SIDE OF OPENING SHALL BE AT LEAST EQUAL TO THE OVERALL DEPTH OF THE LINTEL.
  - OVERALL LINTEL DEPTHS COULD BE INCREASED TO SUIT BLOCK-WORK COURSING.



**TYPICAL STANDARD LINTELS**  
SCALE N.T.S.  
(NON LOAD BEARING BLOCK WALLS)



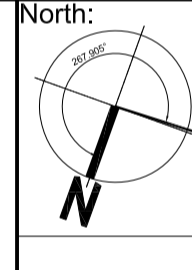
**TYPICAL BLOCK WORK DETAIL WINDOW OR DOOR OPENING**  
SCALE N.T.S.



Client :  
Consultant :  
**EA Consulting Pvt Ltd**  
Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. 111-111-584, Fax No. 584-1825  
Email : info@eaworld.com | www.eaworld.com

**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :  
Note:  
• All Dimensions to be confirmed on site with architect.  
• Do not scale.  
• Only written dimensions to be followed.  
• Any discrepancies to be clarified with the architect.  
• For structure details refer, structure engineer drawings / details



No.	DATE	DESCRIPTION
0	25-05-2018	ISSUED FOR TENDER

Date of Issue : May 25, 2018  
Issued To : Client  
Issued For : Tender

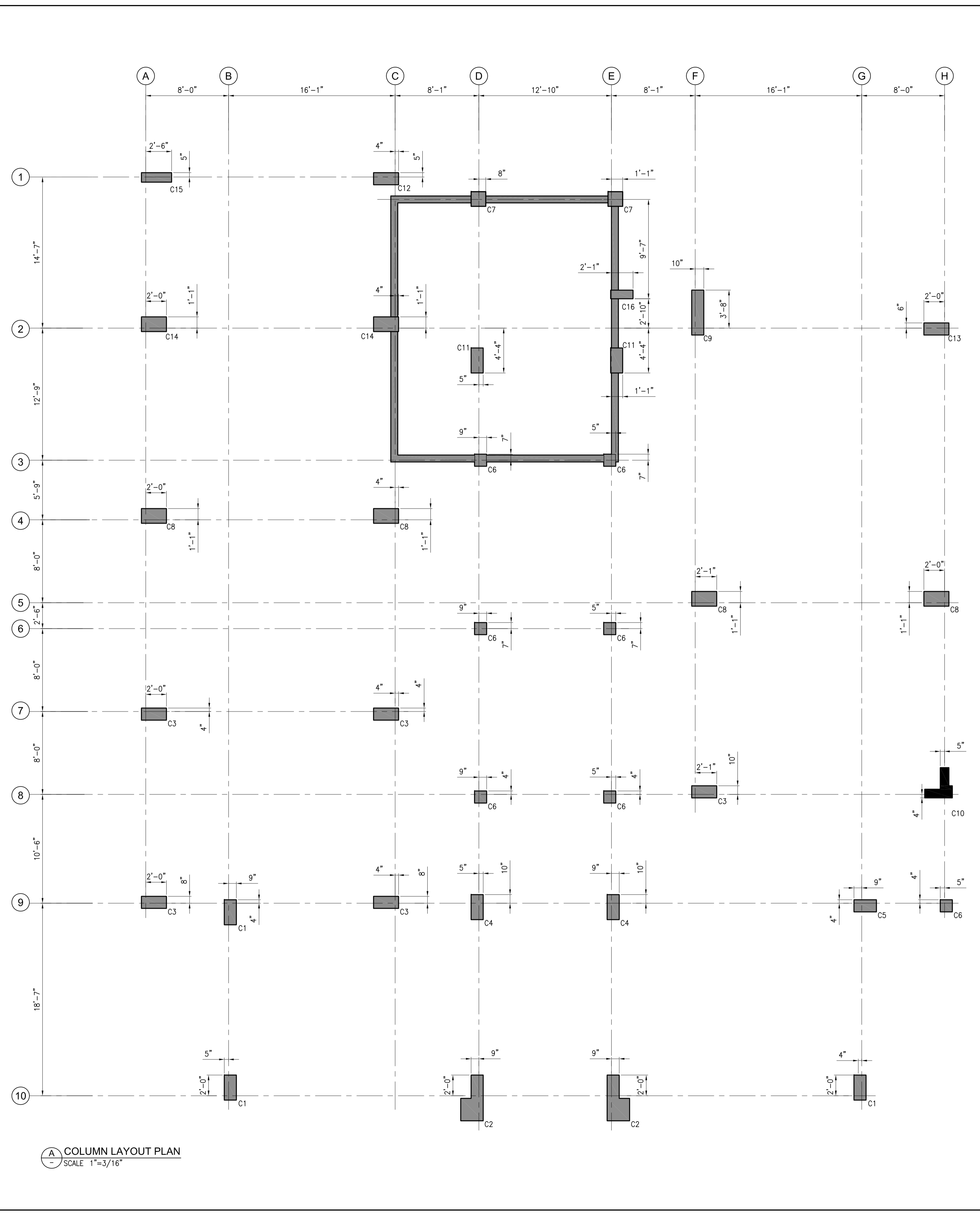
**STRUCTURE**

**TENDER**

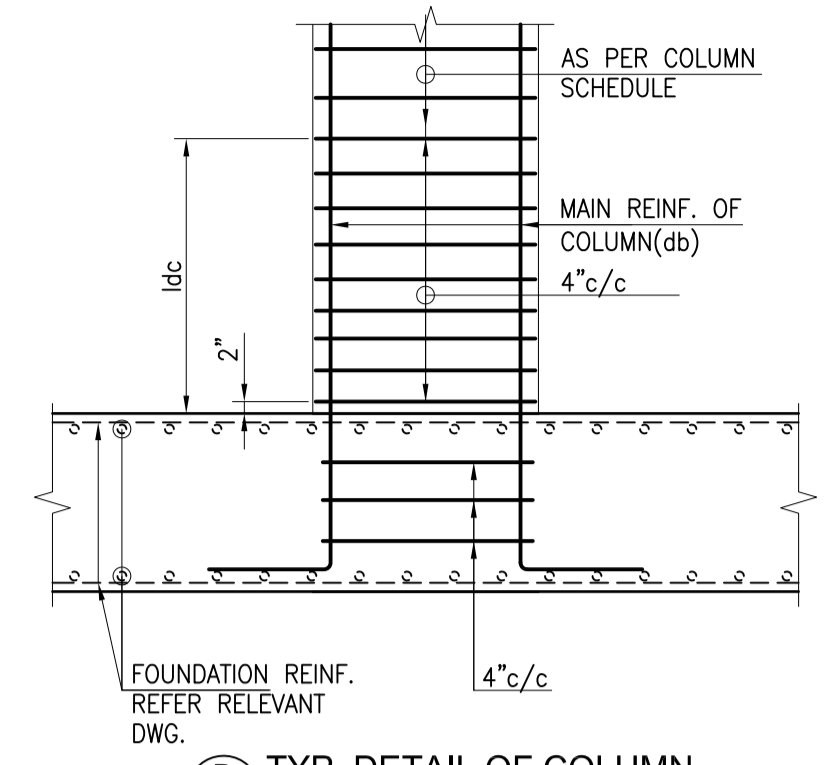
Building Name :  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title :  
**STANDARD DETAILS (SHEET 5 OF 5)**

Designed : HA	Checked : HA	Approved : AKM
Drawn : MMK	Date : April, 2018	Scale / Sheet : AS SHOWN
Project Code : 00986	Rev. : 0	
Drawing No. : EA-986-GEN-S-0015		



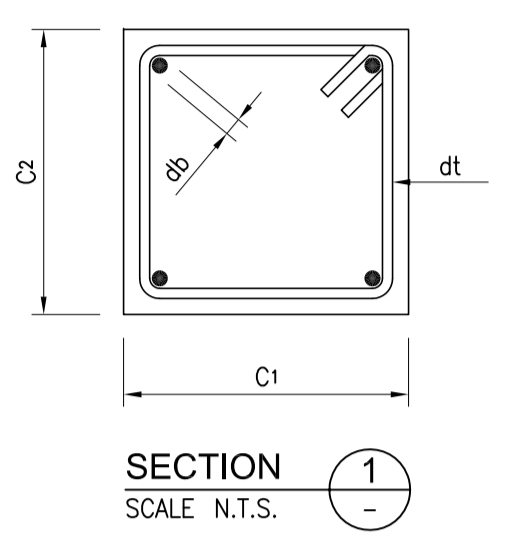
**A** COLUMN LAYOUT PLAN  
SCALE 1"=3/16"



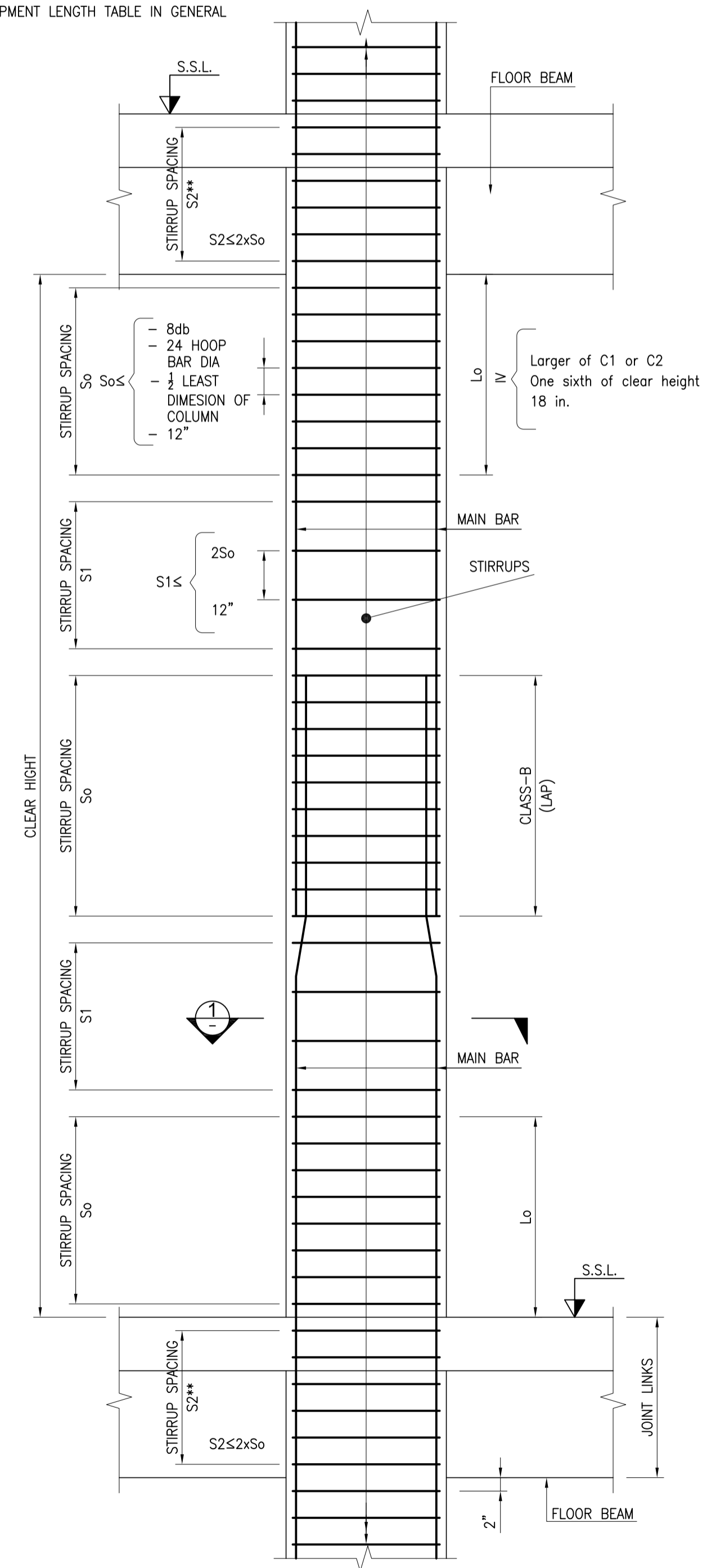
**D** TYP. DETAIL OF COLUMN  
SCALE N.T.S.

- #4 TIES FOR #10 BARS AND ABOVE OR BUNDLE BARS
- #3 TIES FOR #8 BARS AND BELOW.
- FOR  $l_{dc}$  REFER COMPRESSION DEVELOPMENT LENGTH TABLE IN GENERAL NOTES.

- NOTES:-**
- ALL LEVEL ARE IN FEET & INCHES.
  - ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
  - ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH OTHER DISCIPLINES DRAWINGS.
  - FOR GENERAL NOTES REFER DWG. NO. EA-00986-SMS-S-0001.
  - FOR STANDARD DETAILS REFER DWG. NO. EA-00986-SMS-S-0011 TO EA-00986-SMS-S-0015.
  - FOR COLUMN SCHEDULE REFER DWG. NO. EA-00986-SMS-S-0102.
  - FOR U.G.W.TANK DETAILS REFER DWG. NO. EA-00986-SMS-S-5001.



**SECTION 1**  
SCALE N.T.S.



**B** TYP. ELEVATION OF COLUMN  
SCALE N.T.S.

- \* COLUMN LINKS ARE SPECIFIED AS NO @  $S_o/S$  ( $L_o$ )
- \*\*  $S_2 \leq 3d_b$  FOR ALL EXTERIOR COLUMNS, WHERE  $d_b$  IS DIA OF HOOK BAR.



Client:

Consultant:

**EA Consulting Pvt Ltd**  
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Phone No. 111-111-584, Fax No. 584-1825  
Email: info@eaworld.com | www.eaworld.com

Project:

**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan:

Note:

- All Dimensions to be confirmed on site with architect.
- Do not scale.
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- Any discrepancies to be clarified with the architect.
- For structure details refer structure engineer drawings / details

North:

No.	DATE	DESCRIPTION
0	25-05-2018	ISSUED FOR TENDER

Date of Issue	May 25, 2018
Issued To	Client
Issued For	Tender

**STRUCTURE**

Status: **TENDER**

Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title: **COLUMN LAYOUT PLAN & DETAILS**

Designed :	Checked :	Approved :
HA	HA	AKM
Drawn :	Date :	Scale / Sheet :
MMK	April, 2018	AS SHOWN
Project Code :	00986	Rev. : 0
Drawing No. :	EA-986-SMS-S-0101	

UPPER ROOF LEVEL TO ROOF LEVEL	$f_c' = 4000$ psi					
ROOF LEVEL TO 3RD LEVEL	$f_c' = 4000$ psi					
3RD LEVEL TO 1ST LEVEL	$f_c' = 4000$ psi					
1ST LEVEL TO PLINTH LEVEL	$f_c' = 4000$ psi					
PLINTH LEVEL TO FOUNDATION	$f_c' = 4000$ psi					
COLUMN ID		C11	C12	C13	C14	C15

- NOTES:-**
- 1- ALL LEVEL ARE IN FEET & INCHES.
  - 2- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
  - 3- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH OTHER DISCIPLINES DRAWINGS.
  - 4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SMS-S-0001.
  - 5- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-SMS-S-0011 TO EA-00986-SMS-S-0015.
  - 6- FOR COLUMN MARK REFER DWG. NO. EA-00986-SMS-S-0101.



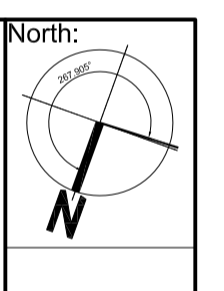
Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
 Head Office: P.O. 15th Lane, Khayaban-e-Hilal Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. 111-111-584, Fax No. 584-1825  
 Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

UPPER ROOF LEVEL TO ROOF LEVEL	$f_c' = 4000$ psi							
ROOF LEVEL TO 3RD LEVEL	$f_c' = 4000$ psi							
3RD LEVEL TO 1ST LEVEL	$f_c' = 4000$ psi							
1ST LEVEL TO PLINTH LEVEL	$f_c' = 4000$ psi							
PLINTH LEVEL TO FOUNDATION	$f_c' = 4000$ psi							
COLUMN ID		C1	C2	C3	C4	C5	C6	C7

Note:  
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0	25-05-2018	ISSUED FOR TENDER
REVISIONS		

Date of Issue : May 25, 2018  
 Issued To : Client  
 Issued For : Tender

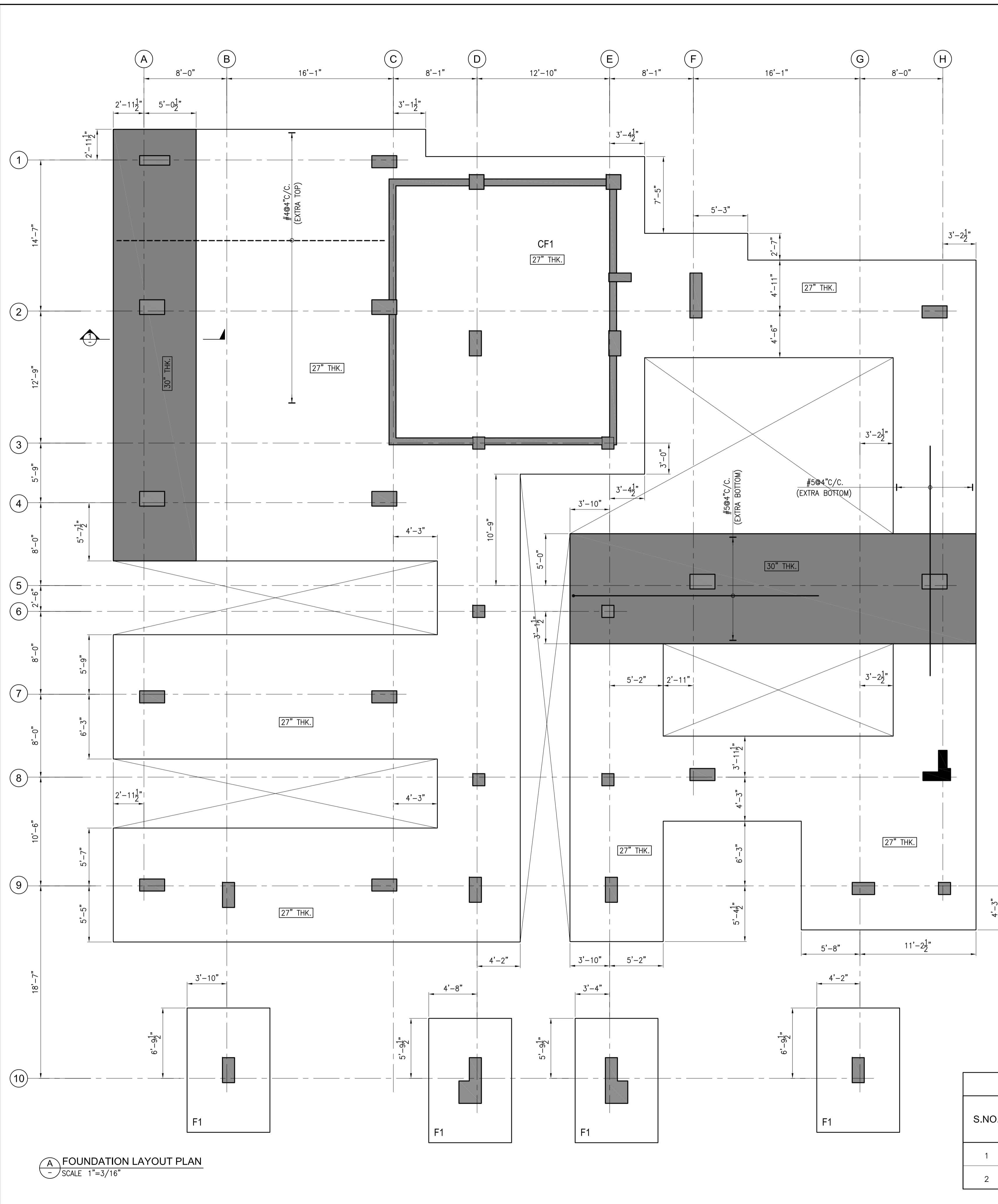
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Status: **TENDER**

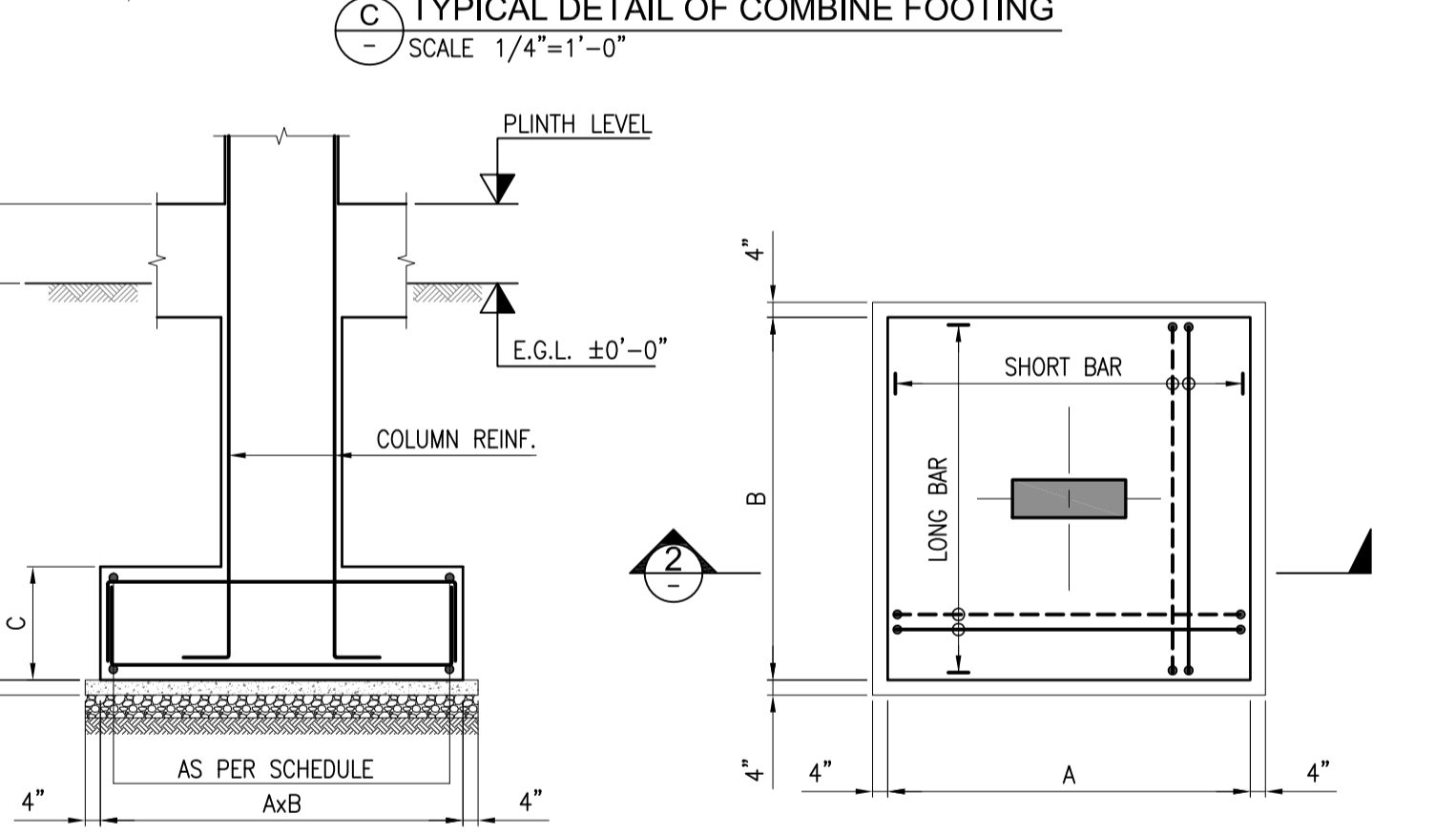
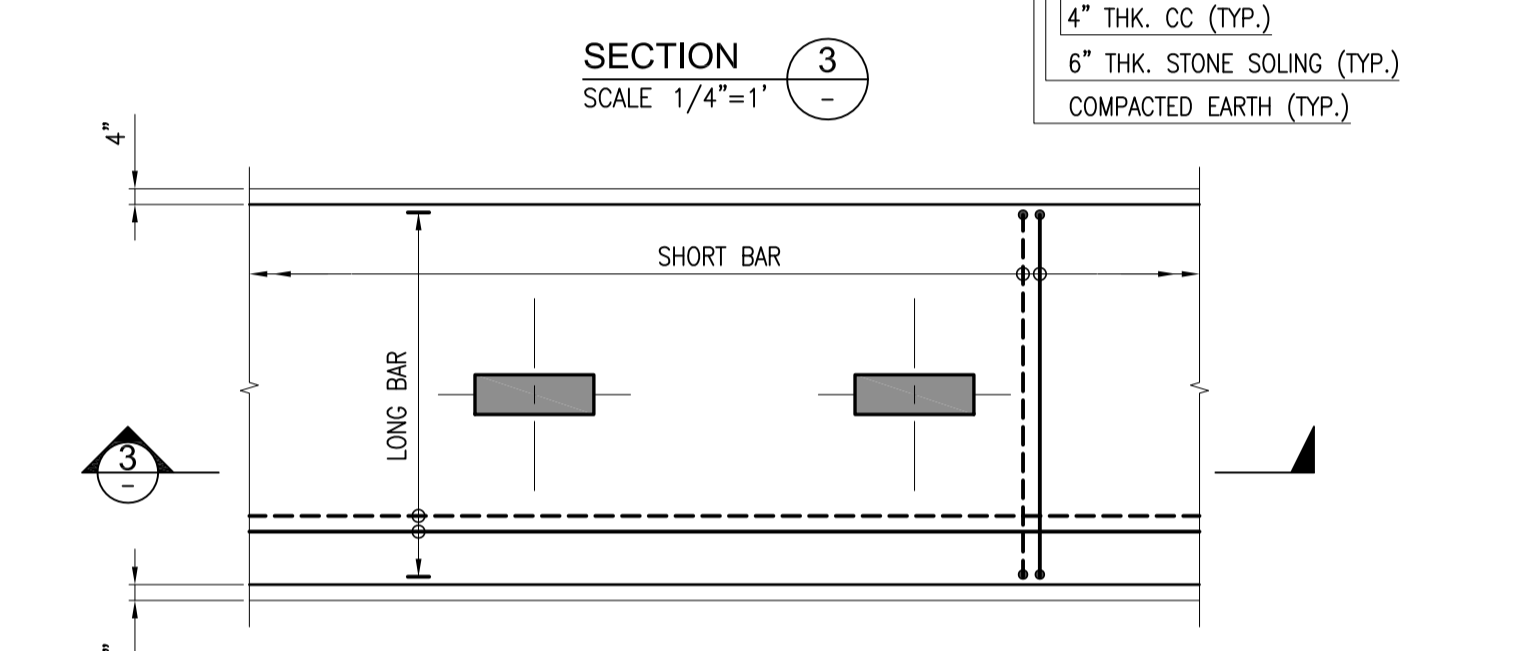
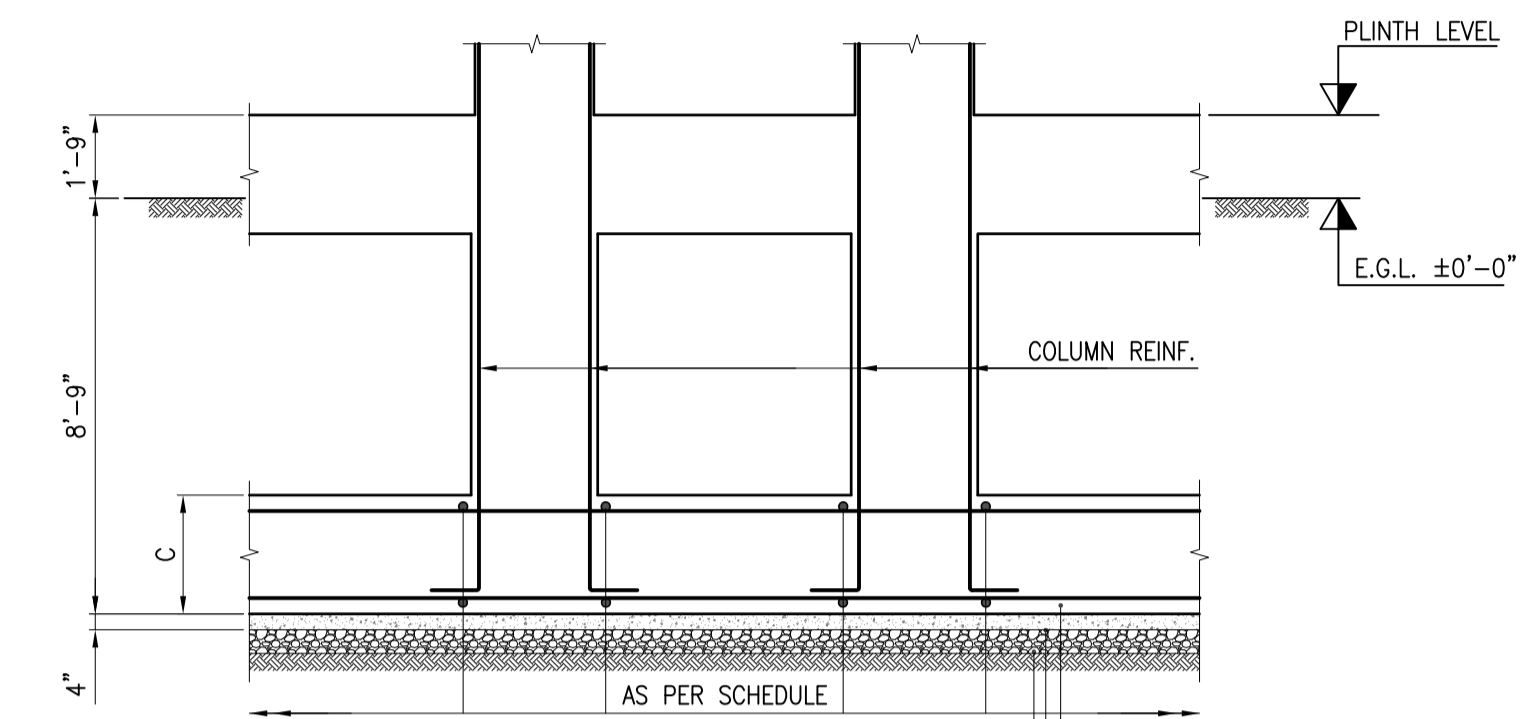
Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title :  
**COLUMN SCHEDULE**

Designed : HA    Checked : HA    Approved : AKM  
 Drawn : MMM    Date : April, 2018    Scale / Sheet : AS SHOWN  
 Project Code : 00986    Rev. : 0  
 Drawing No. : EA-986-SMS-S-0102



- NOTES:-**
- 1- ALL LEVEL ARE IN FEET & INCHES.
  - 2- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
  - 3- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH OTHER DISCIPLINES DRAWINGS.
  - 4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SMS-S-0001.
  - 5- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-SMS-S-0011 TO EA-00986-SMS-S-0015.
  - 6- FOR U.G.W.TANK DETAILS REFER DWG. NO. EA-00986-SMS-S-5001.
  - 7- FOOTING HAS BEEN DESIGNED USING AN ALLOWABLE BEARING CAPACITY OF 1.5 TSF AT DEPTH OF 8.25-10.0 FEET FROM E.C.L. THIS SHOULD BE VERIFIED PRIOR TO START OF CONSTRUCTION.
  - 8- IT IS IMPORTANT TO NOTE THAT BEFORE PLACING FOUNDATION CONCRETE THE EXCAVATIONS SHOULD BE CAREFULLY INSPECTED TO ENSURE THAT FILL HAS BEEN CROSSED AND FOUNDATIONS ARE BEING PLACED IN COMPETENT SOIL. THIS PRECAUTION IS NECESSARY TO GUARD AGAINST LOCALIZED FILLS AND INHOMOGENITIES.



SCHEDULE OF FOOTING										
S.NO.	FOOTING	FOOTING SIZE			FOOTING THICK	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		REMARKS
		A	B	C		SHORT BAR	LONG BAR	SHORT BAR	LONG BAR	
1	F1	8'-0"	12'-0"	27"	#4@4\"/>					
2	CF1	SEE PLAN			27"	#5@4\"/>				

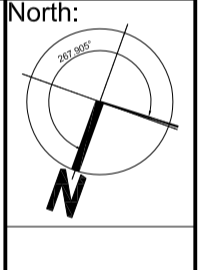


Client:  
**EA Consulting Pvt Ltd**  
 Head Office: PL-9, 15th Lane, Khayaban-e-Hal Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. 111-111-584, Fax No. 584-1825  
 Email: info@eaworld.com | www.eaworld.com

Project:  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan:

- Note:
- All Dimensions to be confirmed on site with architect.
  - Do not scale.
  - Only written dimensions to be followed.
  - Any discrepancies to be clarified with the architect.
  - For structure details refer structure engineer drawings / details



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Date of Issue: May 25, 2018  
 Issued To: Client  
 Issued For: Tender

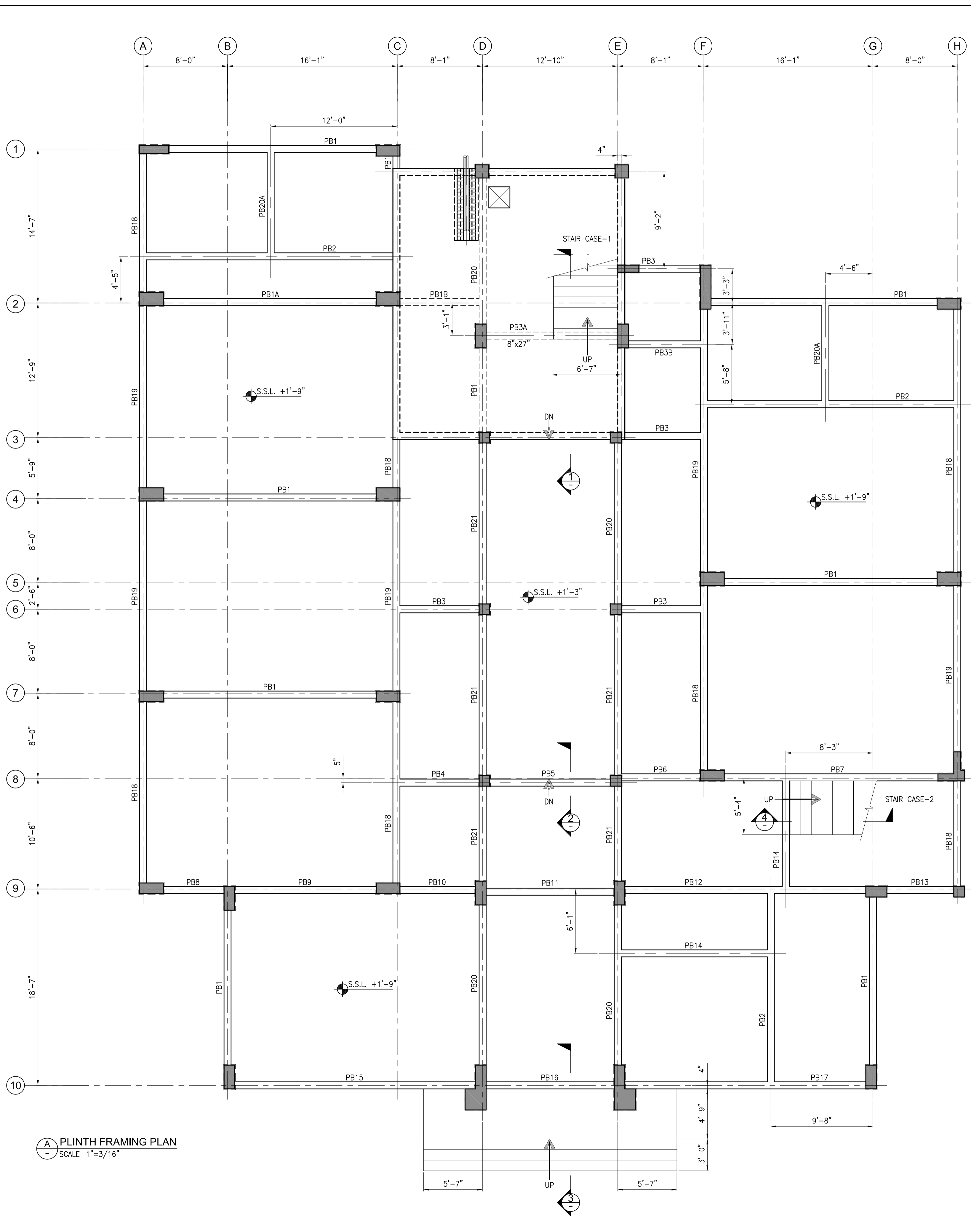
**STRUCTURE**

Status: **TENDER**

Building Name: **MODEL SCHOOL CITY CAMPUS**

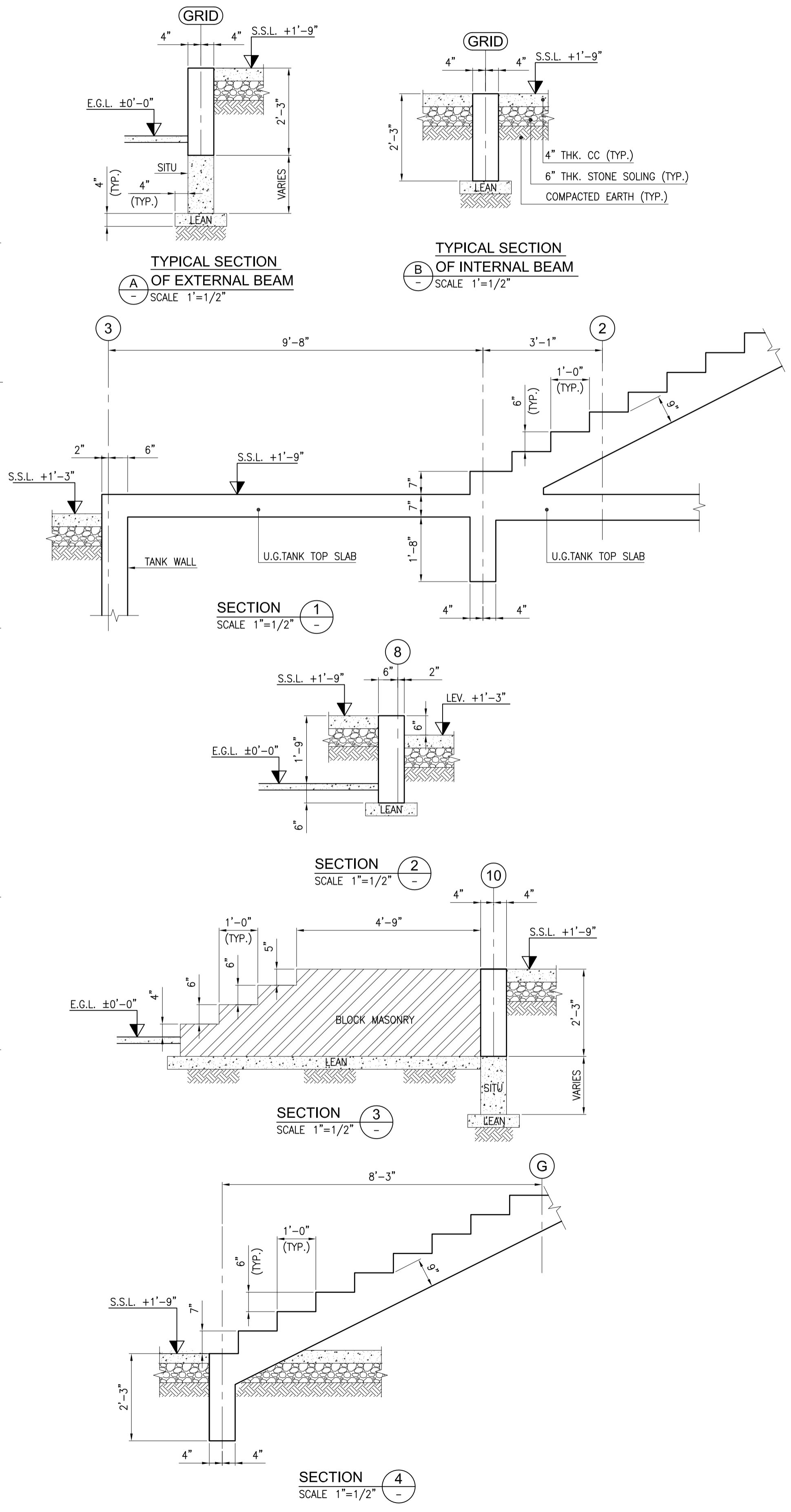
Drawing Title: **FOUNDATION LAYOUT PLAN & DETAILS**

Designed: HA, Checked: HA, Approved: AKM  
 Drawn: MMK, Date: April, 2018, Scale / Sheet: AS SHOWN  
 Project Code: 00986, Rev.: 0  
 Drawing No.: EA-986-SMS-S-0103



**A** PLINTH FRAMING PLAN  
SCALE 1"=3/16"

- NOTES:-**
- 1- ALL LEVEL ARE IN FEET & INCHES.
  - 2- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
  - 3- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH OTHER DISCIPLINES DRAWINGS.
  - 4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SMS-S-0001.
  - 5- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-SMS-S-0011 TO EA-00986-SMS-S-0015.
  - 6- FOR U.G.W.TANK DETAILS REFER DWG. NO. EA-00986-SMS-S-5001.
  - 7- FOR BEAM SCHEDULE REFER DWG. NO. EA-00986-SMS-S-4001.
  - 8- FOR STAIR CASE-1 DETAILS REFER DWG. NO. EA-00986-SMS-S-6001.
  - 9- FOR STAIR CASE-2 DETAILS REFER DWG. NO. EA-00986-SMS-S-6002.



**TYPICAL SECTION OF EXTERNAL BEAM**  
SCALE 1"=1/2"

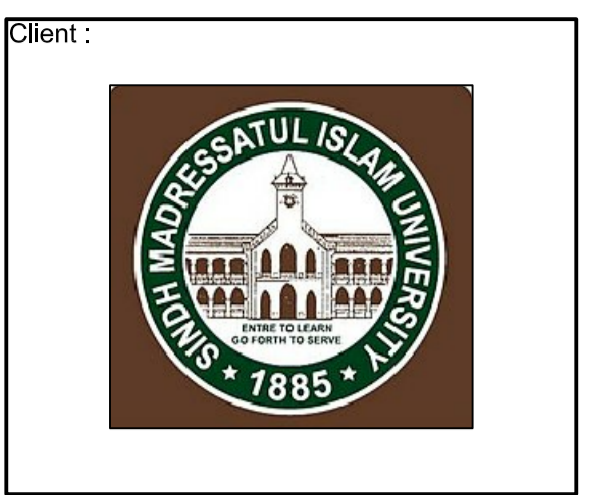
**TYPICAL SECTION OF INTERNAL BEAM**  
SCALE 1"=1/2"

**SECTION 1**  
SCALE 1"=1/2"

**SECTION 2**  
SCALE 1"=1/2"

**SECTION 3**  
SCALE 1"=1/2"

**SECTION 4**  
SCALE 1"=1/2"

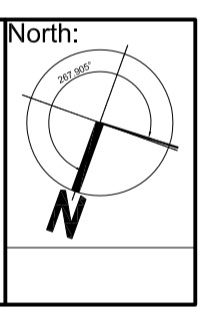


Client:  
Consultant:  
**EA Consulting Pvt Ltd**  
Head Office: P.O. Box 1511, Khayaban-e-Hilal Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. 111-111-584, Fax No. 584-1825  
Email: info@eaworld.com | www.eaworld.com

Project:  
**DEVELOPMENT OF SMU CAMPUS KARACHI**

Key Plan:

Note:  
• All Dimensions to be confirmed on site with architect.  
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• For structure details refer structure engineer drawings / details



No.	DATE	DESCRIPTION
0	25-05-2018	ISSUED FOR TENDER

Date of Issue: May 25, 2018  
Issued To: Client  
Issued For: Tender

**STRUCTURE**

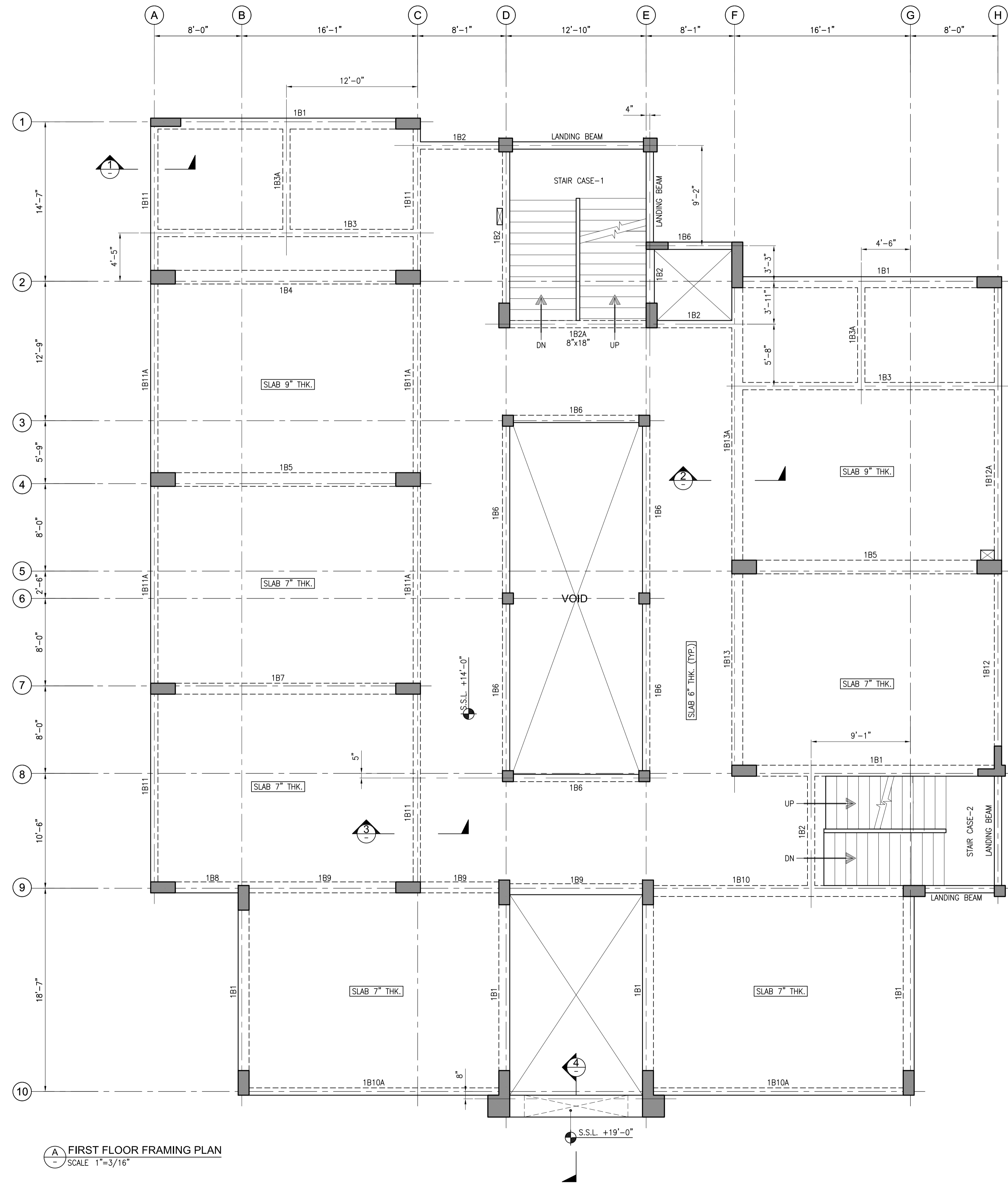
Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title:  
**PLINTH FRAMING PLAN & DETAILS**

Designed: HA	Checked: HA	Approved: AKM
Drawn: MMK	Date: April, 2018	Scale / Sheet: AS SHOWN
Project Code: 00986	Rev.: 0	
Drawing No.: EA-986-SMS-S-2001		

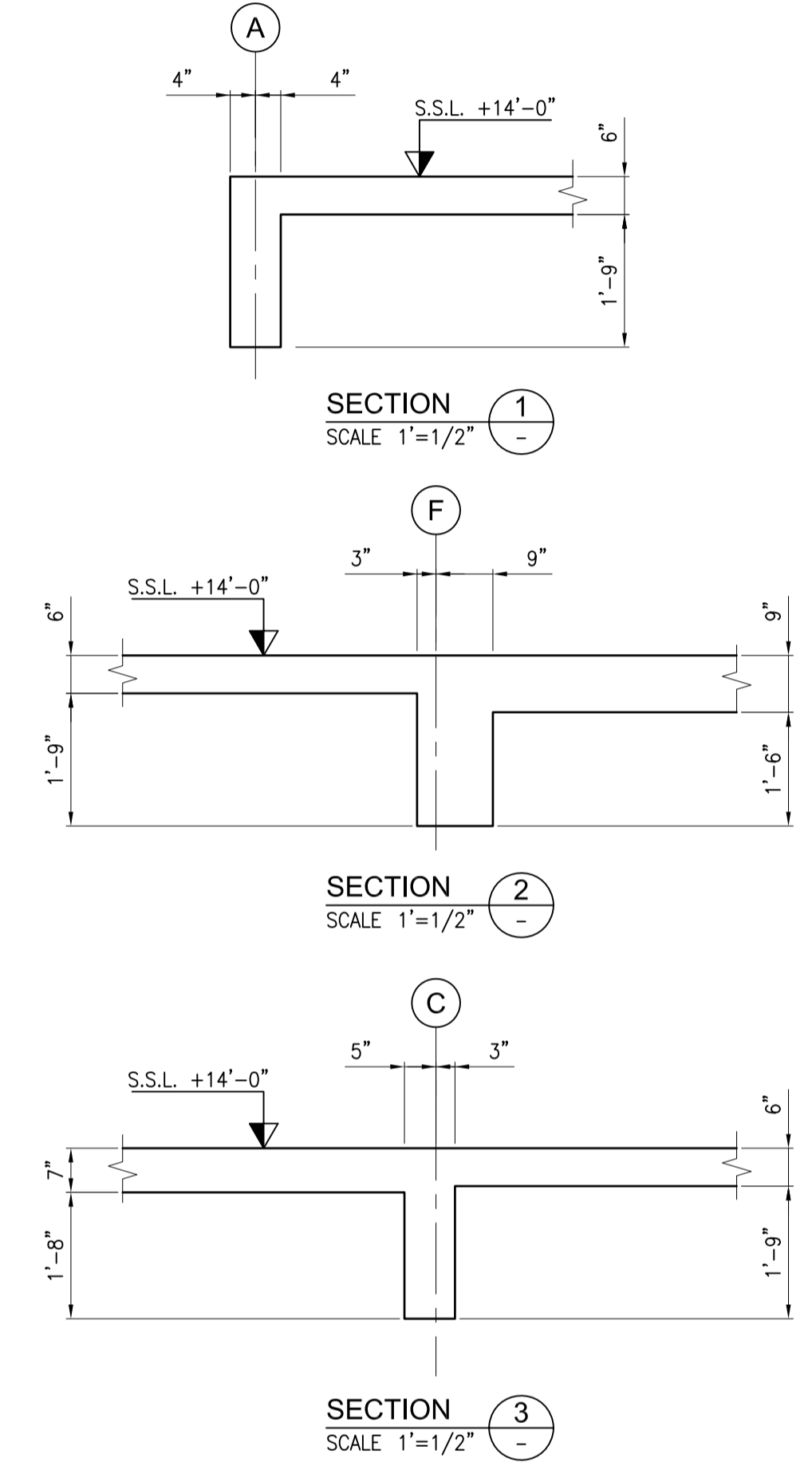




**FIRST FLOOR FRAMING PLAN**  
SCALE 1"=3/16"

**NOTES:-**

- 1- ALL LEVEL ARE IN FEET & INCHES.
- 2- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
- 3- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH OTHER DISCIPLINES DRAWINGS.
- 4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SMS-S-0001.
- 5- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-SMS-S-0011 TO EA-00986-SMS-S-0015.
- 6- FOR BEAM SCHEDULE REFER DWG. NO. EA-00986-SMS-S-4001.
- 7- FOR STAIR CASE-1 DETAILS REFER DWG. NO. EA-00986-SMS-S-6001.
- 8- FOR STAIR CASE-2 DETAILS REFER DWG. NO. EA-00986-SMS-S-6002.



Client :

Consultant :



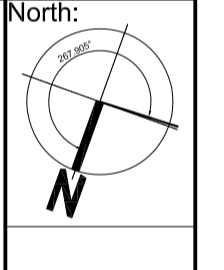
**EA Consulting Pvt Ltd**  
Head Office: AL-9, 15th Lane, Khayaban-e-Hal Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. 111-111-584, Fax No. 584-1825  
Email : info@eaworld.com | www.eaworld.com

Project :

**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

- Note:
- All Dimensions to be confirmed on site with architect.
  - Do not scale.
  - Only written dimensions to be followed.
  - Any discrepancies to be clarified with the architect.
  - For structure details refer structure engineer drawings / details



No.	DATE	DESCRIPTION
0	25-05-2018	ISSUED FOR TENDER
REVISIONS		

Date of Issue : May 25, 2018  
Issued To : Client  
Issued For : Tender

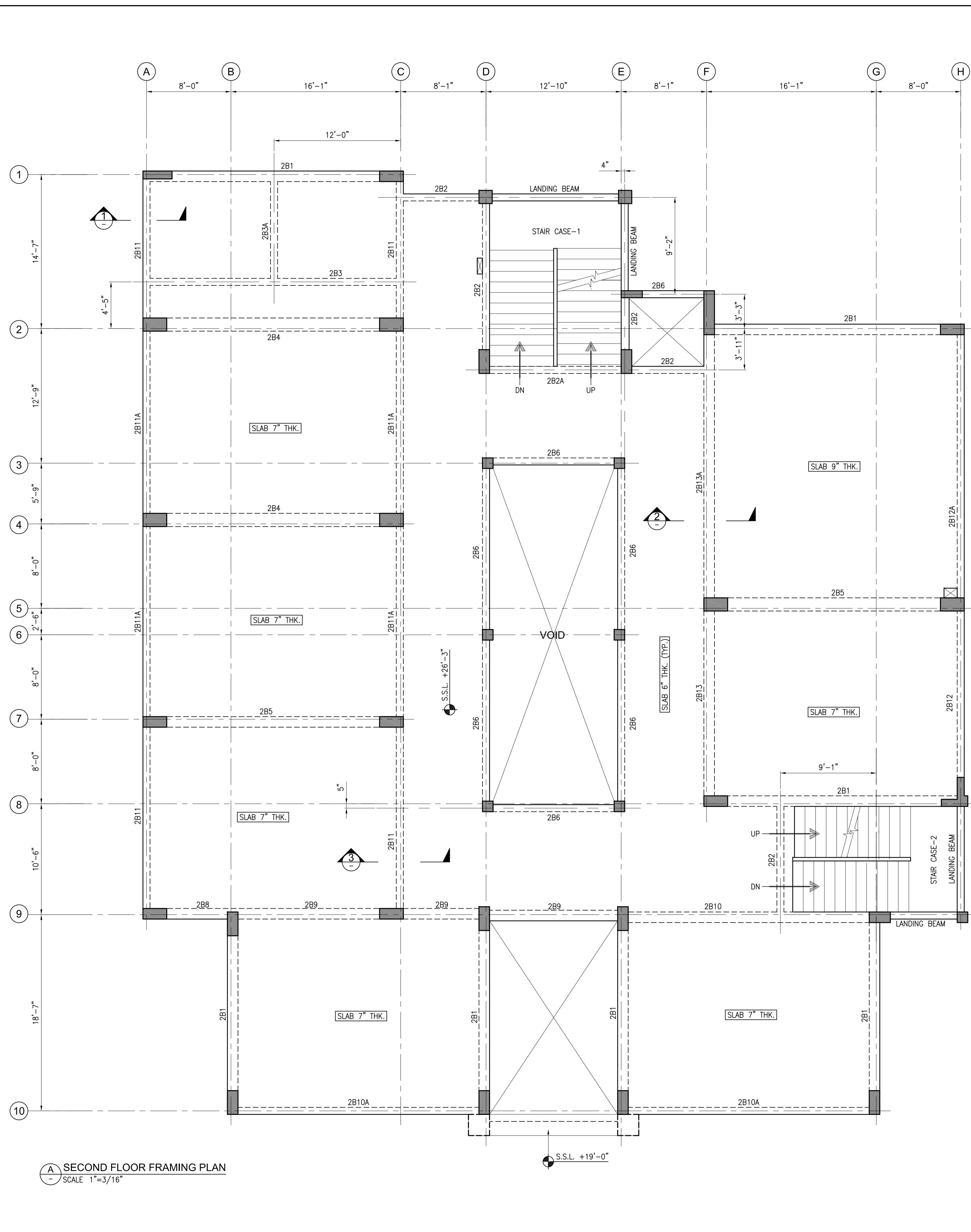
**STRUCTURE**

Status: **TENDER**

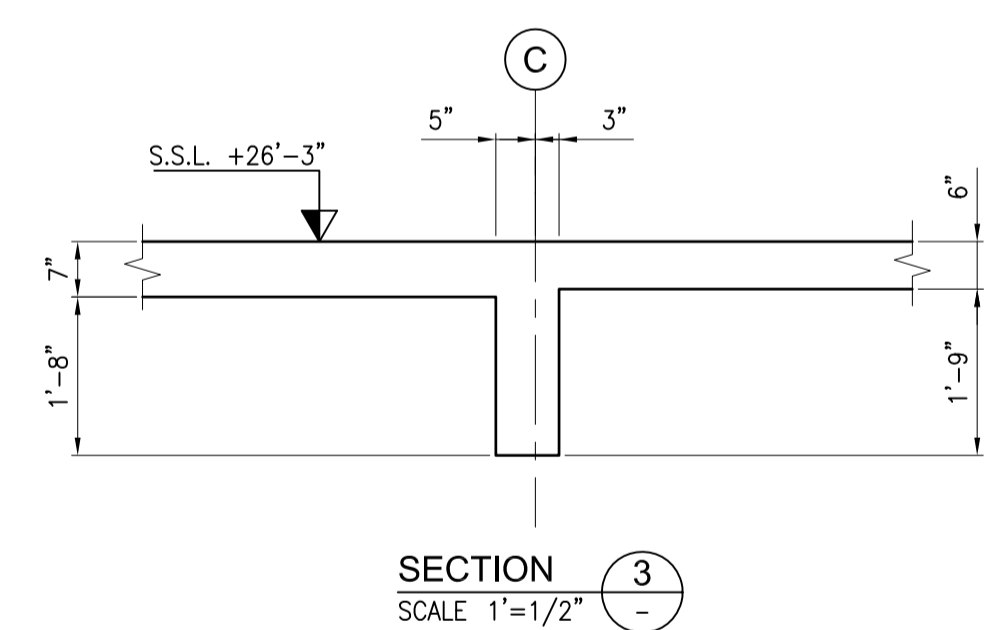
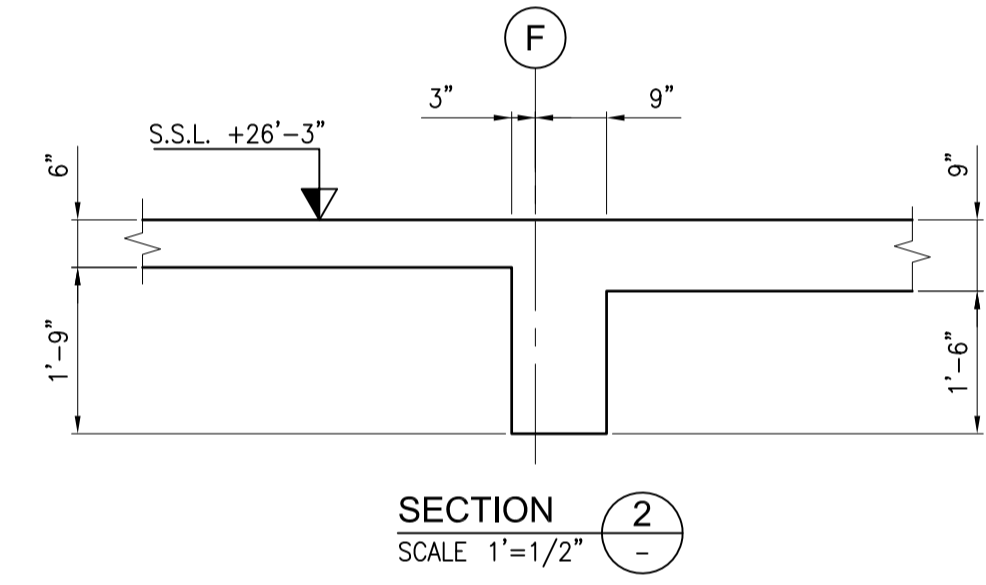
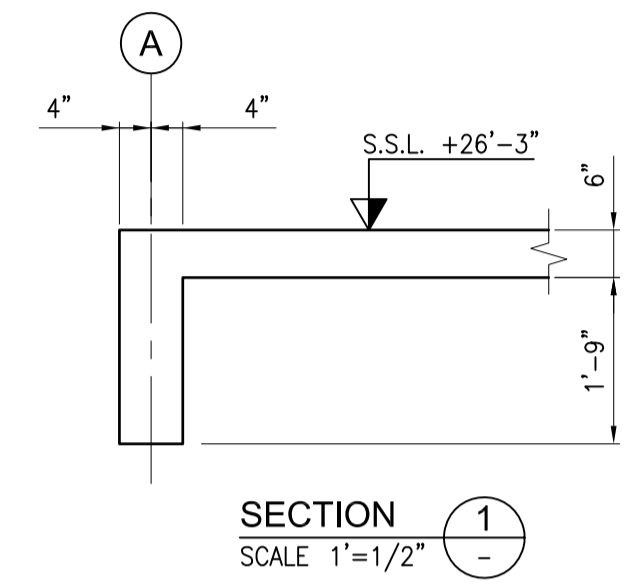
Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title : **FIRST FLOOR FRAMING PLAN & DETAILS**

Designed : HA	Checked : HA	Approved : AKM
Drawn : MMK	Date : April, 2018	Scale / Sheet : AS SHOWN
Project Code : 00986	Rev. : 0	
Drawing No. : EA-986-SMS-S-2002		



- NOTES:-**
- 1- ALL LEVEL ARE IN FEET & INCHES.
  - 2- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
  - 3- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH OTHER DISCIPLINES DRAWINGS.
  - 4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SMS-S-0001.
  - 5- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-SMS-S-0011 TO EA-00986-SMS-S-0015.
  - 6- FOR BEAM SCHEDULE REFER DWG. NO. EA-00986-SMS-S-4001.
  - 7- FOR STAIR CASE-1 DETAILS REFER DWG. NO. EA-00986-SMS-S-6001.
  - 8- FOR STAIR CASE-2 DETAILS REFER DWG. NO. EA-00986-SMS-S-6002.

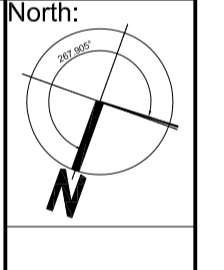


Client :  
**EA Consulting Pvt Ltd**  
 Head Office: PL-9, 15th Lane, Khayaban-e-Hilal Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. : 111-111-584, Fax No. : 584-1825  
 Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

Note:  
 • All Dimensions to be confirmed on site with architect.  
 • Do not scale.  
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 • For structure details refer structure engineer drawings / details



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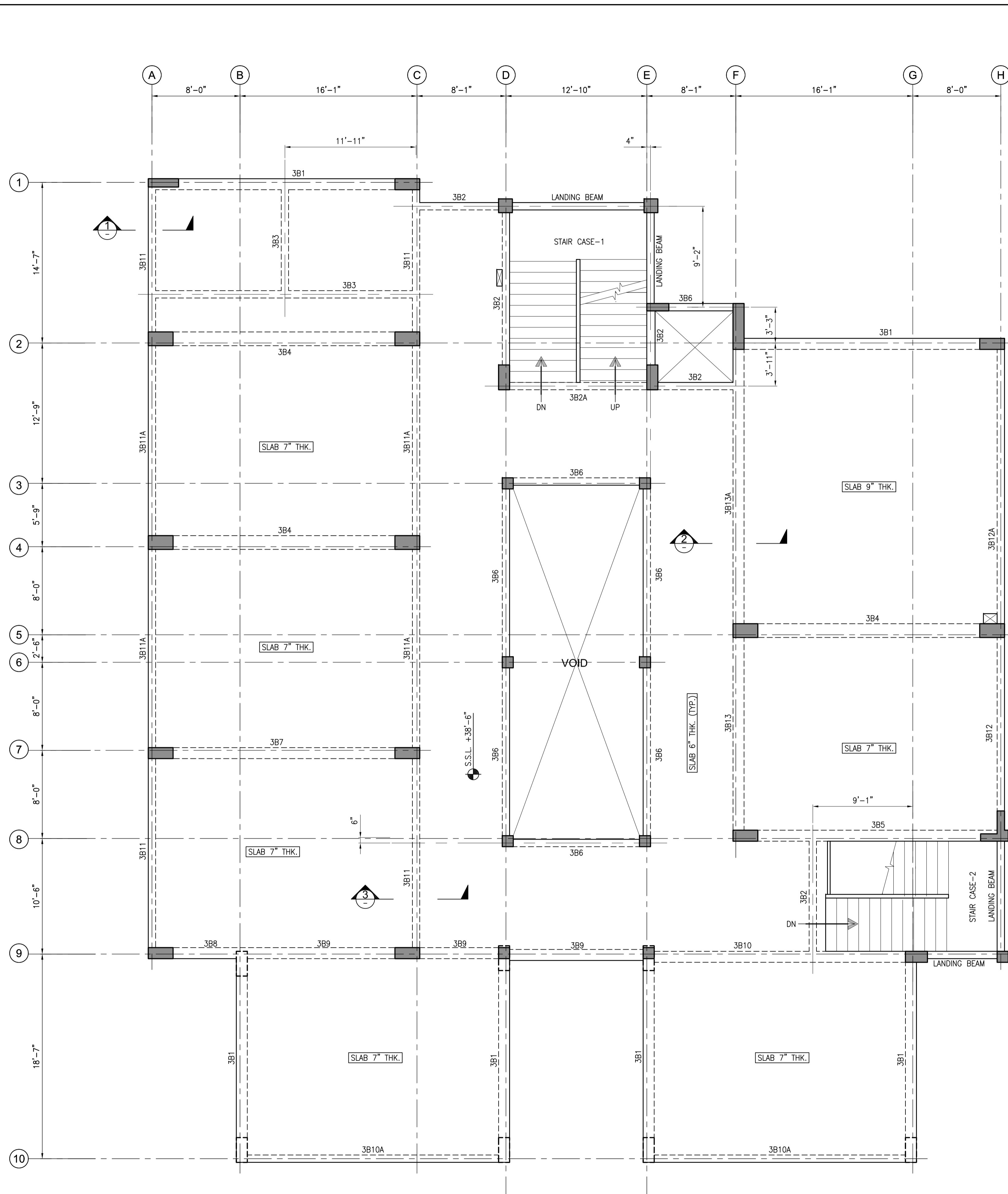
Date of Issue : May 25, 2018  
 Issued To : Client  
 Issued For : Tender

**STRUCTURE**  
 Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title :  
**SECOND FLOOR FRAMING PLAN & DETAILS**

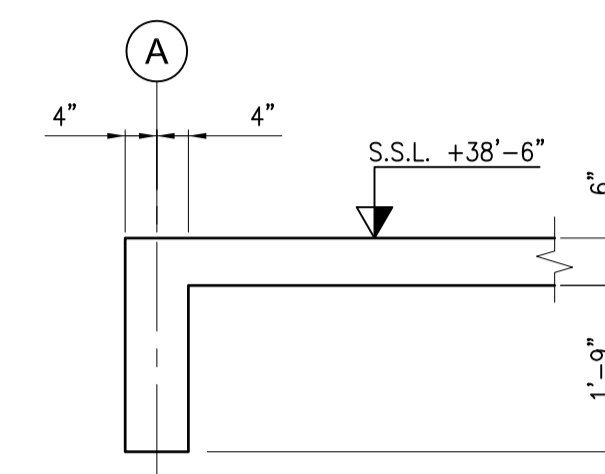
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Drawn : MMK	Date : April, 2018	Scale / Sheet : AS SHOWN
Project Code : 00986	Rev. : 0	
Drawing No. : EA-986-SMS-S-2003		



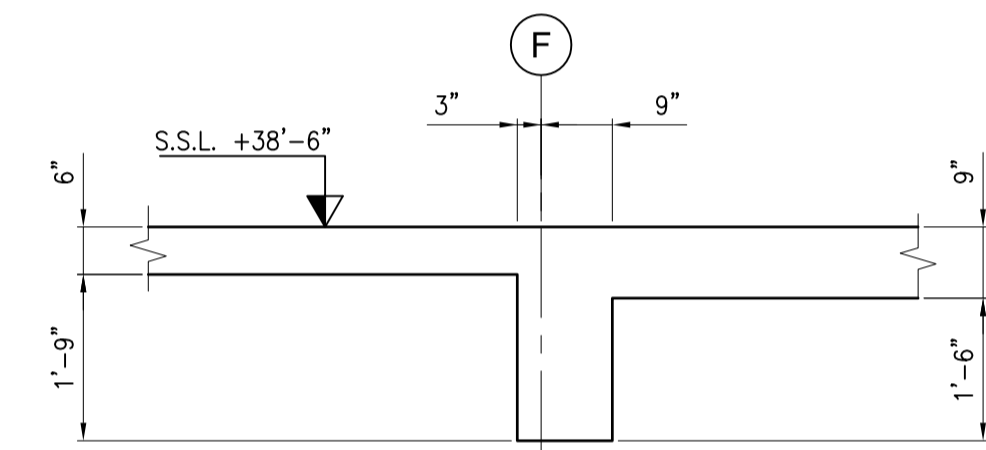
**THIRD FLOOR FRAMING PLAN**  
SCALE 1"=3/16"

**NOTES:-**

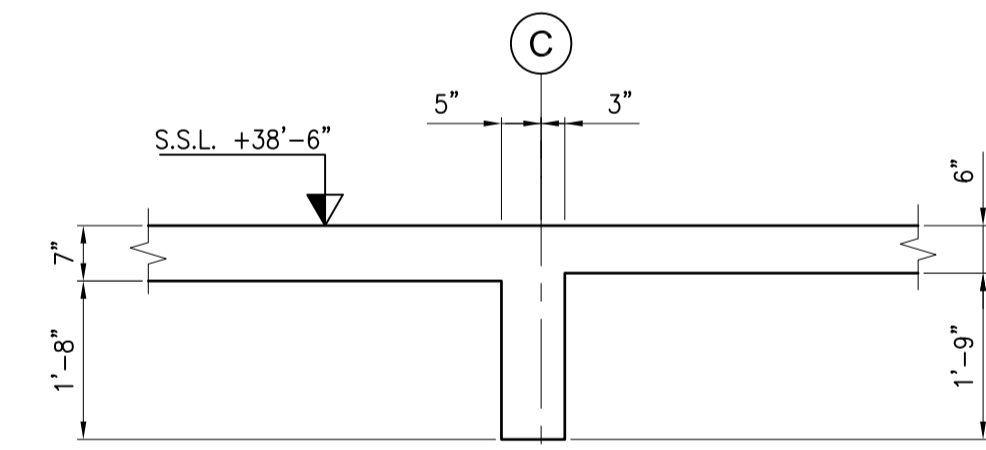
- 1- ALL LEVEL ARE IN FEET & INCHES.
- 2- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
- 3- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH OTHER DISCIPLINES DRAWINGS.
- 4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SMS-S-0001.
- 5- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-SMS-S-0011 TO EA-00986-SMS-S-0015.
- 6- FOR BEAM SCHEDULE REFER DWG. NO. EA-00986-SMS-S-4001.
- 7- FOR STAIR CASE-1 DETAILS REFER DWG. NO. EA-00986-SMS-S-6001.
- 8- FOR STAIR CASE-2 DETAILS REFER DWG. NO. EA-00986-SMS-S-6002.



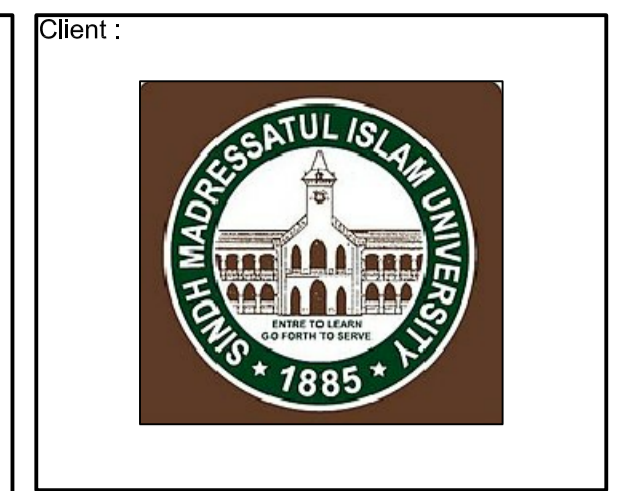
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SCALE 1"=1/2"



**SECTION 2**  
SCALE 1"=1/2"



**SECTION 3**  
SCALE 1"=1/2"

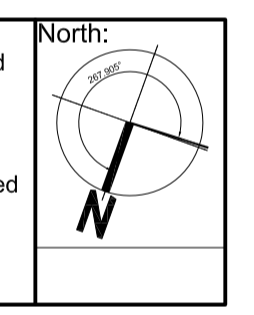


Client :  
**EA Consulting Pvt Ltd**  
Head Office: G-9, 15th Lane, Khayaban-e-Hal Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. 111-111-584, Fax No. 584-1825  
Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

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No.	DATE	DESCRIPTION

Date of Issue: May 25, 2018  
Issued To: Client  
Issued For: Tender

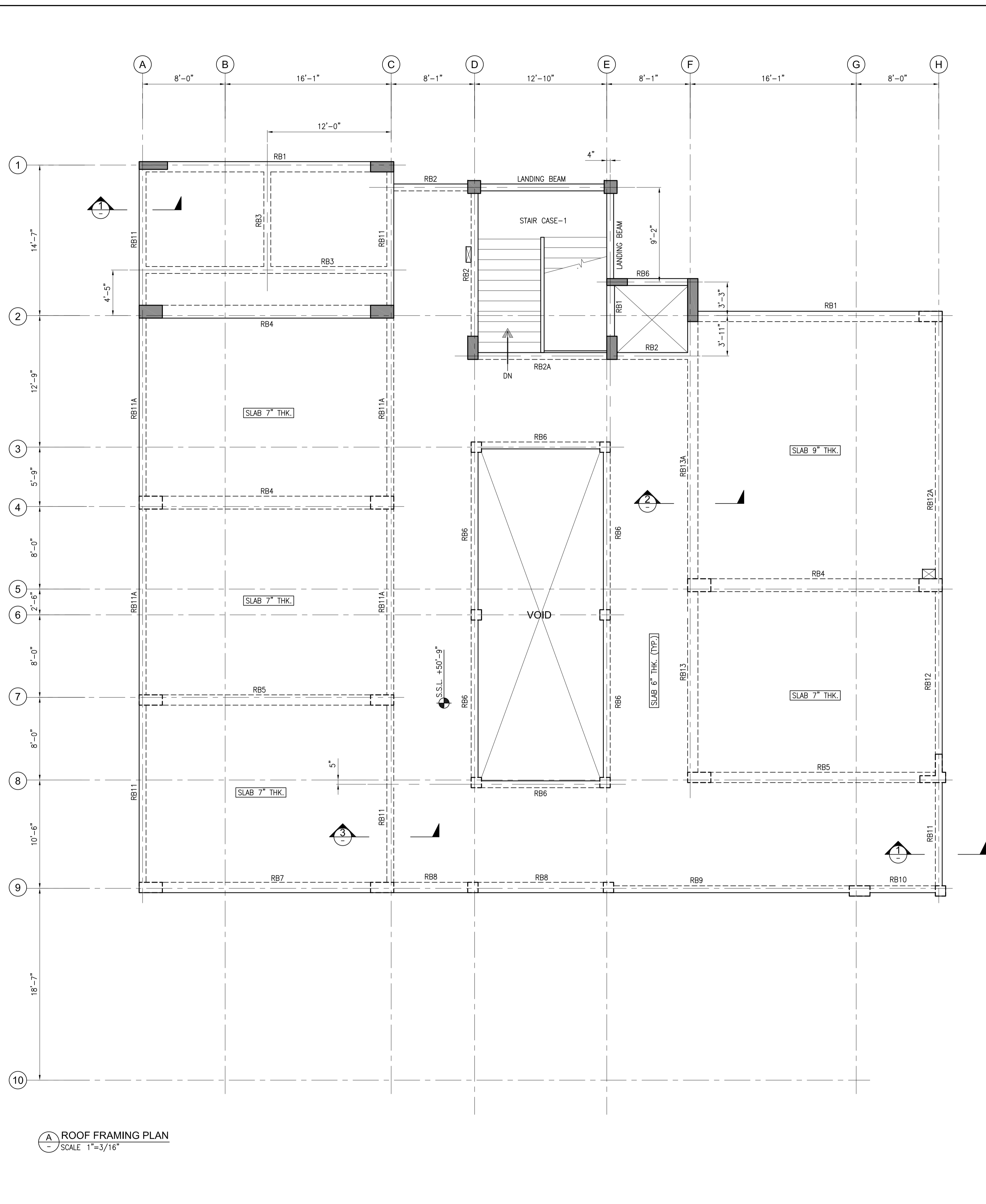
**STRUCTURE**

Status: **TENDER**

Building Name: **MODEL SCHOOL CITY CAMPUS**

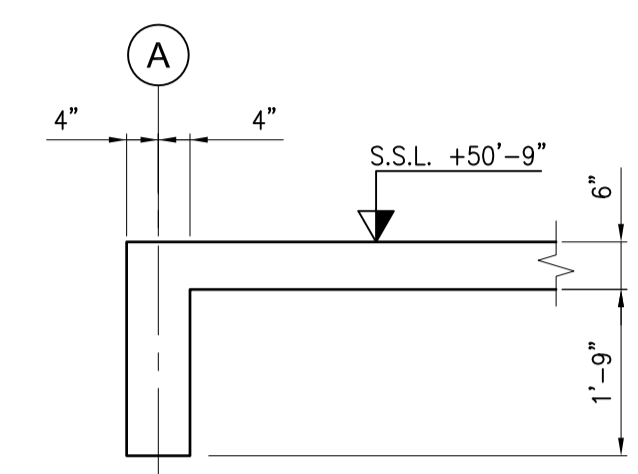
Drawing Title : **THIRD FLOOR FRAMING PLAN & DETAILS**

Designed : HA	Checked : HA	Approved : AKM
Drawn : MMK	Date : April, 2018	Scale / Sheet : AS SHOWN
Project Code : 00986	Rev. : 0	
Drawing No. : EA-986-SMS-S-2004		

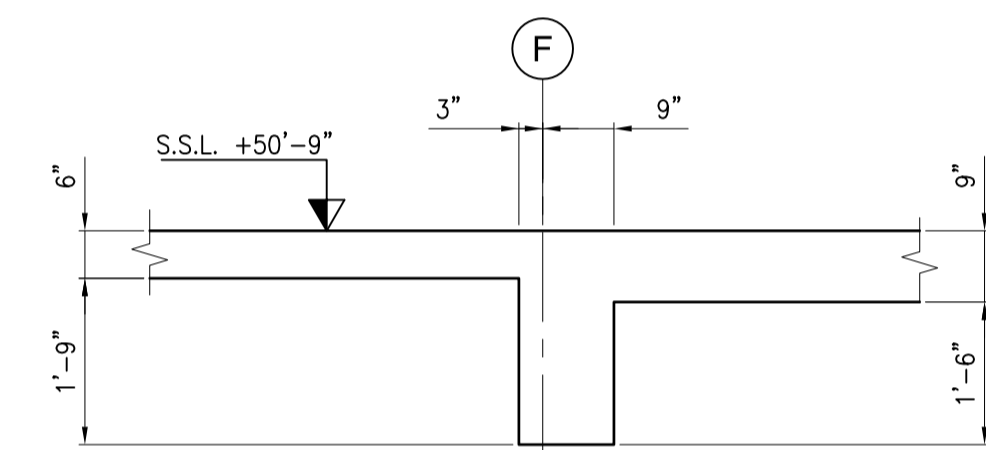


**A** ROOF FRAMING PLAN  
SCALE 1"=3/16"

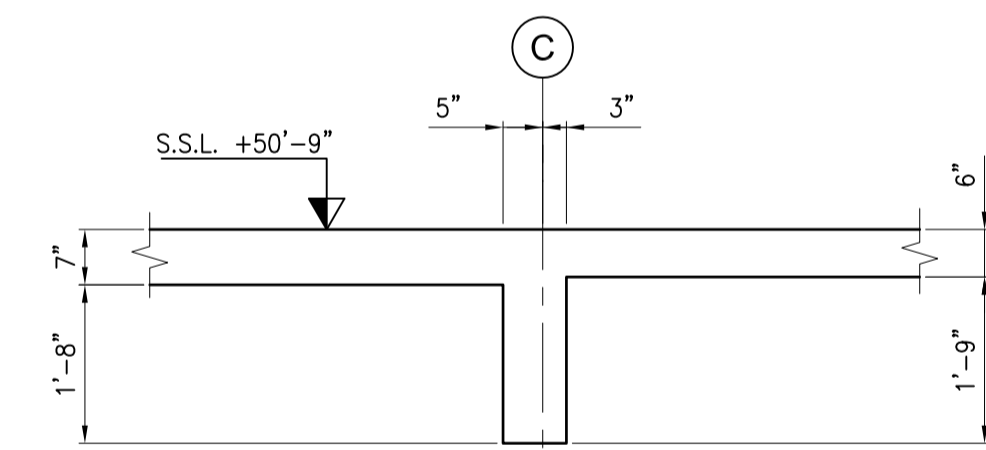
- NOTES:-**
- 1- ALL LEVEL ARE IN FEET & INCHES.
  - 2- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
  - 3- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH OTHER DISCIPLINES DRAWINGS.
  - 4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SMS-S-0001.
  - 5- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-SMS-S-0011 TO EA-00986-SMS-S-0015.
  - 6- FOR BEAM SCHEDULE REFER DWG. NO. EA-00986-SMS-S-4001.
  - 7- FOR STAIR CASE-1 DETAILS REFER DWG. NO. EA-00986-SMS-S-6001.



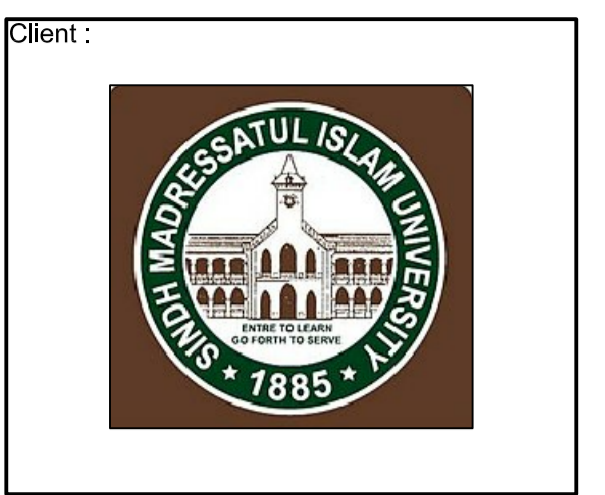
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SCALE 1"=1/2"



**SECTION 2**  
SCALE 1"=1/2"



**SECTION 3**  
SCALE 1"=1/2"

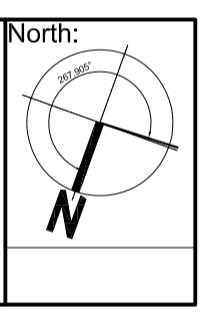


Client :  
**EA Consulting Pvt Ltd**  
Head Office: P.O. 15th Lane, Khayaban-e-Hilal Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. 111-111-584, Fax No. 584-1825  
Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF SMU CAMPUS KARACHI**

Key Plan :

Note:  
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Date of Issue	May 25, 2018
Issued To	Client
Issued For	Tender

**STRUCTURE**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title :  
**ROOF FRAMING PLAN & DETAILS**

Designed :	Checked :	Approved :
HA	HA	AKM
Drawn :	Date :	Scale / Sheet :
MMK	April, 2018	AS SHOWN
Project Code :	00986	Rev. : 0
Drawing No. :	EA-986-SMS-S-2005	



Client :

Consultant :



**EA Consulting Pvt Ltd**

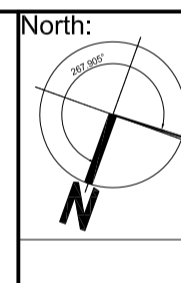
Head Office: P.O. 15th Lane, Khayaban-e-Hilal Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. : 111-111-584, Fax No. : 584-1825  
 Email : info@eaworld.com | www.eaworld.com

Project :

**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

- Note:
- All Dimensions to be confirmed on site with architect.
  - Do not scale.
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  - Any discrepancies to be clarified with the architect.
  - For structure details refer, structure engineer drawings / details



No.	DATE	DESCRIPTION
0	25-05-2018	ISSUED FOR TENDER

REVISIONS		
No.	DATE	DESCRIPTION

Date of Issue	May 25, 2018
Issued To	Client
Issued For	Tender

**STRUCTURE**

Status: **TENDER**

Building Name: **MODEL SCHOOL CITY CAMPUS**

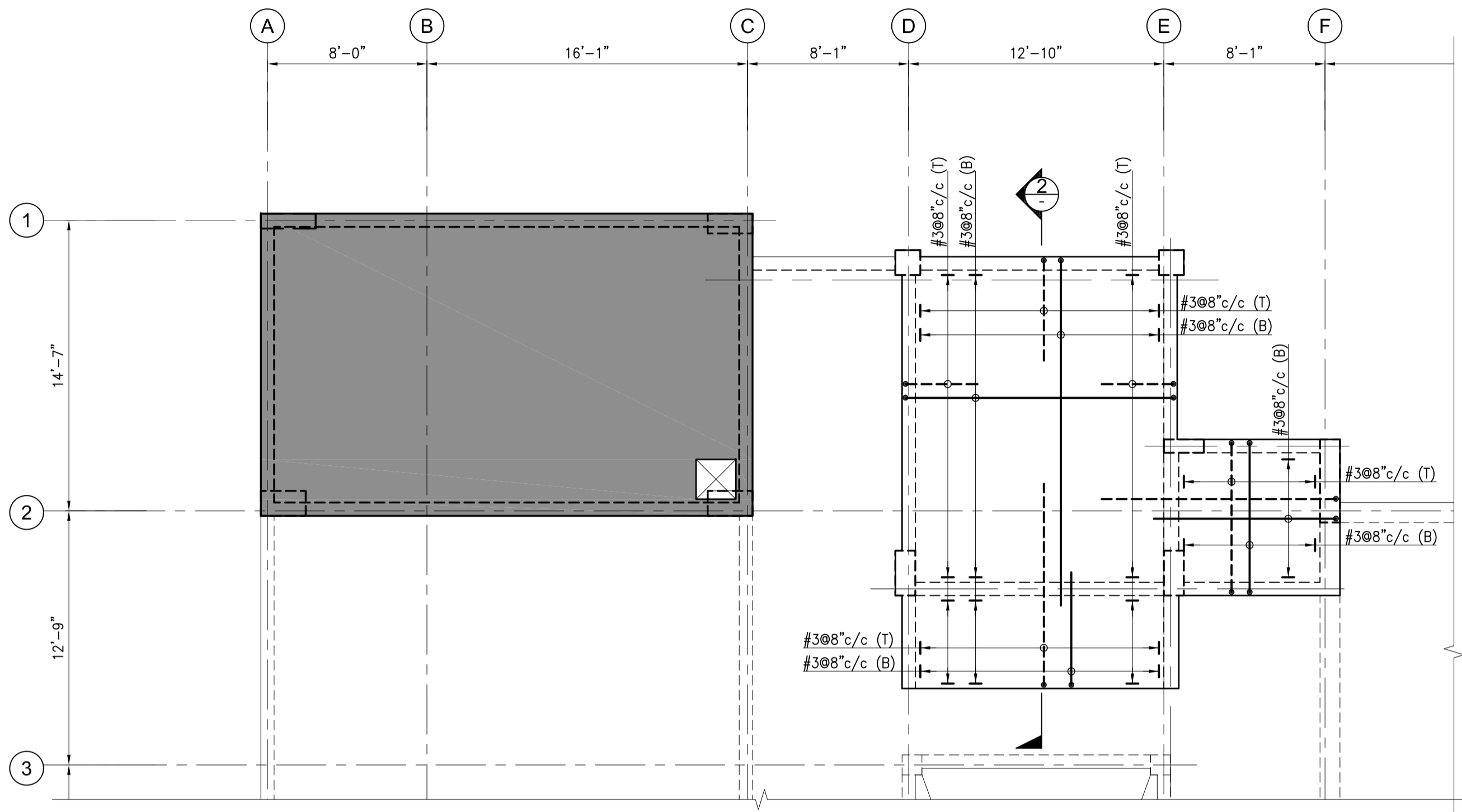
Drawing Title : **UPPER ROOF FRAMING REINFORCEMENT PLAN & DETAILS**

Designed :	Checked :	Approved :
HA	HA	AKM
Drawn :	Date :	Scale / Sheet :
MMK	April, 2018	AS SHOWN
Project Code :	00986	Rev. : 0

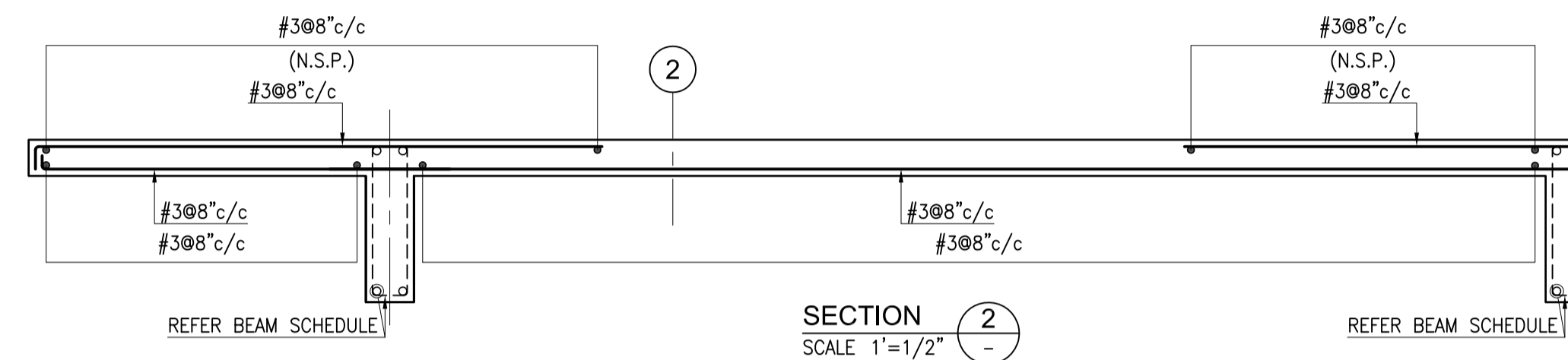
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**NOTES:-**

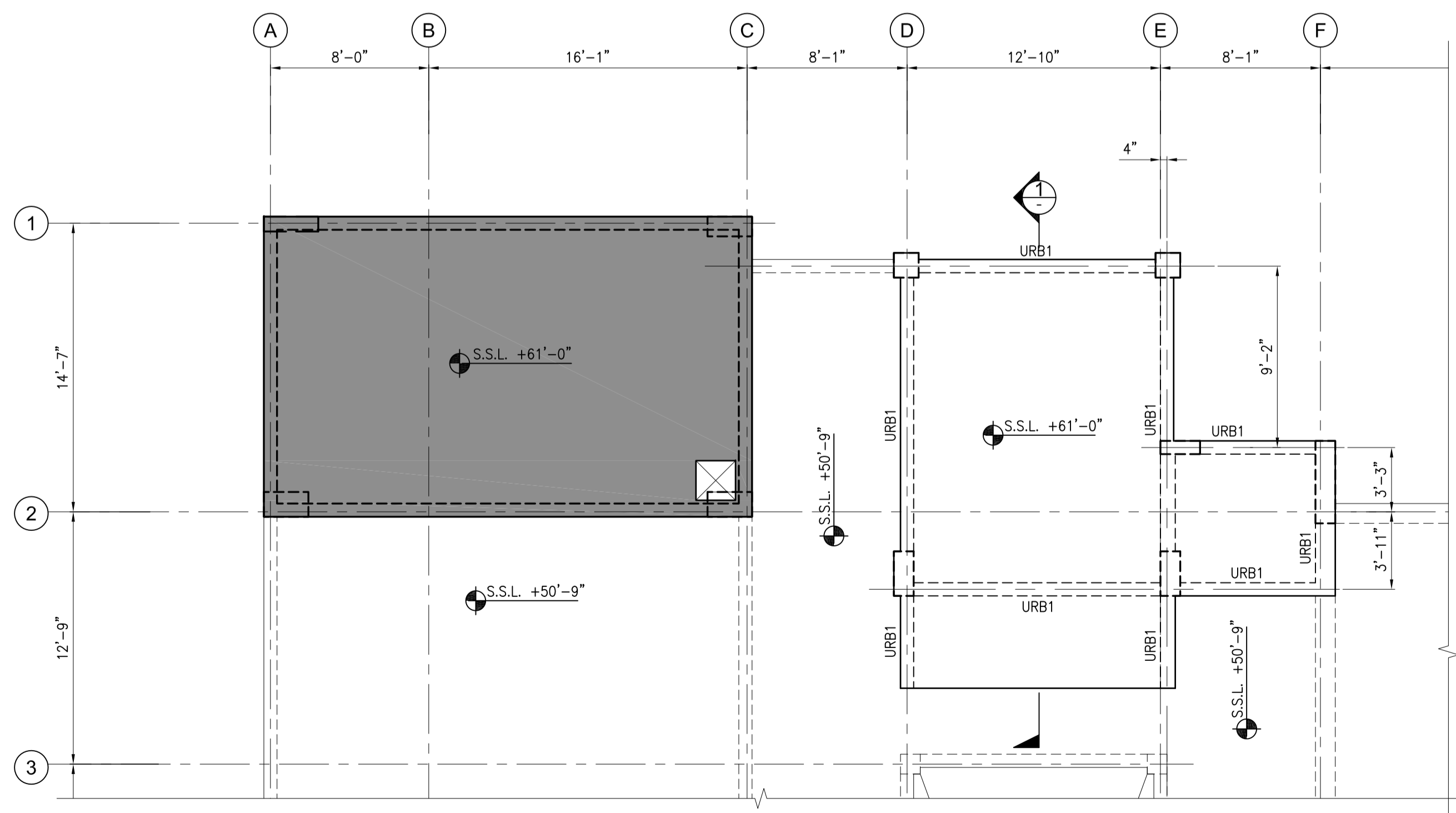
- ALL LEVEL ARE IN FEET & INCHES.
- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH OTHER DISCIPLINES DRAWINGS.
- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SMS-S-0001.
- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-SMS-S-0015 TO EA-00986-SMS-S-0015.
- FOR BEAM SCHEDULE REFER DWG. NO. EA-00986-SMS-S-4001.
- FOR O.H.W.TANK DETAILS REFER DWG. NO. EA-00986-SMS-S-5002.



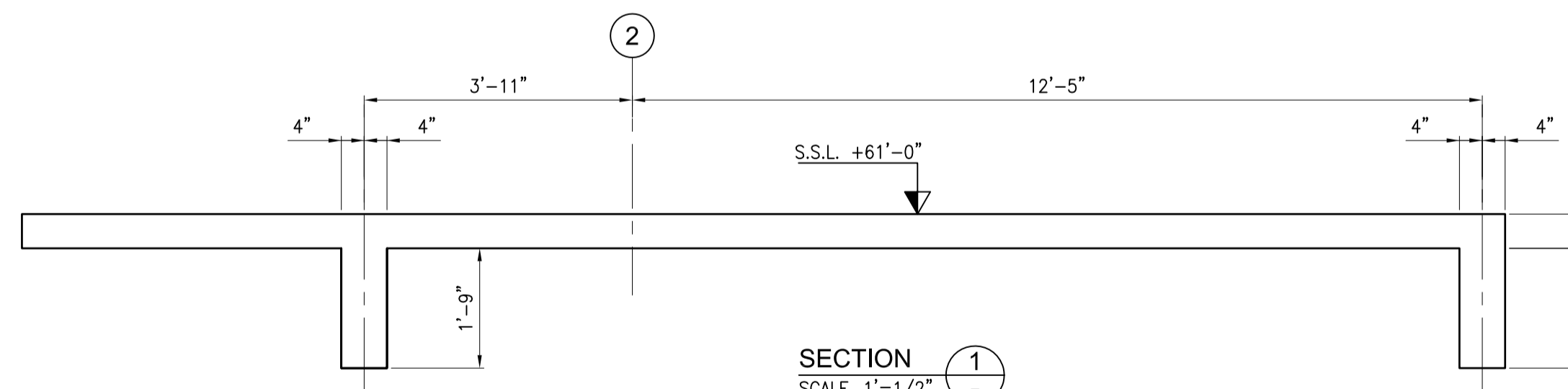
**UPPER ROOF REINFORCEMENT PLAN**  
SCALE 1"=3/16"



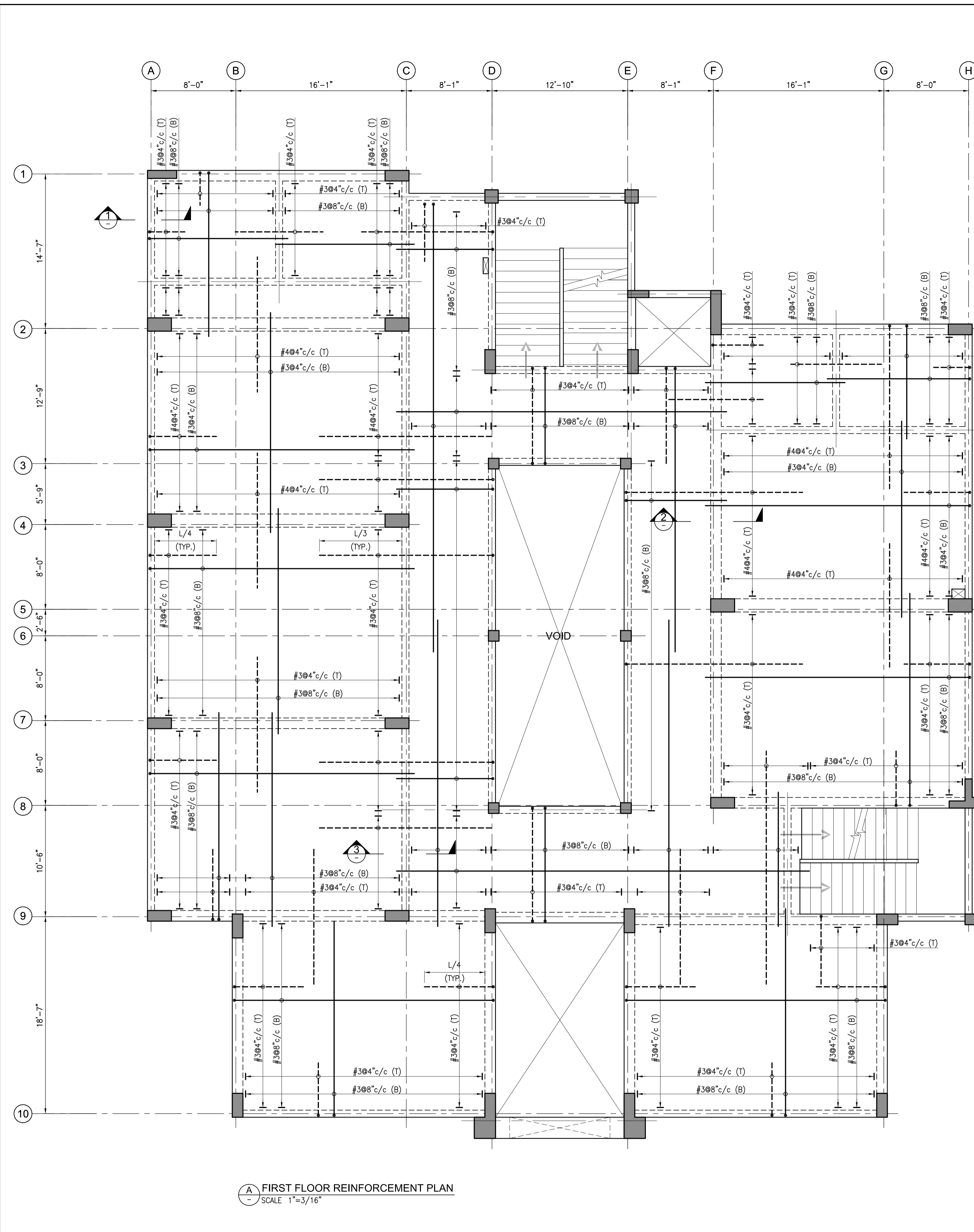
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SCALE 1"=1/2"



**UPPER ROOF FRAMING PLAN**  
SCALE 1"=3/16"



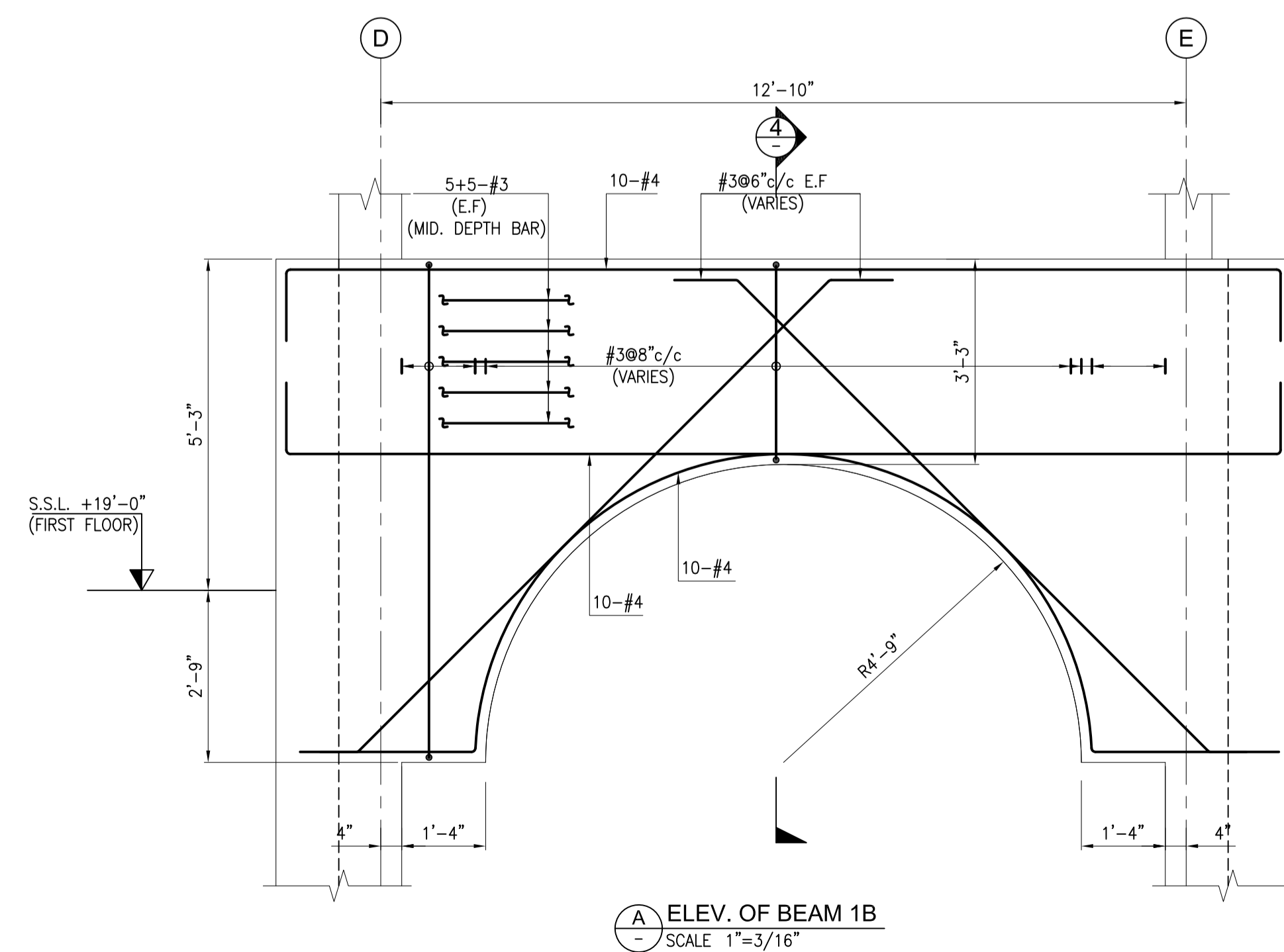
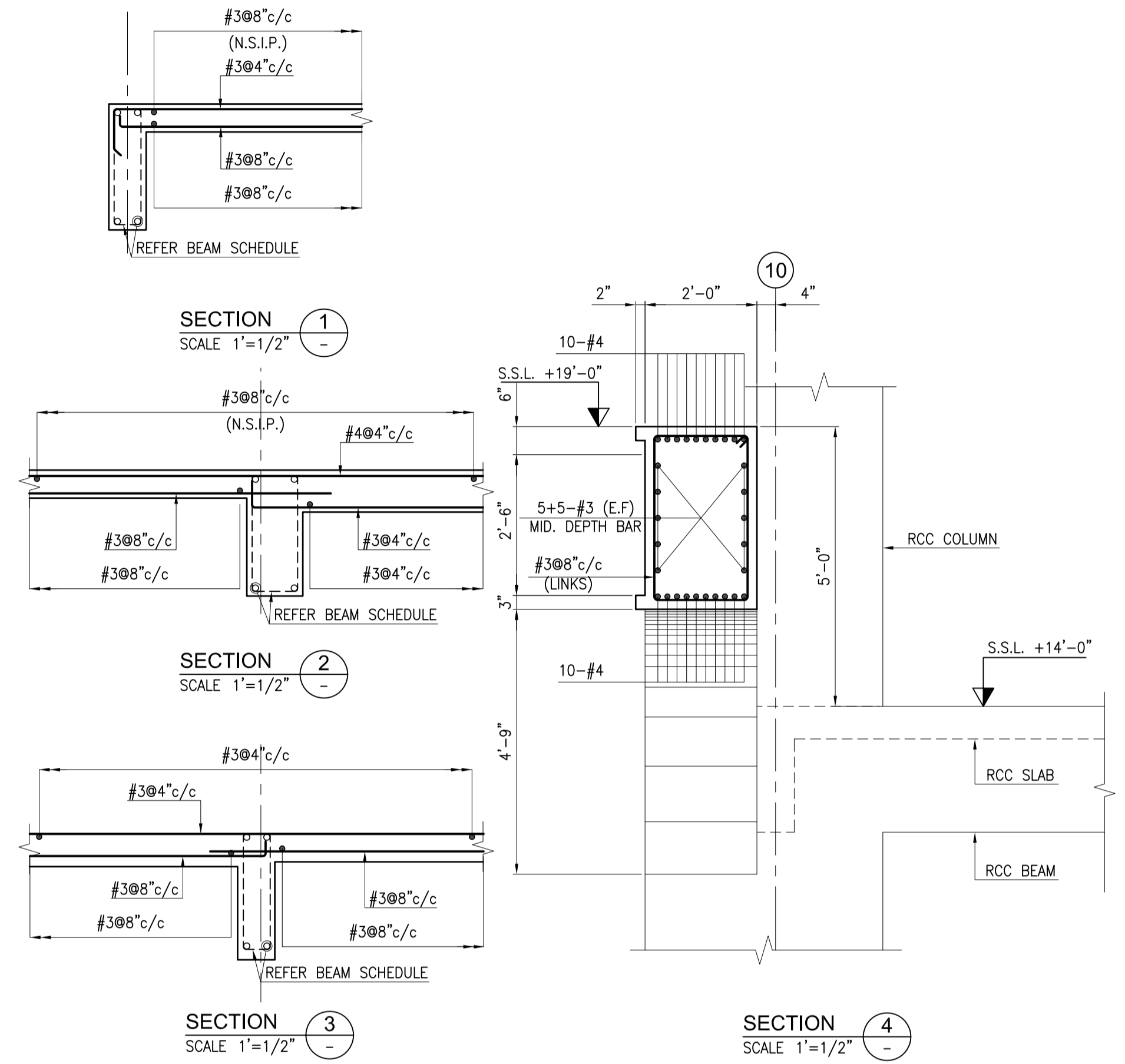
**SECTION 1**  
SCALE 1"=1/2"



**A FIRST FLOOR REINFORCEMENT PLAN**  
SCALE 1"=3/16"

**NOTES:-**

- 1- ALL LEVEL ARE IN FEET & INCHES.
- 2- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
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- 4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SMS-S-0001.
- 5- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-SMS-S-0011 TO EA-00986-SMS-S-0015.
- 6- FOR U.G.W.TANK DETAILS REFER DWG. NO. EA-00986-SMS-S-5001.
- 7- FOR BEAM SCHEDULE REFER DWG. NO. EA-00986-SMS-S-4001.
- 8- FOR STAIR CASE-1 DETAILS REFER DWG. NO. EA-00986-SMS-S-6001.
- 9- FOR STAIR CASE-2 DETAILS REFER DWG. NO. EA-00986-SMS-S-6002.



**A ELEV. OF BEAM 1B**  
SCALE 1"=3/16"



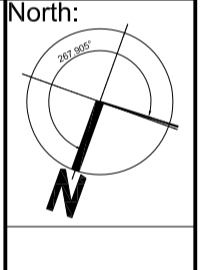
Client: **MADRESSATUL ISLAM UNIVERSITY**  
Karachi

Consultant: **EAC Consulting Pvt Ltd**  
Head Office: G-9, 15th Lane, Khayaban-e-Hal Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. 111-111-584, Fax No. 584-1825  
Email: info@eaworld.com | www.eaworld.com

Project: **DEVELOPMENT OF SMU CAMPUS KARACHI**

Key Plan:

- Notes:
- All Dimensions to be confirmed on site with architect.
  - Do not scale.
  - Only written dimensions to be followed.
  - Any discrepancies to be clarified with the architect.
  - For structure details refer structure engineer drawings / details



No.	DATE	DESCRIPTION
0	25-05-2018	ISSUED FOR TENDER
REVISIONS		

Date of Issue: May 25, 2018  
Issued To: Client  
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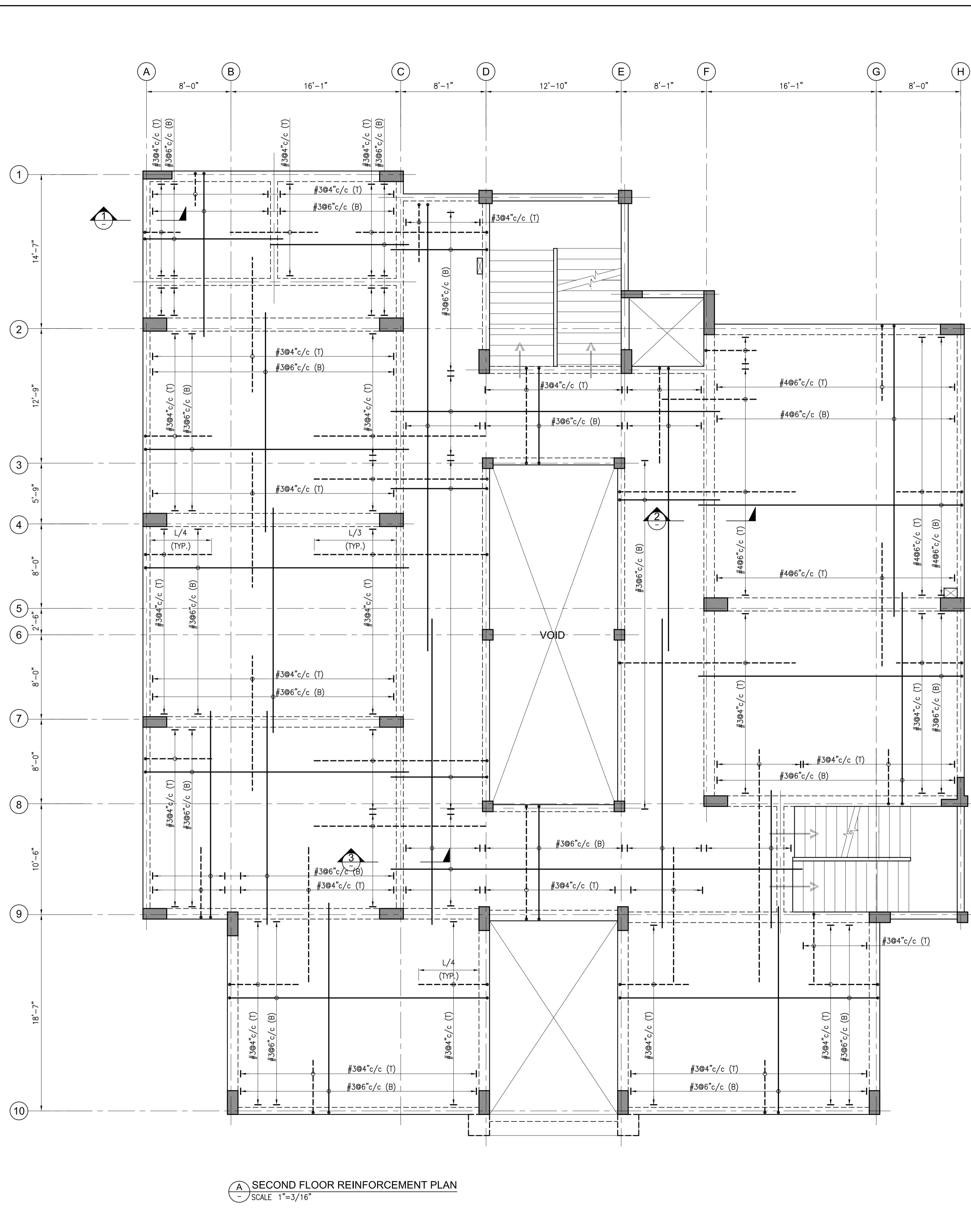
**STRUCTURE**  
Status: **TENDER**

Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title: **FIRST FLOOR REINFORCEMENT PLAN & SECTION DETAILS**

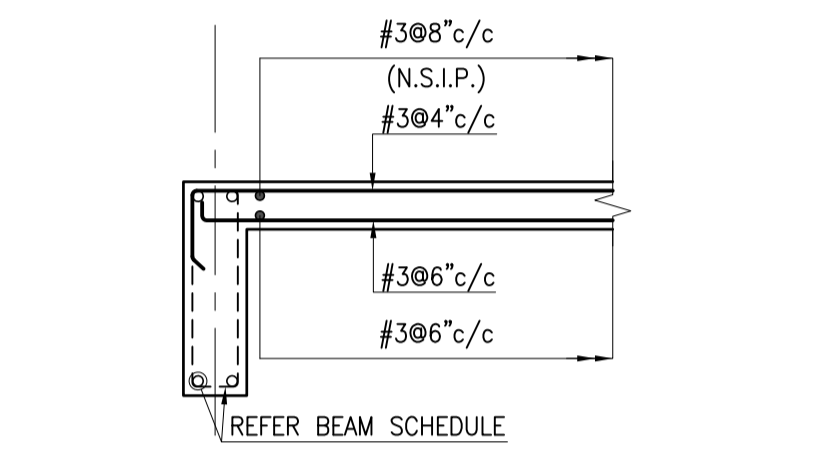
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Drawn: MMK	Date: April, 2018	Scale / Sheet: AS SHOWN
Project Code: 00986	Rev.: 0	

Drawing No.: EA-986-SMS-S-3001

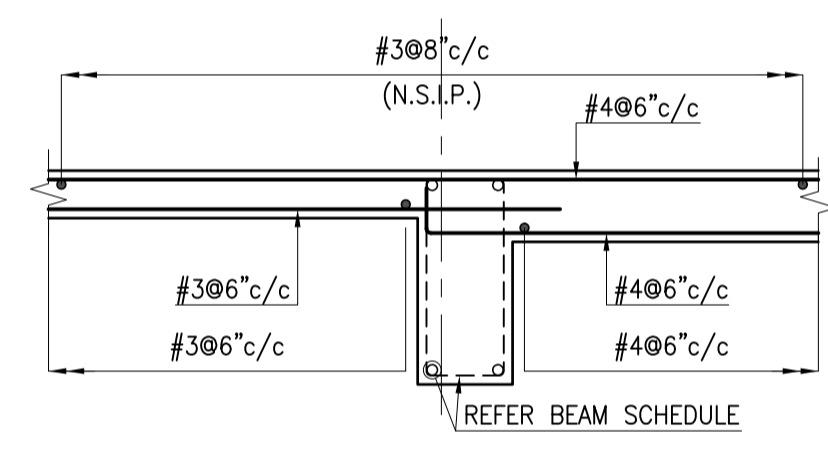


**A SECOND FLOOR REINFORCEMENT PLAN**  
SCALE 1"=3/16"

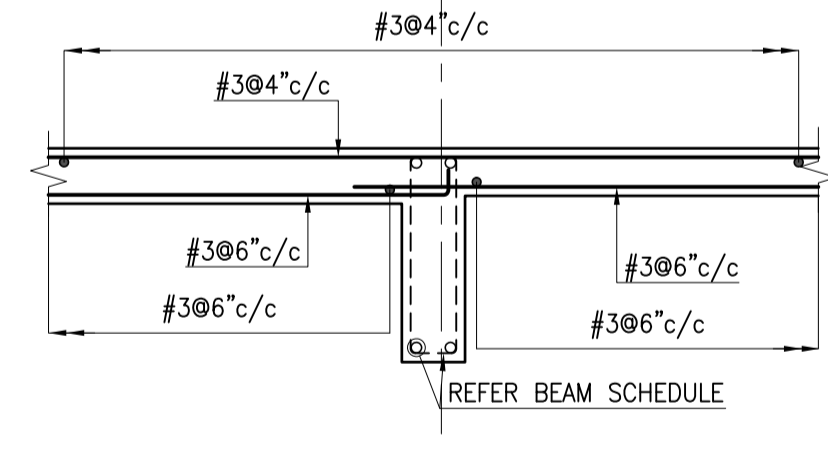
- NOTES:-**
- 1- ALL LEVEL ARE IN FEET & INCHES.
  - 2- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
  - 3- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH OTHER DISCIPLINES DRAWINGS.
  - 4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SMS-S-0001.
  - 5- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-SMS-S-0011 TO EA-00986-SMS-S-0015.
  - 6- FOR U.G.W.TANK DETAILS REFER DWG. NO. EA-00986-SMS-S-5001.
  - 7- FOR BEAM SCHEDULE REFER DWG. NO. EA-00986-SMS-S-4001.
  - 8- FOR STAIR CASE-1 DETAILS REFER DWG. NO. EA-00986-SMS-S-6001.
  - 9- FOR STAIR CASE-2 DETAILS REFER DWG. NO. EA-00986-SMS-S-6002.



**SECTION 1**  
SCALE 1"=1/2"



**SECTION 2**  
SCALE 1"=1/2"



**SECTION 3**  
SCALE 1"=1/2"

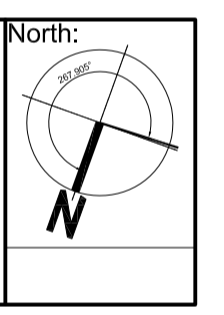


Client:  
**EA Consulting Pvt Ltd**  
 Head Office: P.O. 15th Lane, Khayaban-e-Hilal Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. 111-111-584, Fax No. 584-1825  
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Project:  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan:

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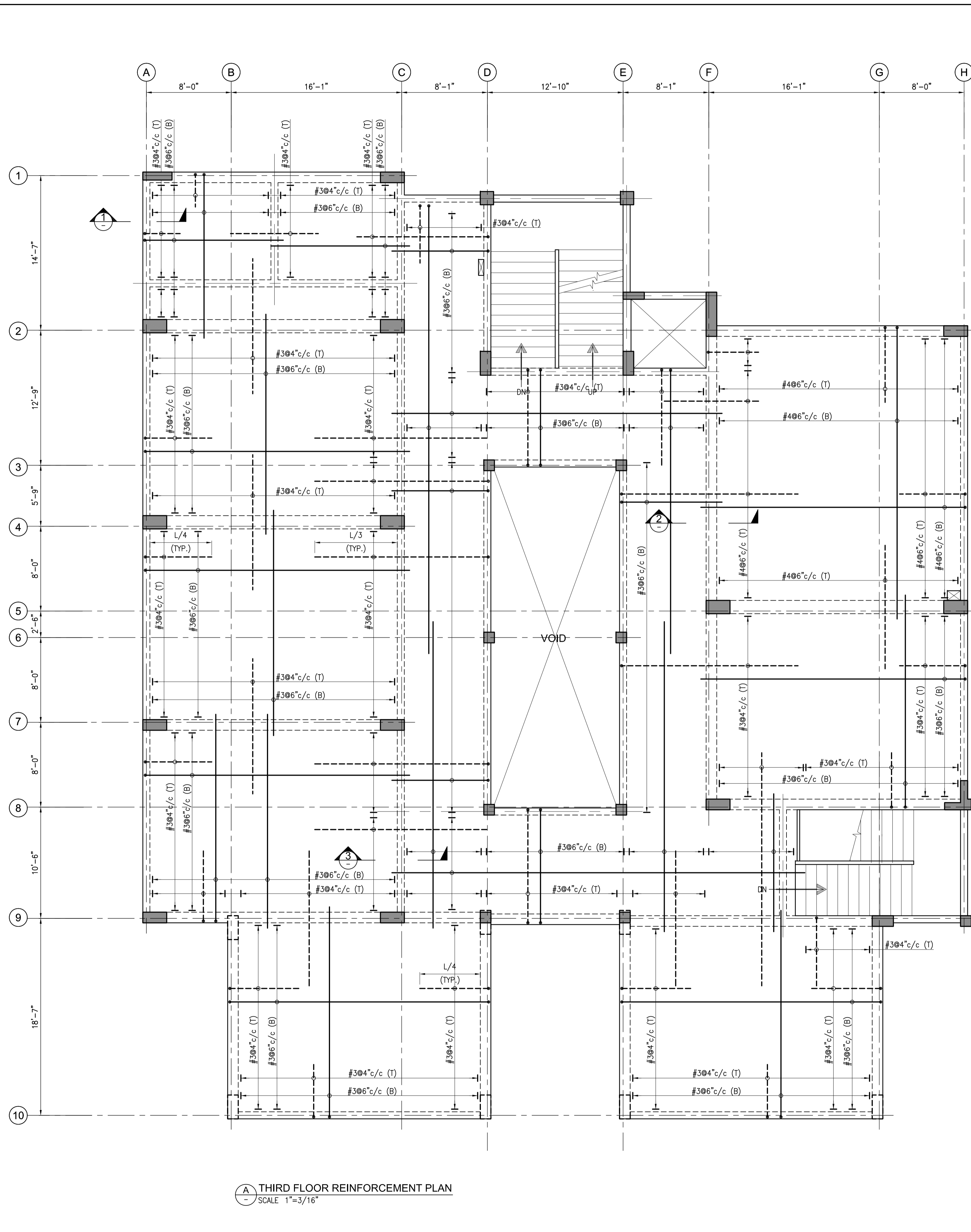
**STRUCTURE**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

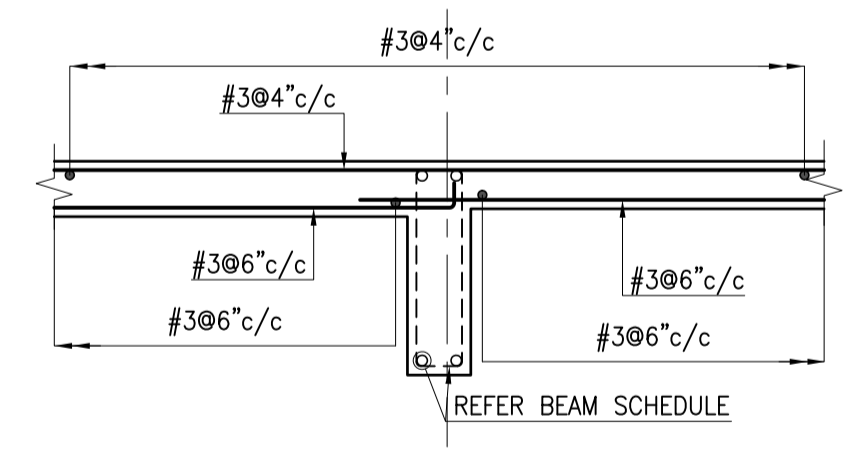
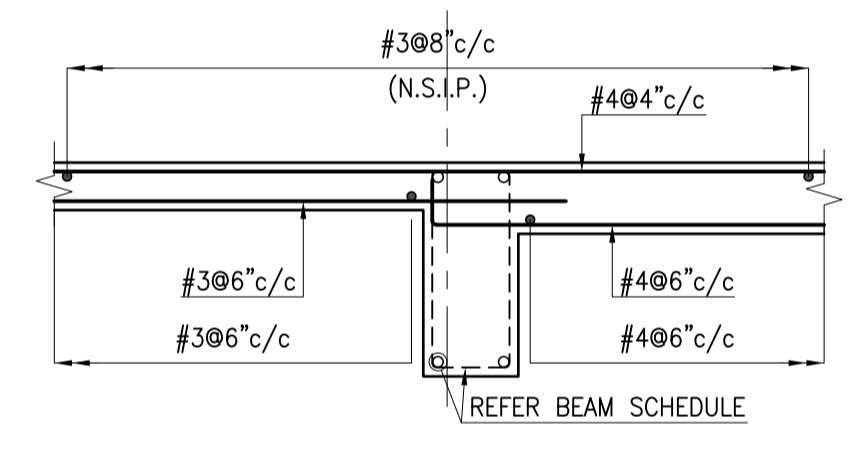
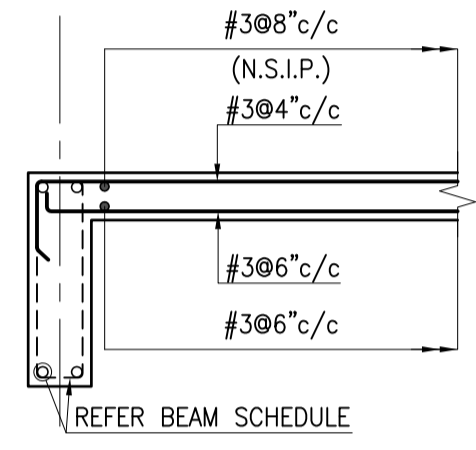
Drawing Title:  
**SECOND FLOOR REINFORCEMENT PLAN & SECTION DETAILS**

Designed : HA	Checked : HA	Approved : AKM
Drawn : MMK	Date : April, 2018	Scale / Sheet :
Project Code : 00986	Rev. : 0	AS SHOWN
Drawing No. : EA-986-SMS-S-3002		



**A THIRD FLOOR REINFORCEMENT PLAN**  
SCALE 1"=3/16"

- NOTES:-**
- 1- ALL LEVEL ARE IN FEET & INCHES.
  - 2- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
  - 3- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH OTHER DISCIPLINES DRAWINGS.
  - 4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SMS-S-0001.
  - 5- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-SMS-S-0011 TO EA-00986-SMS-S-0015.
  - 6- FOR U.G.W.TANK DETAILS REFER DWG. NO. EA-00986-SMS-S-5001.
  - 7- FOR BEAM SCHEDULE REFER DWG. NO. EA-00986-SMS-S-4001.
  - 8- FOR STAIR CASE-1 DETAILS REFER DWG. NO. EA-00986-SMS-S-6001.
  - 9- FOR STAIR CASE-2 DETAILS REFER DWG. NO. EA-00986-SMS-S-6002.



Client:  
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 Email: info@eaworld.com | www.eaworld.com

Project:  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan:

Note:  
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North:

No.	DATE	DESCRIPTION
0	25-05-2018	ISSUED FOR TENDER

REVISIONS

Date of Issue: May 25, 2018  
 Issued To: Client  
 Issued For: Tender

**STRUCTURE**  
 Status: **TENDER**

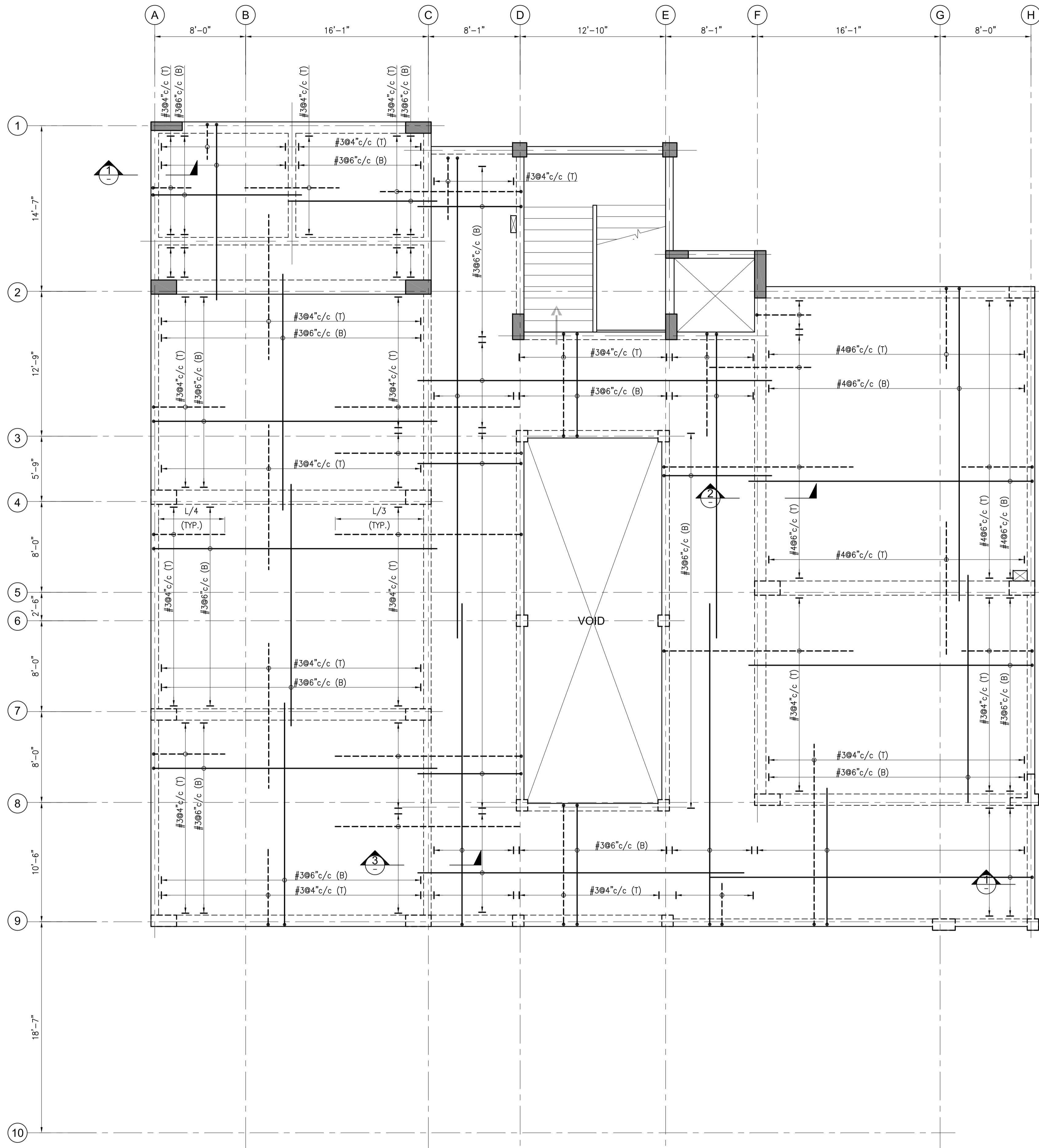
Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title:  
**THIRD FLOOR REINFORCEMENT PLAN & SECTION DETAILS**

Designed : HA	Checked : HA	Approved : AKM
Drawn : MMK	Date : April, 2018	Scale / Sheet :
Project Code : 00986	Rev. : 0	AS SHOWN

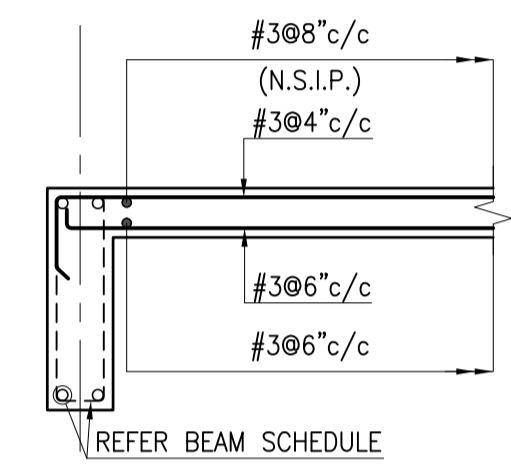
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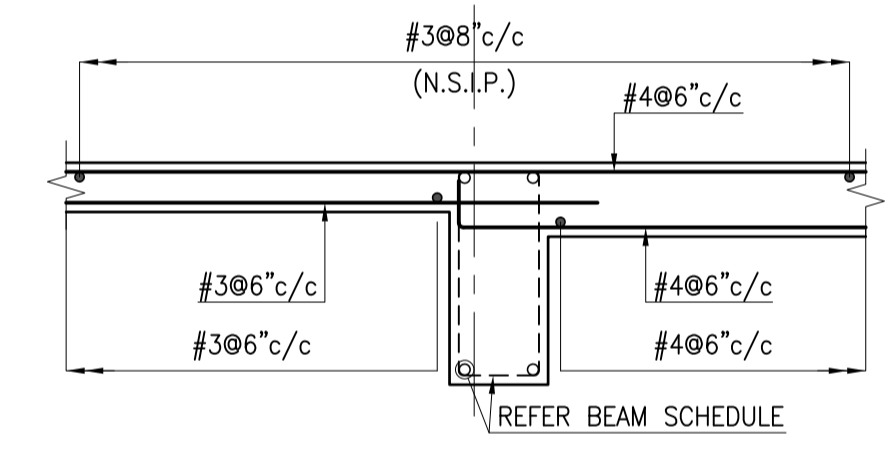


**A** ROOF REINFORCEMENT PLAN  
SCALE 1"=3/16"

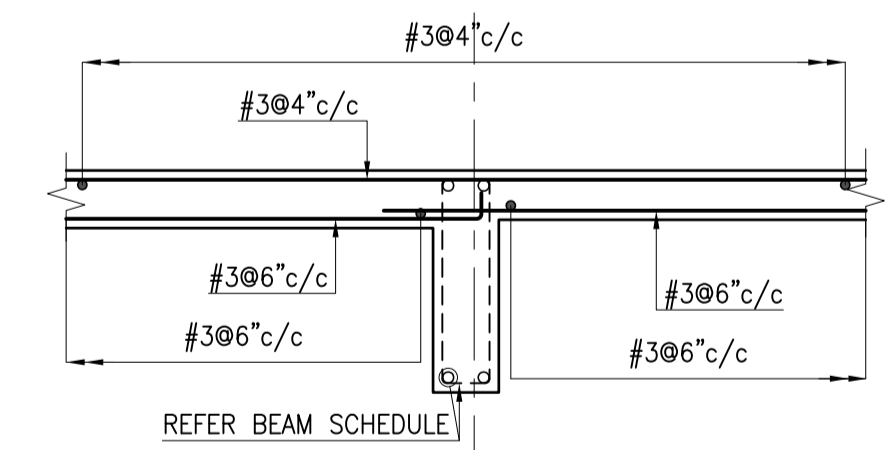
- NOTES:-**
- 1- ALL LEVEL ARE IN FEET & INCHES.
  - 2- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
  - 3- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH OTHER DISCIPLINES DRAWINGS.
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  - 5- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-SMS-S-0011 TO EA-00986-SMS-S-0015.
  - 6- FOR U.G.W.TANK DETAILS REFER DWG. NO. EA-00986-SMS-S-5001.
  - 7- FOR BEAM SCHEDULE REFER DWG. NO. EA-00986-SMS-S-4001.
  - 8- FOR STAIR CASE-1 DETAILS REFER DWG. NO. EA-00986-SMS-S-6001.
  - 9- FOR STAIR CASE-2 DETAILS REFER DWG. NO. EA-00986-SMS-S-6002.



SECTION 1  
SCALE 1"=1/2"



SECTION 2  
SCALE 1"=1/2"



SECTION 3  
SCALE 1"=1/2"

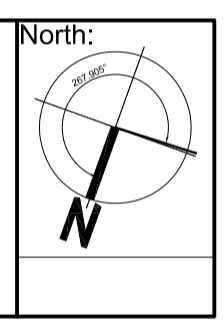


Client :  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. 111-111-584, Fax No. 584-1825  
 Email : info@saworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :  
 (Blank area for key plan)

- Note:
- All Dimensions to be confirmed on site with architect.
  - Do not scale.
  - Only written dimensions to be followed.
  - Any discrepancies to be clarified with the architect.
  - For structure details refer structure engineer drawings / details



No.	DATE	DESCRIPTION
0	25-05-2018	ISSUED FOR TENDER

Date of Issue: May 25, 2018  
 Issued To: Client  
 Issued For: Tender

**STRUCTURE**  
**TENDER**

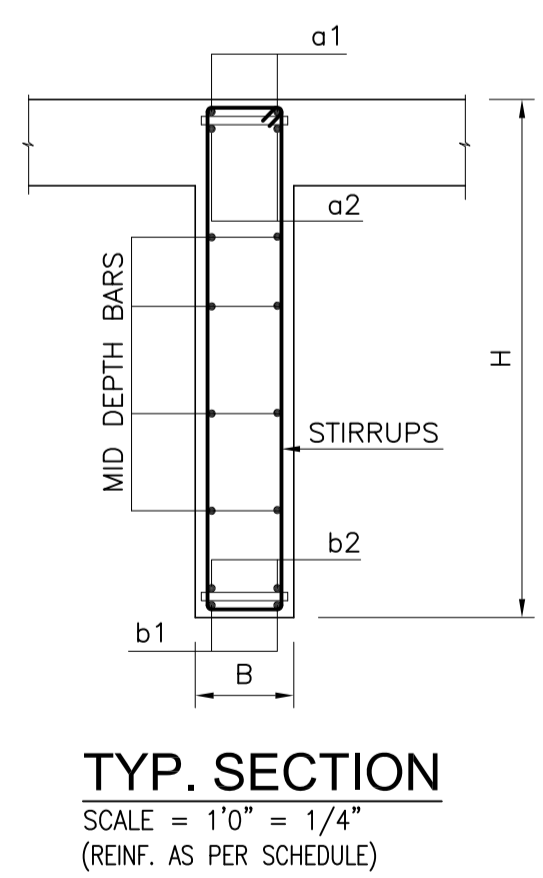
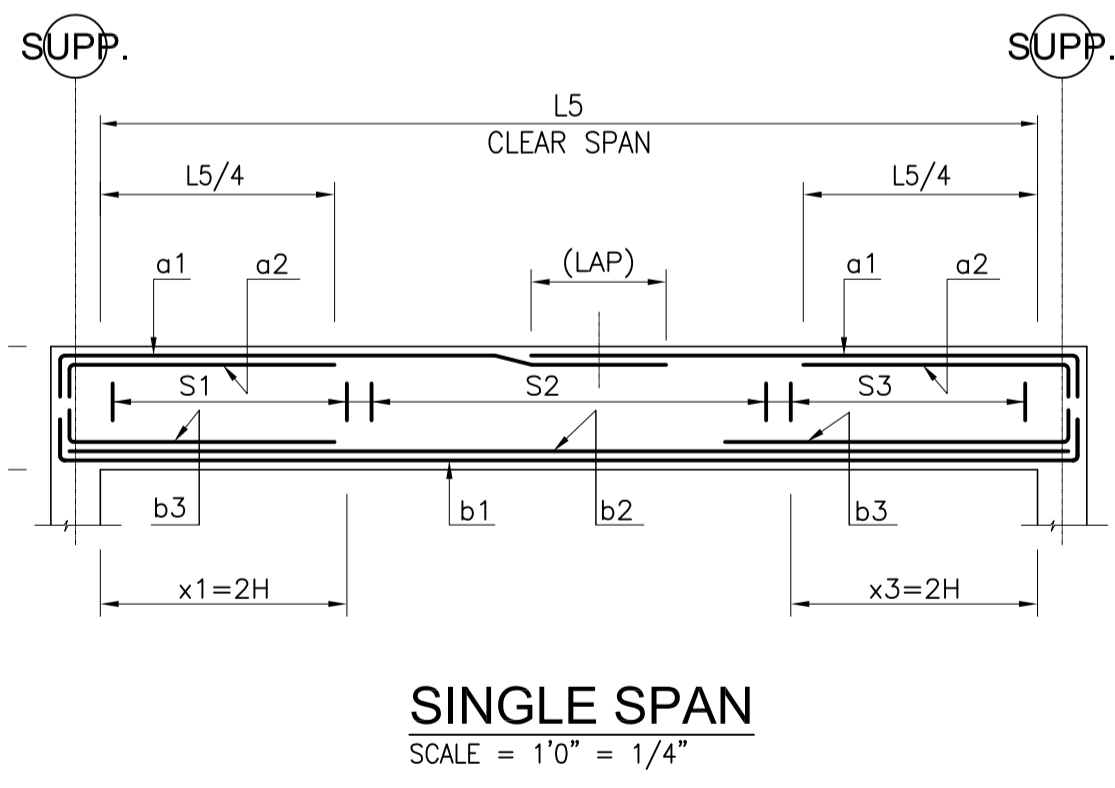
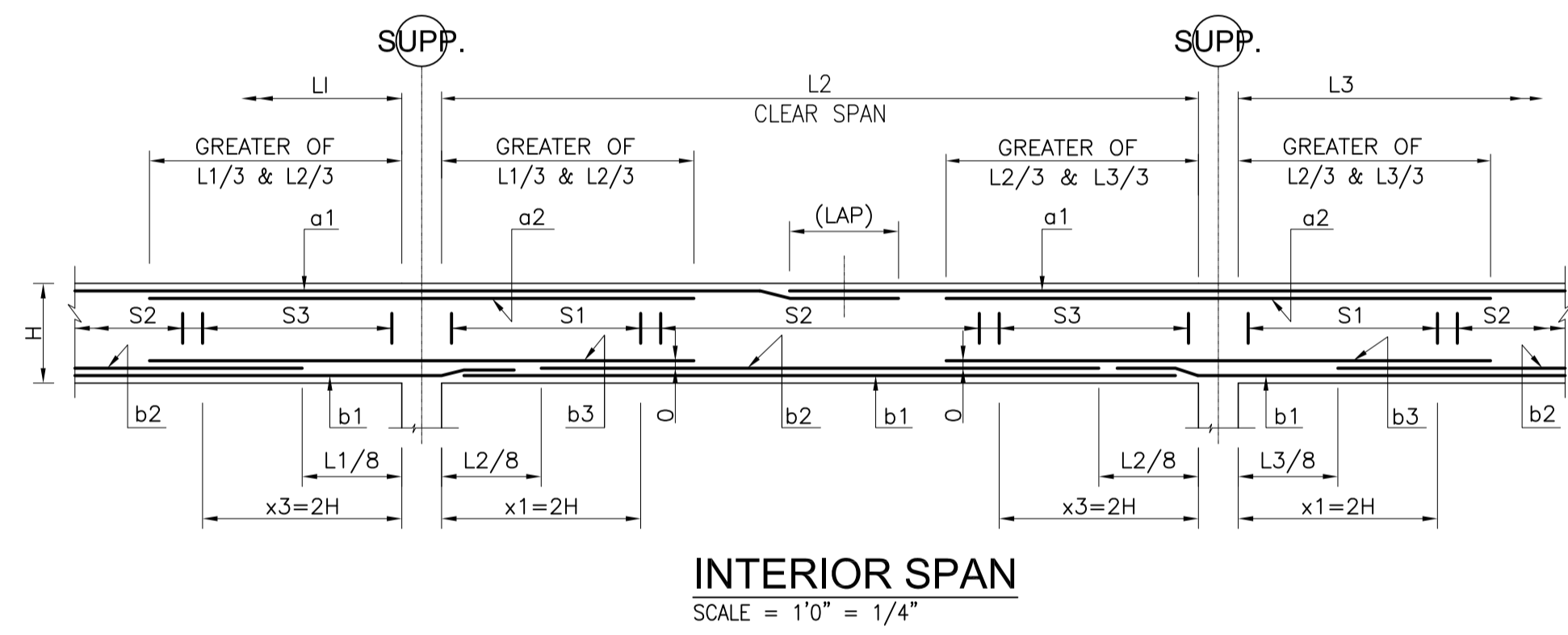
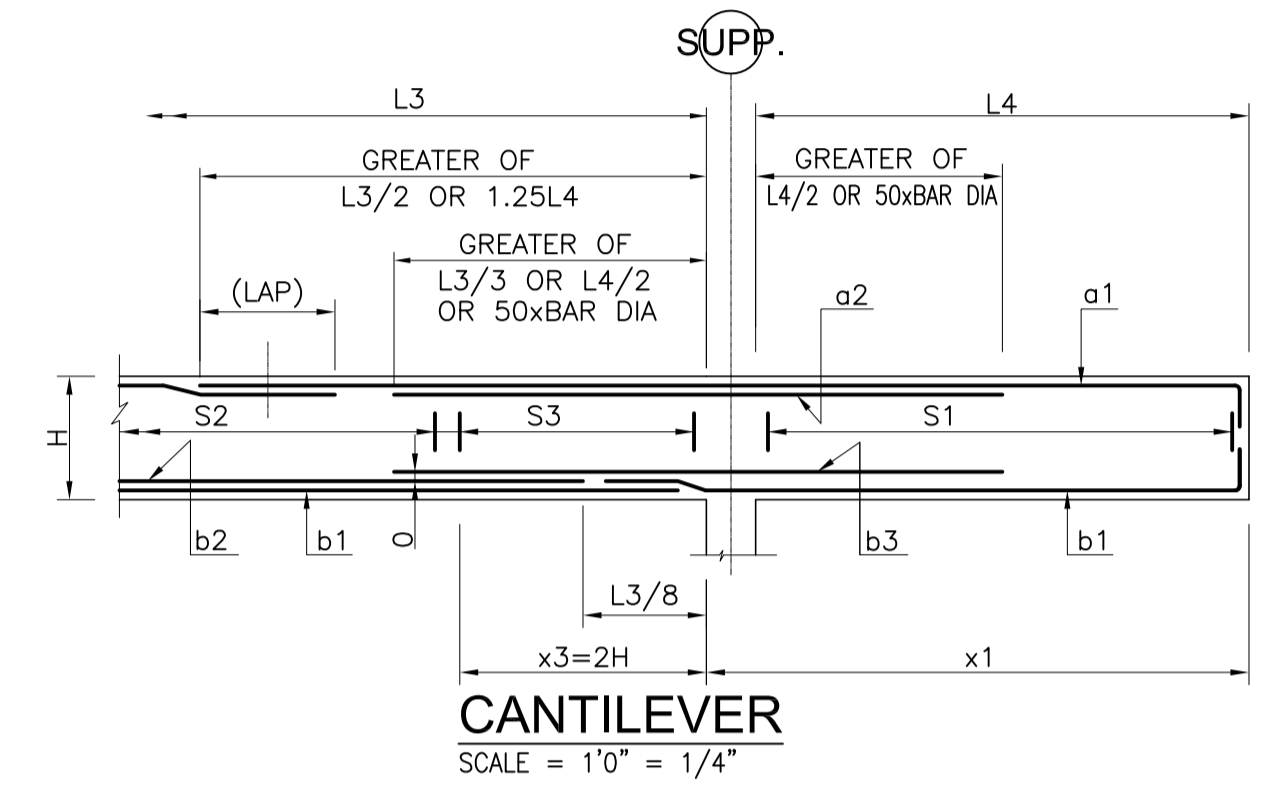
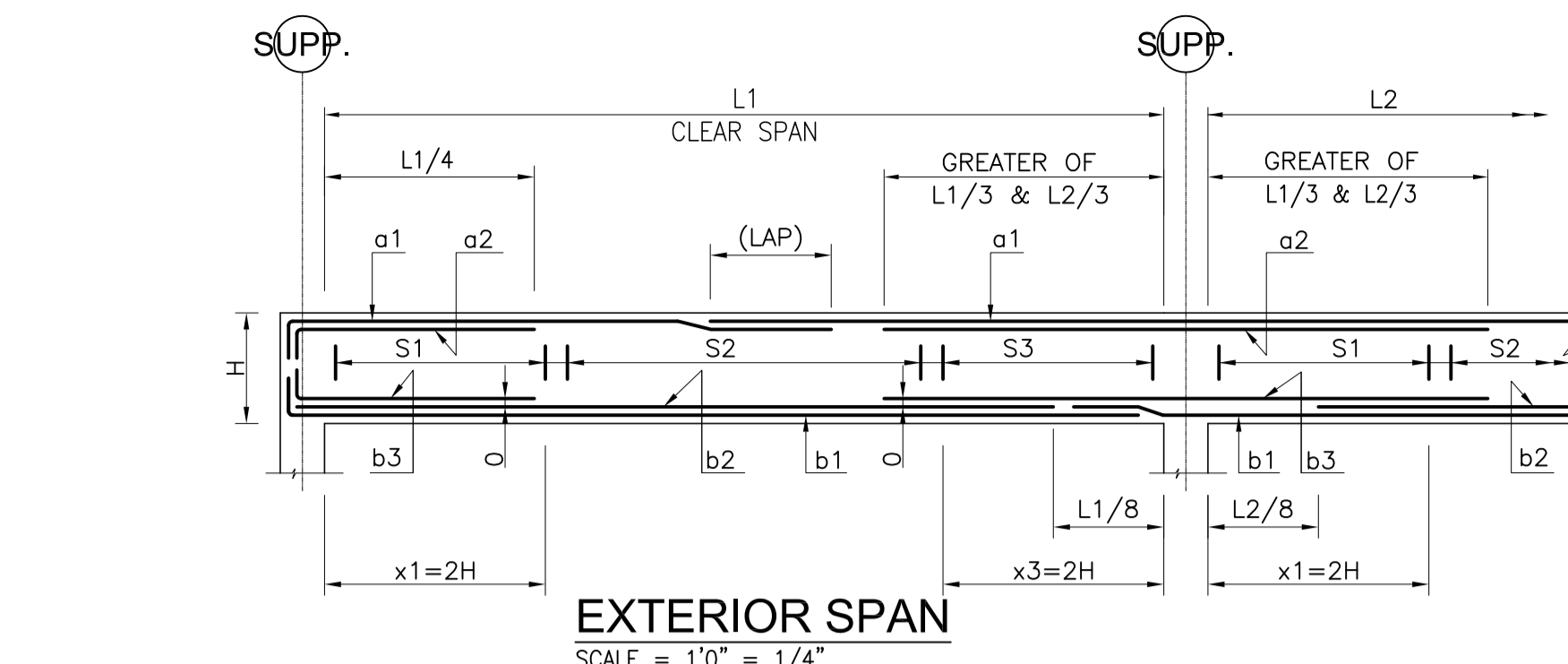
Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title :  
**ROOF REINFORCEMENT PLAN & SECTION DETAILS**

Designed : HA	Checked : HA	Approved : AKM
Drawn : MMK	Date : April, 2018	Scale / Sheet : AS SHOWN
Project Code : 00986	Rev. : 0	
Drawing No. : EA-986-SMS-S-3004		

# SMIU - MODEL SCHOOL

S.NO	MARK	SIZE		TOP REINFORCEMENT (SUPPORTS)				BOTTOM REINFORCEMENT (SPAN)			STIRRUP (ALL #3 UNLESS SPECIFIED)			MID DEPTH REINF. (EF)	REMARKS
				LEFT/TOP SUPPORT*		RIGHT/TOP SUPPORT*									
		B	H	a1	a2	a1	a2	b1	b2	b3	s1(x1)	s2	s3(x3)		
<b>PLINTH LEVEL</b>															
1	PB-1	8"	27"	3 #5	3 #5	3 #5	3 #5	3 #5	-	-	5"	10"	5"		
2	PB-1A	8"	27"	3 #5	3 #5	3 #5	3 #5	3 #5	-	-	5"	10"	5"		
3	PB-1B	8"	27"	3 #5	3 #5	3 #5	3 #5	3 #5	-	-	5"	10"	5"		
4	PB-2	8"	27"	2#4	-	2#4	-	3 #5	2#5	-	5"	10"	5"		
5	PB-3	8"	27"	2#5	2#5	2#5	2#5	3#5	-	-	5"	10"	5"		
6	PB-3A	8"	27"	3#5	3#5	3#5	3#5	3#5	3#5	-	5"	10"	5"		
7	PB-3B	8"	27"	3#5	3#5	3#5	-	3#5	3#5	-	5"	10"	5"		
8	PB-4	8"	27"	2#4	-	2#5	-	2#5	-	-	5"	10"	5"		
9	PB-5	8"	27"	2#5	-	3#5	-	3#5	-	-	5"	10"	5"		
10	PB-6	8"	27"	3#5	-	3#5	2#5	3#5	3#5	-	5"	10"	5"		
11	PB-7	8"	27"	3#5	2#5	3#5	2#5	3#5	-	-	5"	5"	5"		
12	PB-8	8"	27"	3#5	2#5	3#5	2#5	3#5	2#5	-	5"	10"	5"		
13	PB-9	8"	27"	3#5	2#5	3#5	2#5	3#5	2#5	-	5"	10"	5"		
14	PB-10	8"	27"	3#5	2#5	3#5	2#5	3#5	2#5	-	5"	10"	5"		
15	PB-11	8"	27"	3#5	2#5	3#5	2#5	3#5	-	-	5"	10"	5"		
16	PB-12	8"	27"	3#5	2#5	3#5	2#5	3#5	2#5	-	5"	5"	5"		
17	PB-13	8"	27"	3#5	2#5	3#5	2#5	3#5	-	-	5"	10"	5"		
18	PB-14	8"	27"	2#4	-	2#4	-	2#5	2#4	-	5"	10"	5"		
19	PB-15	8"	27"	3#5	2#5	3#5	2#5	3#5	-	-	5"	10"	5"		
20	PB-16	8"	27"	3#5	2#5	3#5	2#5	3#5	-	-	5"	10"	5"		
21	PB-17	8"	27"	3#5	2#5	3#5	2#5	3#5	-	-	5"	5"	5"		
22	PB-18	8"	27"	3#6	2#6	3#6	2#6	3#6	2#5	-	5"	10"	5"		
23	PB-19	8"	27"	3#5	2#5	3#5	2#5	3#5	2#5	-	5"	10"	5"		
24	PB-20A	8"	27"	2#4	-	2#4	-	2#4	-	-	4"	8"	4"		
25	PB-20	8"	27"	3#5	2#5	3#5	2#5	3#5	-	-	5"	10"	5"		
26	PB-21	8"	27"	3#5	2#5	3#5	2#5	3#5	-	-	5"	10"	5"		
<b>1st Floor</b>															
1	1B-1	12"	27"	4 #6	4 #6	4 #6	4 #6	4 #6	-	-	4"	8"	4"		
2	1B-2	8"	27"	3 #6	3 #5	3 #6	3 #5	3 #6	-	-	4"	8"	4"		
3	1B-2A	8"	18"	3 #5	3 #5	3 #5	3 #5	3 #5	-	-	4"	4"	4"		
4	1B-3	8"	27"	2#4	-	2#4	-	3 #5	3 #5	-	4"	8"	4"		
5	1B-3A	8"	27"	2#4	-	2#4	-	3 #5	-	-	4"	8"	4"		
6	1B-4	15"	36"	6#6	6#6	6#6	6#6	6#6	-	-	2-#306"	2-#306"	2-#306"		
7	1B-5	15"	27"	6#6	4#6	6#6	4#6	6#6	-	-	2-#305"	2-#305"	2-#305"		
8	1B-6	8"	27"	2#5	2#5	2#5	2#5	2#5	2#4	-	5"	10"	5"		
9	1B-7	12"	27"	5#6	2#6	5#6	2#6	5#6	-	-	2-#306"	2-#306"	2-#306"		
10	1B-8	12"	27"	4#6	-	4#6	-	4#5	-	2#5	4"	8"	4"		
11	1B-9	12"	27"	4#6	-	4#6	-	4#5	-	2#5	4"	8"	4"		
12	1B-10	12"	27"	4#6	2#6	4#6	2#6	4#5	2#5	-	4"	4"	4"		
13	1B-10A	8"	27"	3#5	3#5	3#5	3#5	3#6	-	-	5"	10"	5"		
14	1B-11	8"	27"	3#5	3#5	3#6	2#6	3#6	-	-	5"	5"	5"		
15	1B-11A	8"	27"	3#6	2#6	3#6	2#6	3#6	-	-	5"	10"	5"		
16	1B-12	12"	27"	5#5	-	5#6	2#6	4#5	-	-	5"	10"	5"		
17	1B-12A	12"	27"	5#6	2#6	5#6	2#6	4#6	-	-	5"	10"	5"		
18	1B-13	12"	27"	6#5	-	5#6	4#6	4#5	-	-	5"	10"	5"		
19	1B-13A	12"	27"	5#6	4#6	5#6	4#6	5#6	-	-	2-#306"	2-#306"	2-#306"		
<b>2nd Floor</b>															
1	2B-1	12"	27"	5 #6	3 #6	5 #6	3 #6	5 #6	-	-	4"	4"	4"		
2	2B-2	8"	27"	3 #6	3 #6	3 #6	3 #6	3 #5	-	-	4"	8"	4"		
3	2B-2A	8"	18"	3 #5	3 #5	3 #5	3 #5	3 #5	-	-	4"	4"	4"		
4	2B-3	8"	27"	2#5	-	2#5	-	3#5	-	-	4"	8"	4"		
5	2B-3A	8"	27"	2#4	-	2#4	-	3#5	-	-	4"	8"	4"		
6	2B-4	15"	27"	6#6	4#6	6#6	4#6	6#6	-	-	2-#305"	2-#305"	2-#305"		
7	2B-5	12"	21"	5#6	2#6	5#6	2#6	5#5	-	-	2-#306"	2-#306"	2-#306"		
8	2B-6	8"	27"	2#5	2#5	2#5	2#5	2#5	2#5	-	4"	8"	4"		
9	2B-8	12"	27"	5#5	-	5#5	-	4#5	-	-	4"	8"	4"		
10	2B-9	12"	27"	5#5	-	5#5	-	4#5	-	-	4"	8"	4"		
11	2B-10	12"	27"	5#5	3#5	5#5	3#5	5#5	-	-	4"	4"	4"		
12	2B-10A	8"	27"	3#6	2#6	3#6	2#6	3#5	2#5	-	4"	8"	4"		
13	2B-11	8"	27"	3#6	2#4	3#6	2#4	3#5	-	-	4"	8"	4"		
14	2B-11A	8"	27"	3#6	2#4	3#6	2#4	3#5	-	-	4"	8"	4"		
15	2B-12	8"	27"	3#6	-	3#6	3+2#6	3#5	-	-	4"	8"	4"		
16	2B-12A	8"	27"	3#6	3+2#6	3#6	3+2#6	3#5	3#5	-	4"	8"	4"		
17	2B-13	12"	27"	5#5	-	5#6	4#6	4#5	-	-	4"	8"	4"		
18	2B-13A	12"	27"	5#6	4#6	5#6	4#6	5#6	2#6	-	2-#305"	2-#305"	2-#305"		



Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. : 111-111-584, Fax No. : 584-1825  
 Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :  
 Note:  
 • All Dimensions to be confirmed on site with architect.  
 • Do not scale.  
 • Only written dimensions to be followed.  
 • Any discrepancies to be clarified with the architect.  
 • For structure details refer, structure engineer drawings / details

No.	DATE	DESCRIPTION
0	25-05-2018	ISSUED FOR TENDER

Date of Issue : May 25, 2018  
 Issued To : Client  
 Issued For : Tender

**STRUCTURE**

Status: **TENDER**

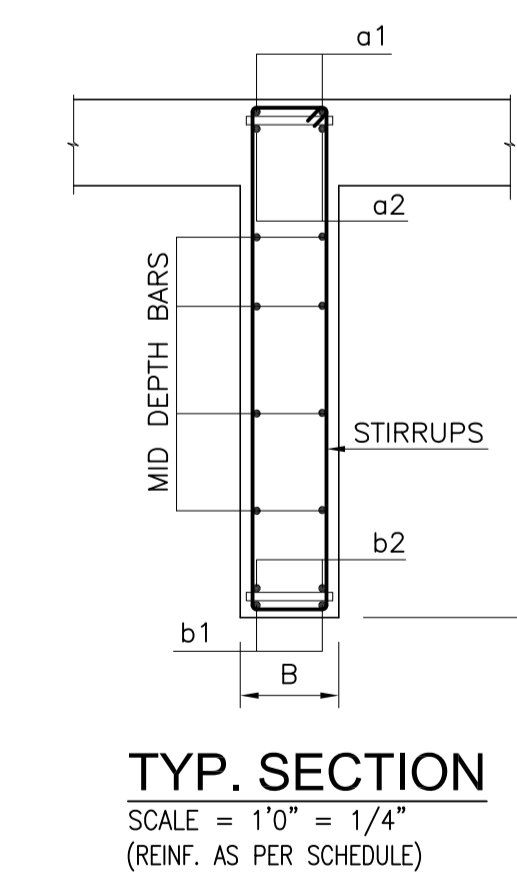
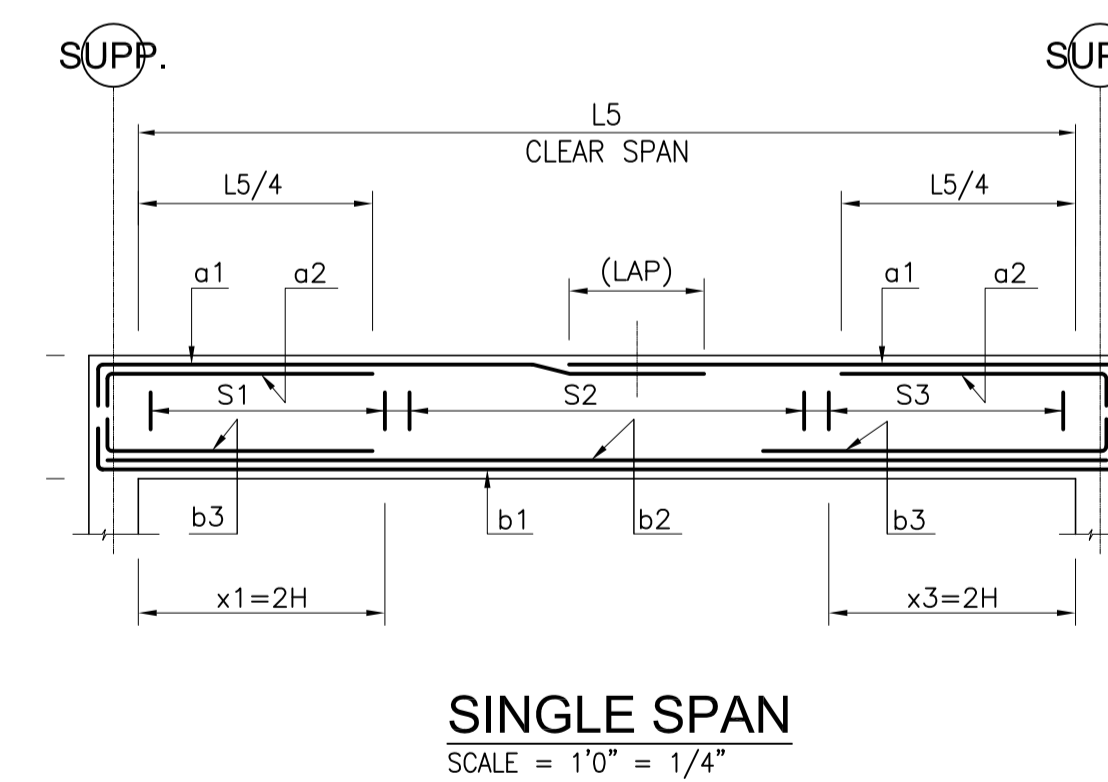
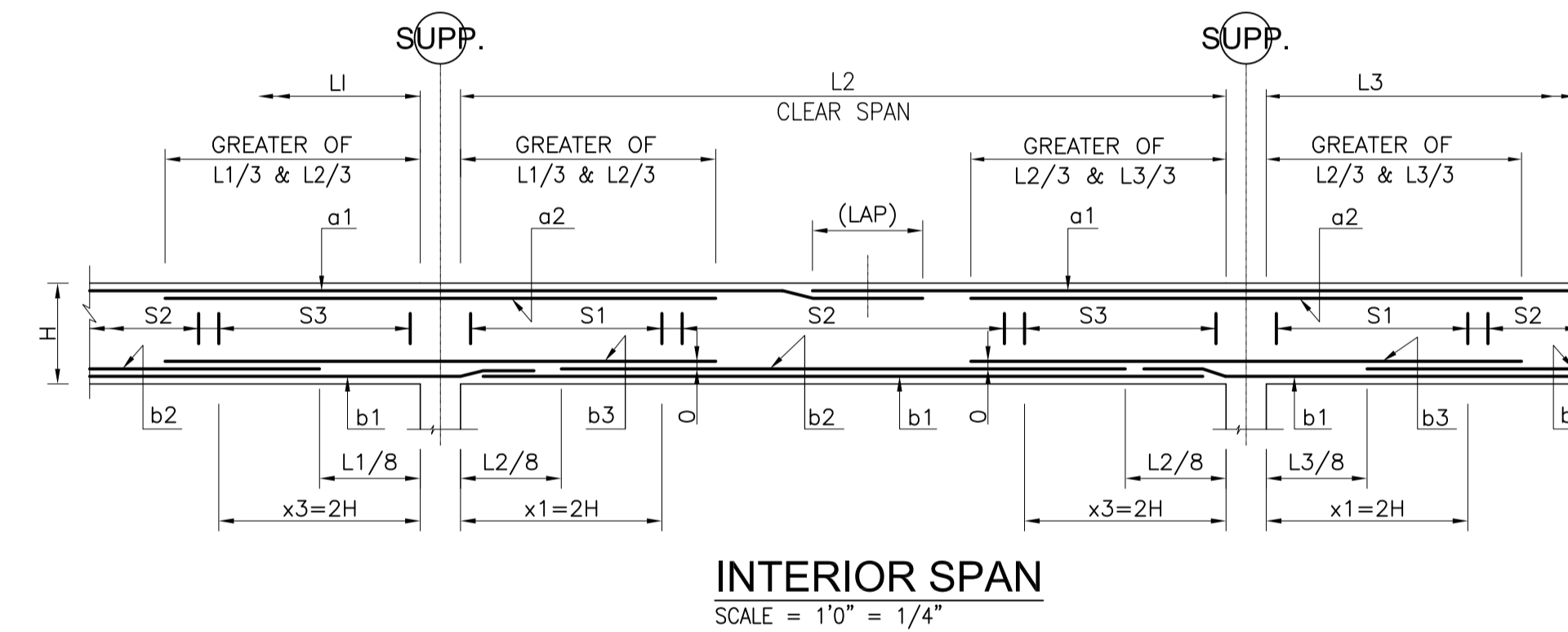
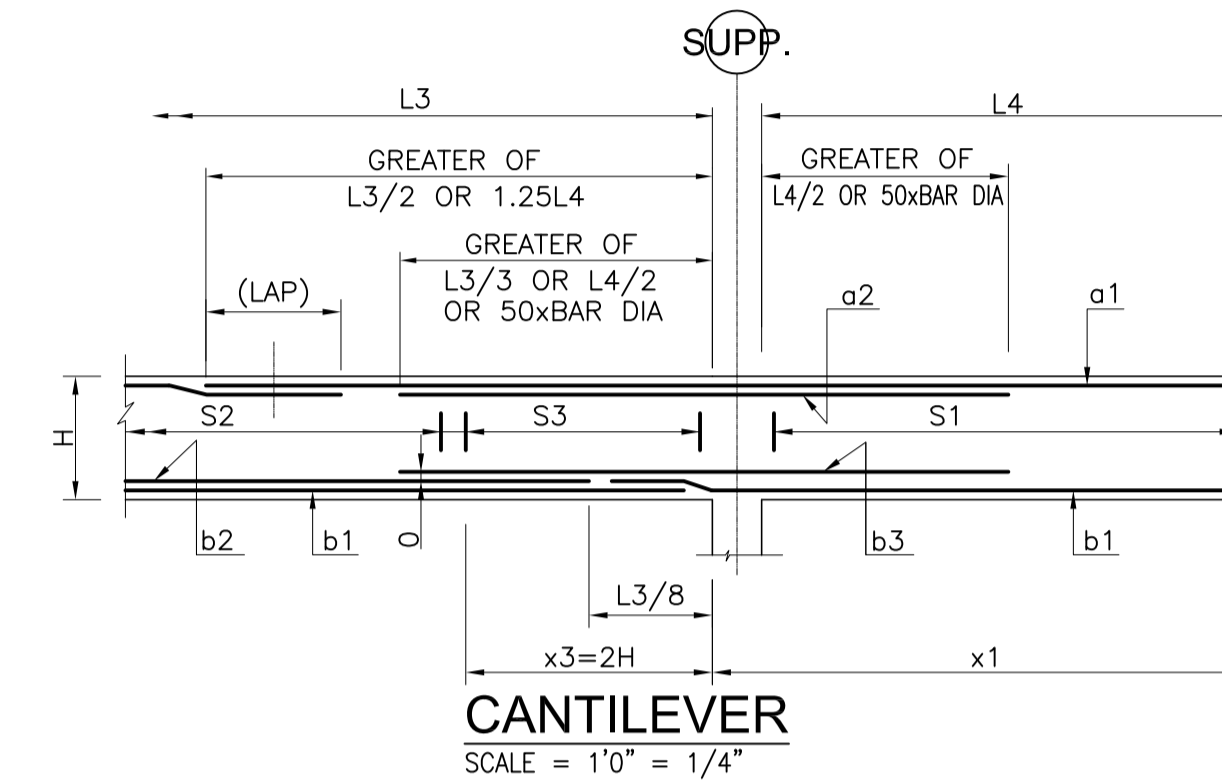
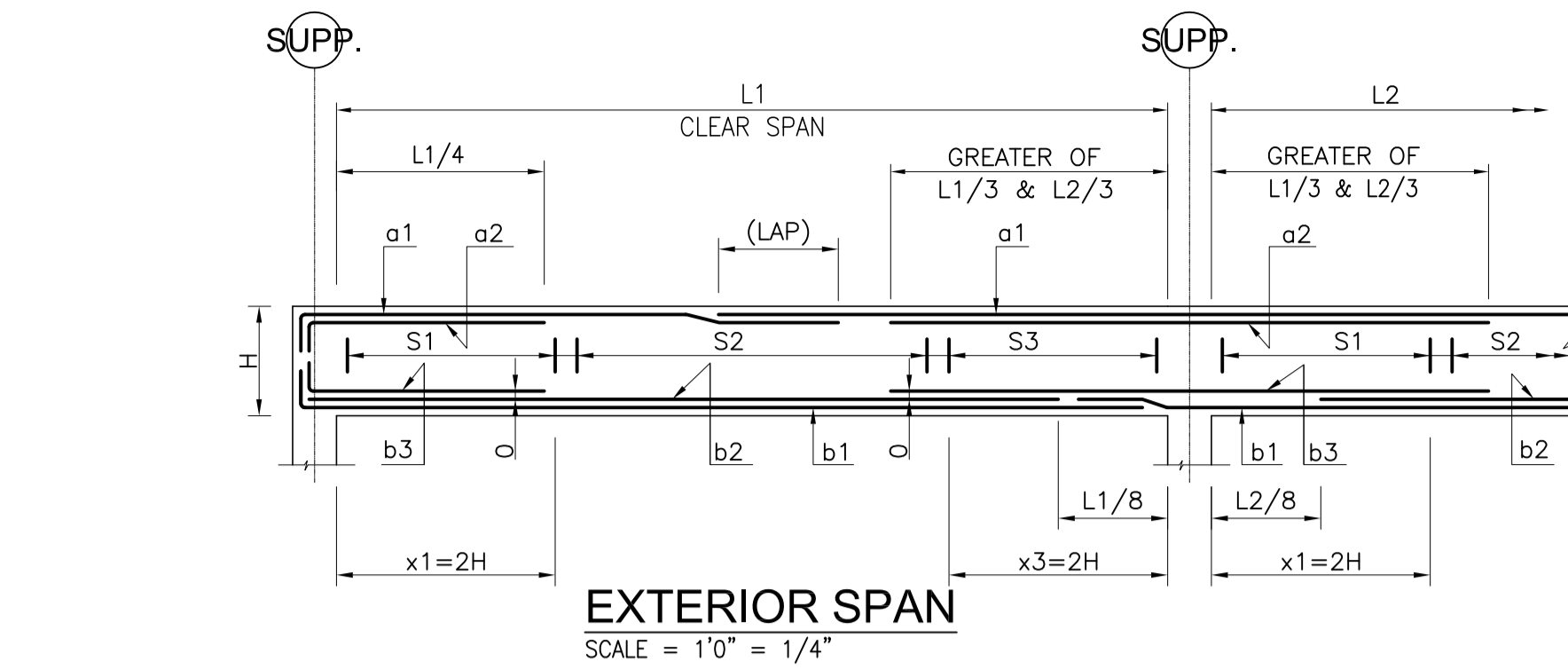
Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title :  
**BEAM SCHEDULE (SHEET 1 OF 2)**

Designed : HA	Checked : HA	Approved : AKM
Drawn : MMK	Date : April, 2018	Scale / Sheet : AS SHOWN
Project Code : 00986	Rev. : 0	
Drawing No. : EA-986-SMS-S-4001		

# SMIU - MODEL SCHOOL

S.NO	MARK	SIZE		TOP REINFORCEMENT (SUPPORTS)				"BOTTOM REINFORCEMENT (SPAN)"			"STIRRUP (ALL #3 UNLESS SPECIFIED)"			"MID DEPTH REINF. (EF)"	REMARKS
		B	H	"LEFT/TOP SUPPORT"		"RIGHT/TOP SUPPORT"		b1	b2	b3	s1(x1)	s2	s3(x3)		
<b>3rd Floor</b>															
1	3B-1	12"	27"	5 #6	3 #6	5 #6	3 #6	5 #6	-	-	4"	4"	4"		
2	3B-2	8"	27"	3 #6	3 #6	3 #6	3 #6	3 #5	-	-	4"	8"	4"		
3	2B-2A	8"	18"	3 #5	3 #5	3 #5	3 #5	3 #5	-	-	4"	4"	4"		
4	3B-3	8"	27"	2#5	-	2#5	-	3#5	-	-	4"	8"	4"		
6	3B-4	15"	27"	6#6	4#6	6#6	4#6	6#6	-	-	2-#305"	2-#305"	2-#305"		
7	3B-5	12"	27"	5#6	2#6	5#6	2#6	6#5	-	-	2-#306"	2-#306"	2-#306"		
8	3B-6	8"	27"	3#5	-	3#5	-	3#5	-	-	4"	8"	4"		
9	3B-7	12"	27"	5#6	2#6	5#6	2#6	6#5	-	-	2-#306"	2-#306"	2-#306"		
10	3B-8	12"	27"	5#5	-	5#5	-	4#5	-	-	4"	8"	4"		
11	3B-3	12"	27"	5#5	-	5#5	-	4#5	-	-	4"	8"	4"		
12	3B-10	12"	27"	5#5	4#5	5#5	4#5	5#5	2#5	-	4"	4"	4"		
13	3B-10A	8"	27"	3#6	-	3#6	-	3#5	2#5	-	4"	8"	4"		
14	3B-11	8"	27"	3#5	2#5	3#5	2#5	3#5	-	-	4"	8"	4"		
15	3B-11A	8"	27"	3#5	3#5	3#5	3#5	3#5	-	-	4"	8"	4"		
16	3B-12	8"	27"	3#6	-	3#6	3+2#6	3#5	-	-	4"	8"	4"		
17	3B-12A	8"	27"	3#6	3+2#6	3#6	3+2#6	3#5	3#5	-	4"	8"	4"		
18	3B-13	12"	27"	5#5	-	5#6	4#6	4#5	-	-	4"	8"	4"		
19	3B-13A	12"	27"	5#6	4#6	5#6	4#6	5#6	2#6	-	2-#305"	2-#305"	2-#305"		
<b>Roof Floor</b>															
1	RB-1	12"	27"	6 #5	-	6 #5	-	5 #5	-	-	4"	4"	4"		
2	RB-2	8"	27"	3 #5	3 #5	3 #5	3 #5	3 #5	-	-	4"	8"	4"		
3	2B-2A	8"	18"	3 #5	2 #5	3 #5	2 #5	3 #5	-	-	4"	4"	4"		
4	RB-3	8"	27"	2#4	-	2#4	-	3#5	-	-	4"	8"	4"		
6	RB-4	15"	27"	6#6	-	6#6	-	6#5	-	-	4"	8"	4"		
7	RB-5	12"	27"	5#6	-	5#6	-	5#5	-	-	4"	8"	4"		
8	RB-6	8"	27"	2#5	-	2#5	-	2#5	-	-	4"	8"	4"		
9	RB-7	12"	27"	4#5	-	4#5	-	3#5	-	-	4"	8"	4"		
10	RB-8	12"	27"	4#5	-	4#5	-	3#5	-	-	4"	8"	4"		
11	RB-9	8"	27"	3#5	-	3#6	-	3#5	-	-	4"	8"	4"		
12	RB-10	8"	27"	3#6	-	2#5	-	2#5	-	-	4"	8"	4"		
14	RB-11	8"	27"	3#5	2#5	3#5	2#5	3#5	-	-	4"	8"	4"		
15	RB-11A	8"	27"	3#5	2#4	3#5	2#4	2#5	-	-	4"	8"	4"		
16	RB-12	8"	27"	3#5	-	3#5	2#5	2#5	-	-	4"	8"	4"		
17	RB-12A	8"	27"	3#5	2#5	3#5	2#5	2#5	-	-	4"	8"	4"		
18	RB-13	12"	27"	5#5	-	5#5	3#5	3#5	-	-	4"	8"	4"		
19	RB-13A	12"	27"	5#5	3#5	5#5	3#5	5#5	-	-	4"	8"	4"		
<b>Upper Roof Floor</b>															
1	URB-1	8"	27"	3 #5	-	3 #5	-	2 #5	-	-	4"	4"	4"		



Client :

Consultant :

**EA Consulting Pvt Ltd**  
Head Office: AL-9, 15th Lane, Khayaban-e-Hind, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. : 111-111-584, Fax No. : 584-1825  
Email : info@eaworld.com | www.eaworld.com

Project :

**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

Note:

- All Dimensions to be confirmed on site with architect.
- Do not scale.
- Only written dimensions to be followed.
- Any discrepancies to be clarified with the architect.
- For structure details refer, structure engineer drawings / details

North:

No.	DATE	DESCRIPTION
0	25-05-2018	ISSUED FOR TENDER

REVISIONS

Date of Issue	May 25, 2018
Issued To	Client
Issued For	Tender

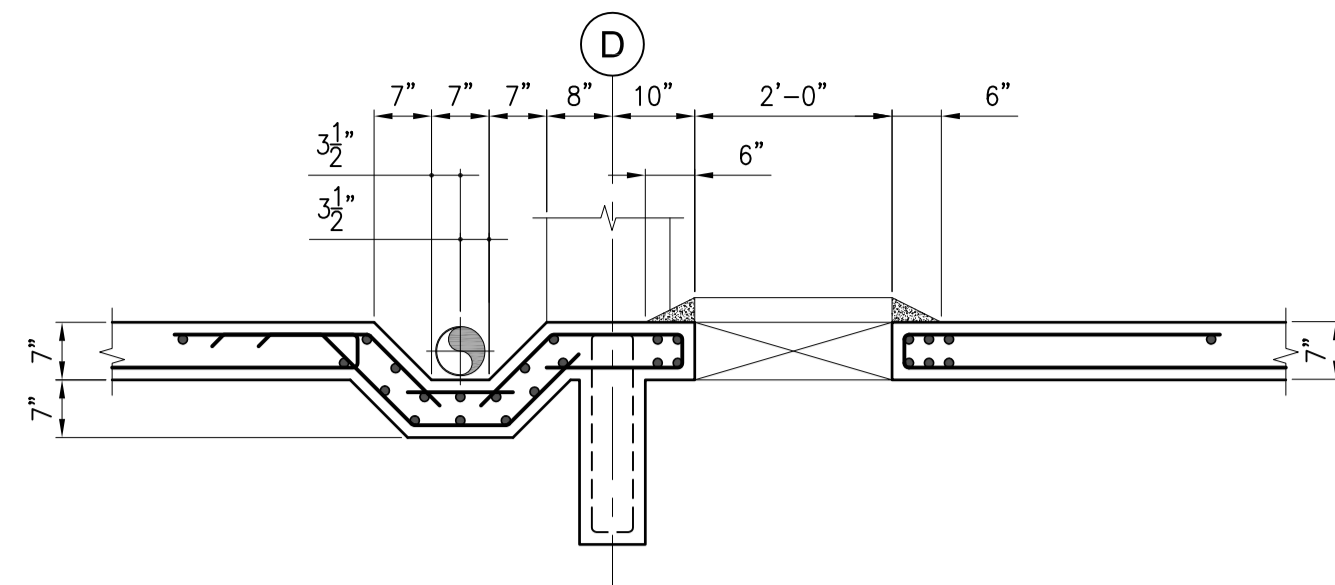
**STRUCTURE**

Status: **TENDER**

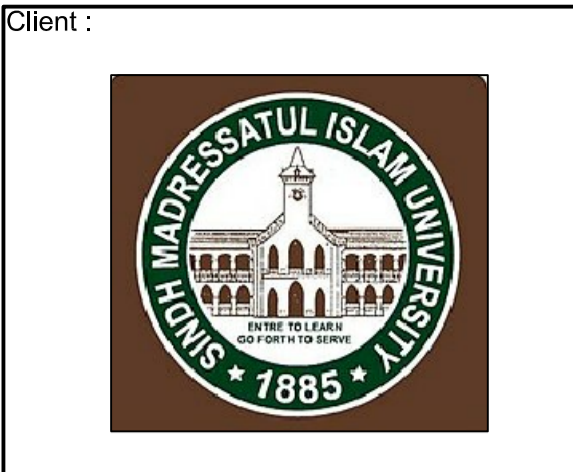
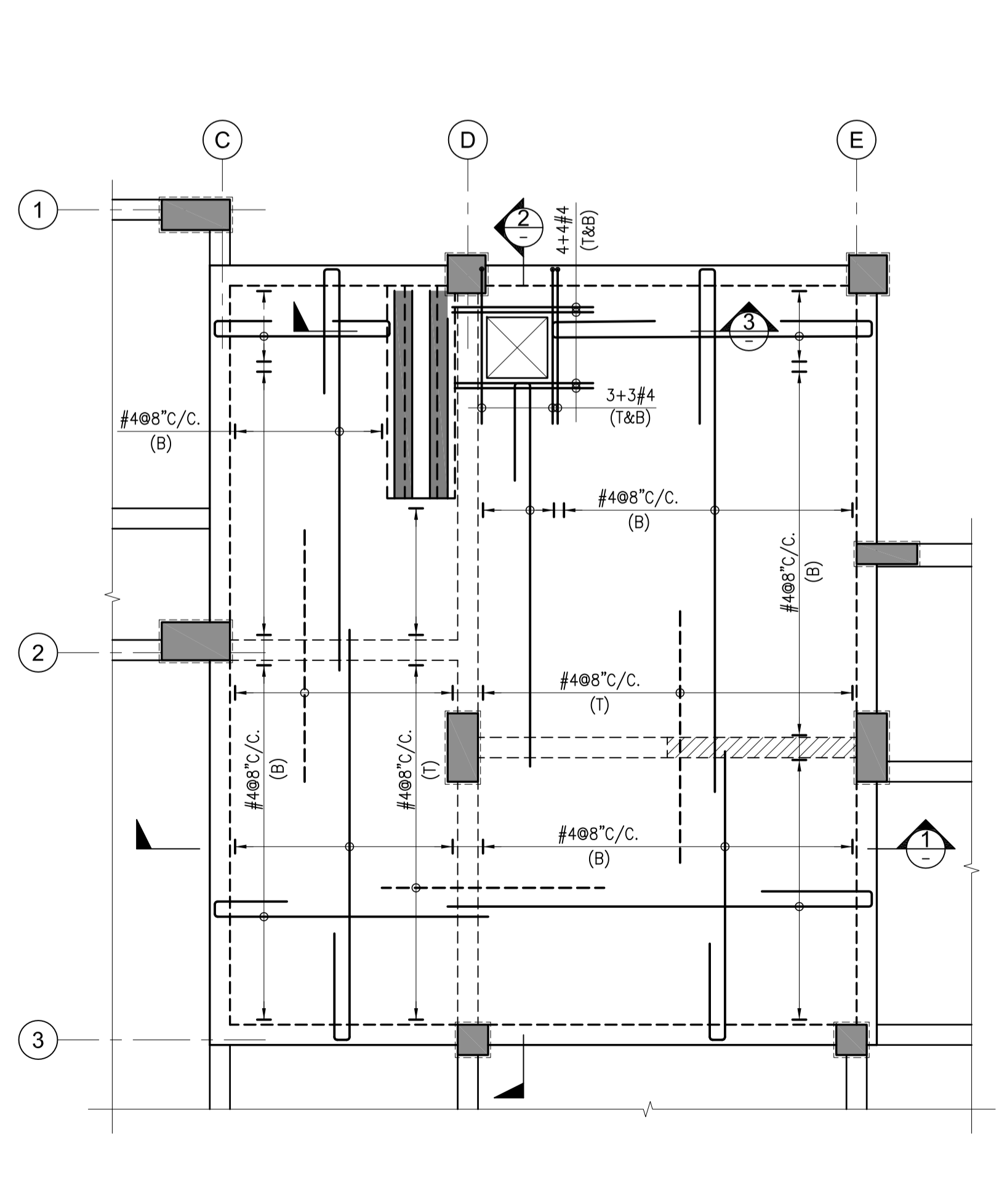
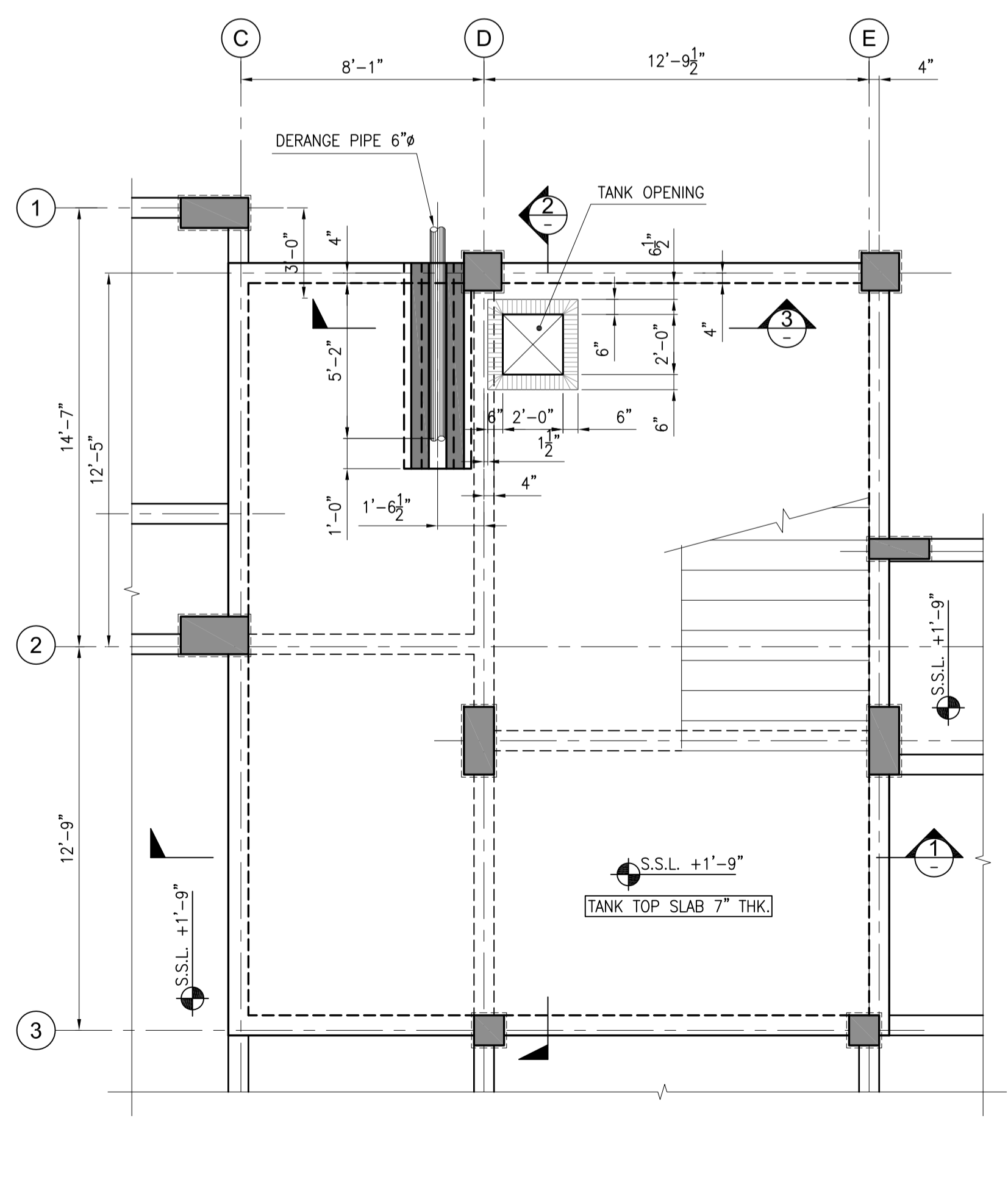
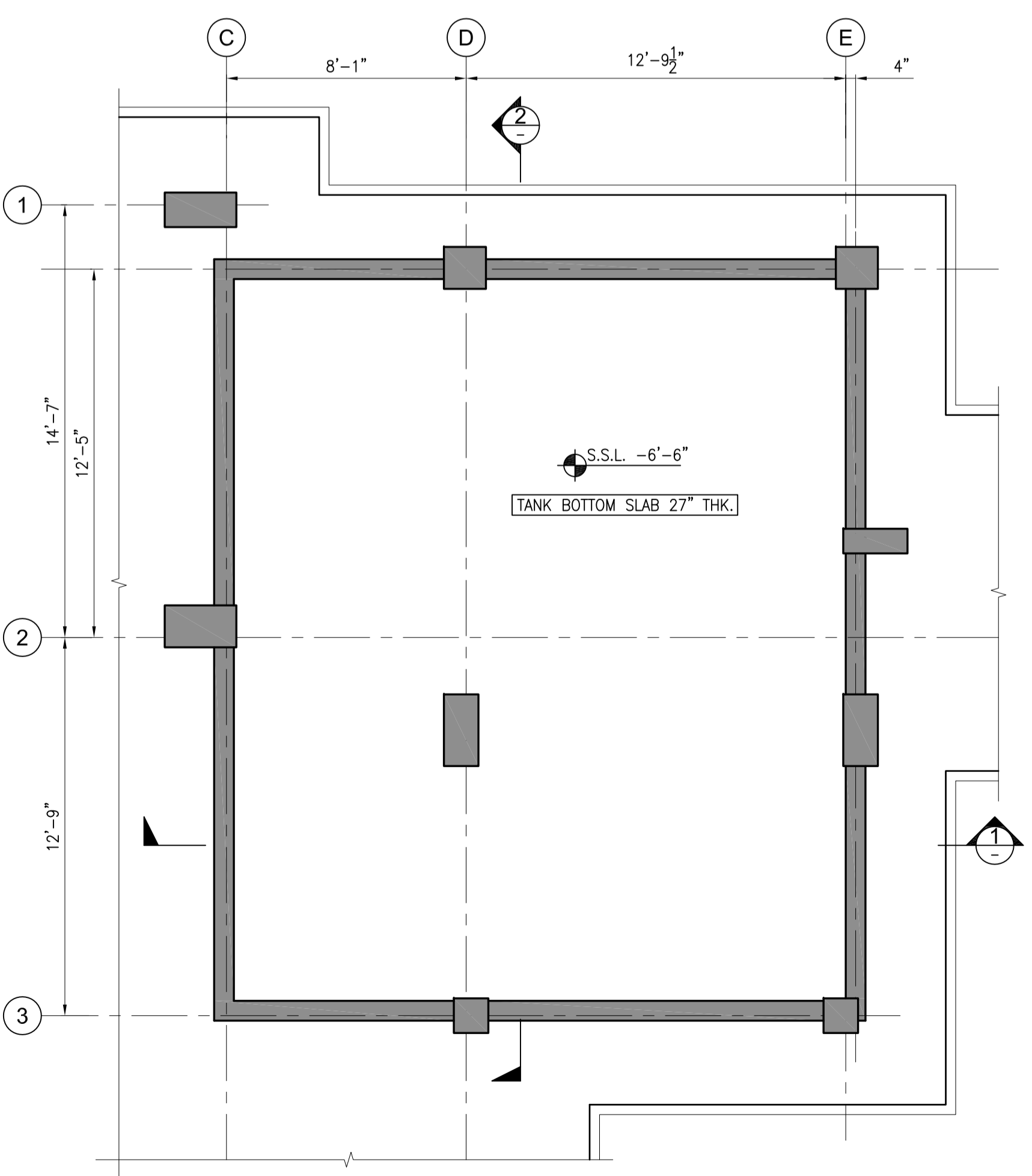
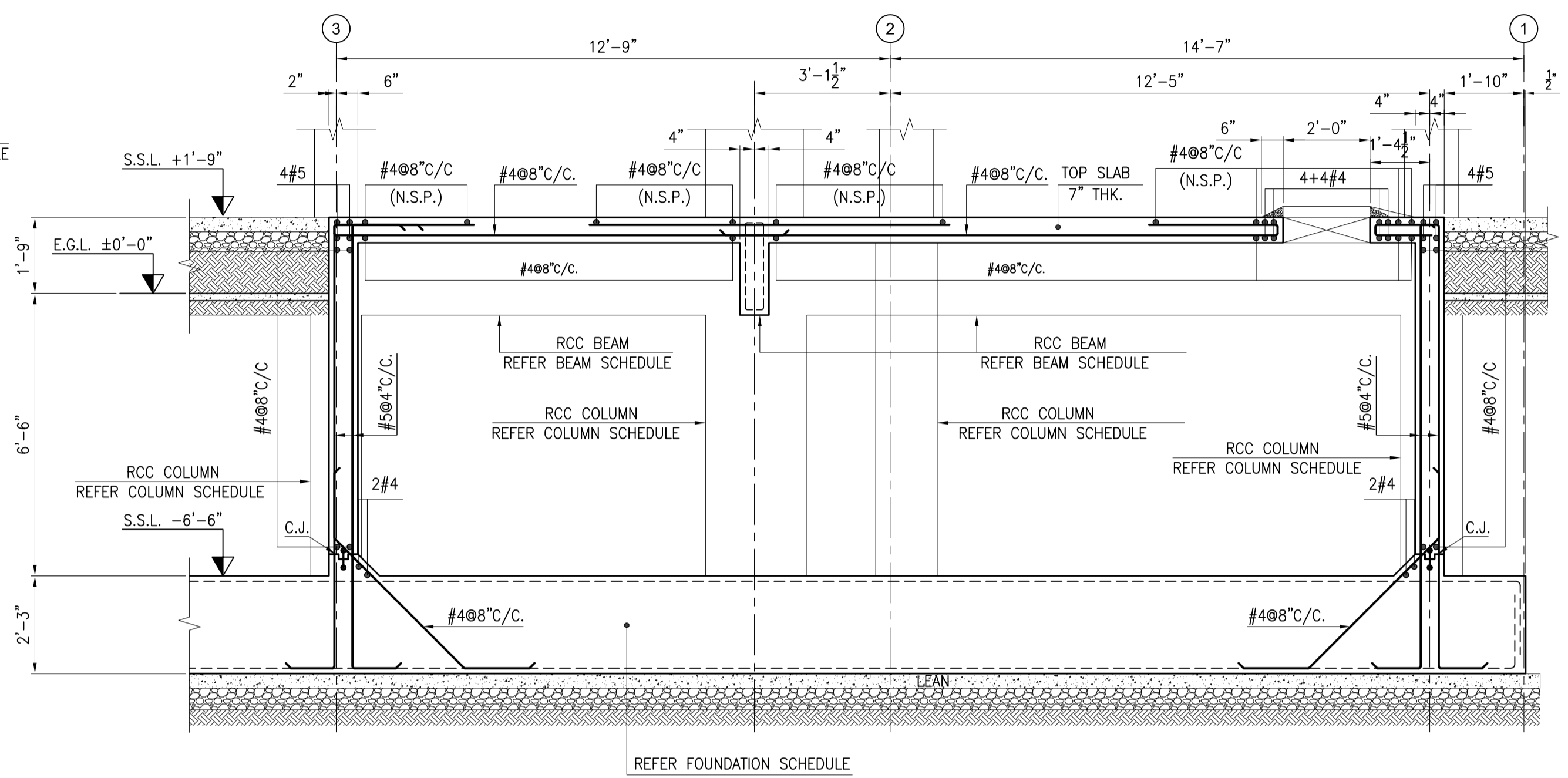
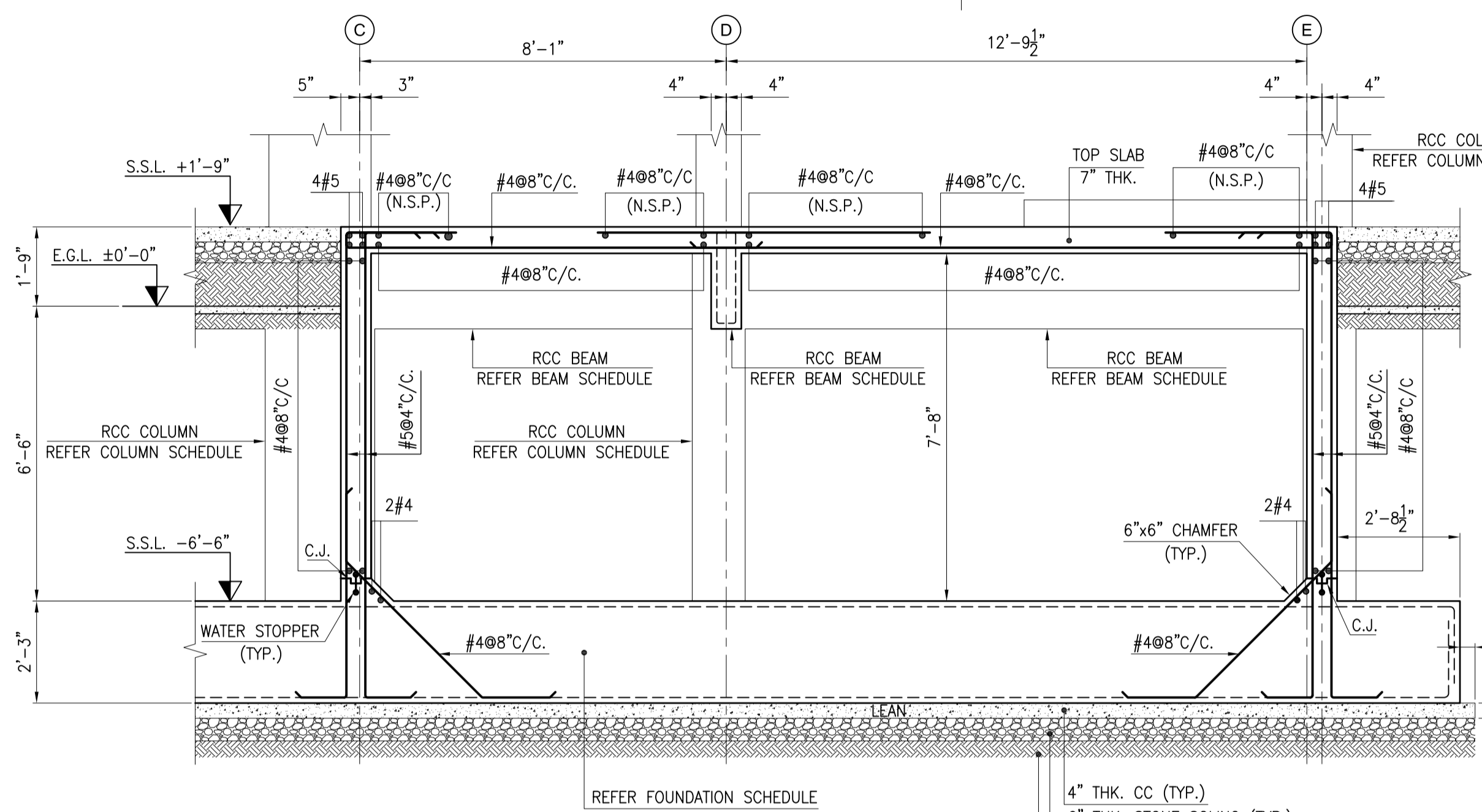
Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title: **BEAM SCHEDULE (SHEET 2 OF 2)**

Designed :	Checked :	Approved :
HA	HA	AKM
Drawn :	Date :	Scale / Sheet :
MMK	April, 2018	AS SHOWN
Project Code :	00986	Rev. : 0
Drawing No. :	EA-986-SMS-S-4002	



- NOTES:-**
- 1- ALL LEVEL ARE IN FEET & INCHES.
  - 2- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
  - 3- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH OTHER DISCIPLINES DRAWINGS.
  - 4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SMS-S-0001.
  - 5- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-SMS-S-0011 TO EA-00986-SMS-S-0015.



Client :  
Consultant :  
**EA Consulting Pvt Ltd**  
Head Office: AL-9, 15th Lane, Khayaban-e-Hind, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. 111-111-584, Fax No. 584-1825  
Email : info@saworld.com | www.saworld.com

Project :  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

Note:  
• All Dimensions to be confirmed on site with architect.  
• Do not scale.  
• Only written dimensions to be followed.  
• Any discrepancies to be clarified with the architect.  
• For structure details refer structure engineer drawings / details

North:  
N

No.	DATE	DESCRIPTION
0	25-05-2018	ISSUED FOR TENDER

Date of Issue : May 25, 2018  
Issued To : Client  
Issued For : Tender

**STRUCTURE**  
Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title:  
**UNDER GROUND WATER TANK REINFORCEMENT PLAN & DETAILS**

Designed : HA	Checked : HA	Approved : AKM
Drawn : MMK	Date : April, 2018	Scale / Sheet : AS SHOWN
Project Code : 00986	Rev. : 0	
Drawing No. : EA-986-SMS-S-5001		

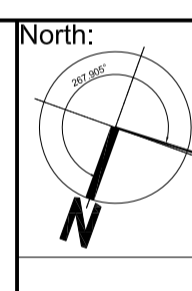


Consultant:  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hind, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. 111-111-584, Fax No. 584-1825  
 Email: info@eaworld.com | www.eaworld.com

Project:  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan:

Note:  
 • All Dimensions to be confirmed on site with architect.  
 • Do not scale.  
 • Only written dimensions to be followed.  
 • Any discrepancies to be clarified with the architect.  
 • For structure details refer structure engineer drawings / details



No.	DATE	DESCRIPTION
0	25-05-2018	ISSUED FOR TENDER

Date of Issue	May 25, 2018
Issued To	Client
Issued For	Tender

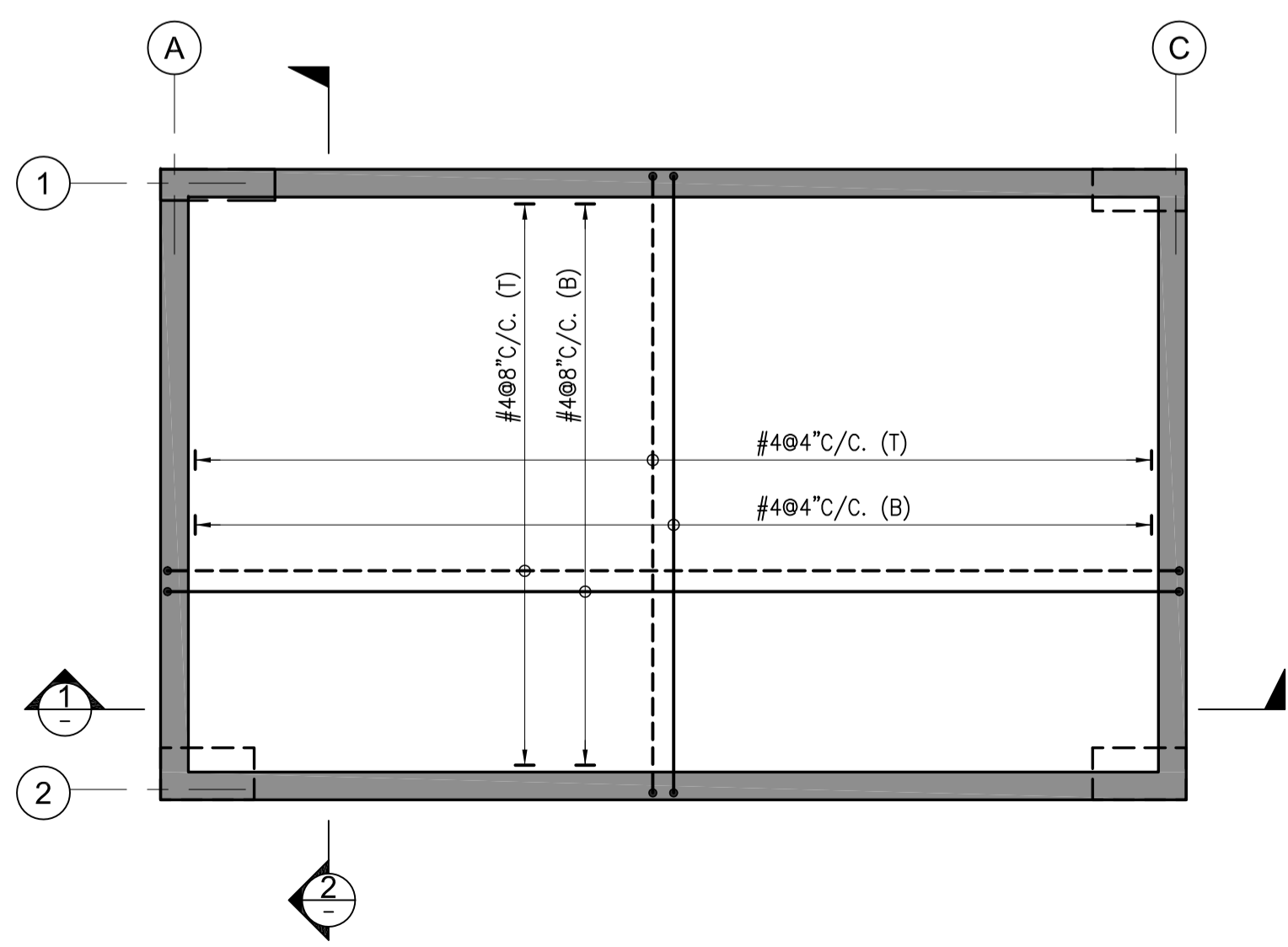
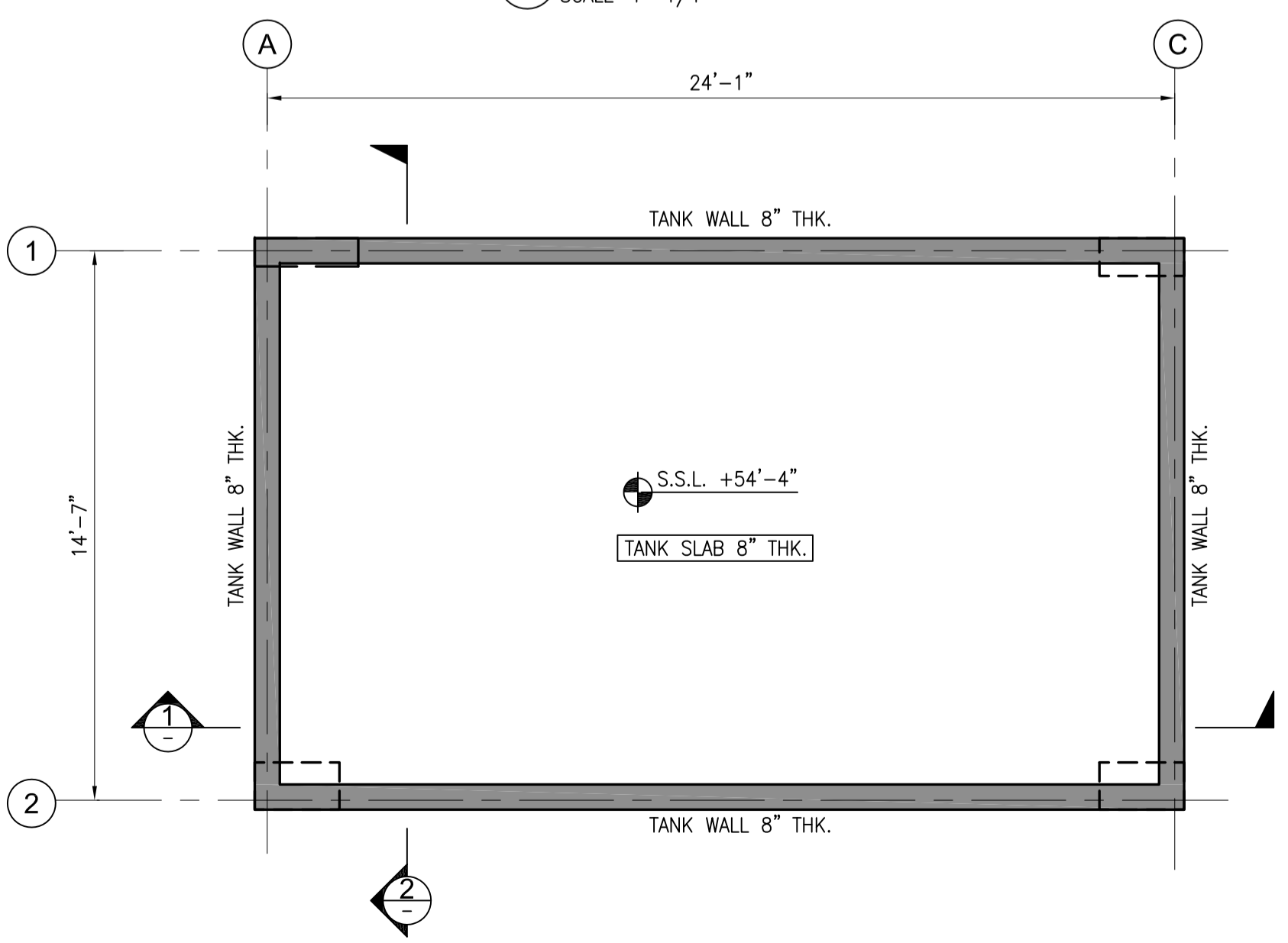
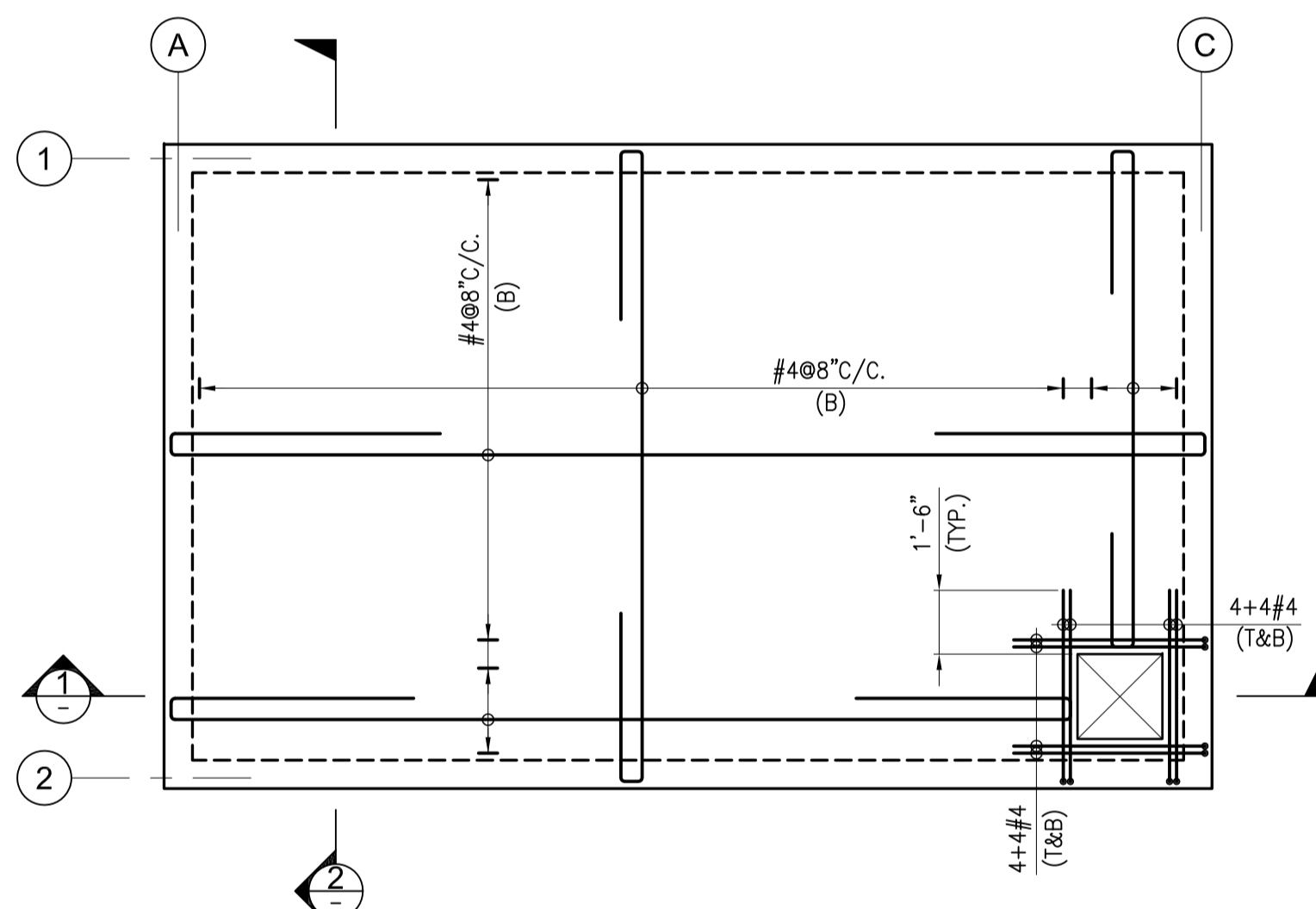
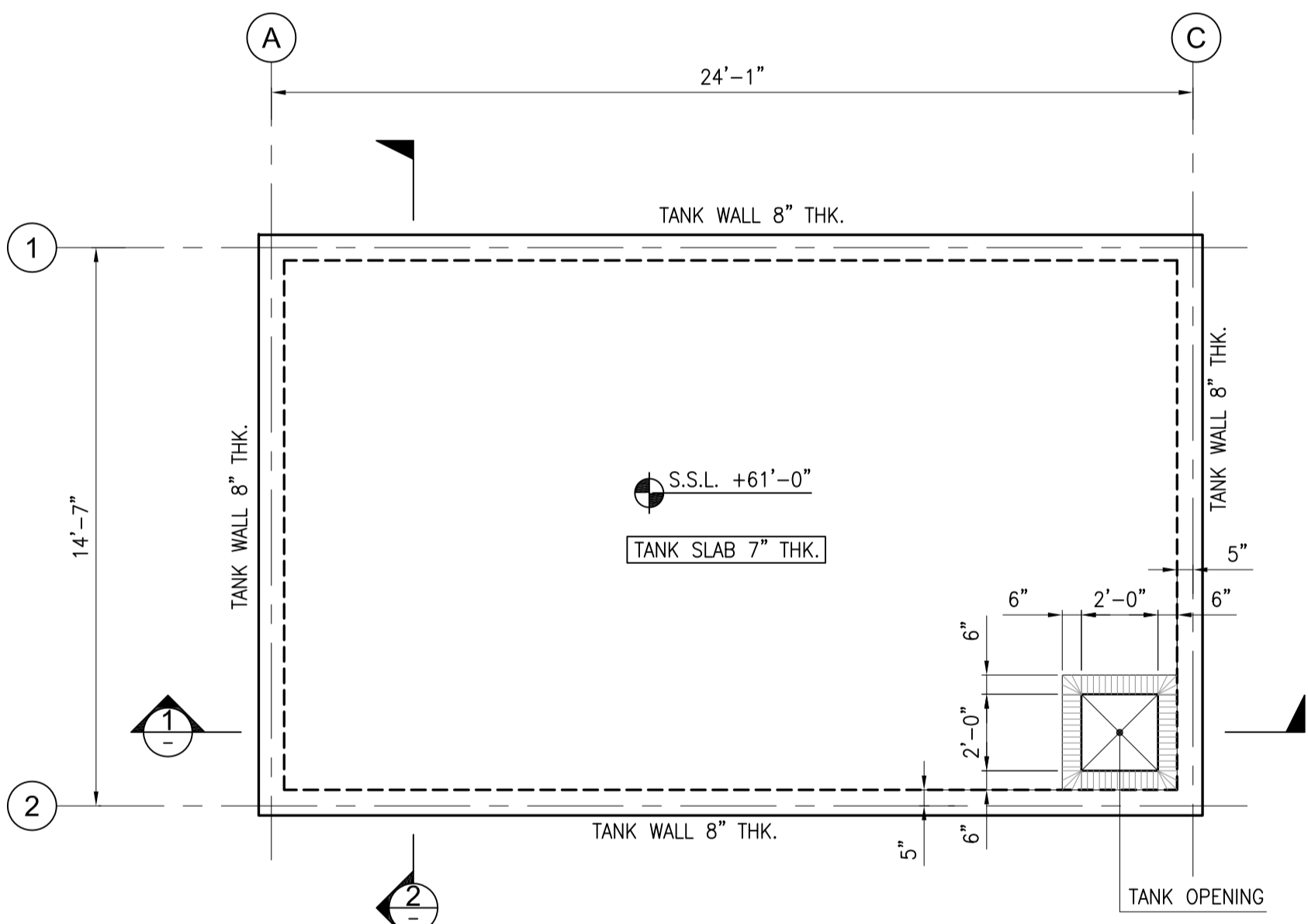
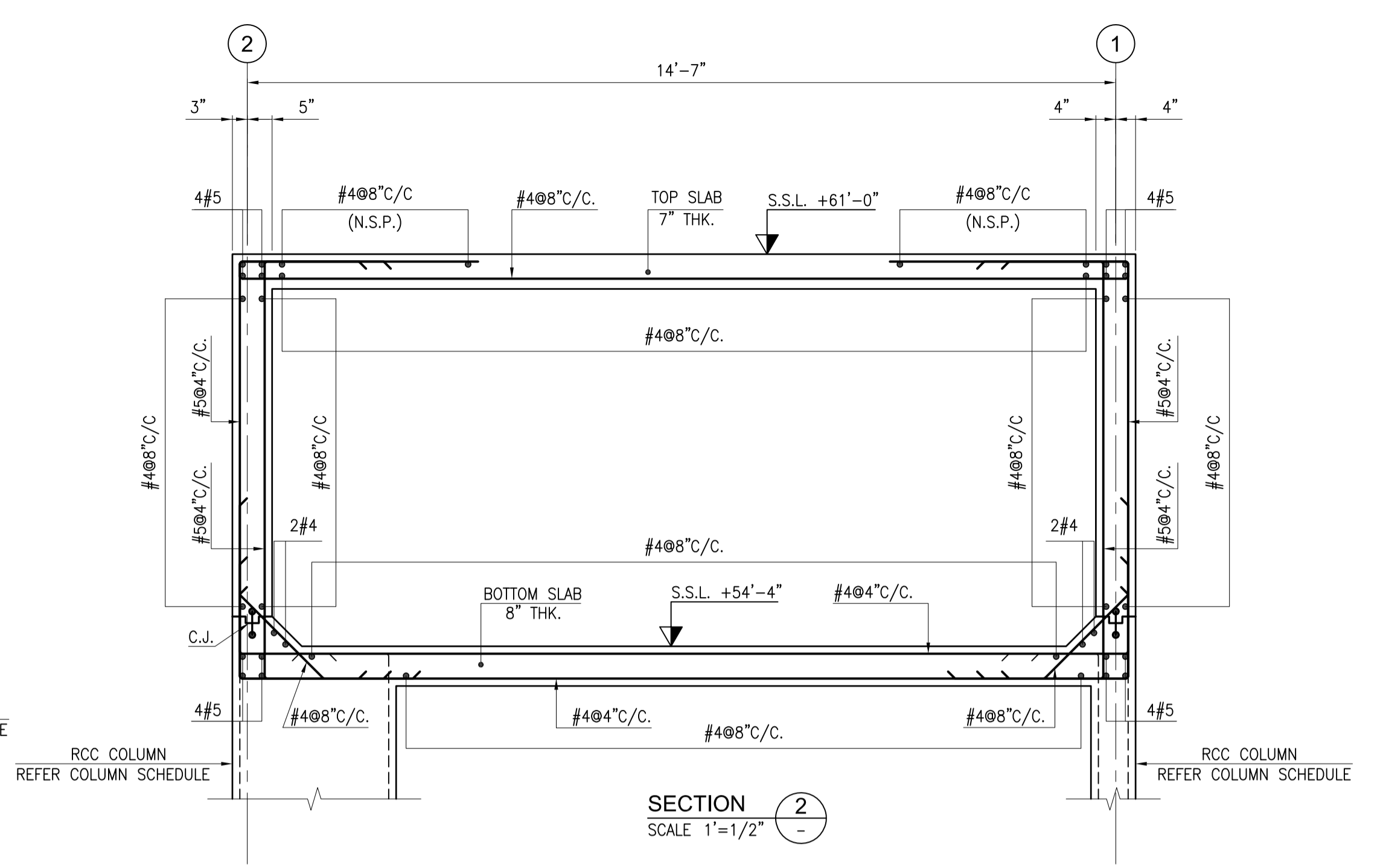
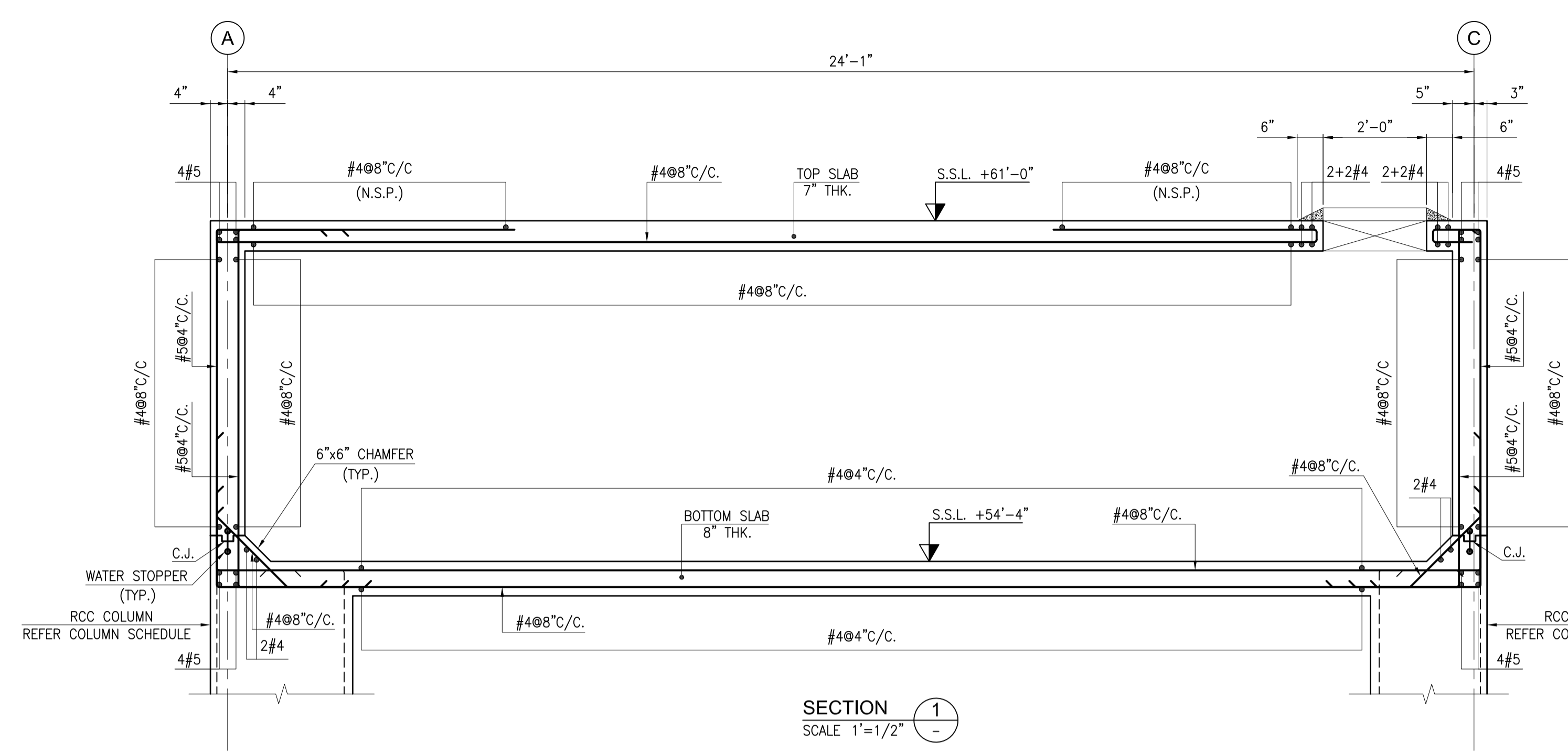
**STRUCTURE**

Status: **TENDER**

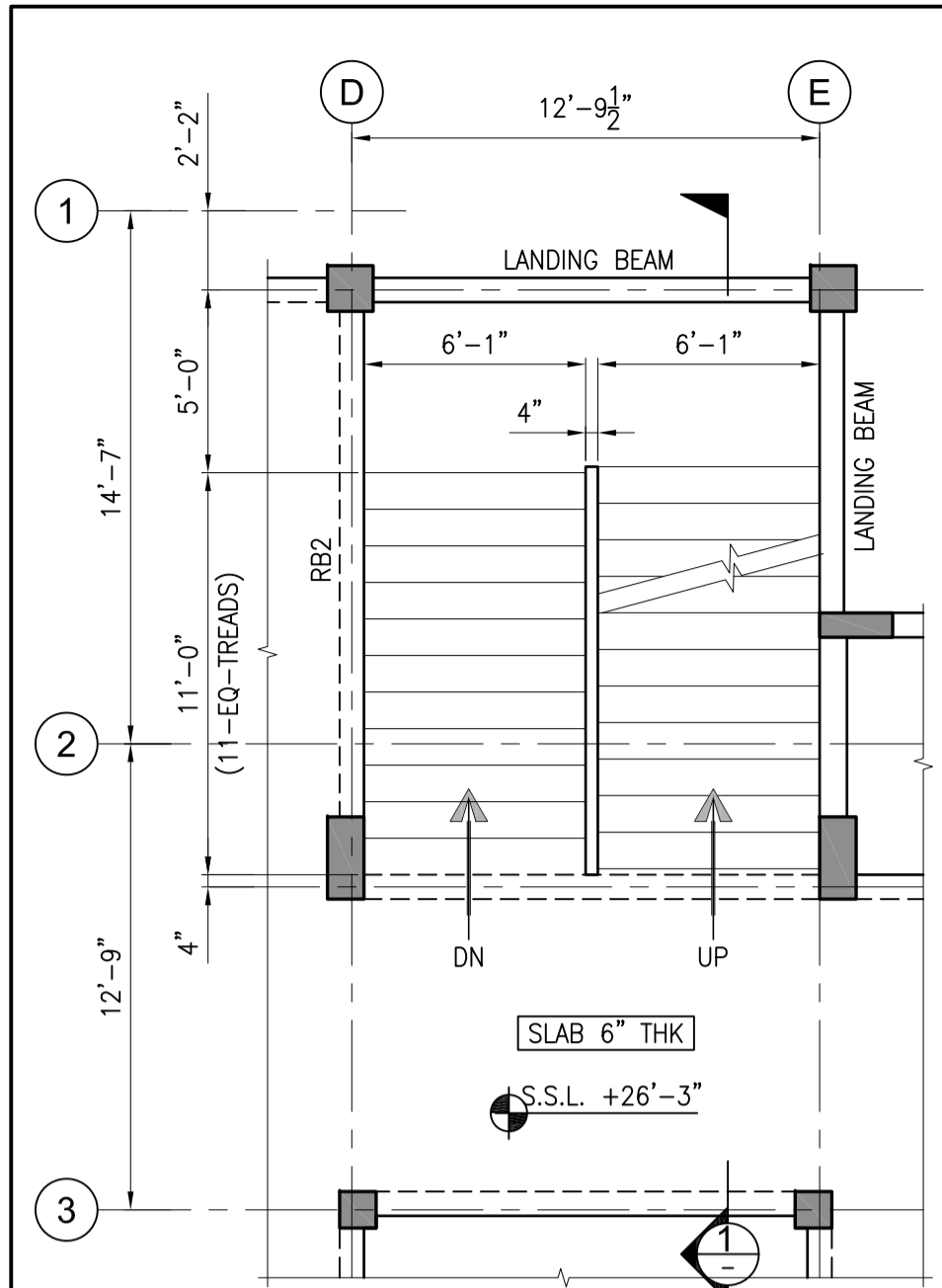
Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title:  
**OVER HEAD WATER TANK REINFORCEMENT PLAN & DETAILS**

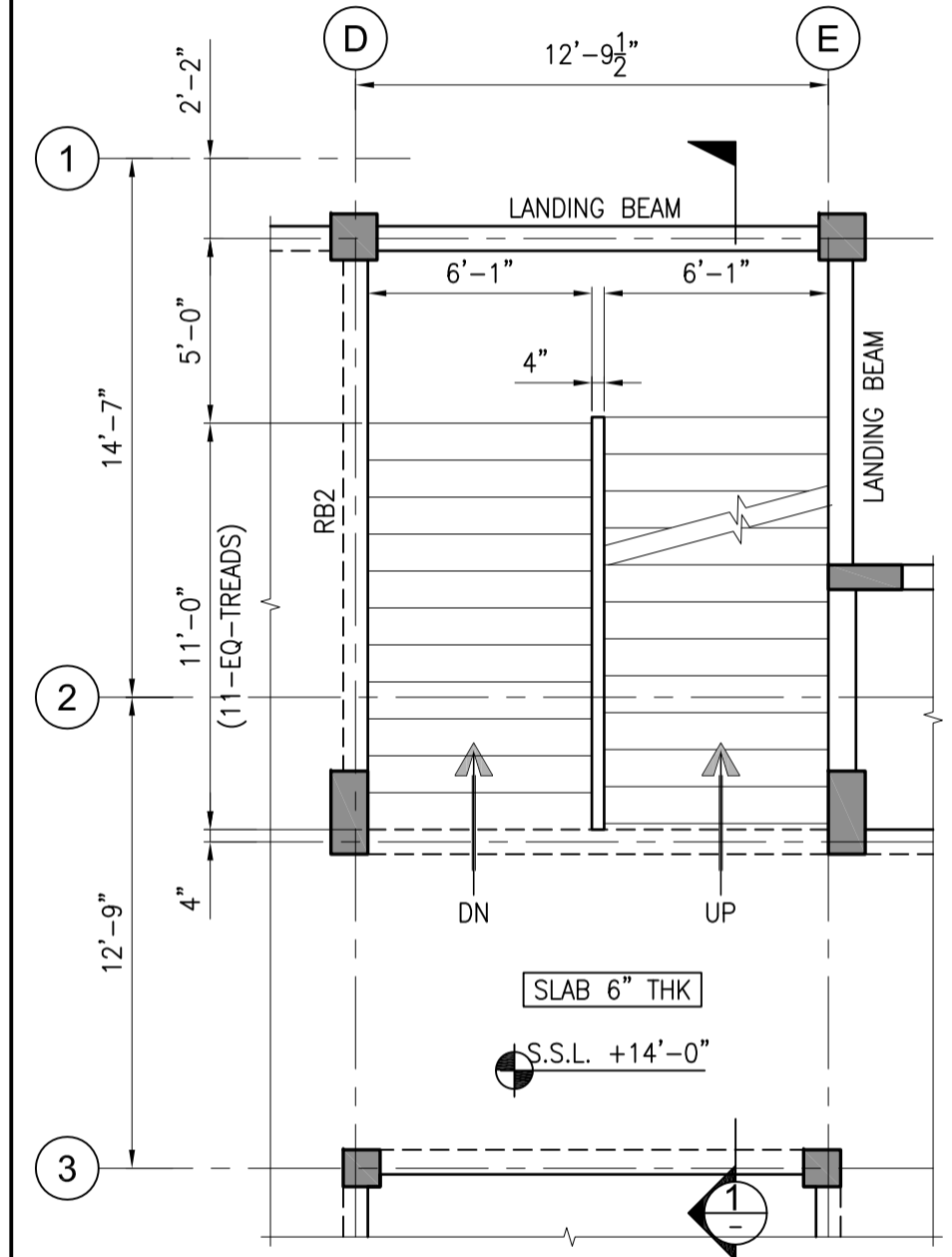
Designed:	Checked:	Approved:
HA	HA	AKM
Drawn:	Date:	Scale / Sheet:
MMK	April, 2018	AS SHOWN
Project Code:	00986	Rev.: 0
Drawing No.:	EA-986-SMS-S-5002	



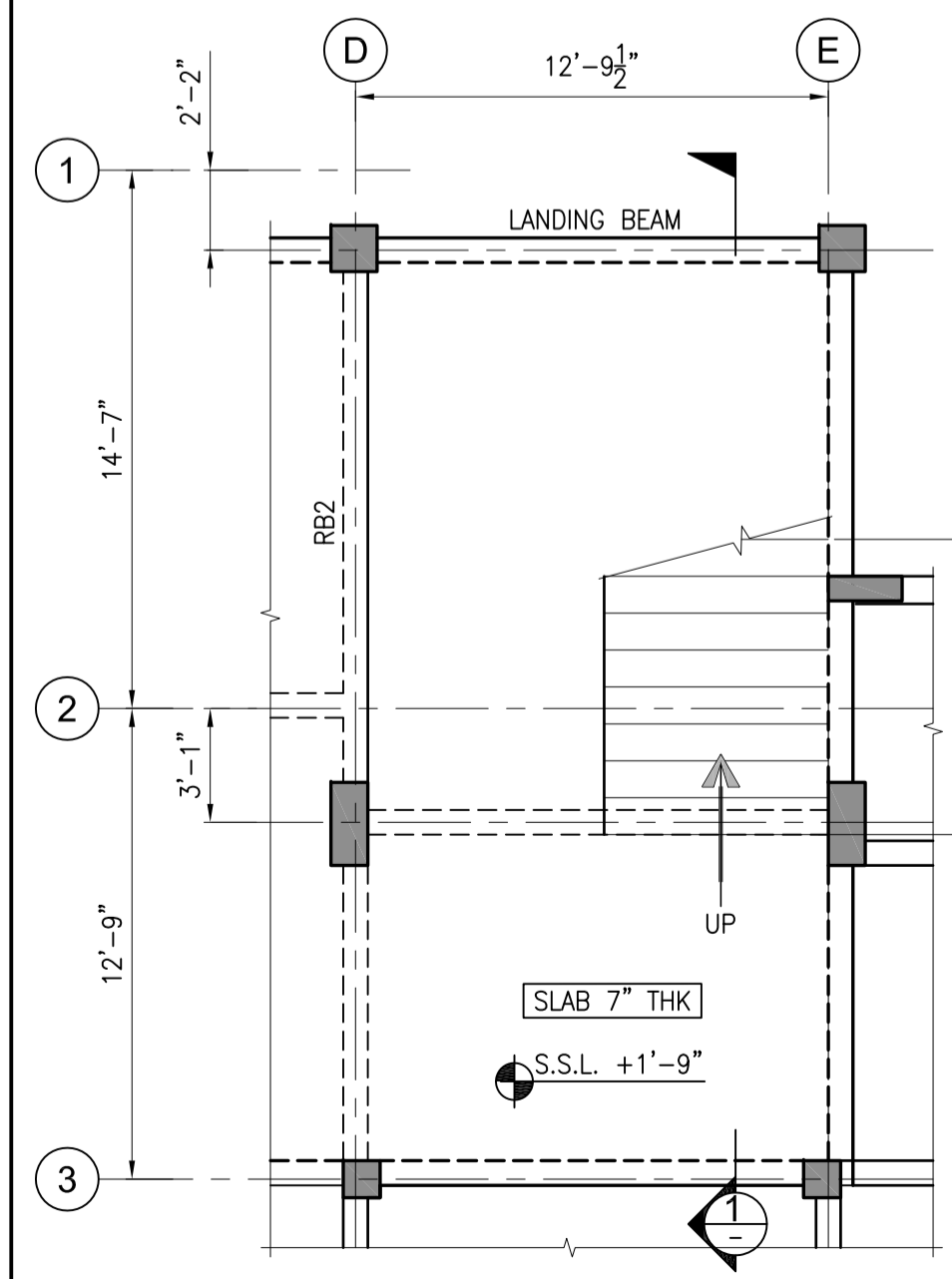
- NOTES:-
- 1- ALL LEVEL ARE IN FEET & INCHES.
  - 2- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
  - 3- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH OTHER DISCIPLINES DRAWINGS.
  - 4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SMS-S-0001.
  - 5- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-SMS-S-0011 TO EA-00986-SMS-S-0015.
  - 6- FOR U.G.W.TANK LOCATION IN PLAN.



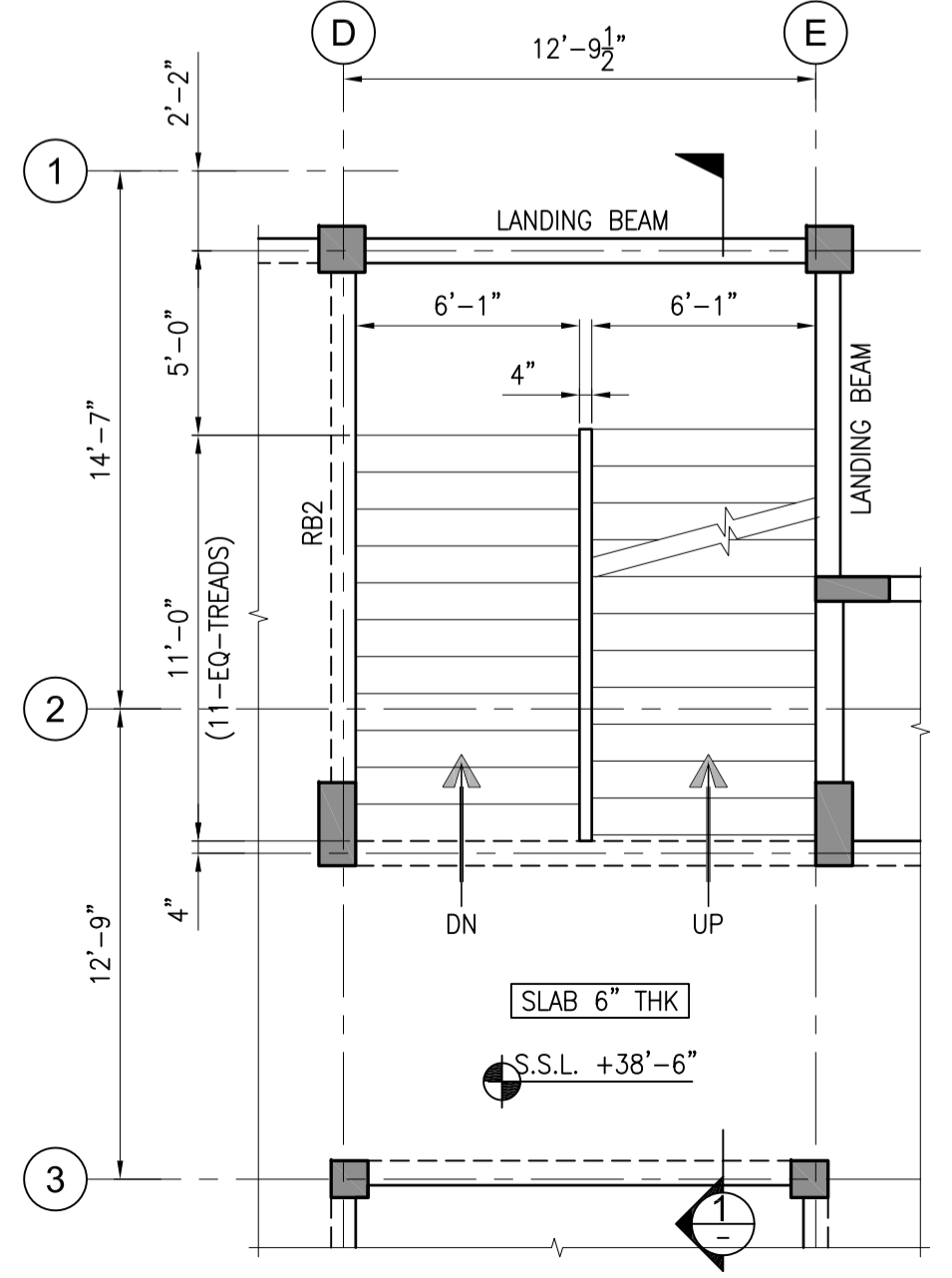
**(C) SECOND FLOOR PLAN (STAIR CASE 01)**  
SCALE 1"=3/16"



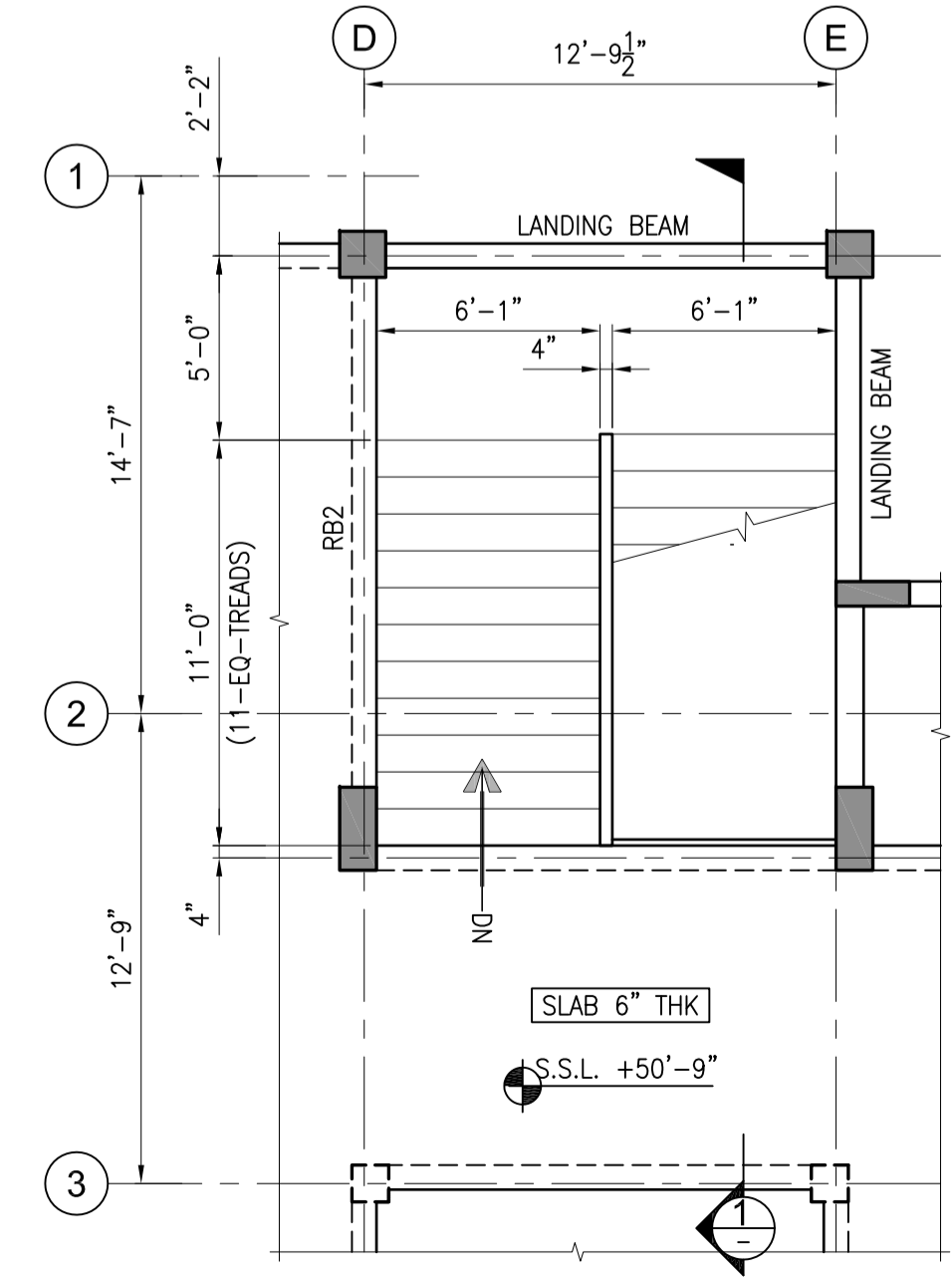
**(B) FIRST FLOOR PLAN (STAIR CASE 01)**  
SCALE 1"=3/16"



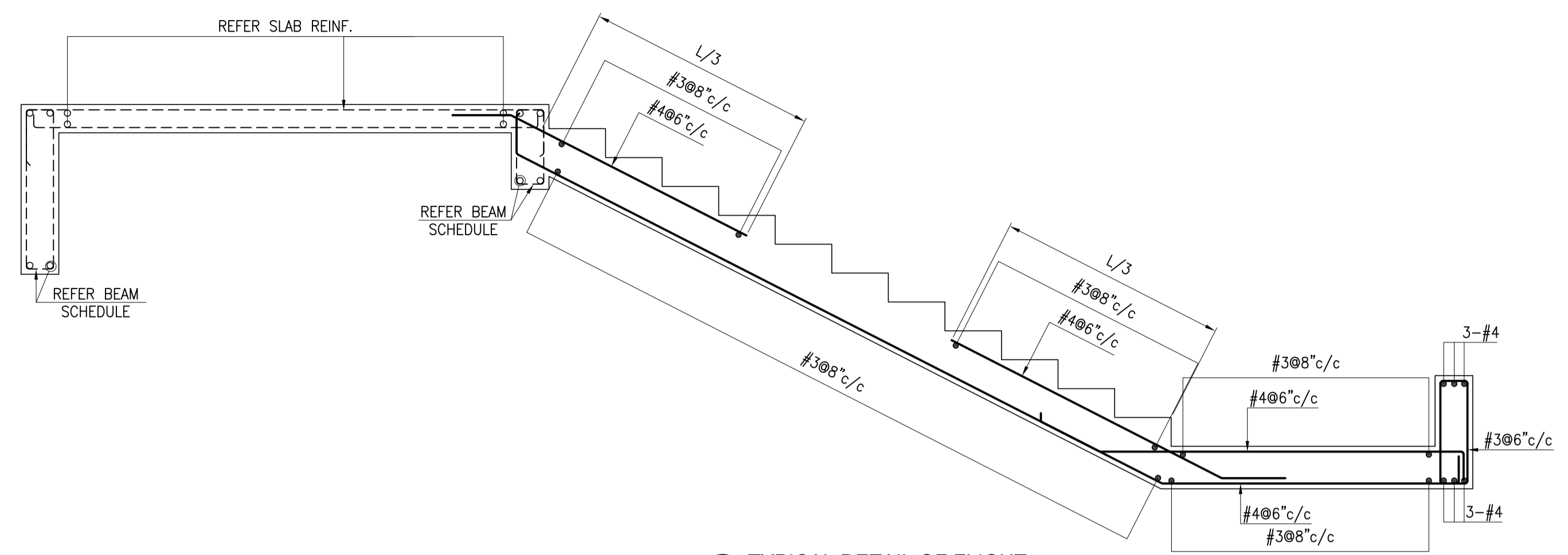
**(A) GROUND FLOOR PLAN (STAIR CASE 01)**  
SCALE 1"=3/16"



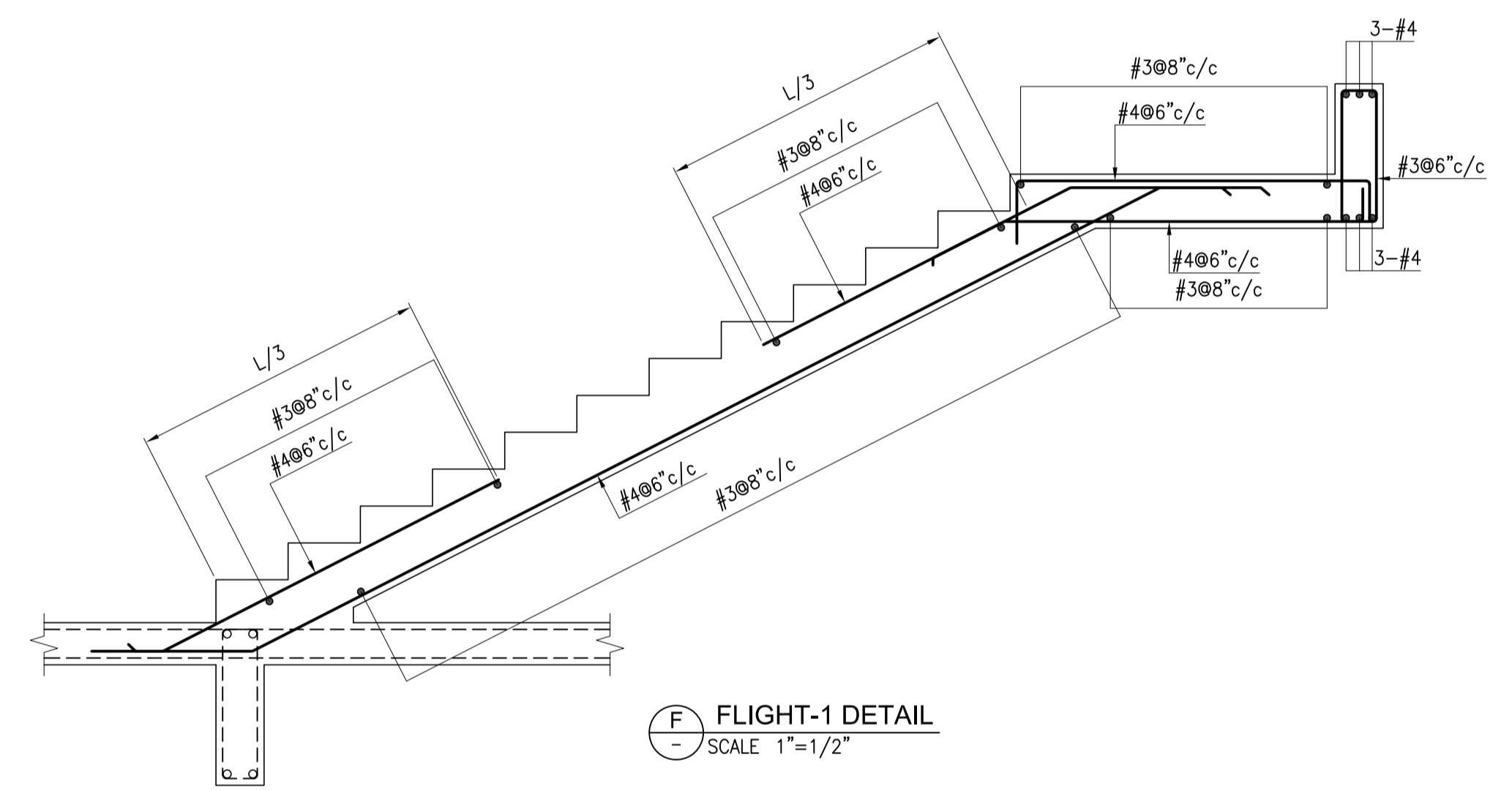
**(D) THIRD FLOOR PLAN (STAIR CASE 01)**  
SCALE 1"=3/16"



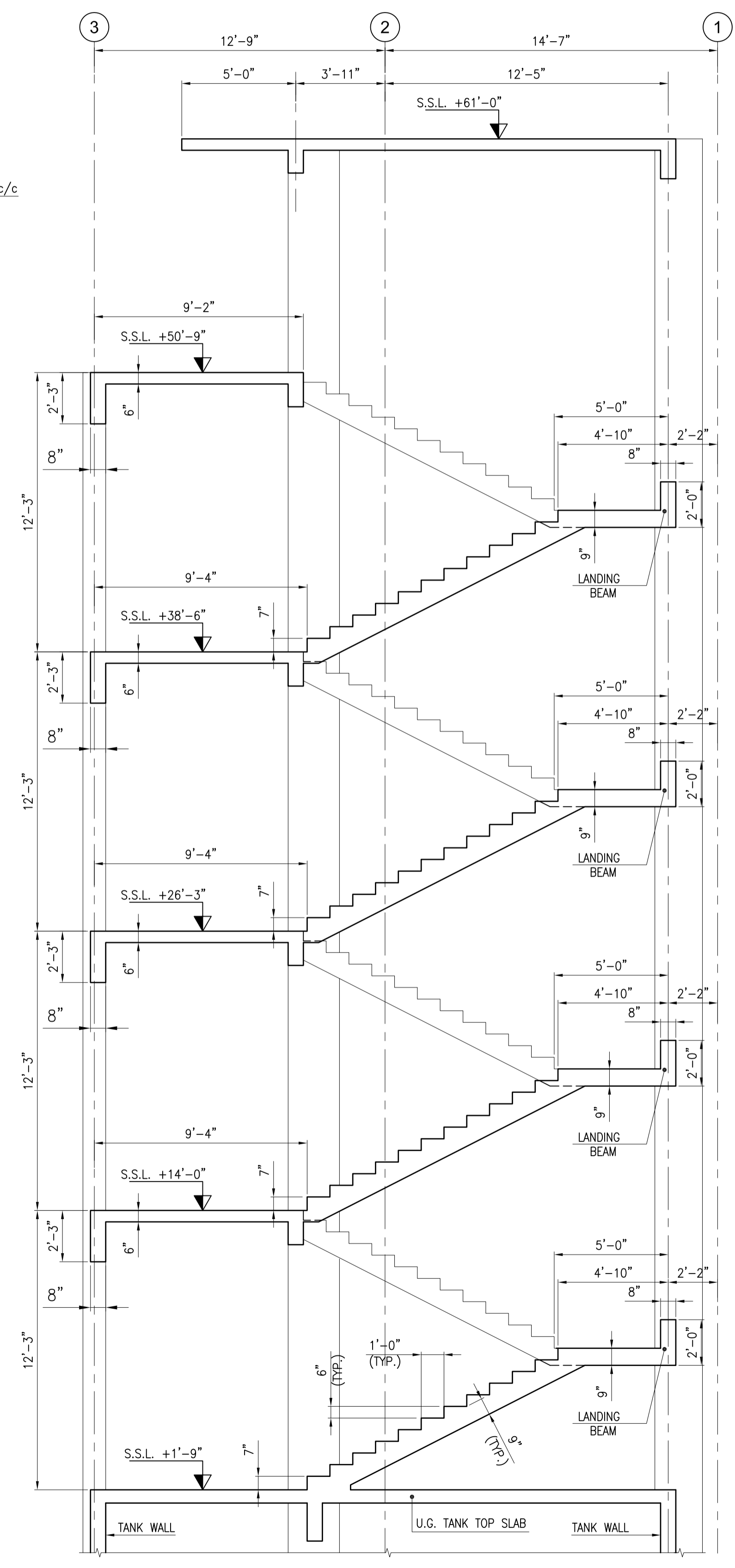
**(E) ROOF PLAN (STAIR CASE 01)**  
SCALE 1"=3/16"



**(G) TYPICAL DETAIL OF FLIGHT**  
SCALE 1"=1/2"



**(F) FLIGHT-1 DETAIL**  
SCALE 1"=1/2"



**SECTION 1**  
SCALE 1/4"=1"



Consultant:  
**EA Consulting Pvt Ltd**  
Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7,  
Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. 111-111-584 Fax No. 584-1825  
Email: info@eaworld.com | www.eaworld.com

Project:  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan:

Note:  
• All Dimensions to be confirmed on site with architect.  
• Do not scale.  
• Only written dimensions to be followed.  
• Any discrepancies to be clarified with the architect.  
• For structure details refer structure engineer drawings / details

No.	DATE	DESCRIPTION
0	25-05-2018	ISSUED FOR TENDER

Date of Issue: May 25, 2018  
Issued To: Client  
Issued For: Tender

**STRUCTURE**  
Status: **TENDER**

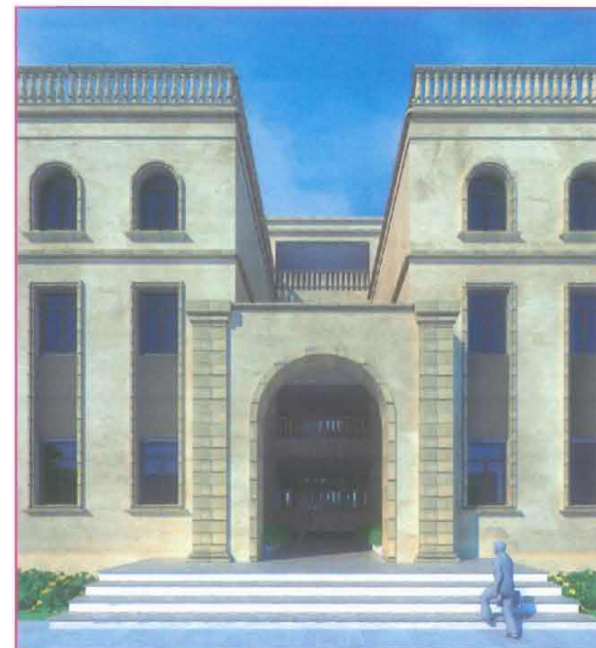
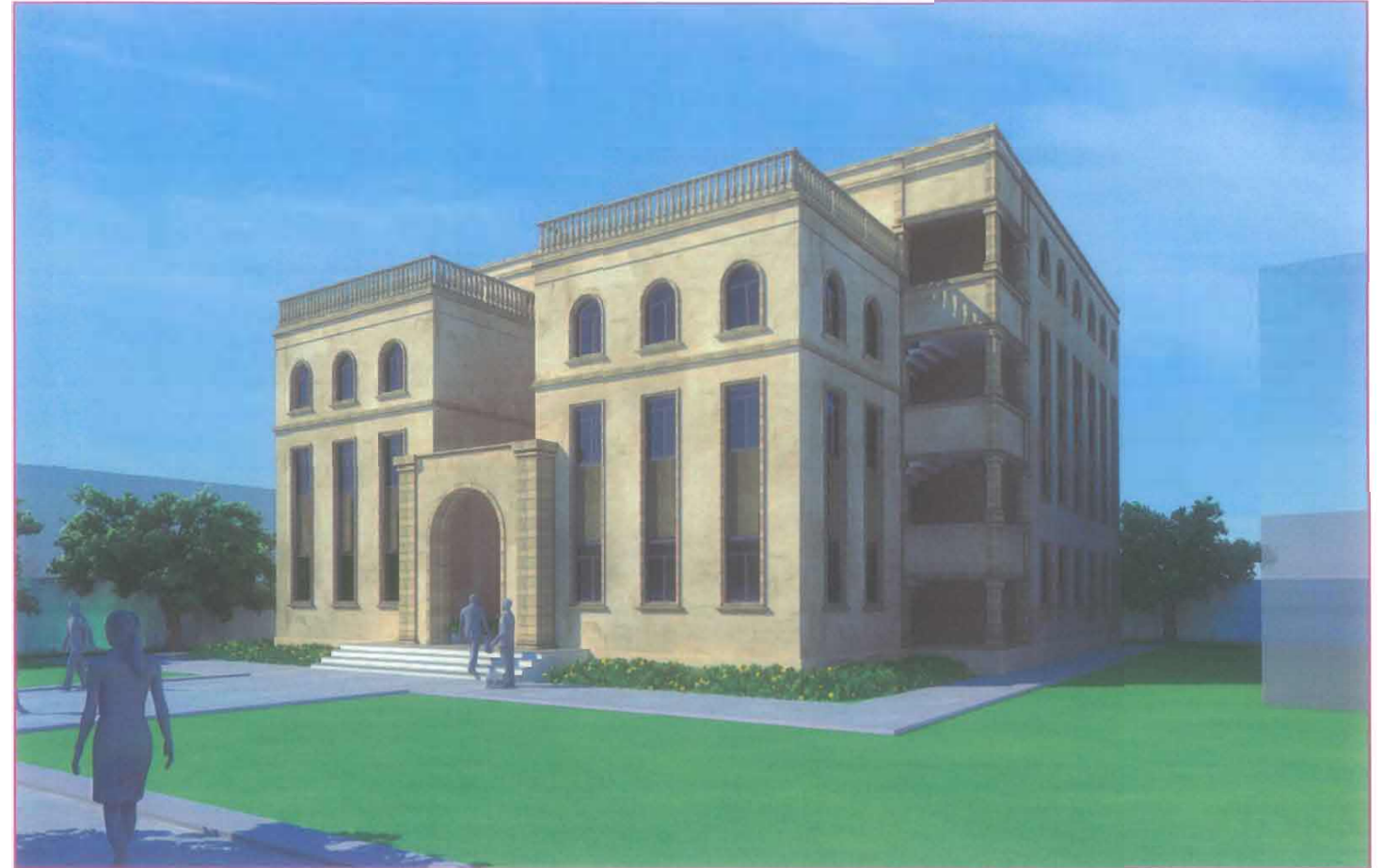
Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title:  
**DETAIL OF STAIR CASE 01**

Designed: HA	Checked: HA	Approved: AKM
Drawn: MMK	Date: April, 2018	Scale / Sheet: AS SHOWN
Project Code: 00986	Rev.: 0	

Drawing No.: EA-986-SMS-S-6001

# DEVELOPMENT OF SMIU CAMPUS KARACHI



**TENDER DRAWINGS**  
Plumbing

**MODEL SCHOOL City Campus**

S.#	DRAWING NO.	DRAWING TITLE
<b>DRAINAGE DRAWING</b>		
1	EA-986-SMS-P1-000	TITLE SHEET
2	EA-986-SMS-P1-0001	LIST OF DRAWINGS
3	EA-986-SMS-P1-0002	SCHEDULE
4	EA-986-SMS-P1-0003	DETAIL DRAWING
5	EA-986-SMS-D1-0100	GROUND FLOOR PLAN
6	EA-986-SMS-D1-0200	FIRST FLOOR PLAN
7	EA-986-SMS-D1-0300	SECOND FLOOR PLAN
8	EA-986-SMS-D1-0400	THIRD FLOOR PLAN
9	EA-986-SMS-D1-0500	ROOF PLAN
<b>WATER DRAWING</b>		
1	EA-986-SMS-W1-0100	GROUND FLOOR PLAN
2	EA-986-SMS-W1-0200	FIRST FLOOR PLAN
3	EA-986-SMS-W1-0300	SECOND FLOOR PLAN
4	EA-986-SMS-W1-0400	THIRD FLOOR PLAN
5	EA-986-SMS-W1-0500	ROOF PLAN
<b>FIRE FIGHTING DRAWING</b>		
1	EA-986-SMS-F1-0100	GROUND FLOOR PLAN
2	EA-986-SMS-F1-0200	FIRST FLOOR PLAN
3	EA-986-SMS-F1-0300	SECOND FLOOR PLAN
4	EA-986-SMS-F1-0400	THIRD FLOOR PLAN
5	EA-986-SMS-F1-0500	ROOF PLAN



Client:

Consultant:



**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal Phase 7,  
 Defence Housing Authority, Karachi, 75000 - Pakistan  
 Phone No. 111-111-584, Fax No. 584-1825  
 Email: info@eaconsult.com | www.eaconsult.com


Project:

**DEVELOPMENT OF  
SMIU CAMPUS  
KARACHI**

Key Plan:

Note:

- All Dimensions to be confirmed on site with architect.
- Do not scale.
- Only written dimensions to be followed.
- Any discrepancies to be clarified with the architect.
- For structure details refer, structure engineer drawings / details

North: 

No.	DATE	DESCRIPTION
0	25-05-2018	For Tender
REVISIONS		

Date of Issue	MAY 05, 2018
Issued To	Client
Issued For	Tender

**PLUMBING**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title:  
**LIST OF DRAWING**

Designed:	Checked:	Approved:
A.T	A.T	Z.A
Drawn:	Date:	Scale / Sheet:
M.D	MAY-2018	NTS@A3
Project Code:	Rev.:	
00986	0	
Drawing No.: EA-00986-SMS-P1-0001		






Client:  
 Consultants:  
  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7,  
 Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No.: 111-111-584, Fax No.: 564-1825  
 Email: info@eaworld.com | www.eaworld.com

Project:  
**DEVELOPMENT OF  
 SMU CAMPUS  
 KARACHI**

Key Plan:

TRANSFER PUMPS																											
EQUIP.IMAGE	EQUIP.TAG	DESCRIPTION	SERVICE	LOCATION	FLOW RATE (GPM.)	MAXIMUM TOTAL DYNAMIC HEAD (FT)	MINIMUM TOTAL DYNAMIC HEAD (FT)	MANUFACTURER	PUMP TYPE						MOTOR					MANUAL CONTROL	AUTOMATIC CONTROL	PRESSURE GAUGE RANGE	ALARMS REQUIRED	EMERGENCY POWER REQUIRED	REMARKS		
									STAGES	VERTICAL MULTISTAGE	HORIZONTAL SPLIT	END SUCTION	IN LINE	VERTICAL TURBINE	SUBMERSIBLE	MINIMUM H.P.	POWER K.W	VOLTS	PHASE							CYCLES (Hz)	
	TP 01	TRANSFER PUMP	WATER TRANSFER TO OHT	GROUND	65	-	75	-	-	✓	-	-	-	-	-	-	1.23	0.92	220	1	50	✓	✓	-	✓	✓	DUTY PUMP
	TP 02	TRANSFER PUMP	WATER TRANSFER TO OHT	GROUND	65	-	75	-	-	✓	-	-	-	-	-	-	1.23	0.92	220	1	50	✓	✓	-	✓	✓	STANDBY PUMP

Note:  
 • All Dimensions to be confirmed on site with architect.  
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 • For structure details refer structure engineer drawings / details



No.	DATE	DESCRIPTION
REVISIONS		

Date of Issue: MAY 05, 2018  
 Issued To: Client  
 Issued For: Tender

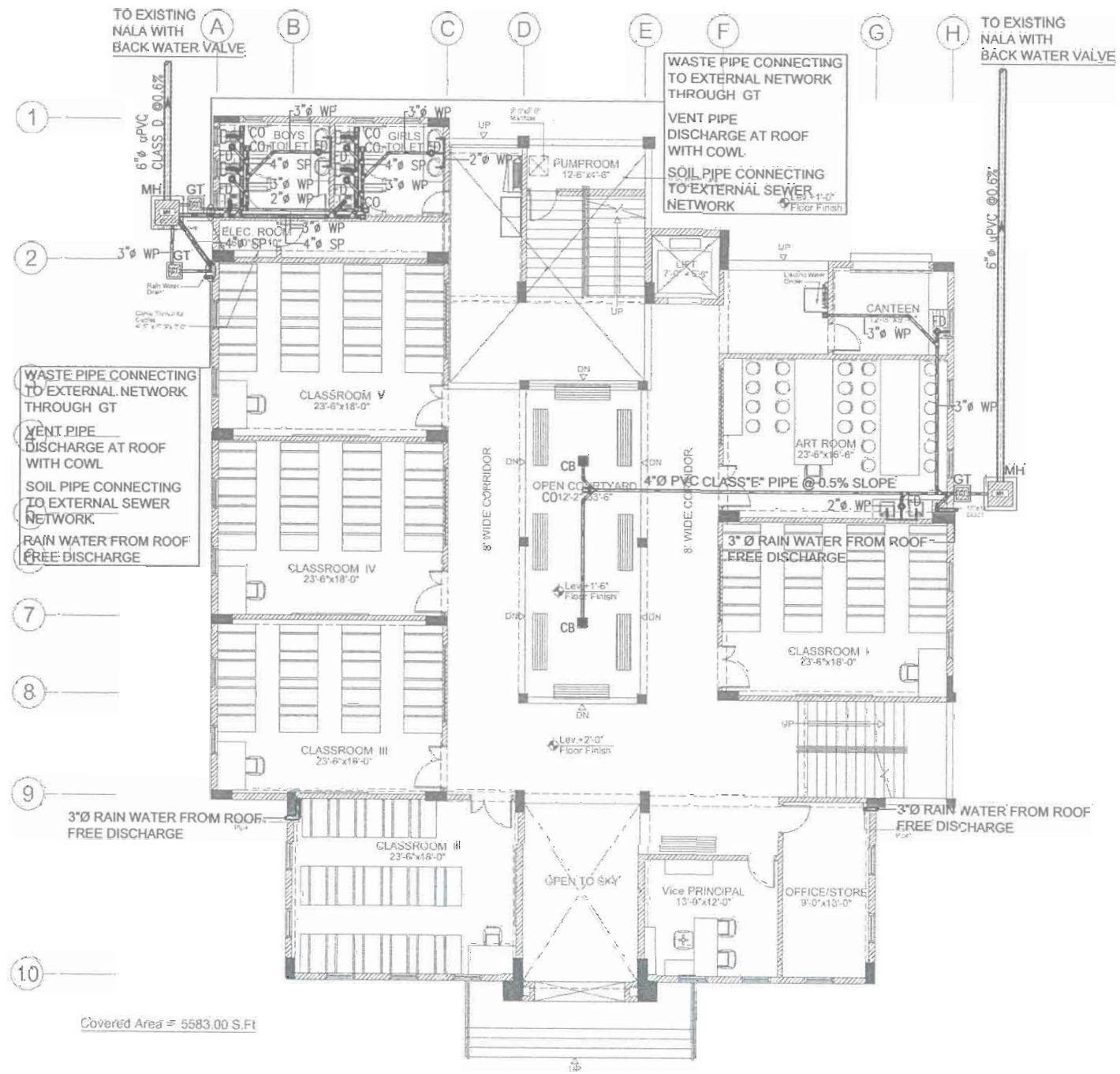
**PLUMBING**

Status: **TENDER**

Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title: **EQUIPMENT SCHEDULE**

Designed: A.T. Checked: A.T. Approved: Z.A.  
 Drawn: M.D. Date: MAY 2018 Scale / Sheet: 1/1  
 Project Code: 00986 Rev.: 0  
 Drawing No.: EA-00986-SMS-P1-0002



Covered Area = 5583.00 S.Ft

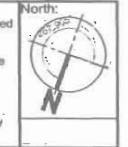


Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hal Phase 7,  
 Defence Housing Authority, Karachi, 75500 Pakistan  
 Phone No. 111-111-584 Fax No. 584-1825  
 Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF SMU CAMPUS KARACHI**

Key Plan :

Note:  
 \* All Dimensions to be confirmed on site with architect.  
 \* Do not scale.  
 \* Only written dimensions to be followed.  
 \* Any discrepancies to be clarified with the architect.  
 \* For structure details refer structure engineer drawings / details



No.	DATE	DESCRIPTION
REVISIONS		

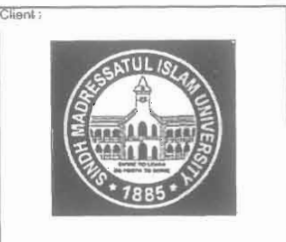
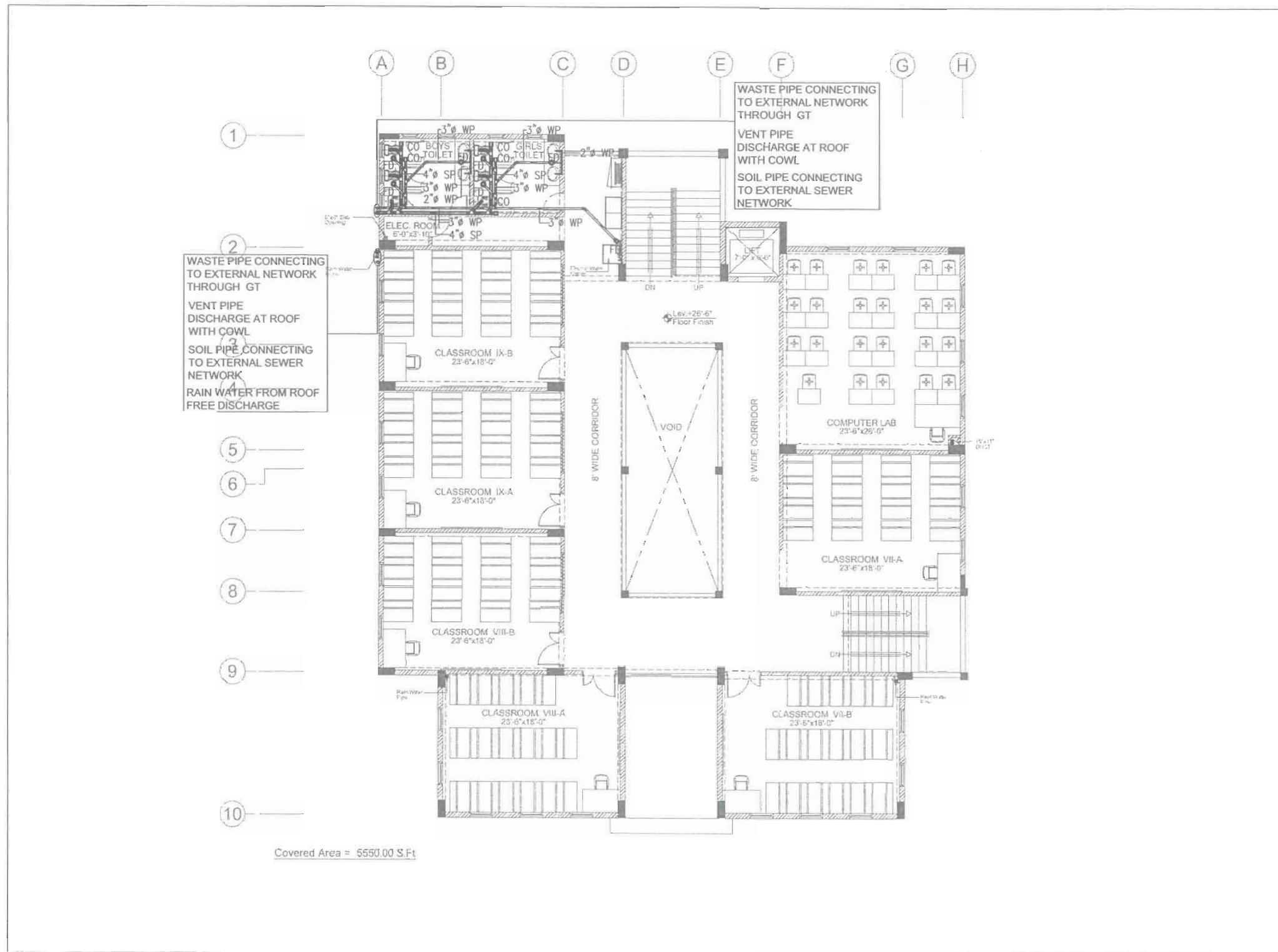
Date of Issue	MAY 05, 2018
Issued To	Client
Issued For	Tender

**PLUMBING**  
 Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title:  
**GROUND FLOOR PLAN DRAINAGE LAYOUT**

Designed :	Checked :	Approved :
A.T	A.T	Z.A
Drawn :	Date :	Scale / Sheet :
M.D	MAY-2018	1/16"=1'-0" @ A3
Project Code :	00986	Rev : 0
Drawing No. :	EA-00986-SMS-D1-0100	



Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7,  
 Defence Housing Authority - Karachi, 75500 - Pakistan  
 Phone No. : 111-111-664, Fax No. : 684-1825  
 Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

Note:  
 All Dimensions to be confirmed on site with architect.  
 Do not scale.  
 Only written dimensions to be followed.  
 Any discrepancies to be clarified with the architect.  
 For structure details refer structure engineer drawings / details



No.	DATE	DESCRIPTION
REVISIONS		

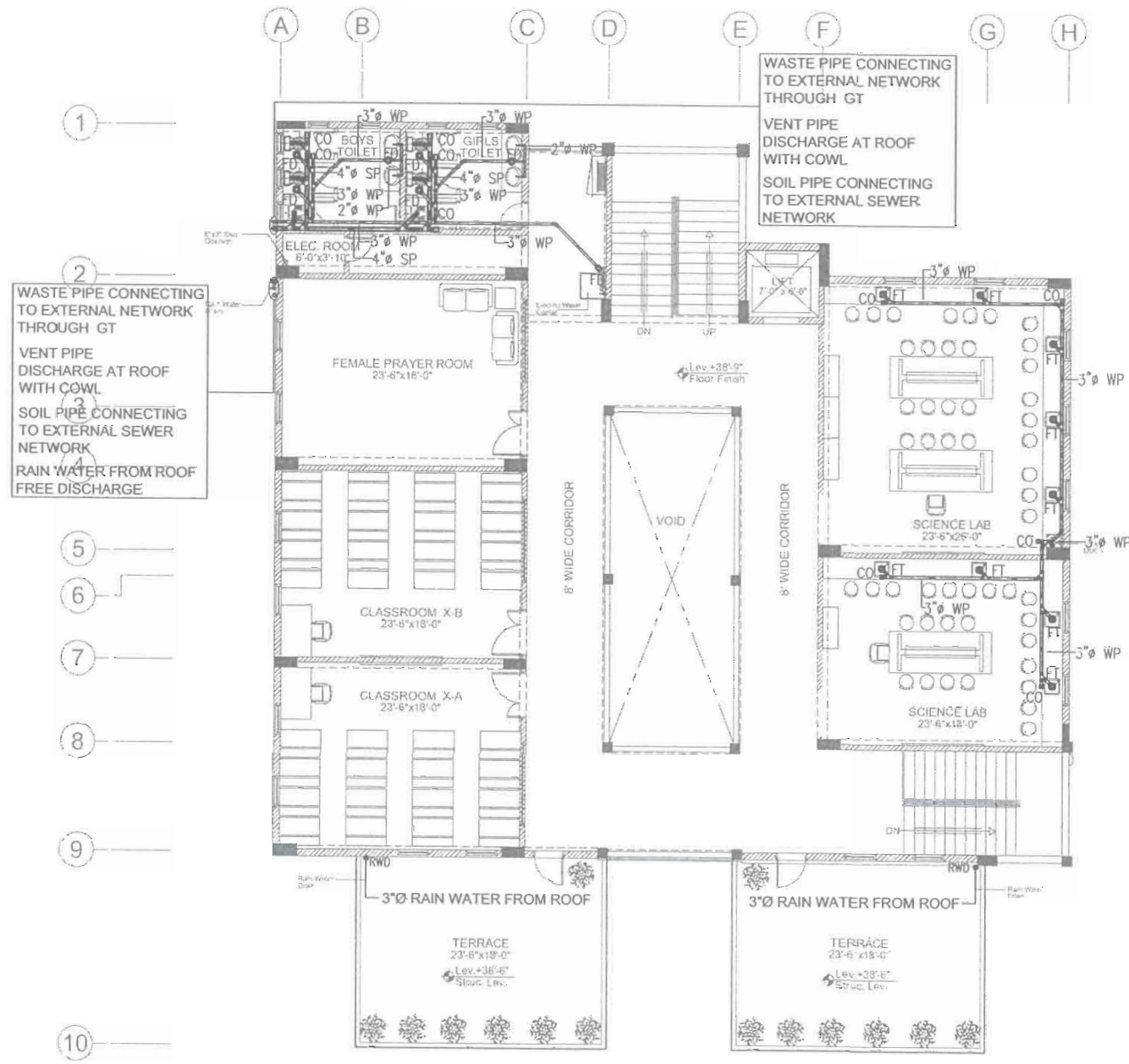
Date of Issue: MAY 05, 2018  
 Issued To: Client  
 Issued For: Tender

**PLUMBING**  
**TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title:  
**SECOND FLOOR PLAN DRAINAGE LAYOUT**

Designed : A.T	Checked : A.T	Approved : Z.A
Drawn : M.D	Date : MAY-2018	Scale / Sheet : 1/16" = 1'-0" @ A3
Project Code : 00986	Rev. : 0	
Drawing No. : EA-00986-SMS-D1-0300		



Covered Area = 4621.00 S.Ft



Client:  
 Consultant:  
**EA Consulting Pvt Ltd**  
 Head Office: AL-2, 15th Lane, Sheykhbin-e-Hal Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. 111-111-5841 Fax No. 584-1825  
 Email: info@eaworld.com | www.eaworld.com

Project:  
**DEVELOPMENT OF SMU CAMPUS KARACHI**

Key Plan:

Note:  
 \* All Dimensions to be confirmed on site with architect.  
 \* Do not scale.  
 \* Only written dimensions to be followed.  
 \* Any discrepancies to be clarified with the architect.  
 \* For structure details refer structure engineer drawings / details



No.	DATE	DESCRIPTION
0	25-05-2018	For Tender

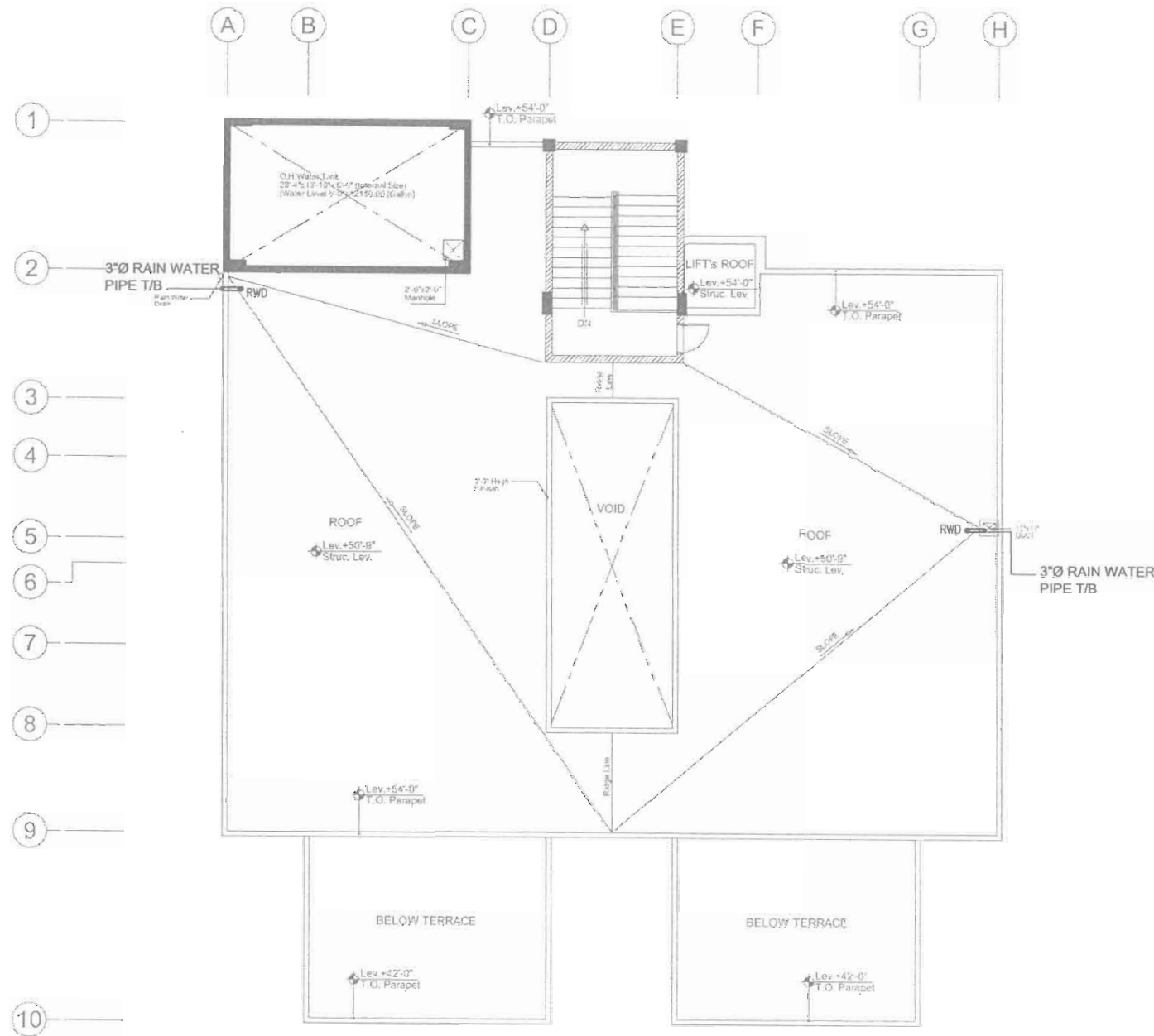
REVISIONS

Date of Issue: MAY 05, 2018  
 Issued To: Client  
 Issued For: Tender

**PLUMBING**  
 Status: **TENDER**  
 Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title:  
**THIRD FLOOR PLAN DRAINAGE LAYOUT**

Designed:	Checked:	Approved:
A.T	A.T	Z.A
Drawn:	Date:	Scale / Sheet:
M.D	MAY-2018	1/16"=1'-0" @ A3
Project Code:	Rev.:	
00986	0	
Drawing No.:	EA-00986-SMS-D1-0400	



Covered Area = 288.00 S.Ft  
 O.H. Water Tank Area = 374.00 S.Ft



Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hind, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. : 111-111-584 Fax No. : 584-1623  
 Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF  
 SIMU CAMPUS  
 KARACHI**

Key Plan :

Note:  
 • All Dimensions to be confirmed on site with architect.  
 • Do not scale.  
 • Only written dimensions to be followed.  
 • Any discrepancies to be clarified with the architect.  
 • For structure details refer, structure engineer drawings / details



No.	DATE	DESCRIPTION
REVISIONS		

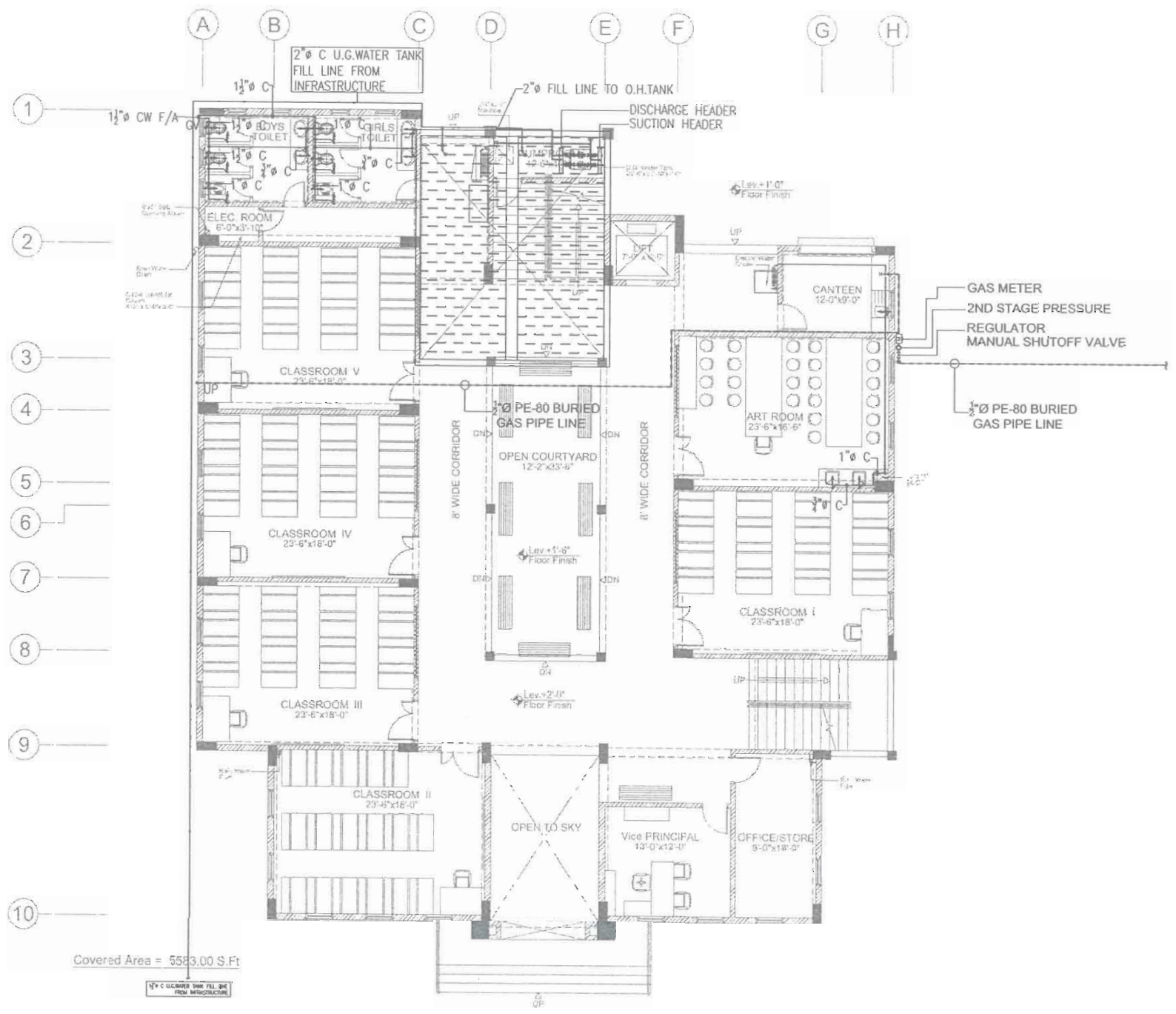
Date of Issue: MAY 05, 2018  
 Issued To: Client  
 Issued For: Tender

**PLUMBING**  
 Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
 CITY CAMPUS**

Drawing Title:  
**ROOFPLAN  
 DRAINAGE LAYOUT**

Designed:	Checked:	Approved:
A.T	A.T	Z.A
Drawn:	Date:	Scale / Sheet:
M.D	MAY-2018	1/16"=1'-0" @ A3
Project Code:	Rev.:	
00986	0	
Drawing No.:	EA-00986-SMS-D1-0500	



Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
 Head Office AL-9, 15th Lane, Khayaban-e-Hayat Phase 7,  
 Defence Housing Authority, Karachi- 75500 - Pakistan  
 Phone No. : 111-111-584 Fax No. : 504-1625  
 Email : info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF  
 SMIU CAMPUS  
 KARACHI**

Key Plan :  
 (Blank area for key plan)

Note:  
 \* All Dimensions to be confirmed on site with architect.  
 \* Do not scale.  
 \* Only written dimensions to be followed.  
 \* Any discrepancies to be clarified with the architect.  
 \* For structure details refer structure engineer drawings / details



No.	DATE	DESCRIPTION
REVISIONS		

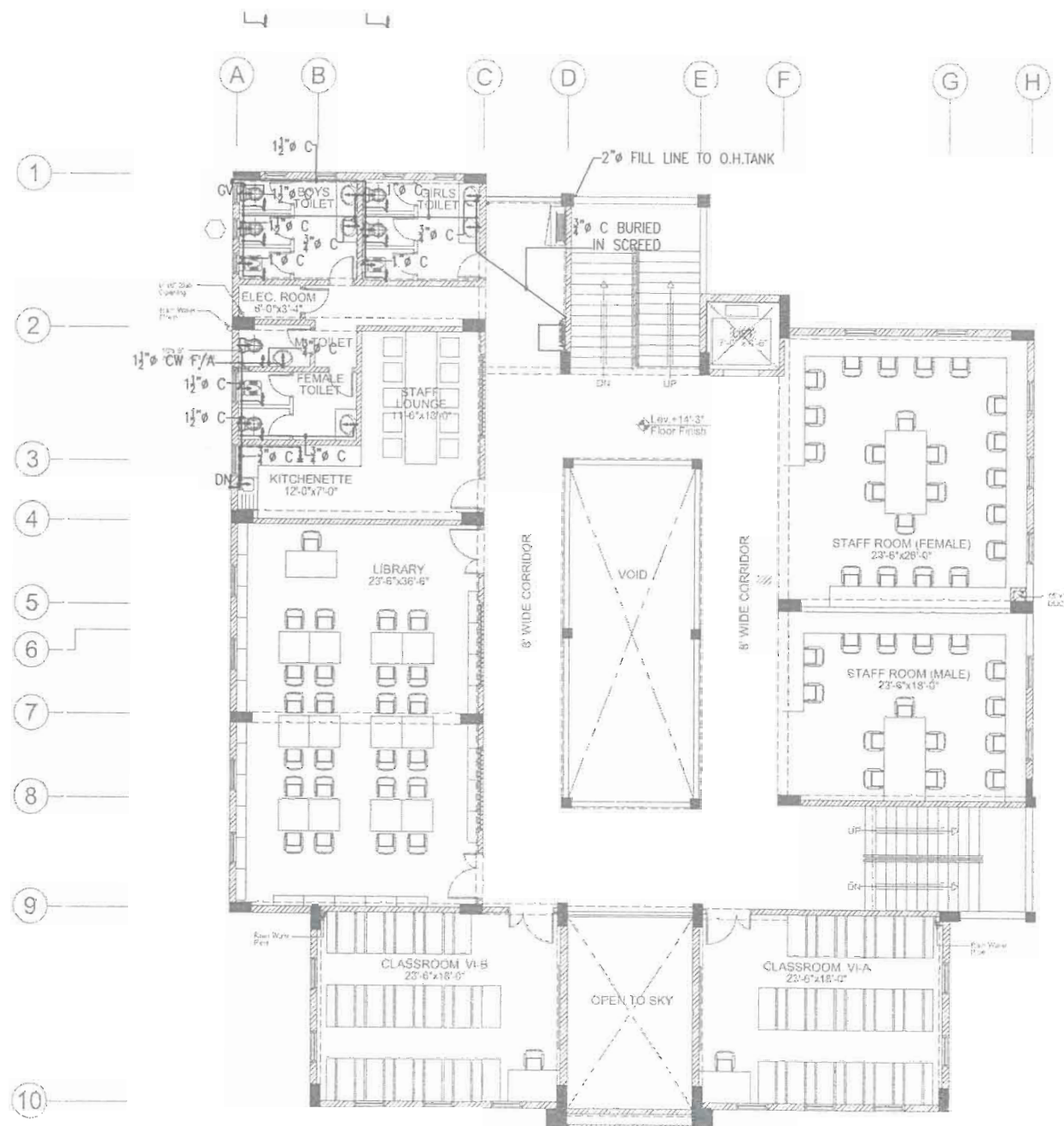
Date of issue: MAY 05, 2018  
 Issued To: Client  
 Issued For: Tender

**PLUMBING**  
 Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
 CITY CAMPUS**

Drawing Title:  
**GROUND FLOOR PLAN  
 WATER SUPPLY LAYOUT**

Designed : M.T	Checked : M.T	Approved : Z.A
Drawn : M.D	Date : MAY, 2018	Scale / Sheet : 1/16"=1'-0" @ A3
Project Code : 00986	Rev. : 0	
Drawing No. : EA-00986-SMS-W1-0100		



Covered Area = 5550.00 S.Ft



Client:  
 Consultant:  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal Phase 7,  
 Defence Housing Authority, Karachi. 75500 - Pakistan  
 Phone No.: 111-111-564 Fax No.: 594-1825  
 Email: info@eaworld.com www.eaworld.com

Project:  
**DEVELOPMENT OF  
 SMU CAMPUS  
 KARACHI**

Key Plan:  
 (Blank area for key plan)

Note:  
 • All Dimensions to be confirmed on site with architect.  
 • Do not scale.  
 • Only written dimensions to be followed.  
 • Any discrepancies to be clarified with the architect.  
 • For structure details refer, structure engineer drawings / details

North:

No.	DATE	DESCRIPTION
REVISIONS		

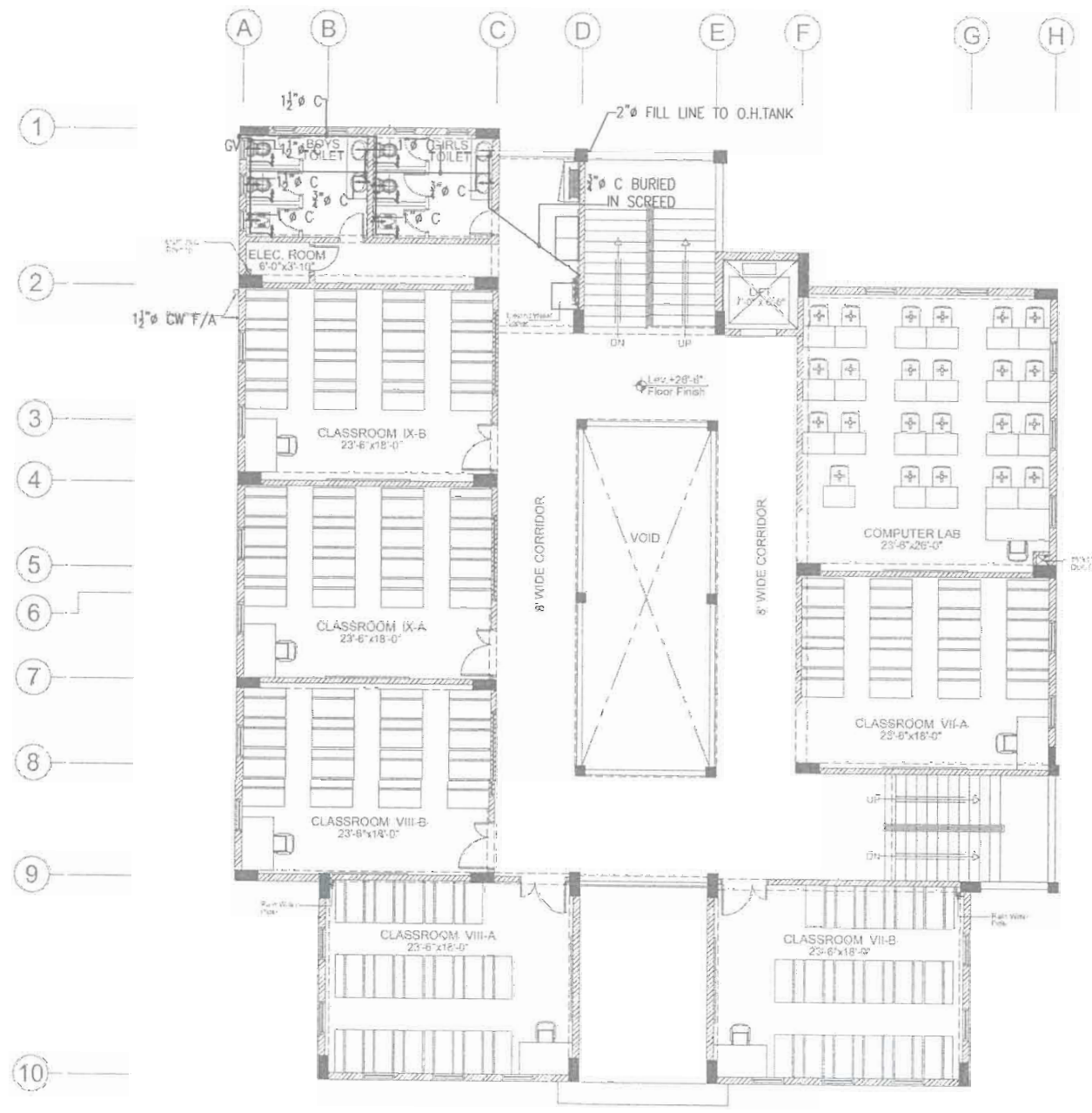
Date of Issue: MAY 05, 2018  
 Issued To: Client  
 Issued For: Tender

**PLUMBING**  
**TENDER**

Building Name:  
**MODEL SCHOOL  
 CITY CAMPUS**

Drawing Title:  
**FIRST FLOOR PLAN  
 WATER SUPPLY LAYOUT**

Designed: M.T	Checked: M.T	Approved: Z.A
Drawn: M.D	Date: MAY, 2018	Scale / Sheet: 1/16" = 1'-0" @ A3
Project Code: 00986	Rev: 0	
Drawing No.: EA-00986-SMS-W1-0200		



Covered Area = 5550.00 S.Ft

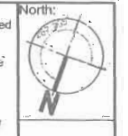


Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 1<sup>st</sup> Fl, Lane, Khayaban-e-Hilal Phase 7,  
 Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. 111-111284, Fax No. 584-1825  
 Email : info@eaconsulting.com | www.eaconsulting.com

Project :  
**DEVELOPMENT OF  
 SMU CAMPUS  
 KARACHI**

Key Plan:

Note:  
 • All Dimensions to be confirmed on site with architect.  
 • Do not scale.  
 • Only written dimensions to be followed.  
 • Any discrepancy to be clarified with the architect.  
 • For structure details refer structure engineer drawings / details.



No.	DATE	DESCRIPTION
REVISIONS		

Date of Issue: MAY 05, 2018  
 Issued To: Client  
 Issued For: Tender

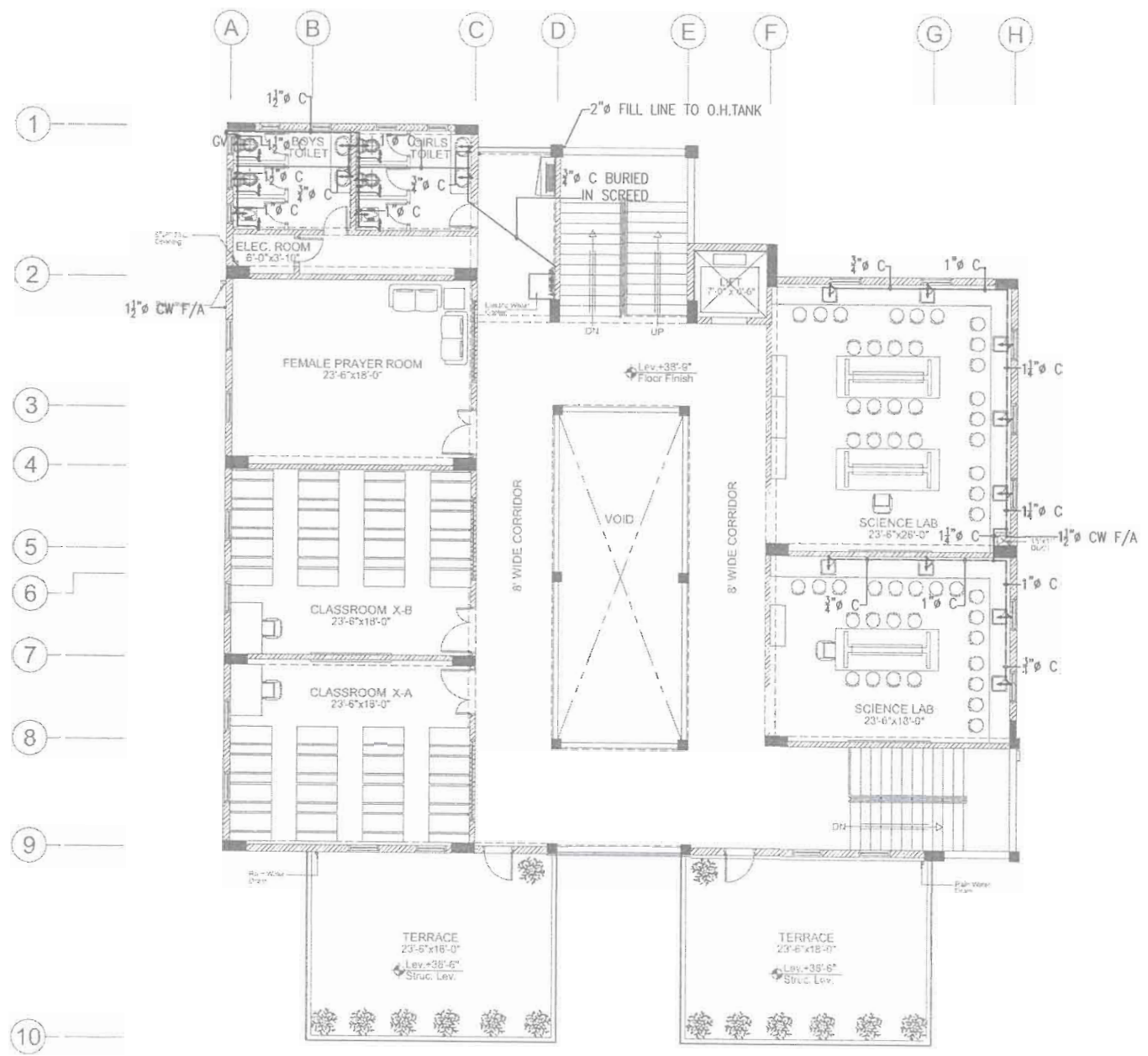
**PLUMBING**  
 Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
 CITY CAMPUS**

Drawing Title:  
**FIRST FLOOR PLAN  
 WATER SUPPLY LAYOUT**

Designed : M.F	Checked : M.F	Approved : Z.A
Drawn : M.D	Date : MAY, 2018	Scale / Sheet : 1/16" = 1'-0" @ A3
Project Code : 00986	Rev. : 0	
Drawing No. : EA-00986-SMS-W1-0300		





Covered Area = 4621.00 S.Ft



Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal Phase 7,  
 Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. 111-111-584, Fax No. 584-1825  
 Email : info@eaconsulting.com | www.eaconsulting.com

Project :  
**DEVELOPMENT OF  
 SMU CAMPUS  
 KARACHI**

Key Plan :

Note:  
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No.	DATE	DESCRIPTION
REVISIONS		

Date of Issue	MAY 05, 2018
Issued To	Client
Issued For	Tender

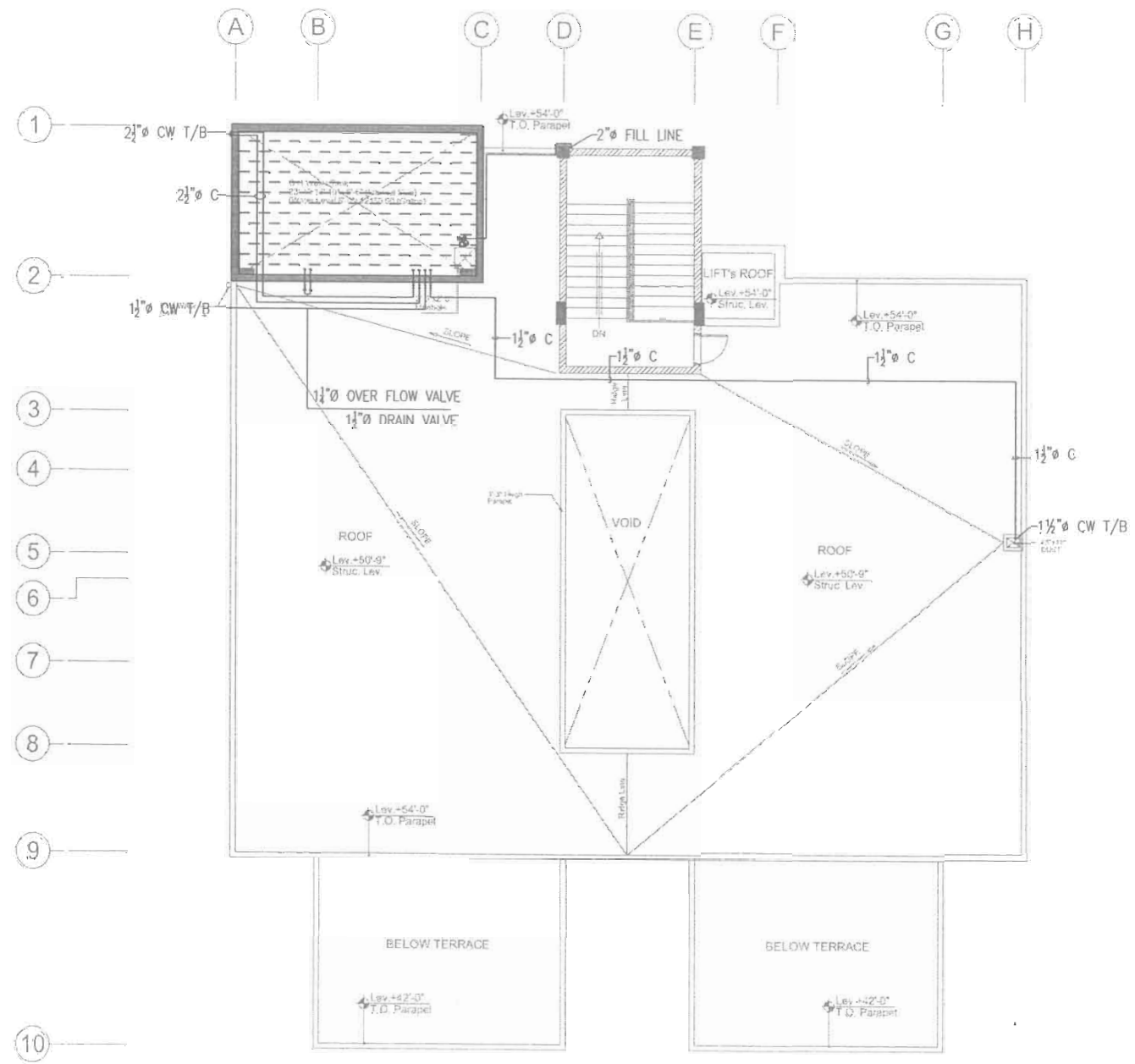
**PLUMBING**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
 CITY CAMPUS**

Drawing Title :  
**THIRD FLOOR PLAN  
 WATER SUPPLY LAYOUT**

Designed :	Checked :	Approved :
M.T	M.T	Z.A
Drawn :	Date :	Scale / Sheet :
M.D	MAY, 2018	1/16"=1'-0" @ A3
Project Code :	Rev :	
00986	0	
Drawing No. :	EA-00986-SMS-W1-0400	



Covered Area = 288.00 S.Ft  
 O.H. Water Tank Area = 374.00 S.Ft



Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
 Head Office: Al-9, 15th Lane, Khayaban-e-Hilal, Phase 7,  
 Defence Housing Authority, Karachi, 75500 ; Pakistan  
 Phone No. : 111-111-5544 ; Fax No. : 584-1025  
 Email : info@eaconsult.com | www.eaconsult.com

Project :  
**DEVELOPMENT OF  
 SMIU CAMPUS  
 KARACHI**

Key Plan :

Note:  
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 • Do not scale.  
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 • For structure details refer, structure engineer drawings / details.



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REVISIONS		

Date of Issue: MAY 05, 2018  
 Issued To: Client  
 Issued For: Tender

**PLUMBING**  
 Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
 CITY CAMPUS**

Drawing Title:  
**ROOF PLAN  
 WATER SUPPLY LAYOUT**

Designed : M.T	Checked : M.T	Approved : Z.A
Drawn : M.D	Date : MAY, 2018	Scale / Sheet : 1/16" = 1'-0" @ A3
Project Code : 00986	Rev. : 0	
Drawing No. : EA-00986-SMS-W1-0500		

# DEVELOPMENT OF SMIU CAMPUS KARACHI



**TENDER DRAWINGS<sup>^</sup>**  
ELECTRICAL

**MODEL SCHOOL City Campus**  
July'2018

## ELECTRICAL

S.#	DRAWING NO.	DRAWING TITLE
<b>E - GENERAL DRAWINGS</b>		
1	EA-00986-SMS-E-0000	TITLE SHEET
2	EA-00986-SMS-E-0001	LIST OF DRAWINGS
3	EA-00986-SMS-E-0002	LEGEND OF ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES
4	EA-00986-SMS-E-0003	ELECTRICAL STANDARD DETAIL (SHEET 1 OF 2)
5	EA-00986-SMS-E-0004	ELECTRICAL STANDARD DETAIL (SHEET 2 OF 2)
6	EA-00986-SMS-E-0005	ELECTRICAL DISTRIBUTION SCHEMATIC DIAGRAM
<b>EL - LIGHTING LAYOUT PLANS</b>		
1	EA-00986-SMS-EL-0100	GROUND FLOOR PLAN LIGHTING LAYOUT
2	EA-00986-SMS-EL-0200	FIRST FLOOR PLAN LIGHTING LAYOUT
3	EA-00986-SMS-EL-0300	SECOND FLOOR PLAN LIGHTING LAYOUT
4	EA-00986-SMS-EL-0400	THIRD FLOOR PLAN LIGHTING LAYOUT
5	EA-00986-SMS-EL-0500	ROOF PLAN LIGHTING & LIGHTNING PROTECTION SYSTEMS LAYOUT
<b>EP - POWER LAYOUT PLANS</b>		
1	EA-00986-SMS-EP-0100	GROUND FLOOR PLAN POWER LAYOUT
2	EA-00986-SMS-EP-0200	FIRST FLOOR PLAN POWER LAYOUT
3	EA-00986-SMS-EP-0300	SECOND FLOOR PLAN POWER LAYOUT
4	EA-00986-SMS-EP-0400	THIRD FLOOR PLAN POWER LAYOUT
5	EA-00986-SMS-EP-0500	ROOF PLAN LIGHTNING PROTECTION SYSTEM LAYOUT

## EXTRA LOW VOLTAGE

S.#	DRAWING NO.	DRAWING TITLE
<b>IT - ELV &amp; IT SYSTEM LAYOUT PLANS</b>		
1	EA-00986-SMS-IT-0100	GROUND FLOOR PLAN ELV & IT SYSTEMS LAYOUT
2	EA-00986-SMS-IT-0200	FIRST FLOOR PLAN ELV & IT SYSTEMS LAYOUT
3	EA-00986-SMS-IT-0300	SECOND FLOOR PLAN ELV & IT SYSTEMS LAYOUT
4	EA-00986-SMS-IT-0400	THIRD FLOOR PLAN ELV & IT SYSTEMS LAYOUT
5	EA-00986-SMS-IT-0500	COMMUNICATION SYSTEM SCHEMATIC DIAGRAM
6	EA-00986-SMS-IT-0600	CCTV SYSTEM SCHEMATIC DIAGRAM
7	EA-00986-SMS-IT-0700	PUBLIC ADDRESS SCHEMATIC DIAGRAM
8	EA-00986-SMS-IT-0800	MASTER CLOCK SYSTEM SCHEMATIC DIAGRAM

Client :



Consultant :



**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7,  
 Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. : 111-111-5941 Fax No. : 594-1925  
 Email : info@eaworld.com | www.eaworld.com

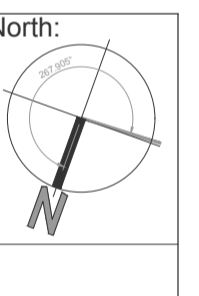
Project :

**DEVELOPMENT OF  
SMIU CAMPUS  
KARACHI**

Key Plan :

Note:

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0	25, May 2018	ISSUED FOR TENDER
No.	DATE	DESCRIPTION

REVISIONS		
Date of Issue	25th May 2018	
Issued To	Client	
Issued For	Tender	

**ELECTRICAL**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title :

LIST OF DRAWINGS

Designed :	Checked :	Approved :
MF	MF	JIS
Drawn :	Date :	Scale / Sheet :
MA	April 2018	NTS @A1
Project Code :	Rev. :	
00986	0	
Drawing No. :	EA-00986-SMS-E-0001	

LEGEND FOR LIGHTING					
S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTING
1	⊙D1	DOWNLIGHT FIXTURE (IP-20)	20W LED	1600 Lm	CEILING SURFACE
2	⊙D2	DOWNLIGHT FIXTURE (IP-44)	7W LED	650 Lm	CEILING RECESSED
3	⊙D3	DOWNLIGHT FIXTURE (IP-44)	10W LED	1000 Lm	CEILING RECESSED
4	F1	4' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	3700 Lm	CEILING SURFACE
5	F2	2' LONG BATTEN LIGHT FIXTURE (IP-20)	20W LED	1900 Lm	CEILING SURFACE
6	W1	WALL LIGHT FIXTURE (IP-54)	2x5W LED		WALL
7	W2	BULKHEAD LIGHT FIXTURE (IP-54)	10W LED	800 Lm	WALL
8	Y	CEILING FAN 56"	-		CEILING SURFACE
9	W	WALL BRACKET FAN 12"			WALL
10	E	EXHAUST FAN 6" / 8"			WALL
11	NS	LIGHTING CONTROL SWITCH (N GANG)			WALL
12	ND	FAN DIMMER (N GANG)			WALL
13	Y	TWO WAY LIGHTING CONTROL SWITCH			WALL

NOTES:- 1. ALL FINISHES OF LIGHT FIXTURES AND COLOUR TEMPERATURE OF LAMPS SHALL BE SUBJECT TO ARCHITECT'S APPROVAL .

### SWITCHES

SYMBOL	DESCRIPTION
NS	LIGHTING CONTROL SWITCH (N GANG)
ND	FAN DIMMER (N GANG)
Y	TWO WAY LIGHTING CONTROL SWITCH

### LEGEND FOR LIGHTNING PROTECTION

SYMBOLS	DESCRIPTION
⚡	TAPER POINTED COPPER AIR TERMINAL 500mm LONG 15mmØ WITH BASE BARE COPPER
DN	DOWN CONDUCTOR 70sqmm
●	CONDUCTOR CLAMPS
— — — —	25mmx3mm LIGHTNING PROTECTION COPPER STRIP

### LEGEND FOR POWER SYSTEM

SYMBOL	DESCRIPTION
⊙	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET
⊙	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ABOVE COUNTER TOP)
⊙	13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET
⊙	15A 3 PIN 1-GANG SWITCHED SOCKET OUTLET
⊙	13A 3 PIN FLAT 1-GANG UNSWITCHED SOCKET OUTLET
⊙	10A 1-GANG SWITCH
⊙	TPN ISOLATOR
⊙	DISTRIBUTION BOARD (DB)
⊙	SUB MAIN DISTRIBUTION BOARD (SMDB)
⊙	230V, 600VA UPS SINGLE IN SINGLE OUT
⊙	POWER MANHOLE
⊙	EARTH PIT FOR POWER
⊙	EARTH PIT FOR LIGHTNING PROTECTION
⊙	EARTH BAR WITH SINGLE DISCONNECTING LINK
⊙	SELECTOR SWITCH / VOLTMETER
⊙	AMPERE METER
⊙	PHASE INDICATION LAMPS (R,Y,B)
⊙	NON FERROUS CABLE GLAND PLATE
⊙	FUSE
⊙	SINGLE POLE MINIATURE CIRCUIT BREAKER (MCB)
⊙	TRIPPLE POLE MOULDED CASE CIRCUIT BREAKER (MCCB)
⊙	SURGE PROTECTION DEVICE TYPE II
⊙	DIESEL GENERATOR SET

### MINIMUM REQUIREMENT OF CONDUIT SIZES SHALL BE AS TABULATED BELOW:

CABLE SIZE	CONDUIT SIZE				
	20mm Ø	25mm Ø	32mm Ø	38mm Ø	50mm Ø
CONDUCTOR SIZE	MAXIMUM No. OF CABLES				
2.5 mm <sup>2</sup>	5	10	-	-	-
4.0 mm <sup>2</sup>	4	5	-	-	-
6.0 mm <sup>2</sup>	3	5	-	-	-
10.0 mm <sup>2</sup>	2	3	5	-	-
16.0 mm <sup>2</sup>	-	2	4	5	-
25.0 mm <sup>2</sup>	-	-	3	4	-
35.0 mm <sup>2</sup>	-	-	2	3	5
50.0 mm <sup>2</sup>	-	-	-	-	4

### CONDUIT AND HOME RUNS

SYMBOL	DESCRIPTION
— — — —	CONDUIT CONCEALED IN FLOOR
— — — —	CONDUIT CONCEALED IN CEILING (SLAB) OR WALL
— — — —	CONDUIT OR CABLE RUN TO DISTRIBUTION BOARD (R1,Y1,B1) INDICATES REFERENCE CIRCUIT, (DB-N)- INDICATES DISTRIBUTION BOARD NAME
— — — —	CONDUIT OR CABLE RUN TO EQUIPMENT AS INDICATED OR CONTINUED AS INDICATED

### LEGEND FOR IT SYSTEM

SYMBOL	DESCRIPTION
▽	SINGLE RJ45 OUTLET FOR VOICE (1'-6" ATFL)
▽	SINGLE RJ45 OUTLET FOR DATA (1'-6" ATFL)
W ▽	SINGLE RJ45 DATA OUTLET FOR WIFI @CEILING / WALL
P ▽	SINGLE RJ45 DATA OUTLET FOR PROJECTOR ABOVE FALSE CEILING
TV ▽	TELEVISION POINT @ (4'-8" ATFL)
⊙	FLOOR DISTRIBUTION BOX: 1 No RJ45 OUTLET FOR VOICE & 1 No RJ45 OUTLET FOR DATA 1 No 13A DUAL & 1 No 13A UNIVERSAL SOCKET OUTLET
42U	42U TELECOM RACK (FLOOR STANDING)
12U	12U TELECOM RACK (WALL MOUNTED) (4'-8" ATFL)
MTJB	MAIN TELEPHONE JUNCTION BOX (4'-8" ATFL)
TJB	TELEPHONE JUNCTION BOX (4'-8" ATFL)
⊙	MANHOLE FOR TELECOM (2'-0"x2'-0")
⊙	CCTV FIXED CAMERA TYPE (WALL MOUNTED) (7'-0" ATFL)
⊙	SPLITTER (SURFACE MOUNTED)
ACS	ACCESS CONTROL PANEL (2 DOOR)
⊙	PROXIMATELY CARD READER (4'-8" ATFL)
⊙	DOOR LOCK UNIT (ABOVE THE DOOR)
⊙	PUSH BUTTON (4'-8" ATFL)

### LEGEND FOR FA , PA & EM LIGHTING SYSTEMS

SYMBOL	DESCRIPTION
⊙	ANALOGUE INTELLIGENT ADDRESSABLE SMOKE DETECTOR
⊙	ANALOGUE INTELLIGENT ADDRESSABLE HEAT DETECTOR
⊙	ANALOGUE INTELLIGENT ADDRESSABLE SMOKE DETECTOR WITH SOUNDER
⊙	WALL SOUNDER WITH FLASHER / STROBE WEATHER PROOF TYPE
⊙	WALL SOUNDER WITH FLASHER / STROBE
⊙	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT
⊙	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT WEATHER PROOF TYPE
FACP	FIRE ALARM CONTROL PANEL (ADDRESSABLE)
IF	FOR PUMP
⊙	PA / VA SURFACE SPEAKER WITH BOX (6W)
⊙	CEILING SPEAKER (6W) FOR PA SYSTEM
⊙	PUBLIC ADDRESS SPEAKER WALL MOUNTED
⊙	GOOSENECK MICROPHONE
PA	PA RACK
⊙	MIXER AMPLIFIER
EM	EMERGENCY LIGHT (CEILING / RECESSED) 1x8W (IP20 LED LAMP)
EM	EMERGENCY LIGHT (CEILING / RECESSED) 1x8W (IP65 LED LAMP)
EM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (IP20 LED LAMP)
EM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (IP65 LED LAMP)
EXIT	DIRECTIONAL PANDENT 1x8W EXIT LIGHT (IP-65) : W/P DENOTES WEATHER PROOF LED TYPE

### GENERAL NOTES

- 1.1- THE FOLLOWING NOTES SHALL APPLY TO ALL THE ELECTRICAL DRAWINGS UNLESS OTHERWISE INDICATED OR NOTED.
- 1.2- DO NOT SCALE FROM THE LAYOUT DWGS. WORK ACCORDING TO ARCHITECTURAL AND ELECTRICAL DETAILS, UNLESS OTHERWISE INDICATED.
- 1.3- THE ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE REST OF THE DRAWINGS PERTAINING TO ARCHITECTURE, STRUCTURE, AIRCONDITIONING, PLUMBING, AND AS PER SPECIFICATIONS.

- 2.1- UNLESS OTHERWISE INDICATED ALL CONDUITS SHOWN ON DRAWINGS SHALL BE RIGID NON- METALIC PVC. CONDUITS.
- 2.2- ALL EXPOSED CONDUITS SHALL BE RIGID GALVANIZED IRON UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 2.3- EARTH CONTINUITY SHALL BE IN ACCORDANCE WITH THE IEE REGULATIONS AND AS PER SPECIFICATION.
- 2.4- LIGHTING OUTLETS SHALL BE EXPOSED OR CONCEALED IN ACCORDANCE TO ASSOCIATED CONDUITS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 2.5- SHAPE AND DIMENSION OF SYMBOLIZED LIGHT FIXTURES DO NOT NECESSARILY REPRESENT SHAPE AND DIMENSIONS OF ACTUAL FIXTURES INTENDED FOR THIS PURPOSE.
- 2.6- FOR EMERGENCY LIGHTING SELF CONTAIN LGHTING IS TO BE FEED FROM NEAREST DB CIRCUIT.

- 3.1- MOUNTING HEIGHTS OF SOCKET OUTLETS, SWITCHES & DBs SHALL BE AS SHOWN IN ELECTRICAL STANDARD DETAIL DRAWING OR AS DIRECTED BY ENGINEER ON SITE.

- 4.1- THE MINIMUM CONDUIT SIZE USED SHALL BE Ø 20mm.
- 4.2- CONTRACTOR SHALL PROVIDE THE REQUIRED CONDUIT SIZE WHEREVER NOT INDICATED FOR THE EASE OF PULLING OF CABLES.
- 4.3- ALL OPENINGS, SLEEVES AND SHAFTS BETWEEN FLOORS USED FOR POWER & LOW CURRENT CABLES SHALL BE SEALED WITH FIRE RESISTANT MATERIAL OR CHEQUERED PLATE TO THE APPROVAL OF ENGINEER.
- 4.4- ALL BREAKERS PROTECTING MOTORS SHALL BE MOTOR PROTECTOR TYPE .
- 4.5- CONTRACTOR SHALL PROVIDE EMPTY CONDUITS OF PROPER SIZE FOR CONTROL WIRES SERVING ALL MECHANICAL EQUIPMENT, A/C UNITS ETC. FULLY CO- ORDINATED WITH MECHANICAL SERVICES, REQUIREMENTS.
- 4.6- FOR ELV & IT SYSTEM MINIMUM CONDUIT SIZE IS 1"DIA.

### ABBREVIATION

WP	WEATHER PROOF
DN	DOWN CONDUIT
UP	UP CONDUIT
CFL	COMPACT FLUORESCENT LAMP
HDGI	HOT DIP GALVANIZED IRON
CWTP	COLD WATER TRANSFER PUMP
SP	SUMP PUMP
I.P	IRRIGATION PUMP
F.P	FIRE PUMP
J.P	JOCKEY PUMP
SF	SUPPLY FAN
EF	EXHAUST FAN
CL	CONNECTED LOAD
DL	DEMAND LOAD
DDL	DIVERSIFIED DEMAND LOAD
TCL	TOTAL CONNECTED LOAD
TDL	TOTAL DEMAND LOAD
TDDL	TOTAL DIVERSIFIED DEMAND LOAD



Client :

Consultant :

**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. : 111-111-954, Fax No. : 594-1625  
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Project :

**DEVELOPMENT OF SMU CAMPUS KARACHI**

Key Plan :

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North

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0	25. May 2018	ISSUED FOR TENDER

Date of Issue	25th May 2018
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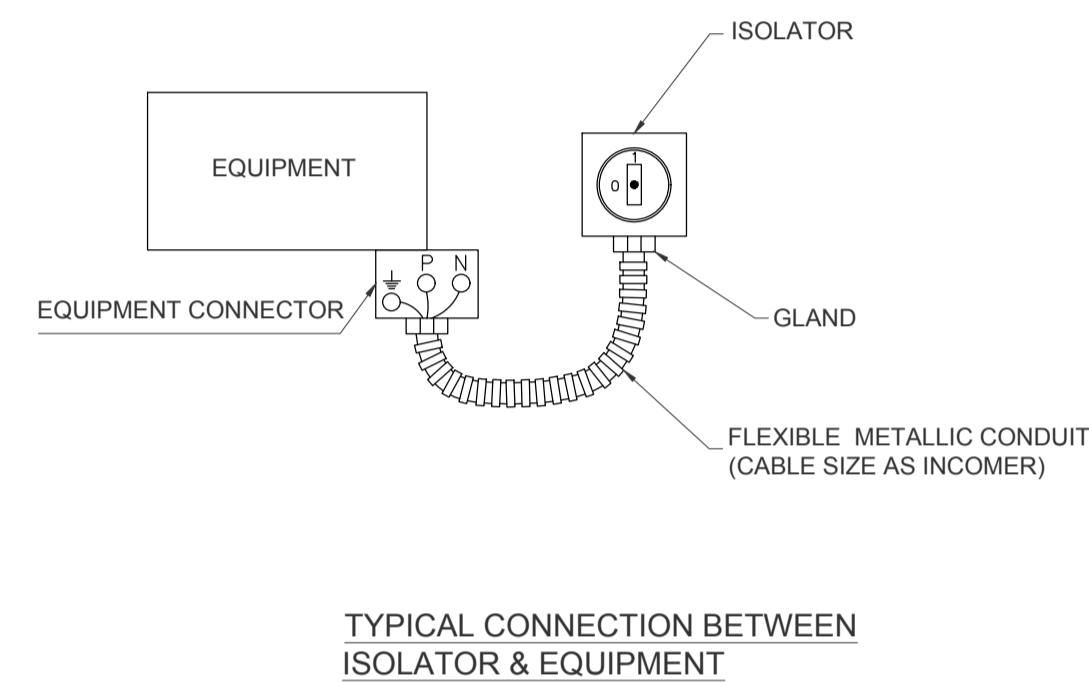
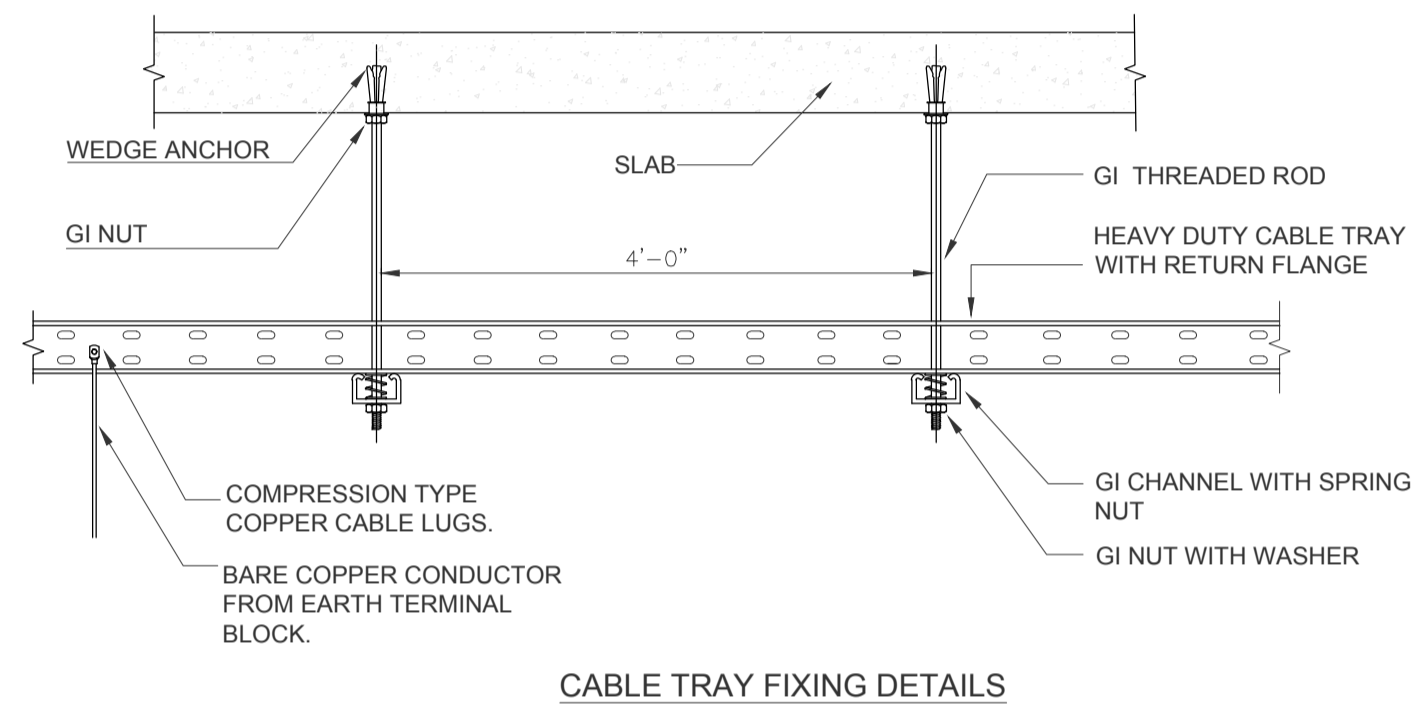
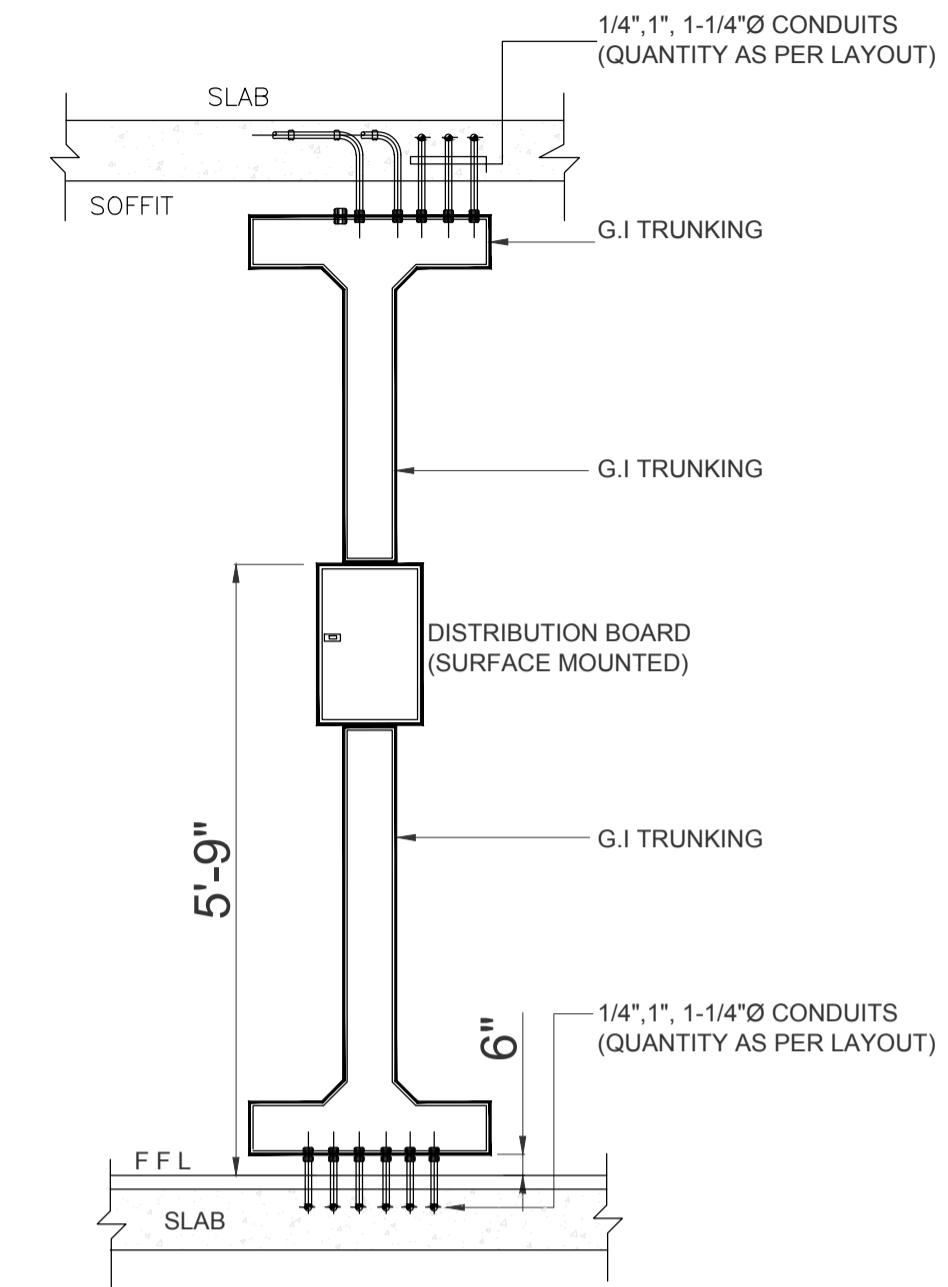
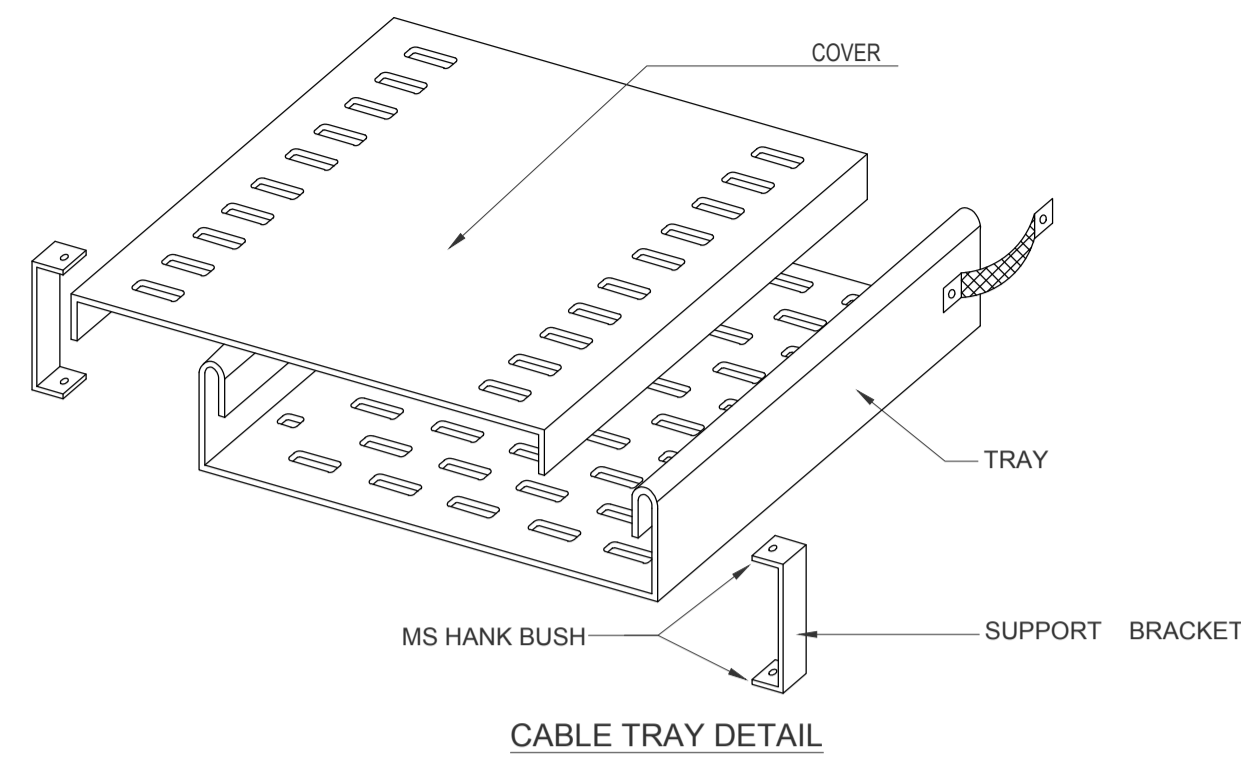
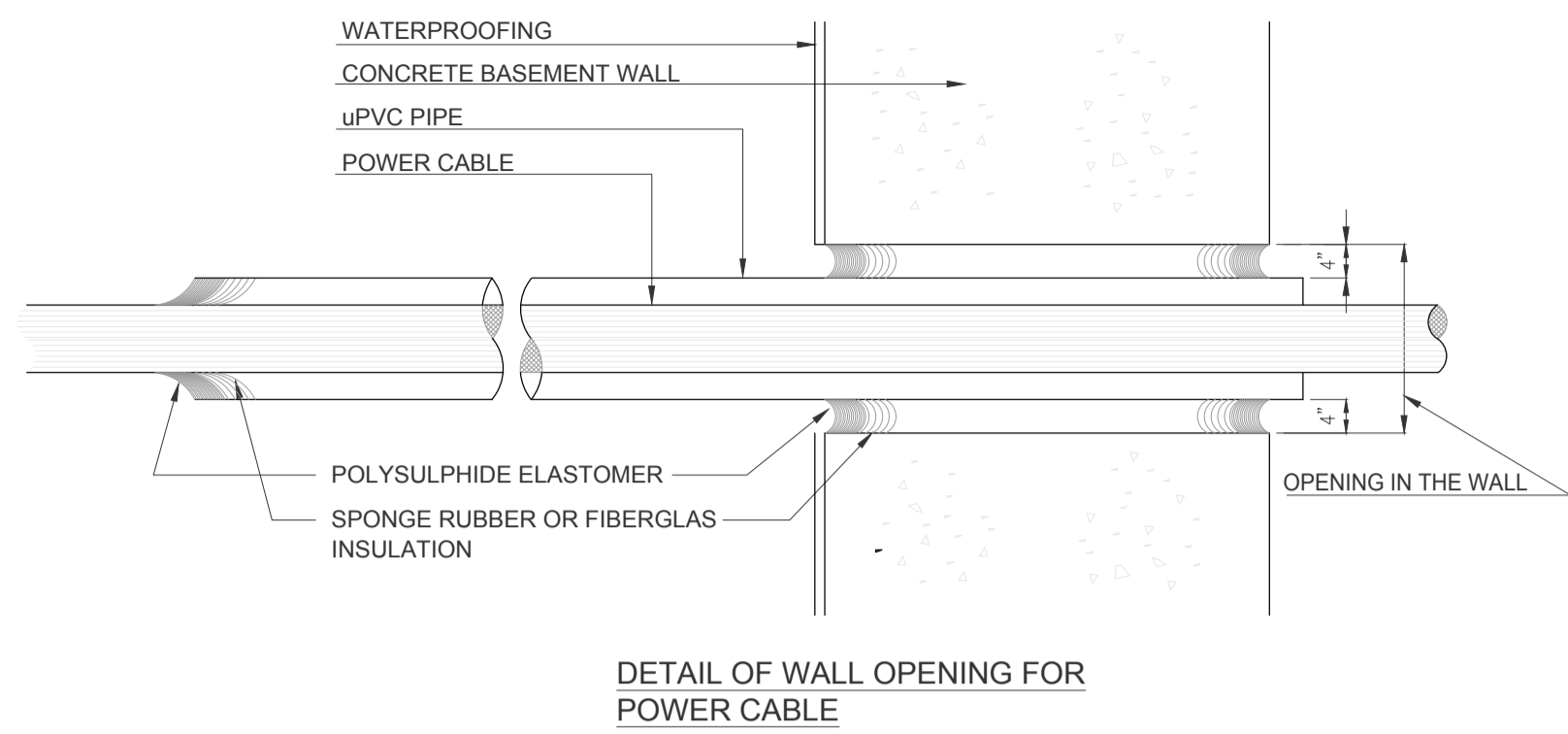
**ELECTRICAL**

Status: **TENDER**

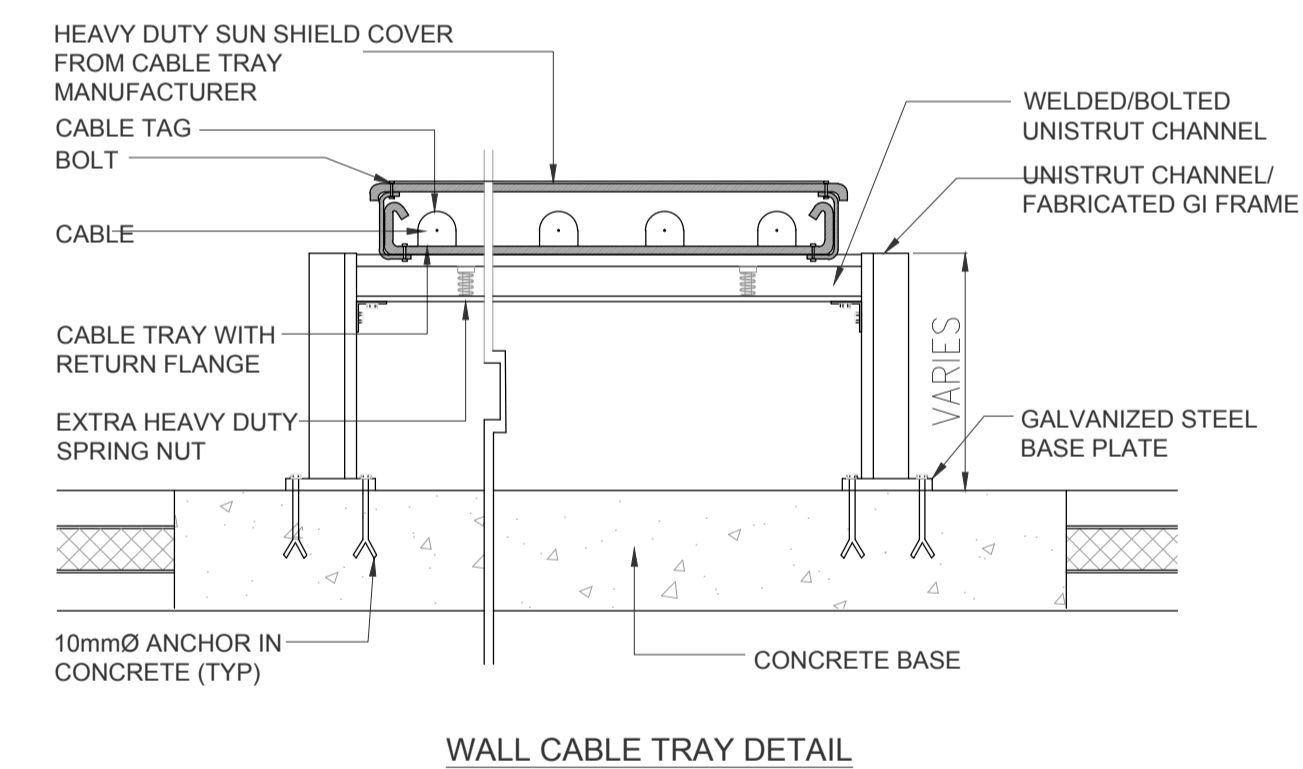
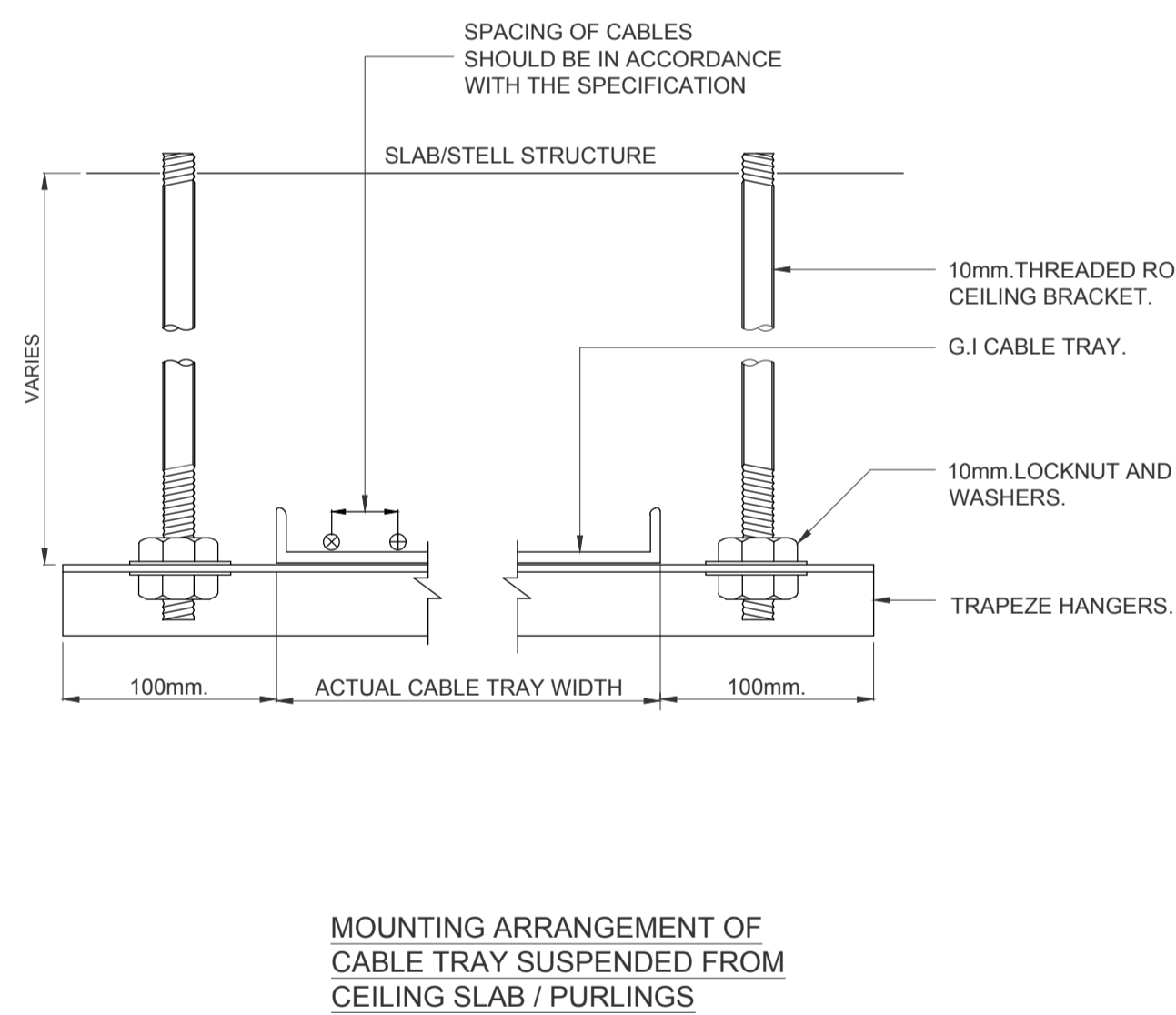
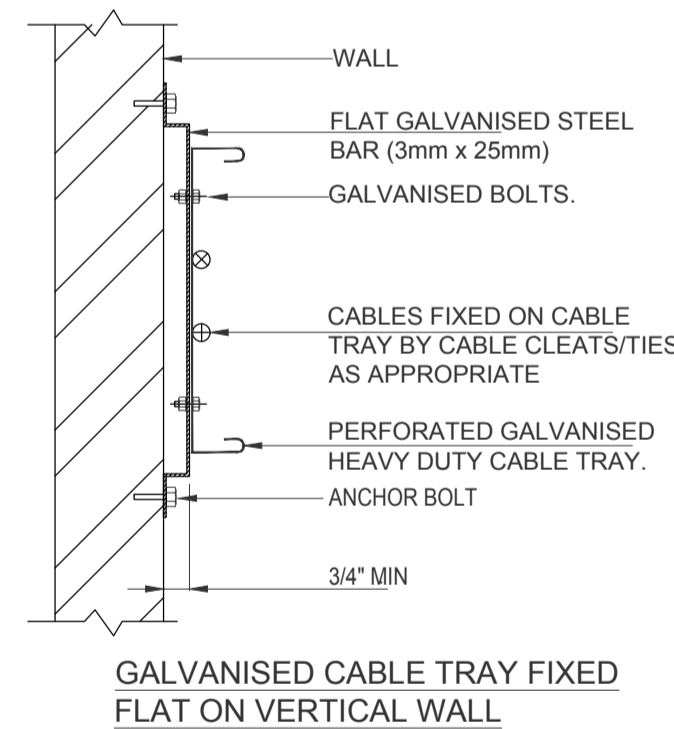
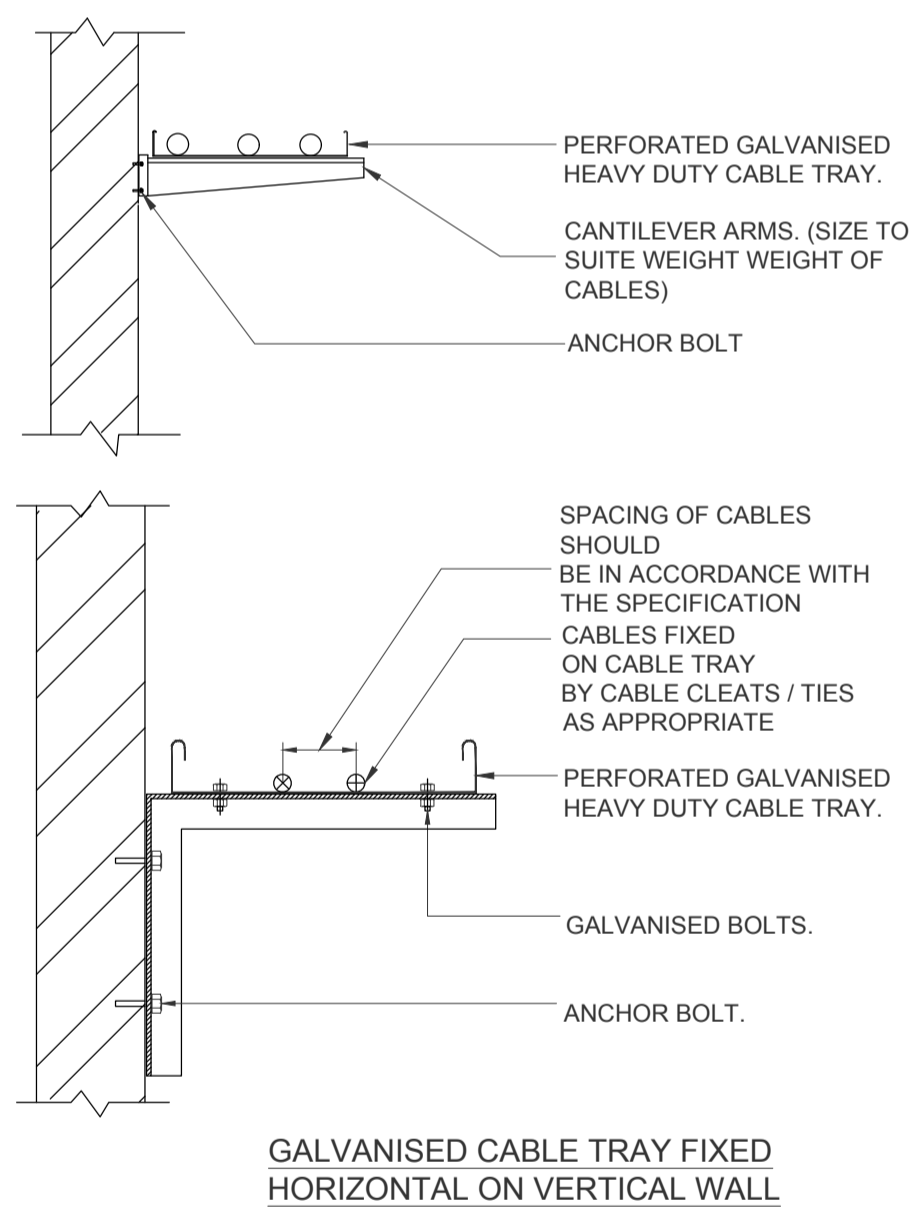
Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title : **LEGEND OF ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES**

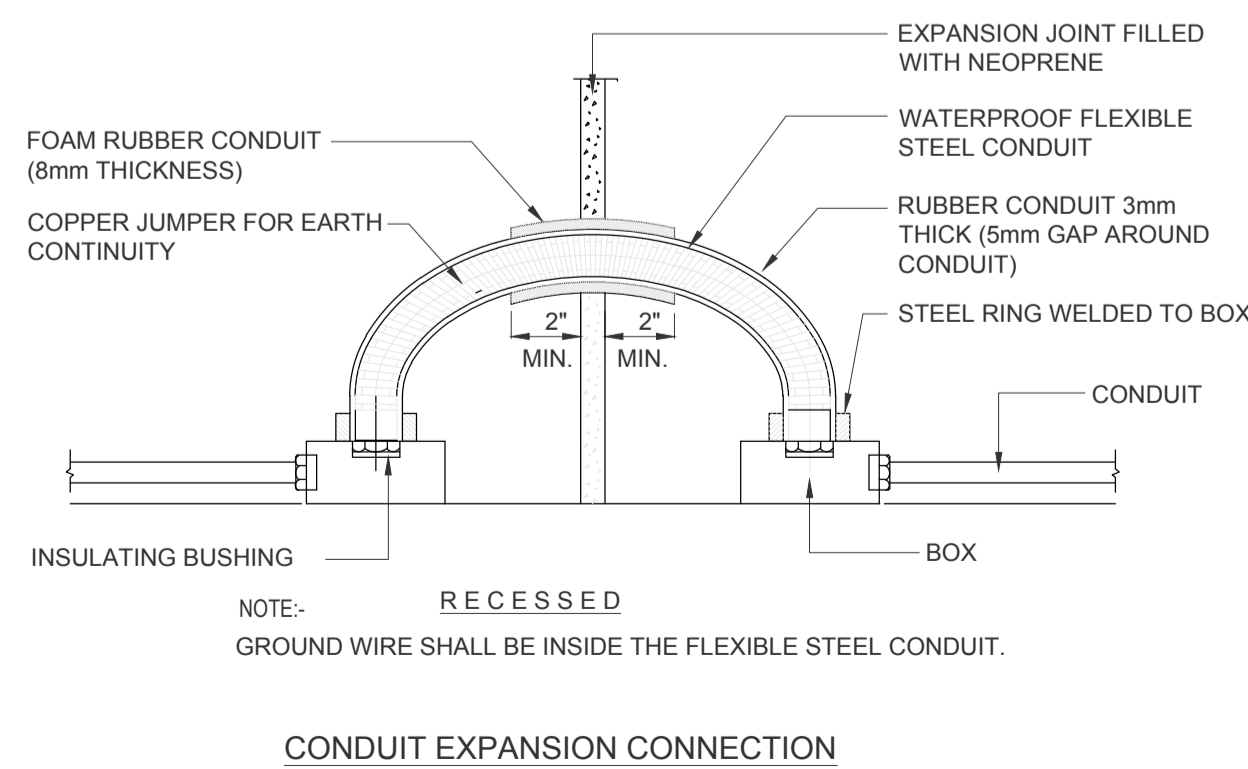
Designed :	Checked :	Approved :
MF	MF	JIS
Drawn :	Date :	Scale / Sheet :
MA	April 2018	NTS @A1
Project Code :	Rev. :	
	00986	0
Drawing No. :	EA-00986-SMS-E-0002	



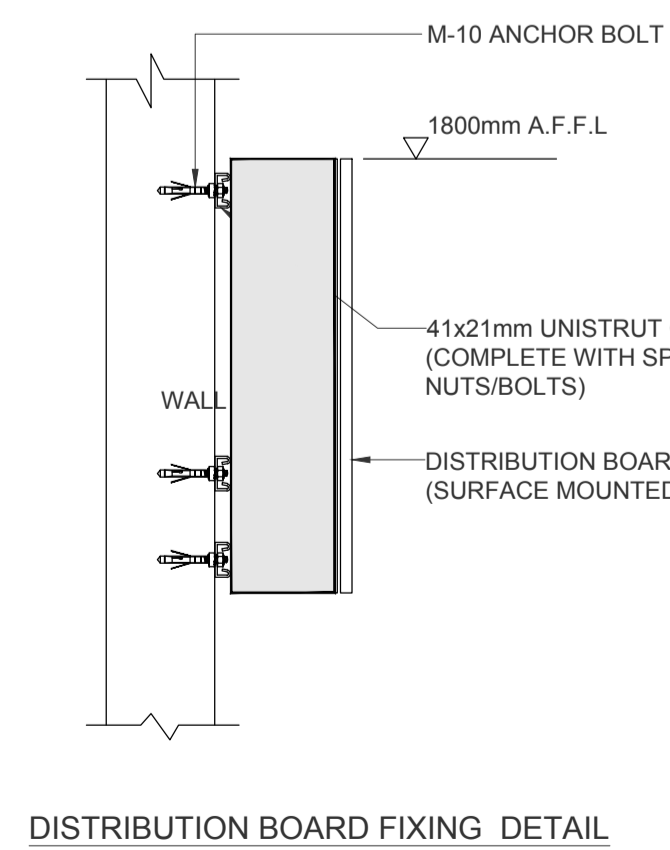
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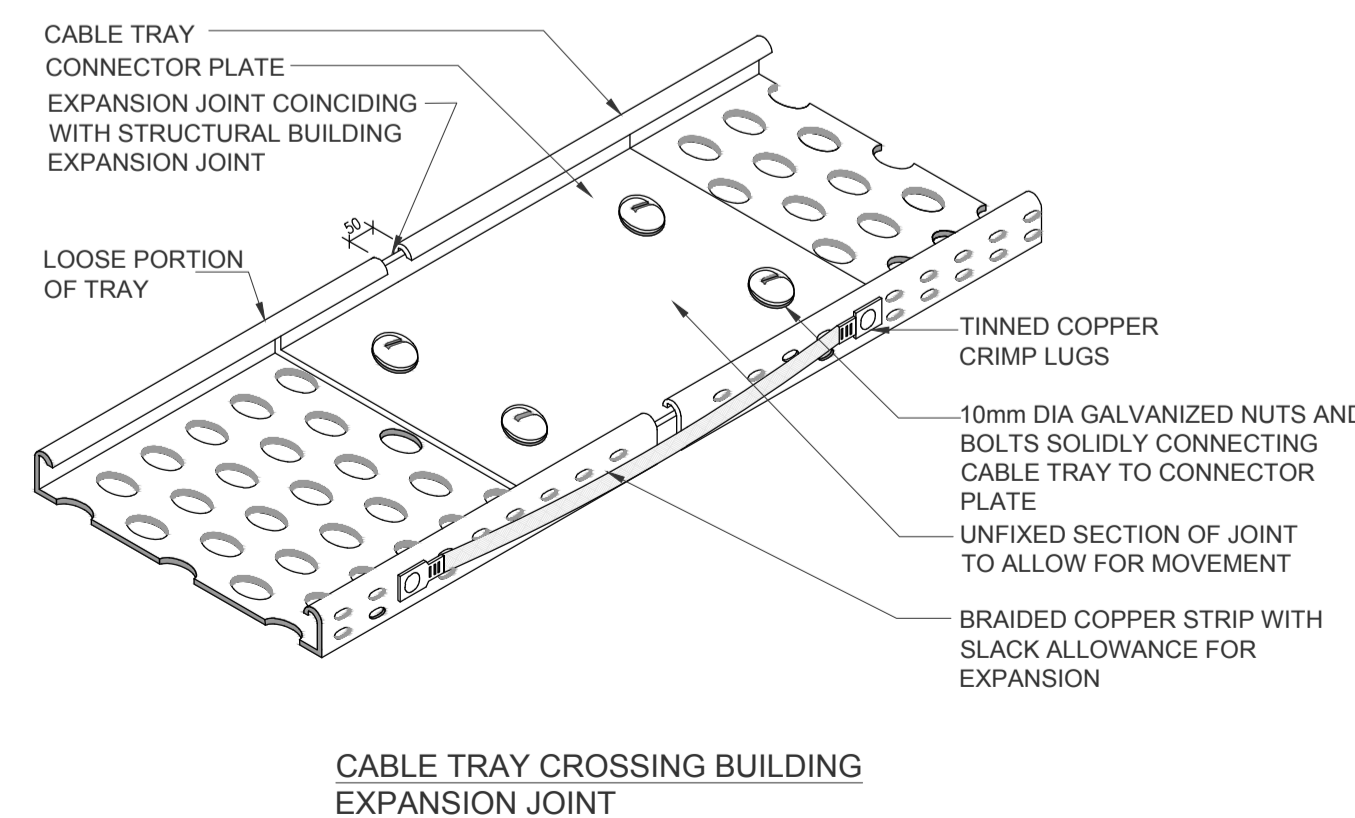
WALL CABLE TRAY DETAIL



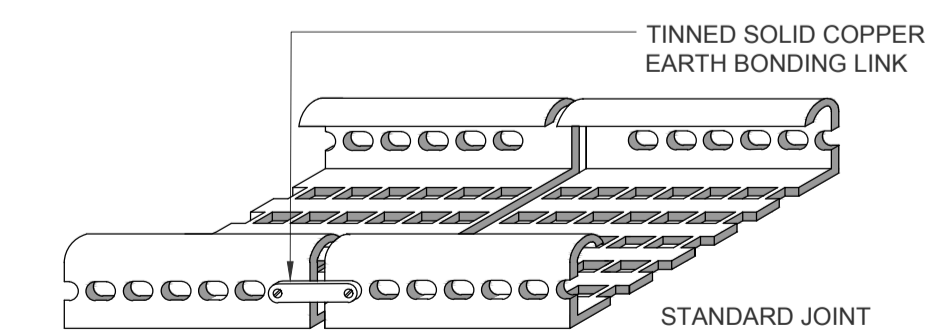
CONDUIT EXPANSION CONNECTION



DISTRIBUTION BOARD FIXING DETAIL



CABLE TRAY CROSSING BUILDING EXPANSION JOINT



CABLE TRAY EXPANSION BONDING

Client :



Consultant :



**EA Consulting Pvt Ltd**  
Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7,  
Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. 111-111-594 Fax No. 594-1925  
Email : info@eaworld.com www.eaworld.com

Project :

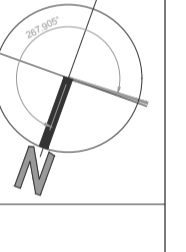
## DEVELOPMENT OF SMIU CAMPUS KARACHI

Key Plan :

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North:



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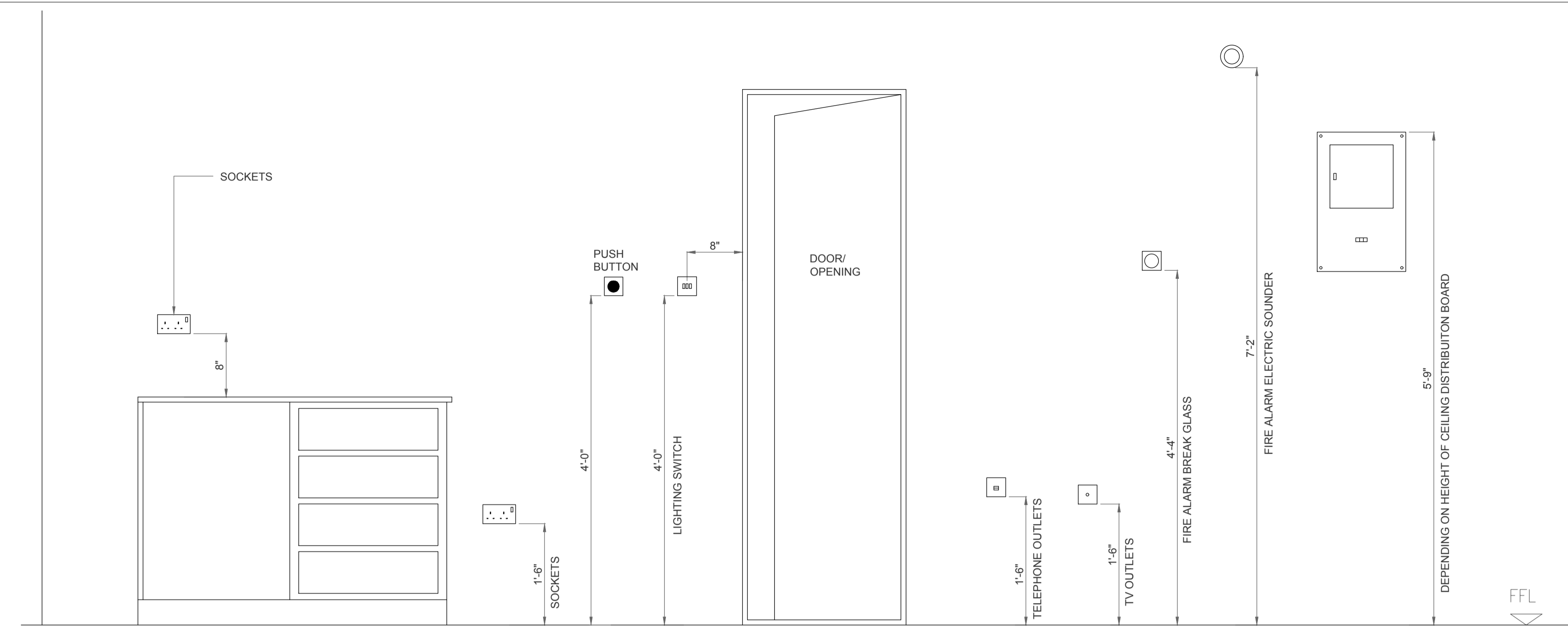
## ELECTRICAL

Status: **TENDER**

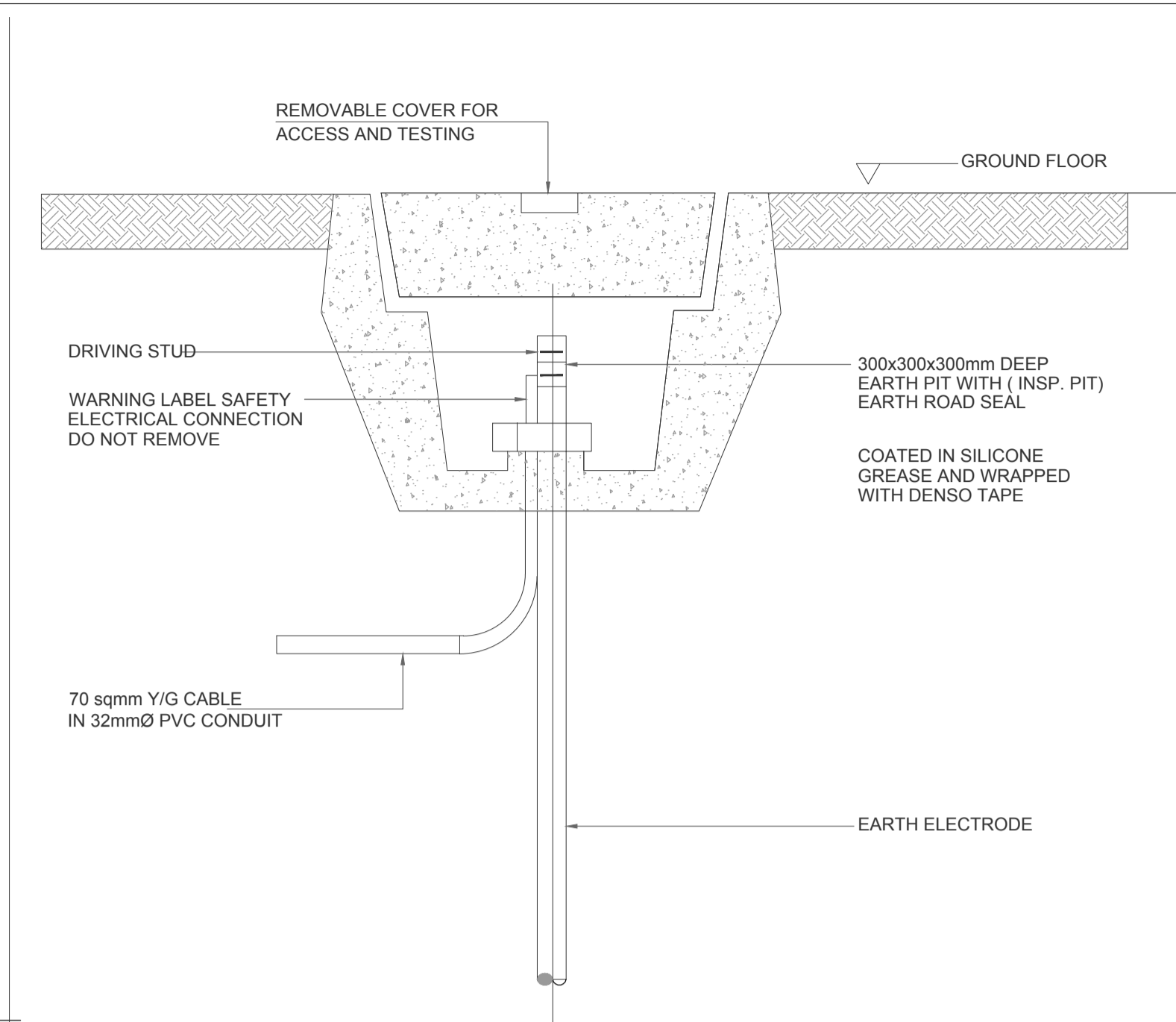
Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title: **ELECTRICAL STANDARD DETAIL (SHEET 1 OF 2)**

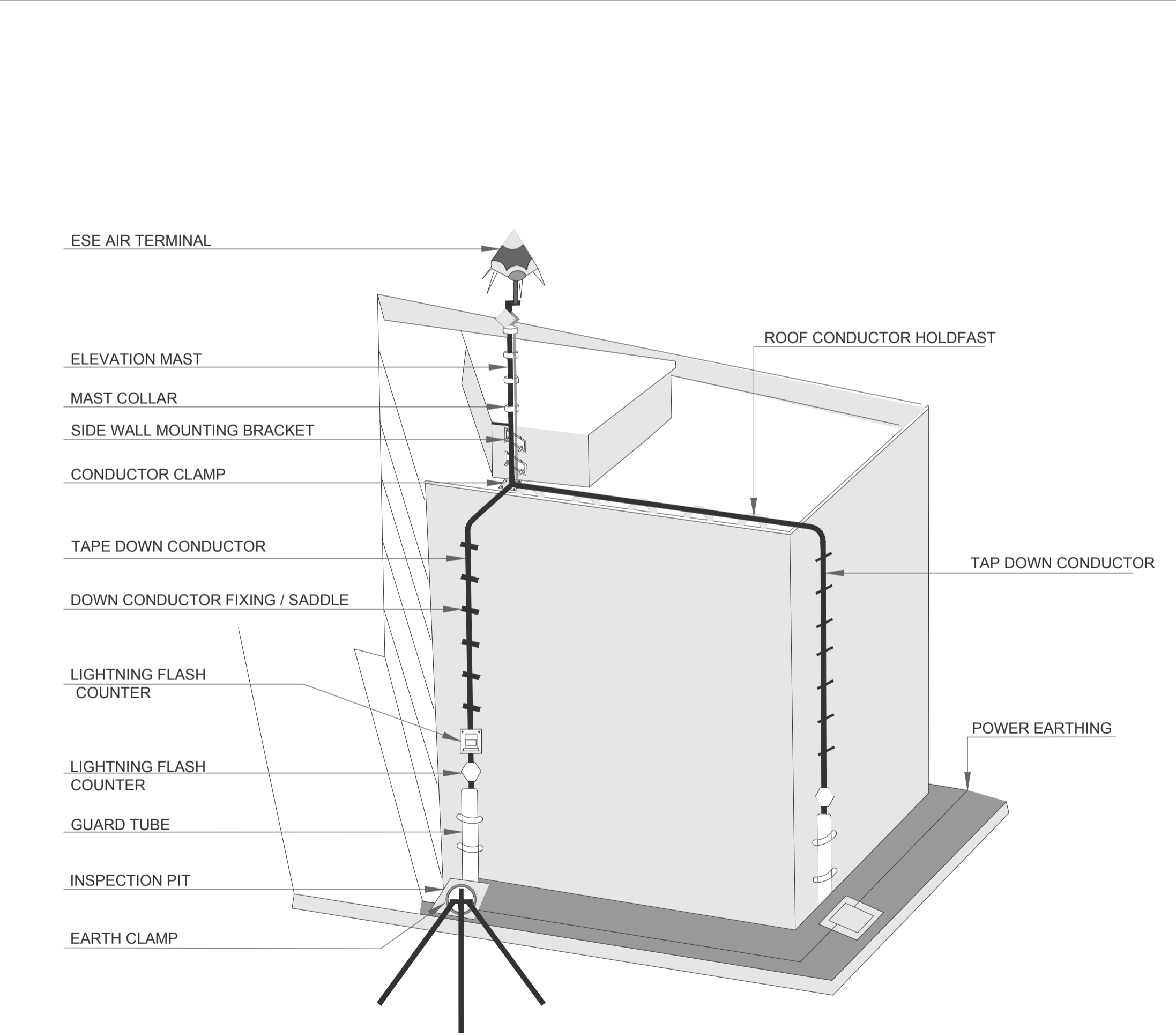
Designed :	Checked :	Approved :
MF	MF	JIS
Date :	Date :	Scale / Sheet :
MA	April 2018	NTS @A1
Project Code :	Rev. :	
	00986	0
Drawing No. :	EA-00986-SMS-E-0003	



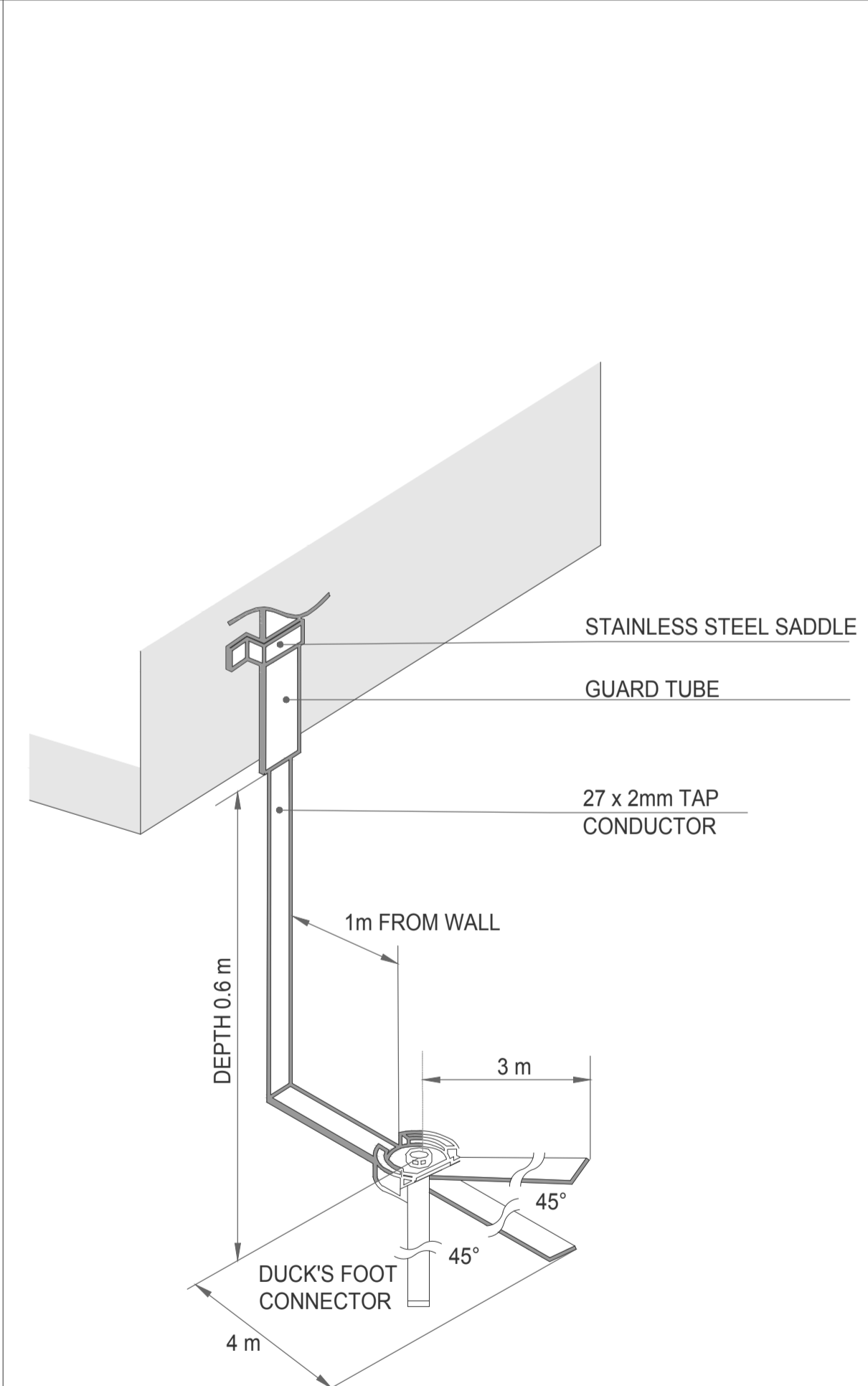
STANDARD MOUNTING HEIGHTS OF ELECTRICAL ACCESSORIES



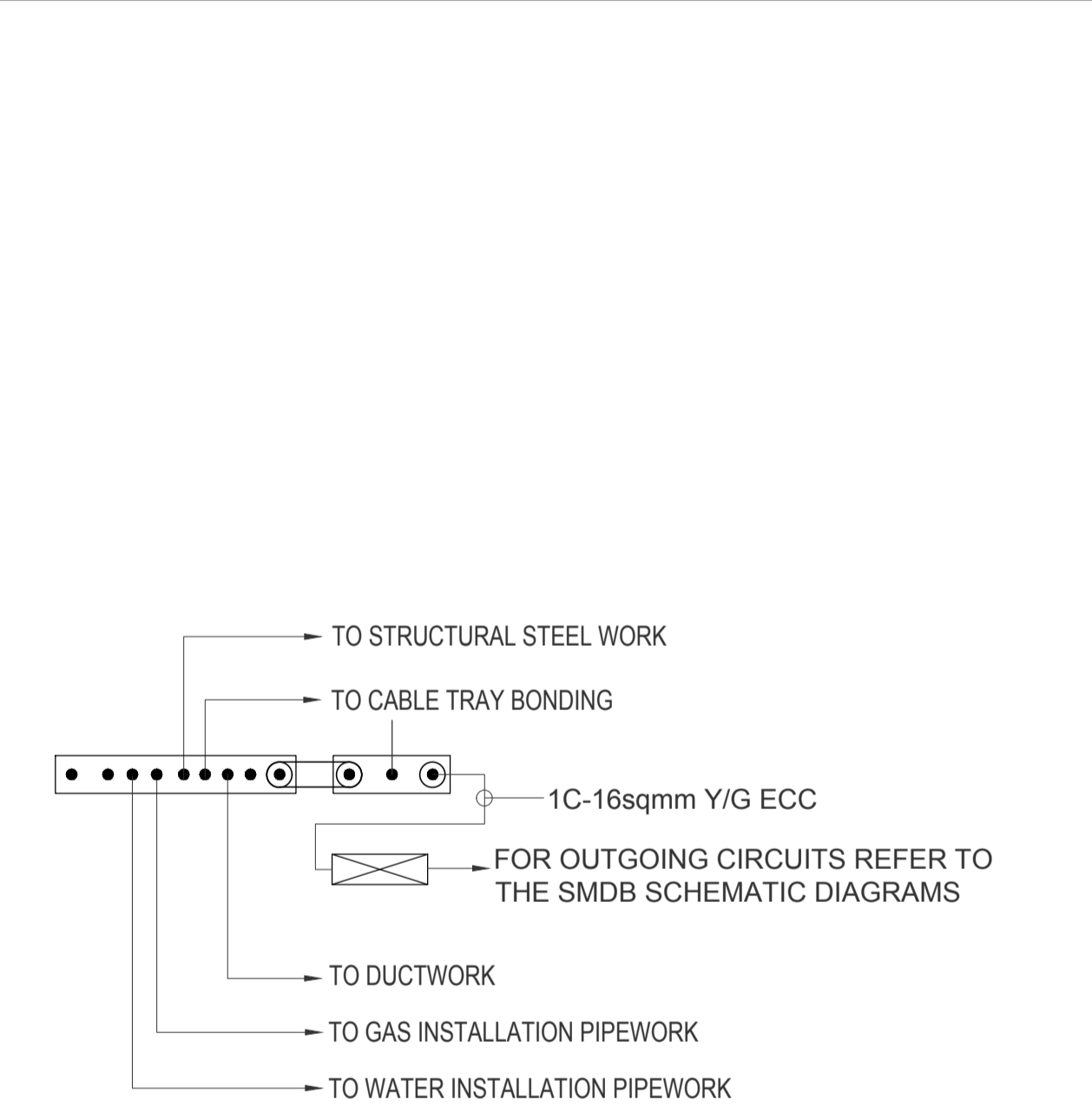
EARTHING PIT



ESE LIGHTNING PROTECTION DETAIL



DETAILS OF EARTH INSPECTION PIT



DETAIL OF TYP. FLOOR ELECTRICAL ROOM EARTH BAR

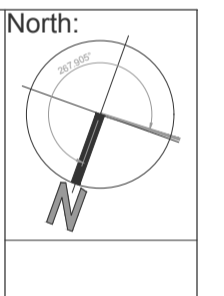


Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. 111-111-5541 Fax No. 584-1825  
 Email : info@eaworld.com www.eaworld.com

Project :  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

- Note:
- All Dimensions to be confirmed on site with architect.
  - Do not scale.
  - Only written dimensions to be followed.
  - Any discrepancies to be clarified with the architect.
  - For structure details refer, structure engineer drawings / details



No.	DATE	DESCRIPTION
0	25, May 2018	ISSUED FOR TENDER
REVISIONS		

Date of Issue	25th May 2018
Issued To	Client
Issued For	Tender

**ELECTRICAL**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title :  
**ELECTRICAL STANDARD DETAIL (SHEET 2 OF 2)**

Designed :	Checked :	Approved :
MF	MF	JIS
Drawn :	Date :	Scale / Sheet :
JA	April 2018	NTS @A1
Project Code :	Rev. :	
00986	0	
Drawing No. : EA-00986-SMS-E-0004		



Client :

Consultant :



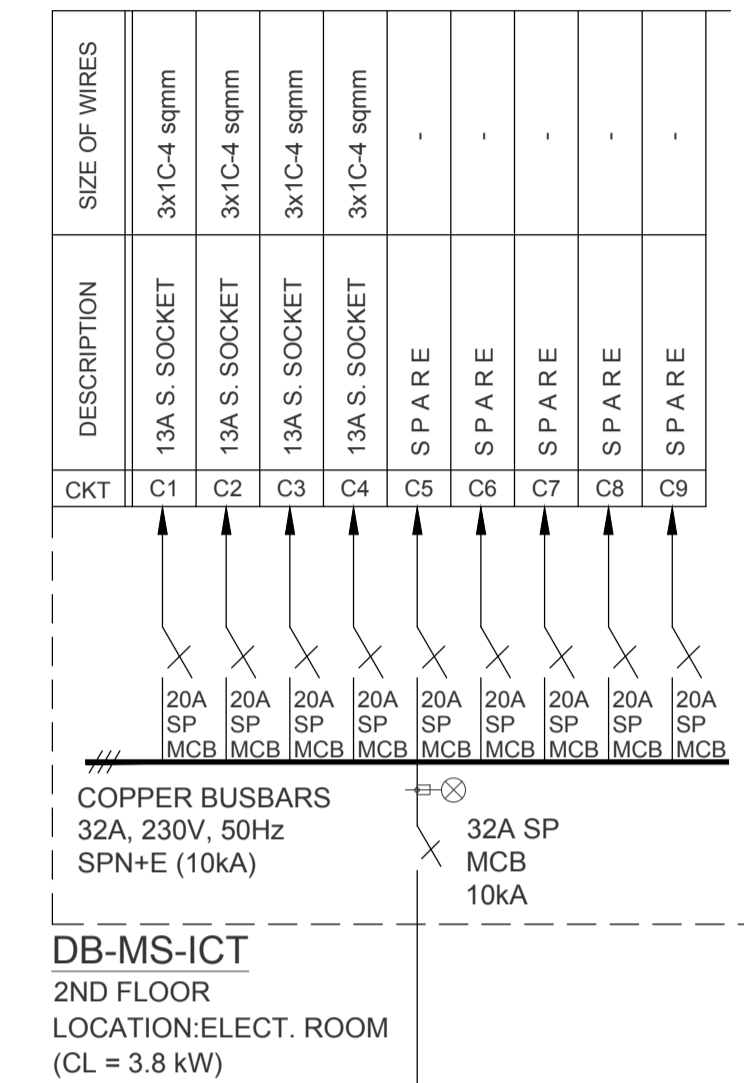
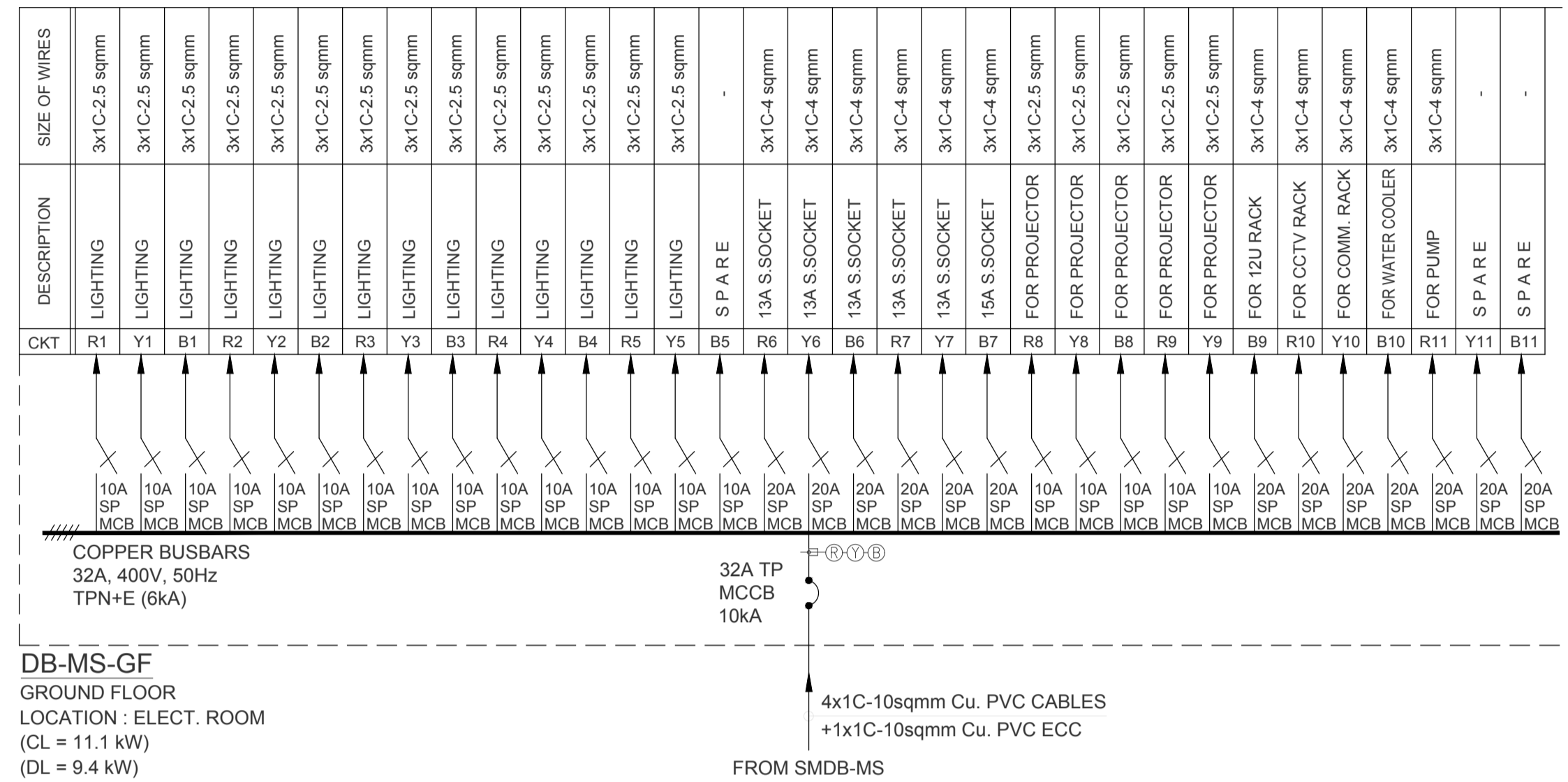
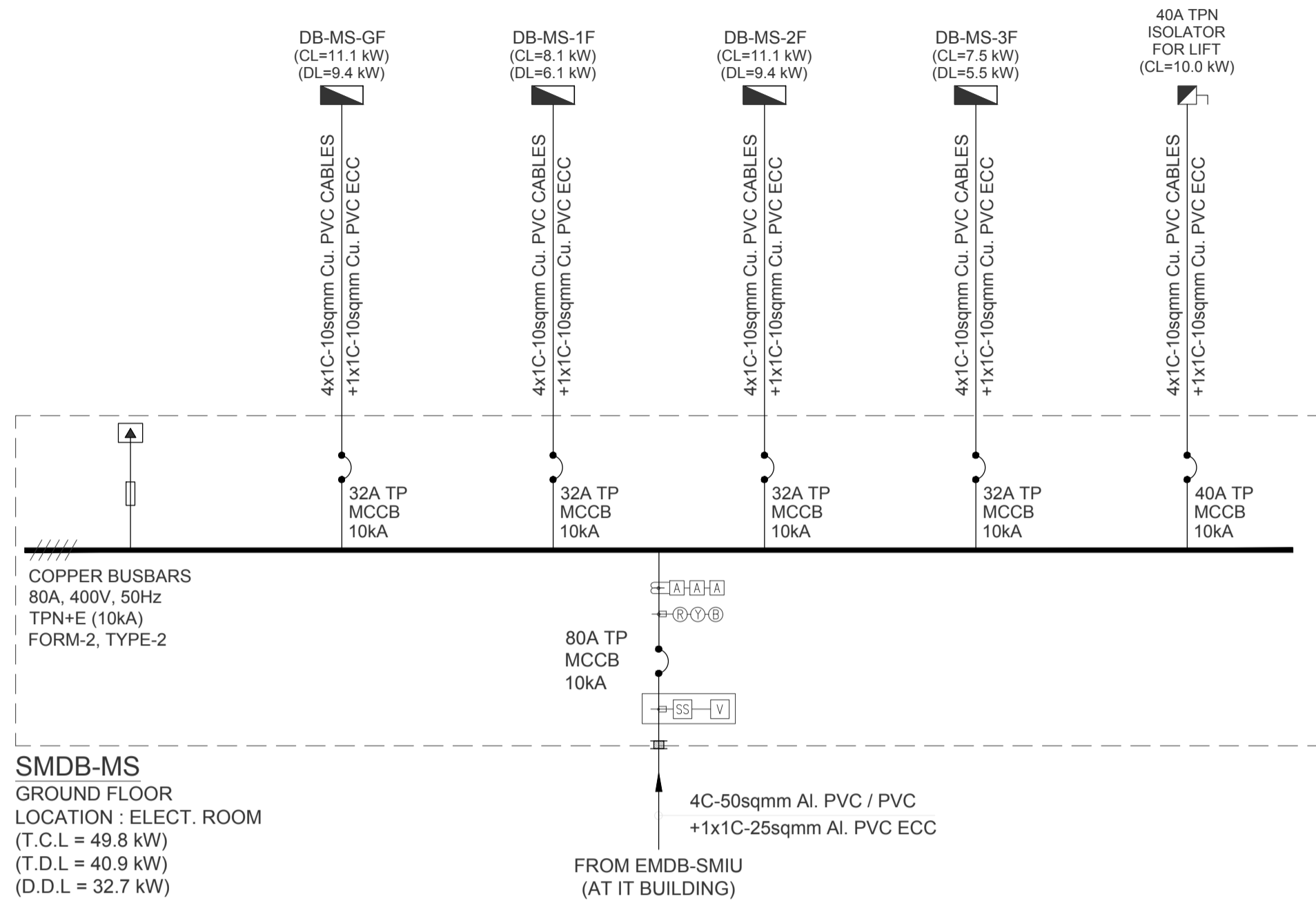
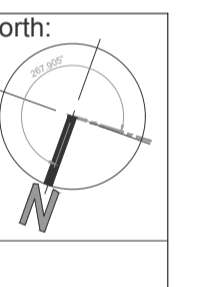
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7,  
 Defence Housing Authority, Karachi, 75600 - Pakistan  
 Phone No. 111-111-584, Fax No. 584-1825  
 Email : info@eaworld.com | www.eaworld.com

Project :

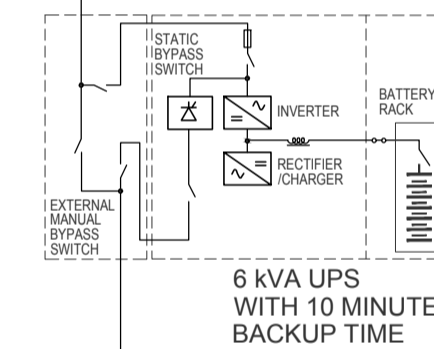
## DEVELOPMENT OF SMIU CAMPUS KARACHI

Key Plan :

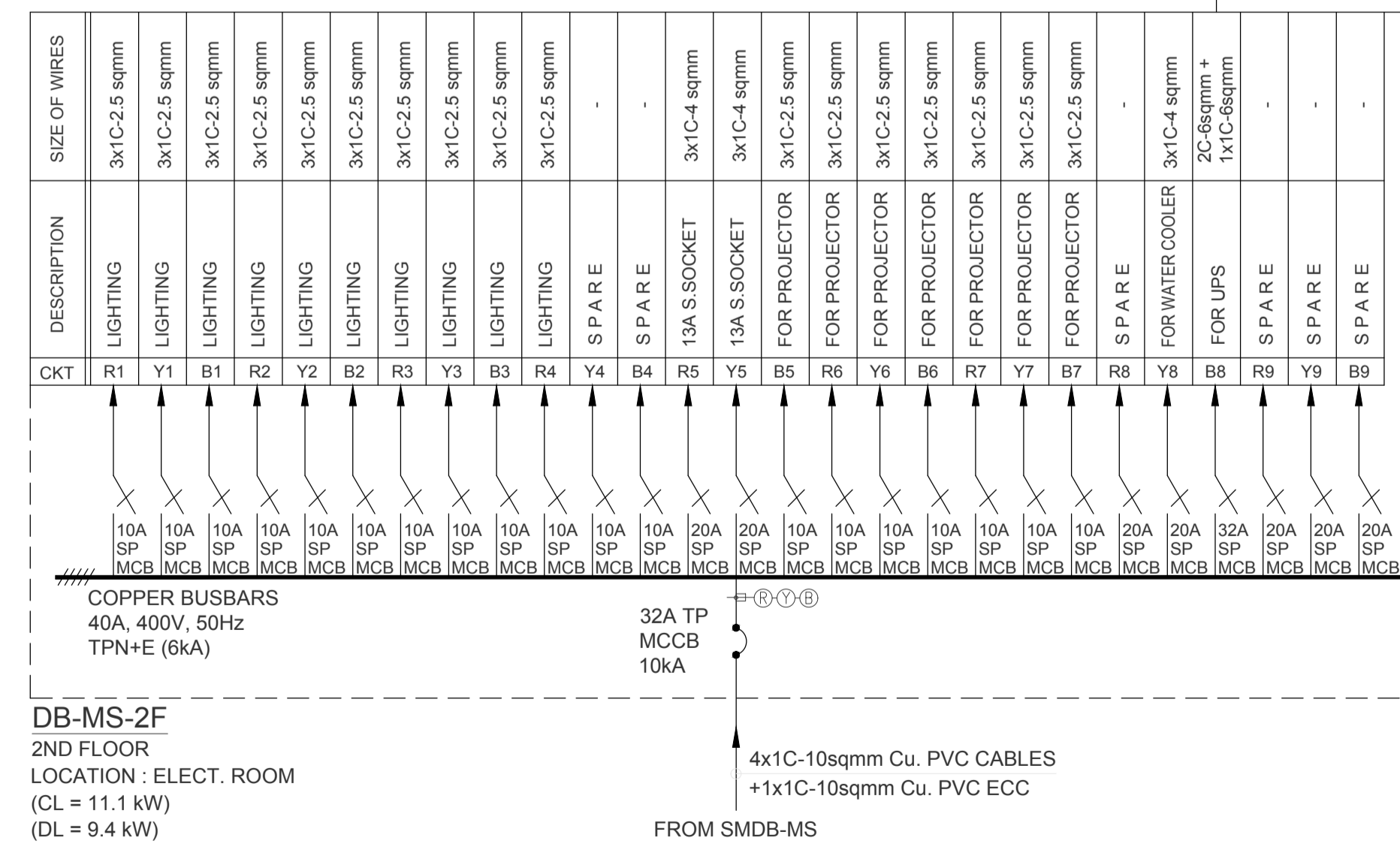
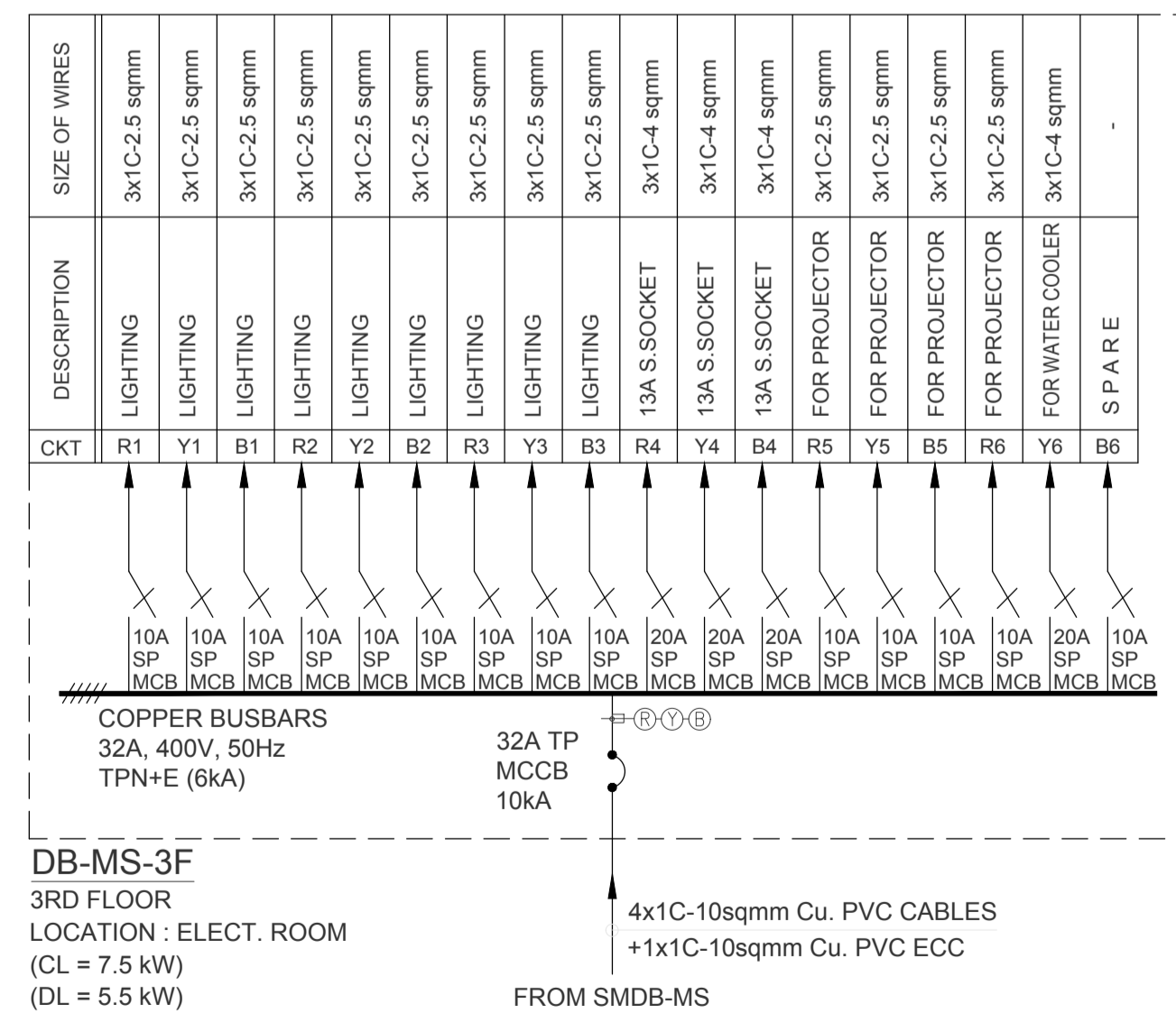
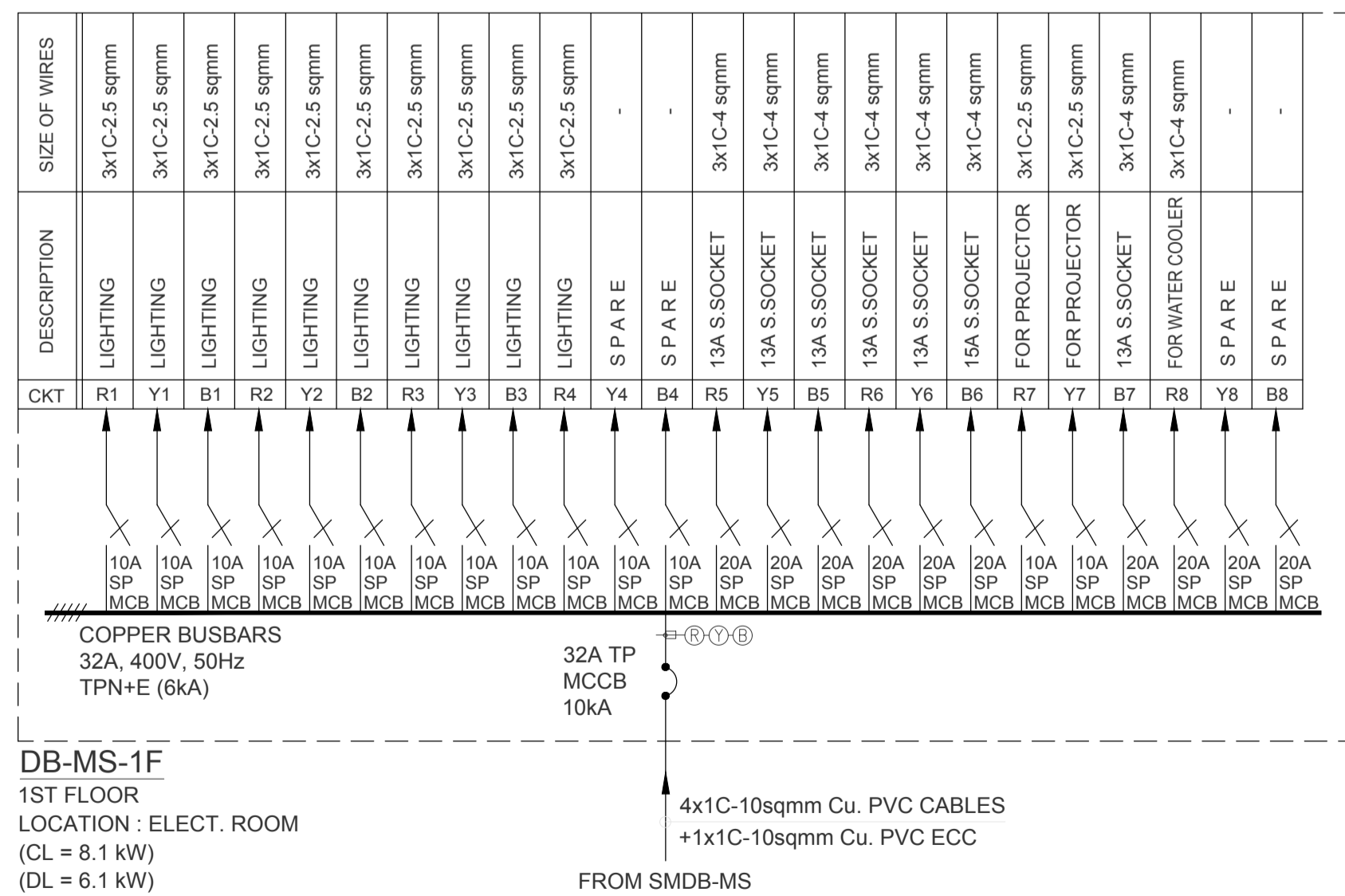
- Note:
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  - Any discrepancies to be clarified with the architect.
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2C-6sqmm Cu. PVC FLEXIBLE CABLE  
+ 1x1C-6sqmm Cu. PVC ECC



2C-6sqmm Cu. PVC FLEXIBLE CABLE  
+ 1x1C-6sqmm Cu. PVC ECC



No.	DATE	DESCRIPTION
0	25, May 2018	ISSUED FOR TENDER

No.	DATE	DESCRIPTION
REVISIONS		

Date of Issue	25th May 2018
Issued To	Client
Issued For	Tender

## ELECTRICAL TENDER

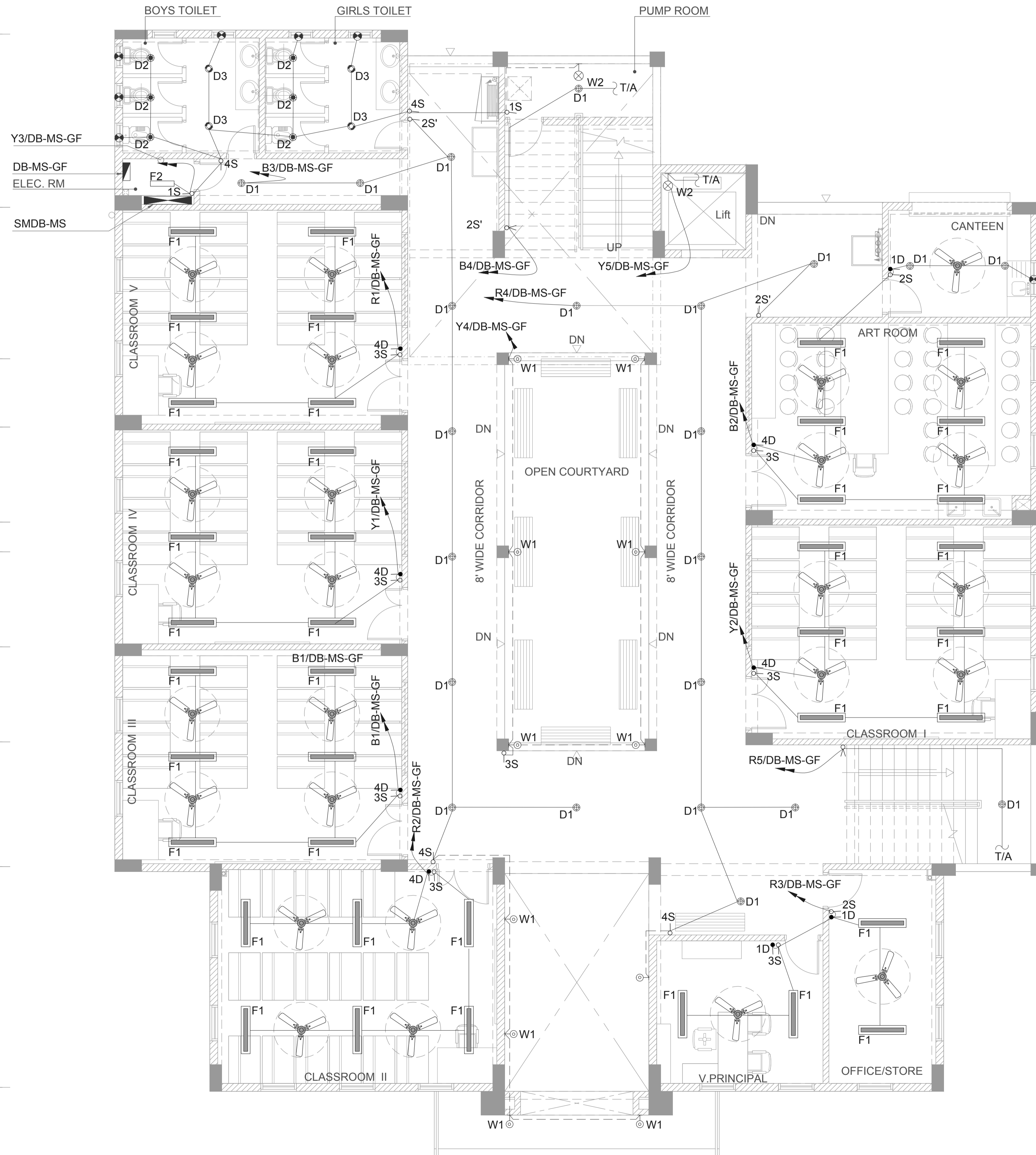
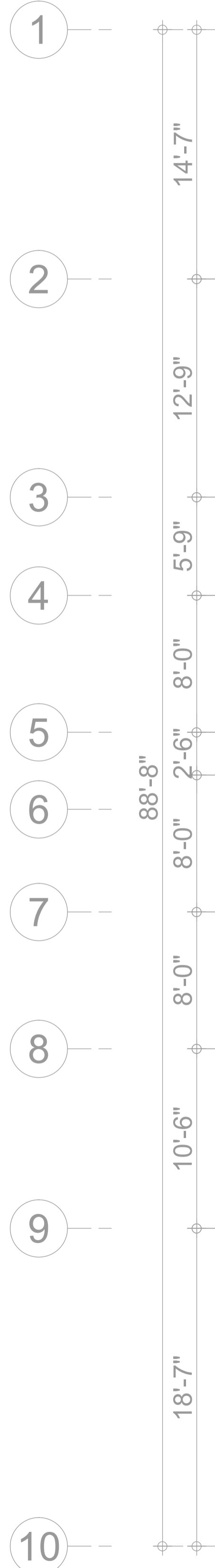
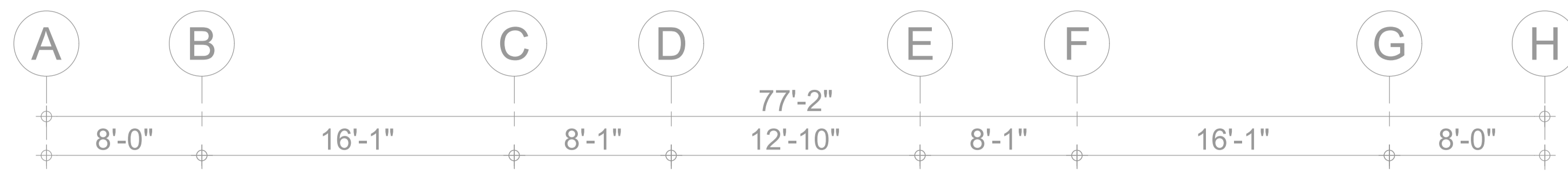
Building Name:  
**MODEL SCHOOL  
CITY CAMPUS**

### Drawing Title :

## ELECTRICAL DISTRIBUTION SCHEMATIC DIAGRAM

Designed :	Checked :	Approved :
MF	MF	JIS
Drawn :	Date :	Scale / Sheet :
ZA	April 2018	NTS @A1
Project Code :	00986	Rev. : 0
Drawing No. :	EA-00986-SMS-E-0005	





LEGEND FOR LIGHTING					
S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTING
1	⊙D1	DOWNLIGHT FIXTURE (IP-20)	20W LED	1600 Lm	CEILING SURFACE
2	⊙D2	DOWNLIGHT FIXTURE (IP-44)	7W LED	650 Lm	CEILING RECESSED
3	⊙D3	DOWNLIGHT FIXTURE (IP-44)	10W LED	1000 Lm	CEILING RECESSED
4	F1	4' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	3700 Lm	CEILING SURFACE
5	F2	2' LONG BATTEN LIGHT FIXTURE (IP-20)	20W LED	1900 Lm	CEILING SURFACE
6	⊙W1	WALL LIGHT FIXTURE (IP-54)	2x5W LED		WALL
7	⊙W2	BULKHEAD LIGHT FIXTURE (IP-54)	10W LED	800 Lm	WALL
8	⊙	CEILING FAN 56"			CEILING SURFACE
9	⊙	WALL BRACKET FAN 12"			WALL
10	⊙	EXHAUST FAN 6" / 8"			WALL
11	NS	LIGHTING CONTROL SWITCH (N GANG)			WALL
12	ND	FAN DIMMER (N GANG)			WALL
13	⊙	TWO WAY LIGHTING CONTROL SWITCH			WALL

NOTES:- 1. ALL FINISHES OF LIGHT FIXTURES AND COLOUR TEMPERATURE OF LAMPS SHALL BE SUBJECT TO ARCHITECT'S APPROVAL.

Client :



Consultant :



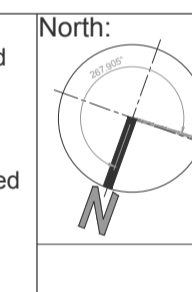
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7,  
 Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. : 111-111-5541 Fax No. : 584-1825  
 Email : info@eaworld.com www.eaworld.com

Project :

**DEVELOPMENT OF  
SMIU CAMPUS  
KARACHI**

Key Plan :

- Note:
- All Dimensions to be confirmed on site with architect.
  - Do not scale.
  - Only written dimensions to be followed.
  - Any discrepancies to be clarified with the architect.
  - For structure details refer, structure engineer drawings / details



No.	DATE	DESCRIPTION
0	25, May 2018	ISSUED FOR TENDER

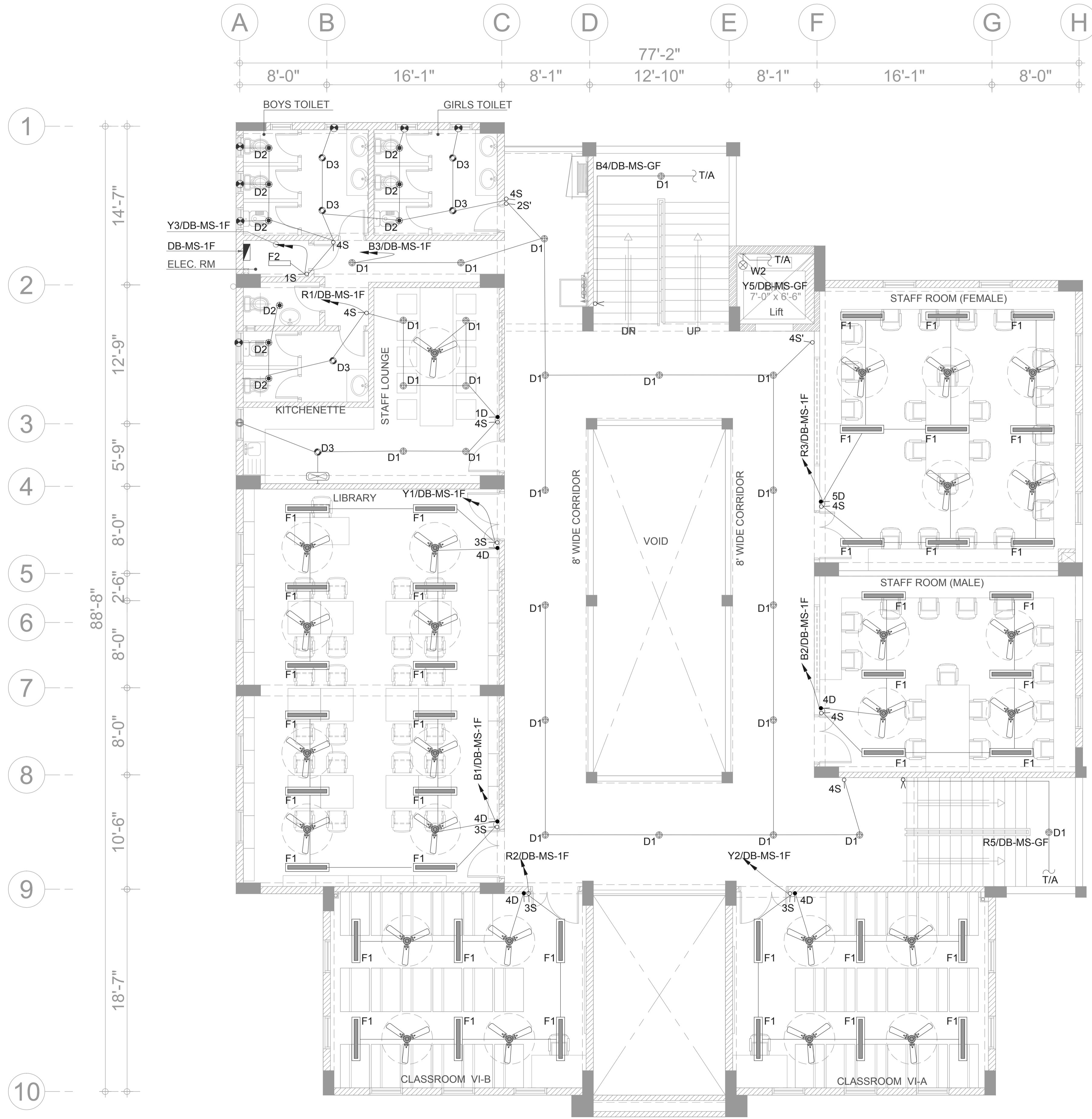
**ELECTRICAL**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title:  
**GROUND FLOOR PLAN  
LIGHTING LAYOUT**

Designed :	Checked :	Approved :
MF	MF	JIS
Drawn :	Date :	Scale / Sheet :
MA	April 2018	3/32"=1'-0" @ A3
Project Code :	00986	Rev. :
		0
Drawing No. :	EA-00986-SMS-EL-0100	



LEGEND FOR LIGHTING					
S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTING
1	D1	DOWNLIGHT FIXTURE (IP-20)	20W LED	1600 Lm	CEILING SURFACE
2	D2	DOWNLIGHT FIXTURE (IP-44)	7W LED	650 Lm	CEILING RECESSED
3	D3	DOWNLIGHT FIXTURE (IP-44)	10W LED	1000 Lm	CEILING RECESSED
4	F1	4' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	3700 Lm	CEILING SURFACE
5	F2	2' LONG BATTEN LIGHT FIXTURE (IP-20)	20W LED	1900 Lm	CEILING SURFACE
6	W1	WALL LIGHT FIXTURE (IP-54)	2x5W LED		WALL
7	W2	BULKHEAD LIGHT FIXTURE (IP-54)	10W LED	800 Lm	WALL
8		CEILING FAN 56"			CEILING SURFACE
9		WALL BRACKET FAN 12"			WALL
10		EXHAUST FAN 6" / 8"			WALL
11	NS	LIGHTING CONTROL SWITCH (N GANG)			WALL
12	ND	FAN DIMMER (N GANG)			WALL
13		TWO WAY LIGHTING CONTROL SWITCH			WALL

NOTES:- 1. ALL FINISHES OF LIGHT FIXTURES AND COLOUR TEMPERATURE OF LAMPS SHALL BE SUBJECT TO ARCHITECTS APPROVAL.



Client :

Consultant :

**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. : 111-111-5541 Fax No. : 584-1825  
 Email : info@eaworld.com www.eaworld.com

Project :

**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

Note:  
 • All Dimensions to be confirmed on site with architect.  
 • Do not scale.  
 • Only written dimensions to be followed.  
 • Any discrepancies to be clarified with the architect.  
 • For structure details refer, structure engineer drawings / details

North:

No.	DATE	DESCRIPTION
0	25, May 2018	ISSUED FOR TENDER

REVISIONS

Date of Issue	25th May 2018
Issued To	Client
Issued For	Tender

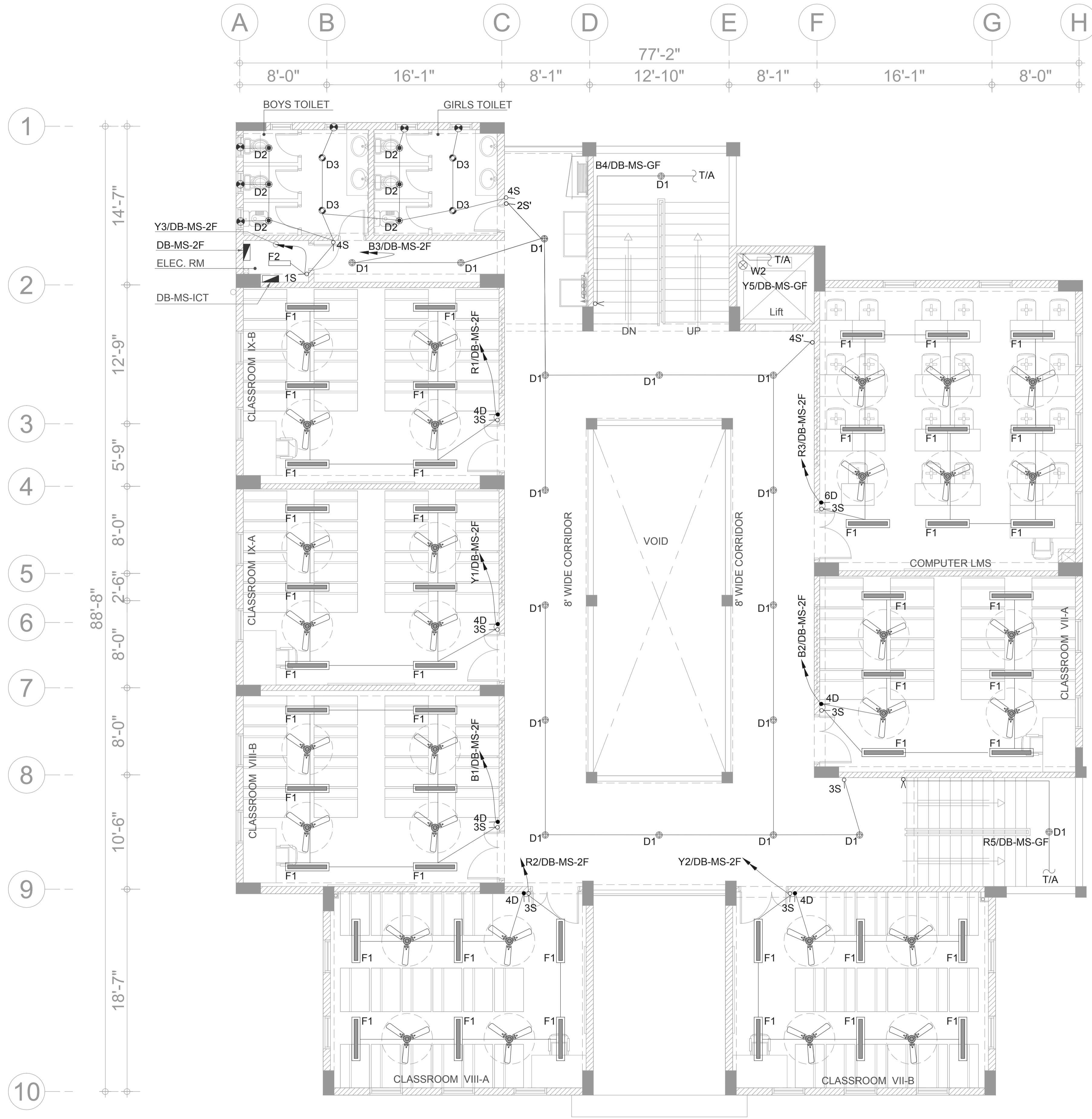
**ELECTRICAL**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

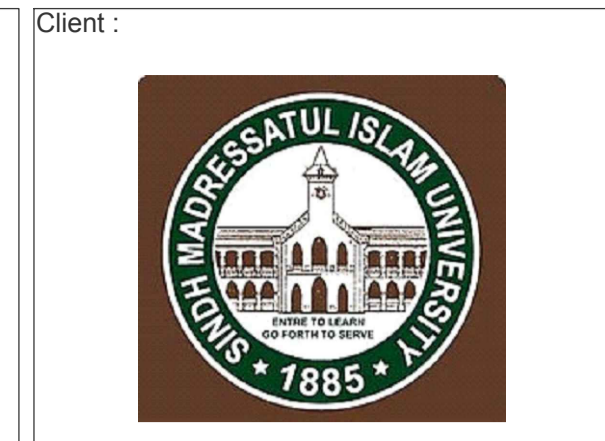
Drawing Title:  
**FIRST FLOOR PLAN LIGHTING LAYOUT**

Designed :	Checked :	Approved :
Drawn :	Date :	Scale / Sheet :
Project Code :	00986	Rev. : 0
Drawing No. :	EA-00986-SMS-EL-0200	



LEGEND FOR LIGHTING					
S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTING
1	D1	DOWNLIGHT FIXTURE (IP-20)	20W LED	1600 Lm	CEILING SURFACE
2	D2	DOWNLIGHT FIXTURE (IP-44)	7W LED	650 Lm	CEILING RECESSED
3	D3	DOWNLIGHT FIXTURE (IP-44)	10W LED	1000 Lm	CEILING RECESSED
4	F1	4' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	3700 Lm	CEILING SURFACE
5	F2	2' LONG BATTEN LIGHT FIXTURE (IP-20)	20W LED	1900 Lm	CEILING SURFACE
6	W1	WALL LIGHT FIXTURE (IP-54)	2x5W LED		WALL
7	W2	BULKHEAD LIGHT FIXTURE (IP-54)	10W LED	800 Lm	WALL
8		CEILING FAN 56"			CEILING SURFACE
9		WALL BRACKET FAN 12"			WALL
10		EXHAUST FAN 6" / 8"			WALL
11	NS	LIGHTING CONTROL SWITCH (N GANG)			WALL
12	ND	FAN DIMMER (N GANG)			WALL
13		TWO WAY LIGHTING CONTROL SWITCH			WALL

NOTES:- 1. ALL FINISHES OF LIGHT FIXTURES AND COLOUR TEMPERATURE OF LAMPS SHALL BE SUBJECT TO ARCHITECTS APPROVAL .

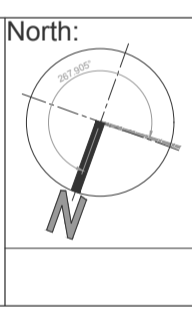


Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. : 111-111-5541 Fax No. : 584-1825  
 Email : info@eaworld.com www.eaworld.com

Project :  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

Note:  
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 • Do not scale.  
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 • Any discrepancies to be clarified with the architect.  
 • For structure details refer, structure engineer drawings / details



No.	DATE	DESCRIPTION
0	25, May 2018	ISSUED FOR TENDER

Date of Issue	Issued To	Issued For
25th May 2018	Client	Tender

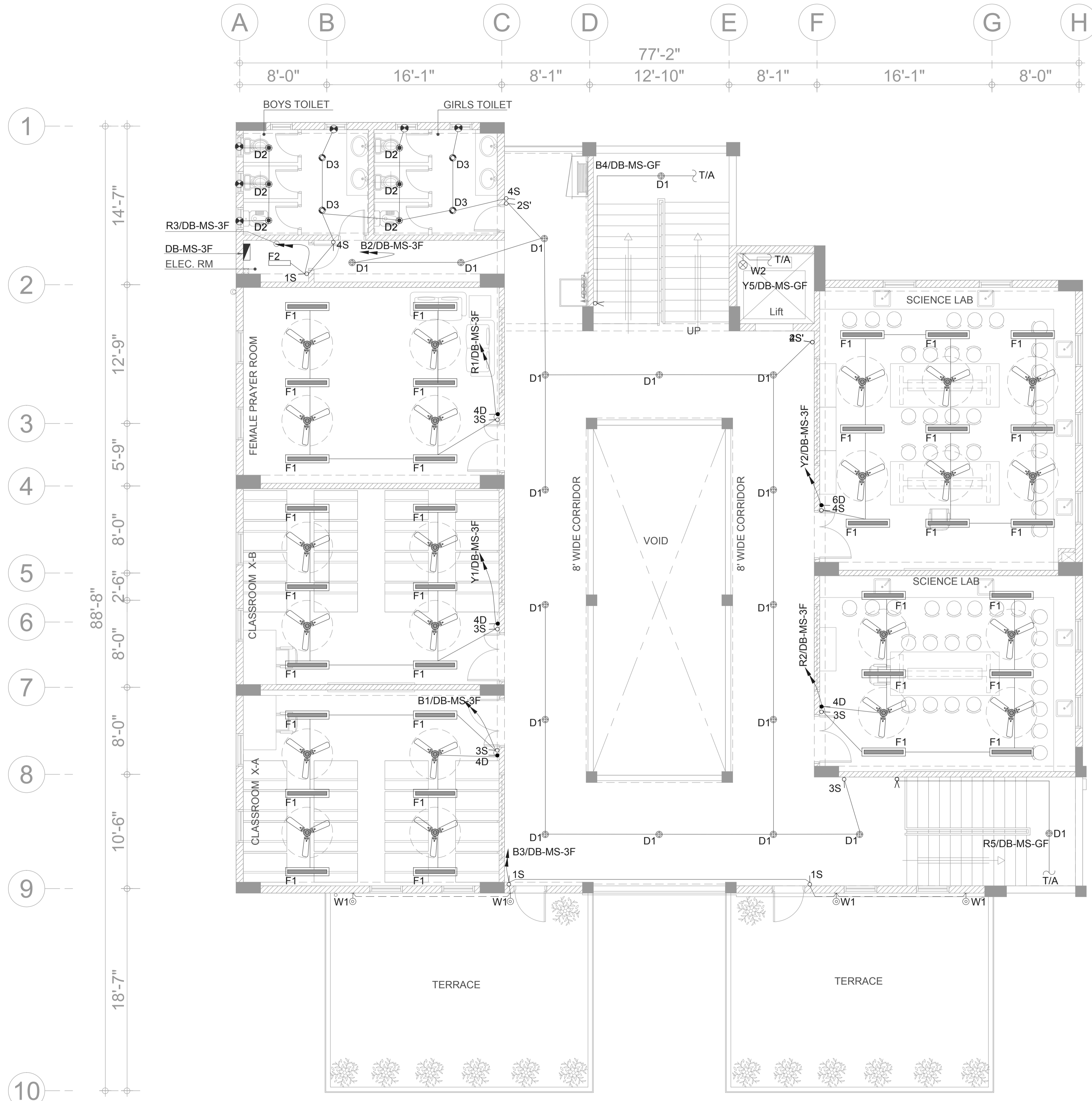
**ELECTRICAL**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title:  
**SECOND FLOOR PLAN LIGHTING LAYOUT**

Designed : MF	Checked : MF	Approved : JIS
Drawn : MA	Date : April 2018	Scale / Sheet : 3/32"=1'-0" @ A3
Project Code : 00986	Rev. : 0	
Drawing No. : EA-00986-SMS-EL-0300		



LEGEND FOR LIGHTING					
S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTING
1	D1	DOWNLIGHT FIXTURE (IP-20)	20W LED	1600 Lm	CEILING SURFACE
2	D2	DOWNLIGHT FIXTURE (IP-44)	7W LED	650 Lm	CEILING RECESSED
3	D3	DOWNLIGHT FIXTURE (IP-44)	10W LED	1000 Lm	CEILING RECESSED
4	F1	4' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	3700 Lm	CEILING SURFACE
5	F2	2' LONG BATTEN LIGHT FIXTURE (IP-20)	20W LED	1900 Lm	CEILING SURFACE
6	W1	WALL LIGHT FIXTURE (IP-54)	2x5W LED		WALL
7	W2	BULKHEAD LIGHT FIXTURE (IP-54)	10W LED	800 Lm	WALL
8		CEILING FAN 56"			CEILING SURFACE
9		WALL BRACKET FAN 12"			WALL
10		EXHAUST FAN 6" / 8"			WALL
11	NS	LIGHTING CONTROL SWITCH (N GANG)			WALL
12	ND	FAN DIMMER (N GANG)			WALL
13		TWO WAY LIGHTING CONTROL SWITCH			WALL

NOTES:- 1. ALL FINISHES OF LIGHT FIXTURES AND COLOUR TEMPERATURE OF LAMPS SHALL BE SUBJECT TO ARCHITECTS APPROVAL.

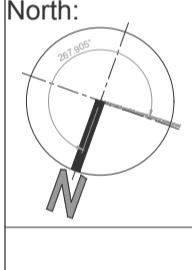


Client :  
 Consultant :  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7, Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. : 111-111-5541 Fax No. : 584-1825  
 Email : info@eaworld.com www.eaworld.com

Project :  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

Note:  
 • All Dimensions to be confirmed on site with architect.  
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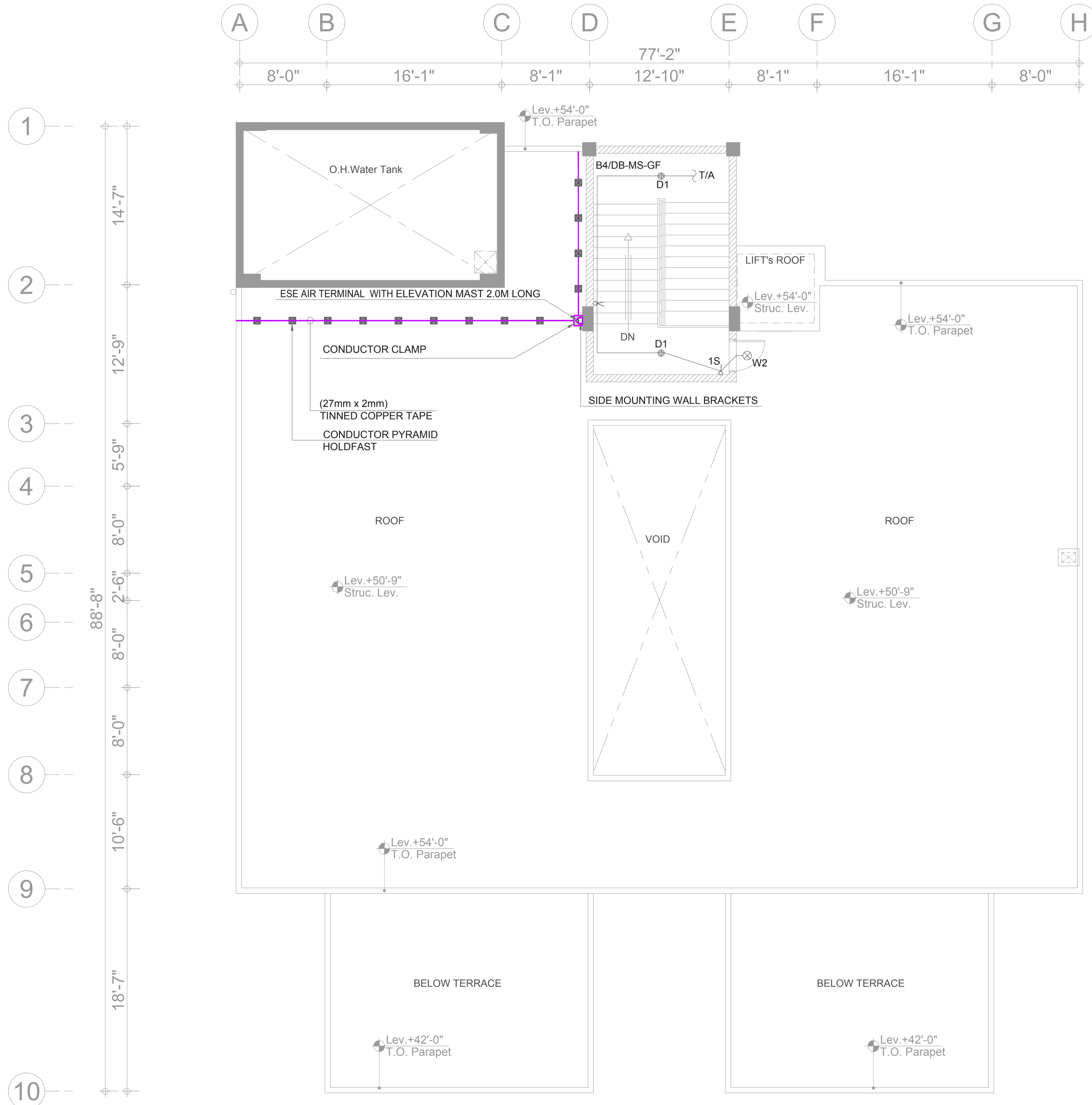


No.	DATE	DESCRIPTION
0	25, May 2018	ISSUED FOR TENDER

Date of Issue: 25th May 2018  
 Issued To: Client  
 Issued For: Tender

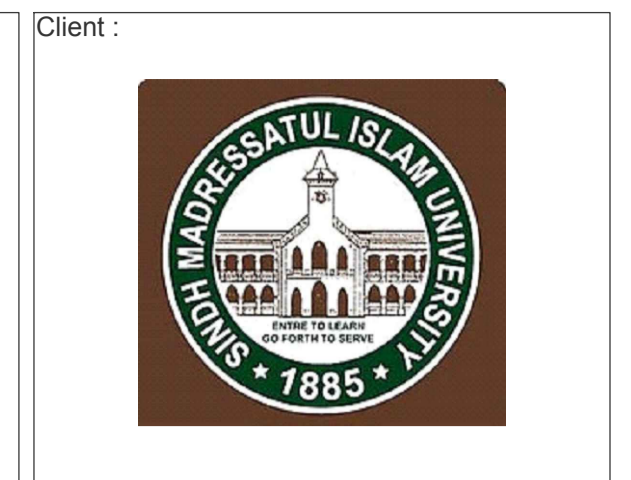
**ELECTRICAL**  
 Status: **TENDER**  
 Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title :  
**THIRD FLOOR PLAN LIGHTING LAYOUT**  
 Designed : MF  
 Checked : MF  
 Approved : JIS  
 Drawn : MA  
 Date : April 2018  
 Scale / Sheet : 3/32"=1'-0" @ A3  
 Project Code : 00986  
 Rev. : 0  
 Drawing No. : EA-00986-SMS-EL-0400



LEGEND FOR LIGHTING					
S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTING
1	D1	DOWNLIGHT FIXTURE (IP-20)	20W LED	1600 Lm	CEILING SURFACE
2	D2	DOWNLIGHT FIXTURE (IP-44)	7W LED	650 Lm	CEILING RECESSED
3	D3	DOWNLIGHT FIXTURE (IP-44)	10W LED	1000 Lm	CEILING RECESSED
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5	F2	2' LONG BATTEN LIGHT FIXTURE (IP-20)	20W LED	1900 Lm	CEILING SURFACE
6	W1	WALL LIGHT FIXTURE (IP-54)	2x5W LED		WALL
7	W2	BULKHEAD LIGHT FIXTURE (IP-54)	10W LED	800 Lm	WALL
8		CEILING FAN 56"	-		CEILING SURFACE
9		WALL BRACKET FAN 12"			WALL
10		EXHAUST FAN 6" / 8"			WALL
11	NS	LIGHTING CONTROL SWITCH (N GANG)			WALL
12	ND	FAN DIMMER (N GANG)			WALL
13		TWO WAY LIGHTING CONTROL SWITCH			WALL

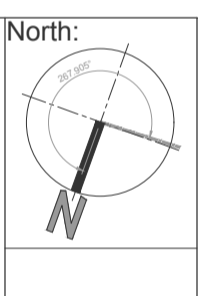
NOTES:- 1. ALL FINISHES OF LIGHT FIXTURES AND COLOUR TEMPERATURE OF LAMPS SHALL BE SUBJECT TO ARCHITECTS APPROVAL .



**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

Note:  
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 • Do not scale.  
 • Only written dimensions to be followed.  
 • Any discrepancies to be clarified with the architect.  
 • For structure details refer structure engineer drawings / details



No.	DATE	DESCRIPTION
0	25, May 2018	ISSUED FOR TENDER

Date of Issue	Issued To	Issued For
25th May 2018	Client	Tender

**ELECTRICAL**

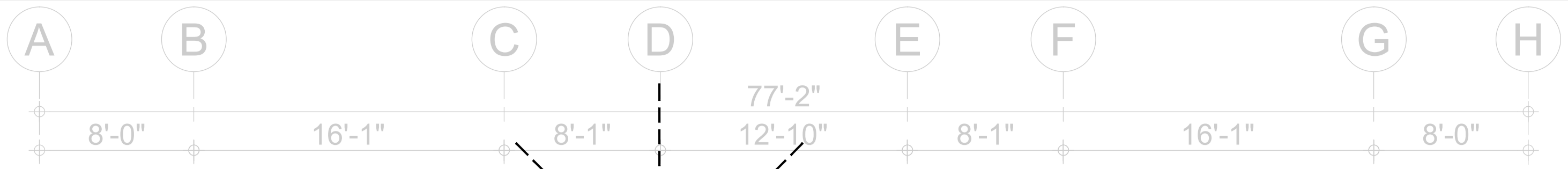
Status: **TENDER**

Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title: **ROOF PLAN LIGHTING & LIGHTNING PROTECTION SYSTEMS LAYOUT**

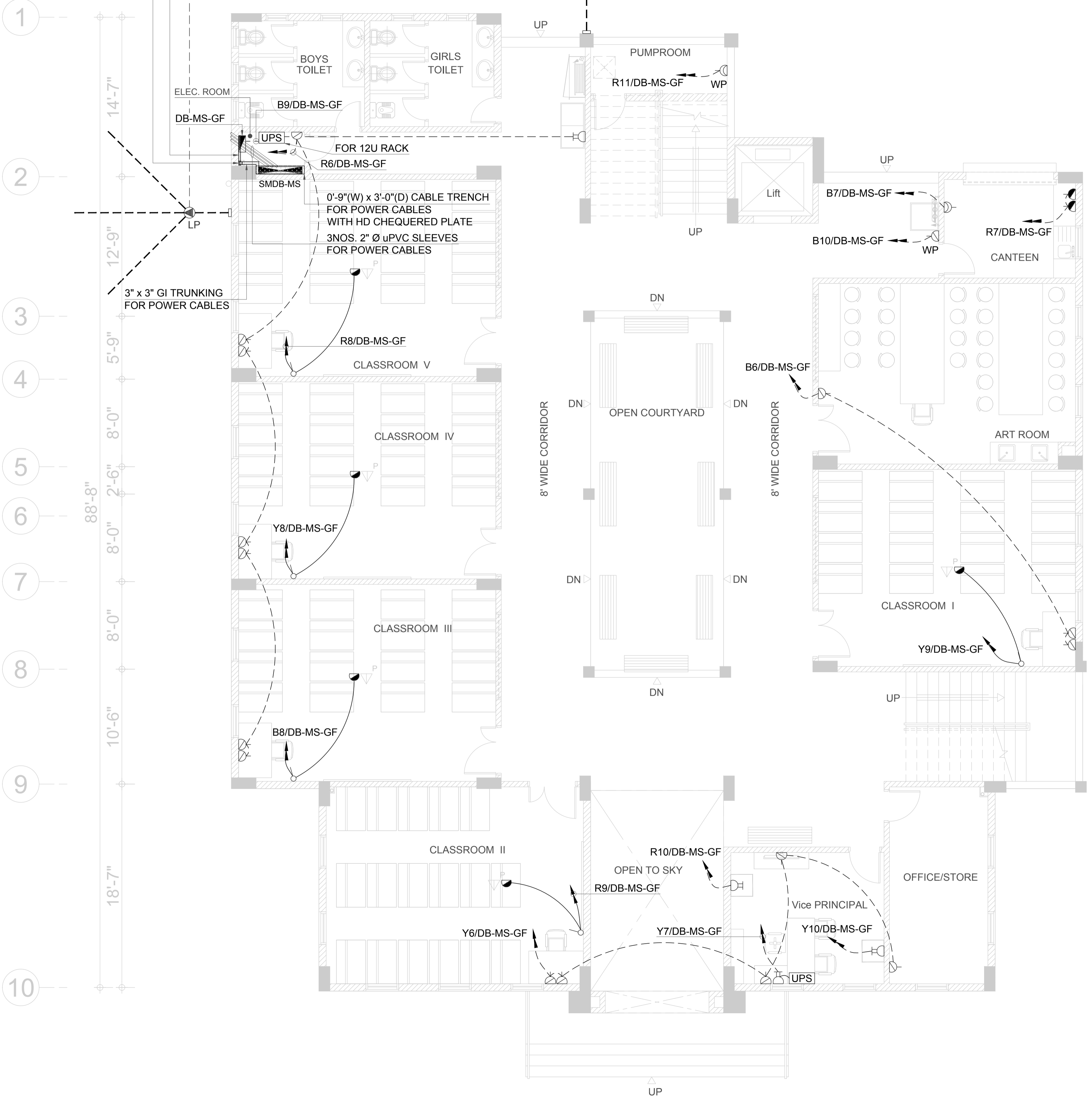
Designed :	Checked :	Approved :
MF	MF	JIS
Drawn :	Date :	Scale / Sheet :
MA	April 2018	3/32"-1'-0" @ A3
Project Code :	Rev. :	
00986	0	

Drawing No. : **EA-00986-SMS-EL-0500**



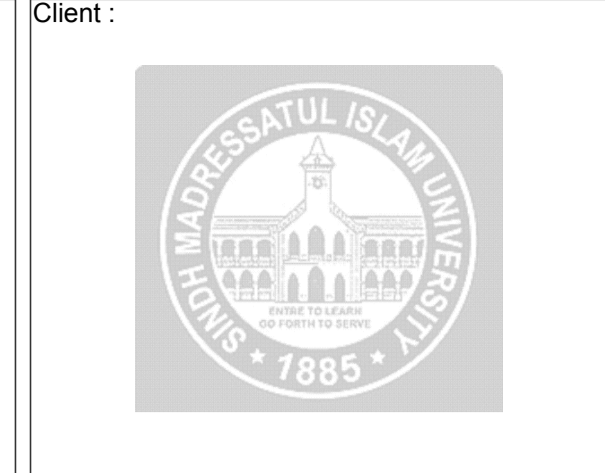
2" x 2" GI TRUNKING FOR POWER CABLES  
3" x 3" GI TRUNKING RISER FOR POWER CABLES

1x1C 16sqmm Y/G ECC IN 1" Ø uPVC DUCT



LEGEND FOR POWER SYSTEM

SYMBOL	DESCRIPTION
	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET
	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ABOVE COUNTER TOP)
	13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET
	13A 3 PIN FLAT 1-GANG UNSWITCHED SOCKET OUTLET
	15A 3 PIN 1-GANG SWITCHED SOCKET OUTLET
	10A 1-GANG SWITCH
	TPN ISOLATOR
	DISTRIBUTION BOARD (DB)
	SUB MAIN DISTRIBUTION BOARD (SMDB)
	MAIN DISTRIBUTION BOARD (MDB)
	230V, 600VA UPS SINGLE IN SINGLE OUT



Client :  
Sindh Madressatul Islam University  
1885

Consultant :  
  
EA Consulting Pvt Ltd  
Head Office AL-9, 15th Lane, Khayaban-e-Hilal Phase 7,  
Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. 111-111-984, Fax No. 584-1625  
Email - info@eaworld.com | www.eaworld.com

Project :  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan :

Note:  
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• Do not scale.  
• Only written dimensions to be followed.  
• Any discrepancies to be clarified with the architect.  
• For structure details refer, structure engineer drawings / details

North:

No.	DATE	DESCRIPTION
0	25. May 2018	ISSUED FOR TENDER

Date of Issue: 25th May 2018  
Issued To: Client  
Issued For: Tender

**ELECTRICAL**

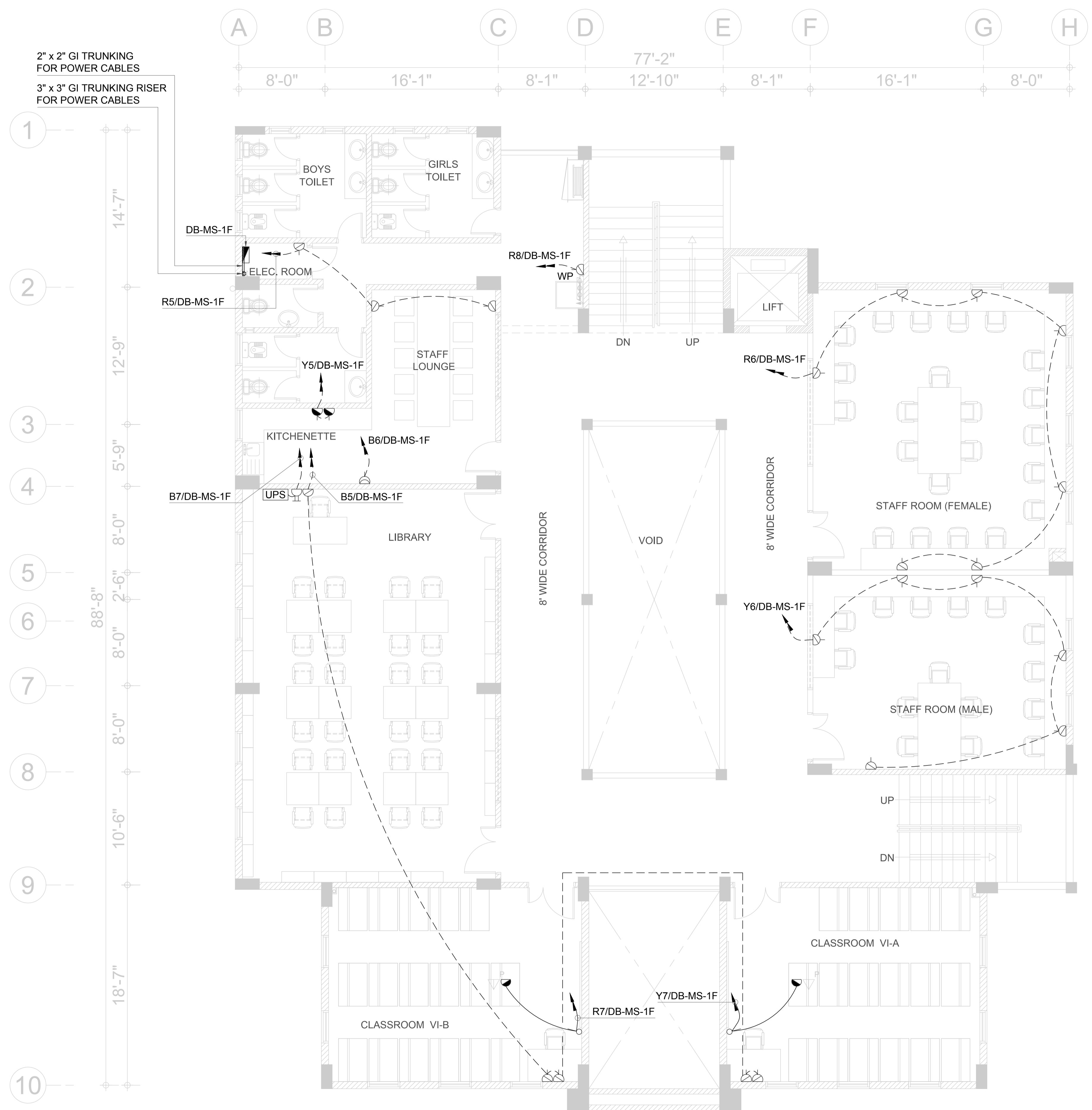
Status: **TENDER**

Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title :  
**GROUND FLOOR PLAN POWER LAYOUT**

Designed : MF      Checked : MF      Approved : JIS  
Date : April 2018      Scale / Sheet : 3/16"=1'-0" @ A3  
Project Code : 00986      Rev. : 0

Drawing No. : EA-00986-SMS-EP-0100



**LEGEND FOR POWER SYSTEM**

SYMBOL	DESCRIPTION
	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET
	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ABOVE COUNTER TOP)
	13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET
	13A 3 PIN FLAT 1-GANG UNSWITCHED SOCKET OUTLET
	15A 3 PIN 1-GANG SWITCHED SOCKET OUTLET
	10A 1-GANG SWITCH
	TPN ISOLATOR
	DISTRIBUTION BOARD (DB)
	SUB MAIN DISTRIBUTION BOARD (SMDB)
	MAIN DISTRIBUTION BOARD (MDB)
	230V, 600VA UPS SINGLE IN SINGLE OUT

Client :



Consultant :



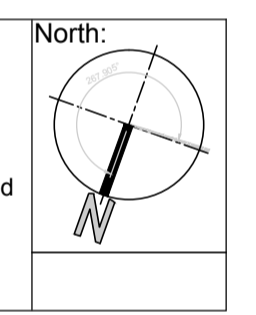
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal Phase 7,  
 Defence Housing Authority, Karachi, 75500 - Pakistan  
 Phone No. 111-111-584, Fax No. 584-1825  
 Email : info@eaworld.com | www.eaworld.com

Project :

**DEVELOPMENT OF  
 SMIU CAMPUS  
 KARACHI**

Key Plan :

**Note:**  
 • All Dimensions to be confirmed on site with architect.  
 • Do not scale.  
 • Only written dimensions to be followed.  
 • Any discrepancies to be clarified with the architect.  
 • For structure details refer structure engineer drawings / details



No.	DATE	DESCRIPTION
0	25, May 2018	ISSUED FOR TENDER

<b>Date of Issue</b>	25th May 2018
<b>Issued To</b>	Client
<b>Issued For</b>	Tender

**ELECTRICAL**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
 CITY CAMPUS**

Drawing Title :  
**FIRST FLOOR PLAN  
 POWER LAYOUT**

Designed :	Checked :	Approved :
MF	MF	JIS
Drawn :	Date :	Scale / Sheet :
ZA	April 2018	3/32"=1'-0" @A3
Project Code :	Rev. :	
00986	0	
Drawing No. : EA-00986-SMS-EP-0200		

Client :



Consultant :



**EA Consulting Pvt Ltd**

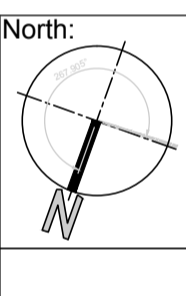
Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7,  
Defence Housing Authority, Karachi, 75500 - Pakistan  
Phone No. : 111-111-584, Fax No. : 584-1825  
Email : info@eaworld.com | www.eaworld.com

Project :

**DEVELOPMENT OF  
SIU CAMPUS  
KARACHI**

Key Plan :

- Note:
- All Dimensions to be confirmed on site with architect.
  - Do not scale.
  - Only written dimensions to be followed.
  - Any discrepancies to be clarified with the architect.
  - For structure details refer structure engineer drawings / details



No.	DATE	DESCRIPTION
0	25, May 2018	ISSUED FOR TENDER
REVISIONS		

Date of Issue	25th May 2018
Issued To	Client
Issued For	Tender

**ELECTRICAL**

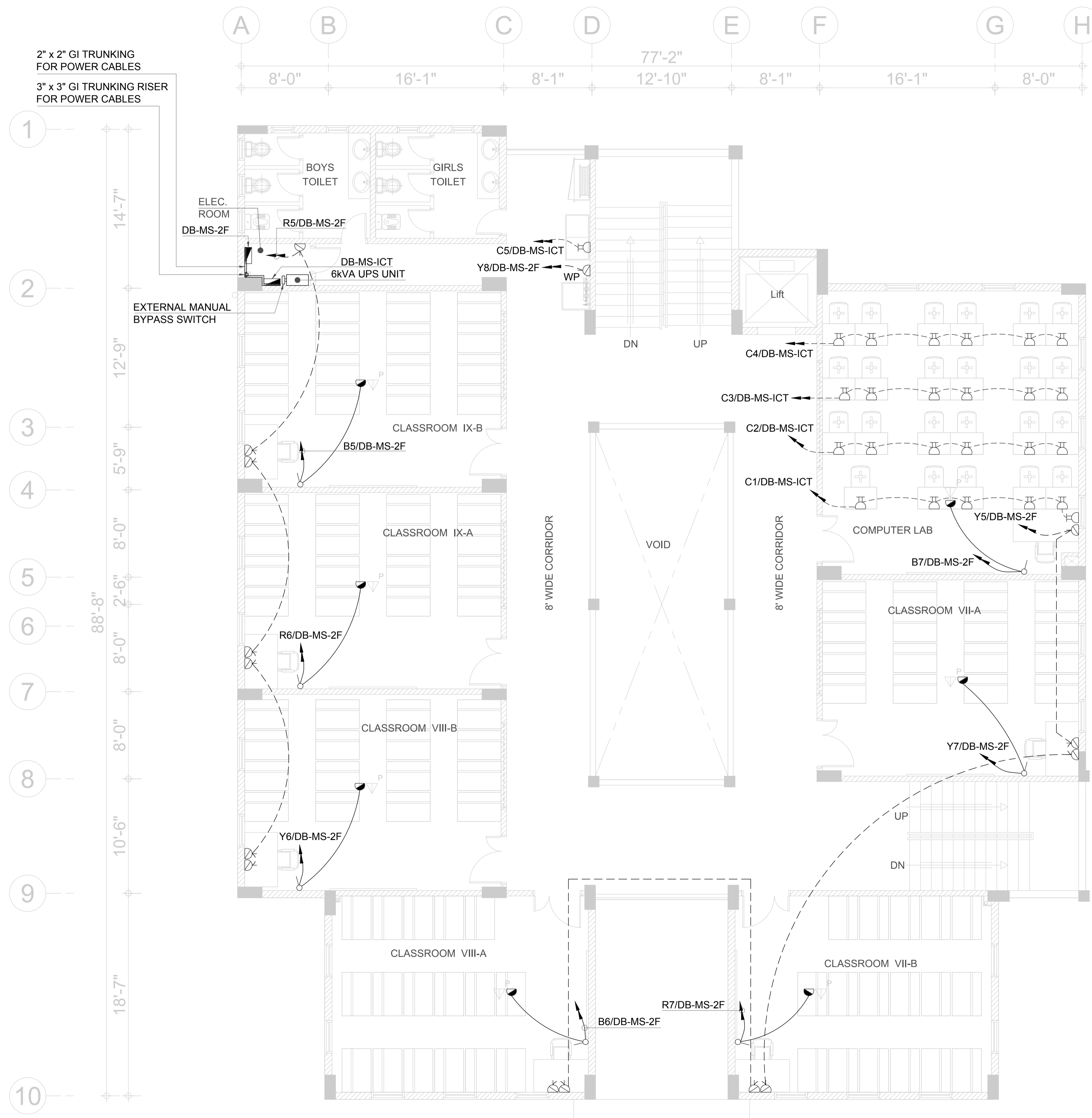
Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title :  
**SECOND FLOOR PLAN  
POWER LAYOUT**

Designed :	Checked :	Approved :
MF	MF	JIS
Drawn :	Date :	Scale / Sheet :
ZA	April 2018	3/32"=1'-0" @A3
Project Code :	Rev. :	
	00986	0

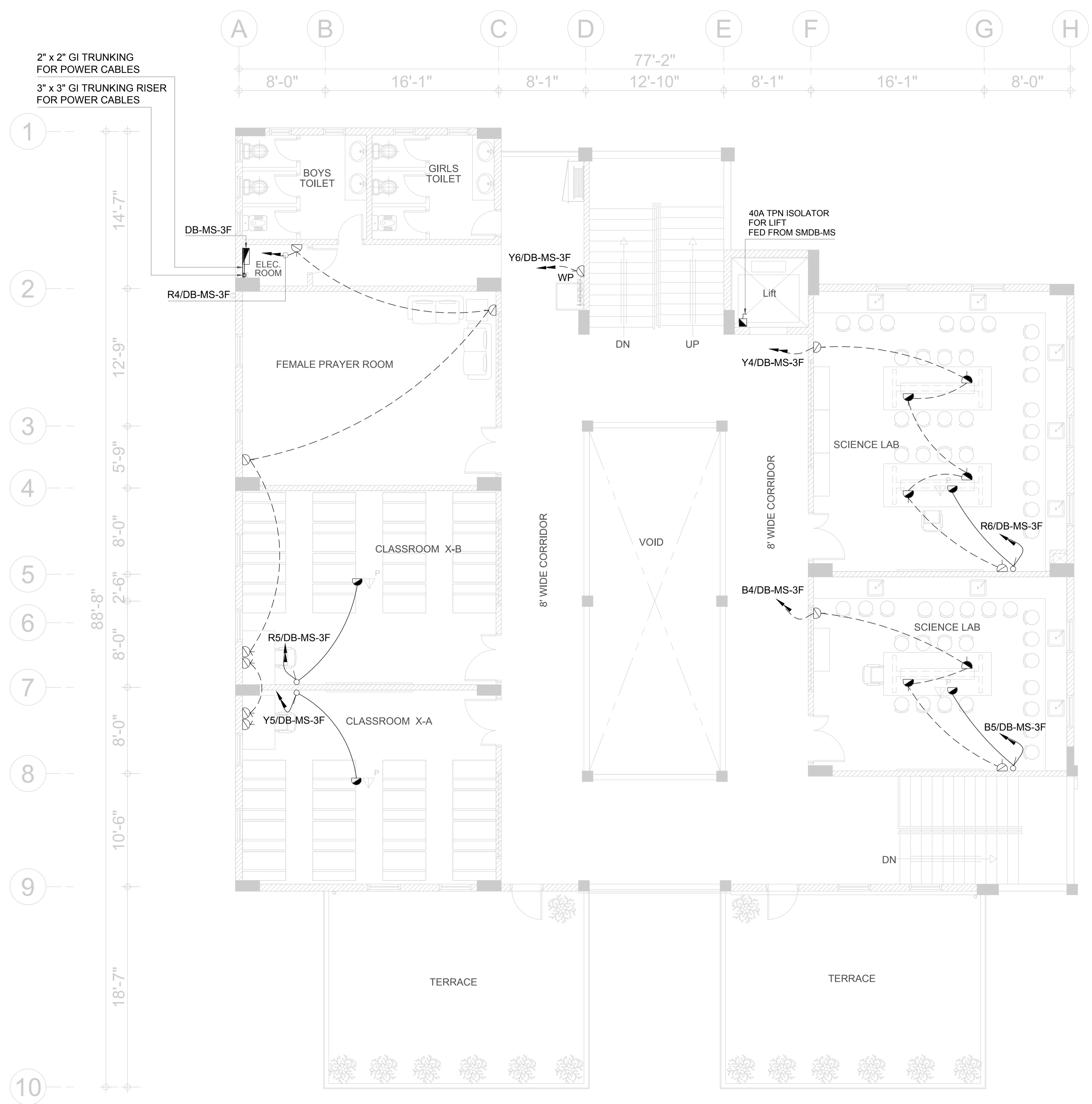
Drawing No. :  
**EA-00986-SMS-EP-0300**



**LEGEND FOR POWER SYSTEM**

SYMBOL	DESCRIPTION
	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET
	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ABOVE COUNTER TOP)
	13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET
	13A 3 PIN FLAT 1-GANG UNSWITCHED SOCKET OUTLET
	15A 3 PIN 1-GANG SWITCHED SOCKET OUTLET
	10A 1-GANG SWITCH
	TPN ISOLATOR
	DISTRIBUTION BOARD (DB)
	SUB MAIN DISTRIBUTION BOARD (SMDB)
	MAIN DISTRIBUTION BOARD (MDB)
	230V, 600VA UPS SINGLE IN SINGLE OUT





**LEGEND FOR POWER SYSTEM**

SYMBOL	DESCRIPTION
	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET
	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ABOVE COUNTER TOP)
	13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET
	13A 3 PIN FLAT 1-GANG UNSWITCHED SOCKET OUTLET
	15A 3 PIN 1-GANG SWITCHED SOCKET OUTLET
	10A 1-GANG SWITCH
	TPN ISOLATOR
	DISTRIBUTION BOARD (DB)
	SUB MAIN DISTRIBUTION BOARD (SMDB)
	MAIN DISTRIBUTION BOARD (MDB)
	230V, 600VA UPS SINGLE IN SINGLE OUT



Project :

**DEVELOPMENT OF  
SIU CAMPUS  
KARACHI**

Key Plan :

Note:

- All Dimensions to be confirmed on site with architect.
- Do not scale.
- Only written dimensions to be followed.
- Any discrepancies to be clarified with the architect.
- For structure details refer structure engineer drawings / details

North:

No.	DATE	DESCRIPTION
0	25, May 2018	ISSUED FOR TENDER
REVISIONS		

Date of Issue	25th May 2018
Issued To	Client
Issued For	Tender

**ELECTRICAL**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title :  
**THIRD FLOOR PLAN  
POWER LAYOUT**

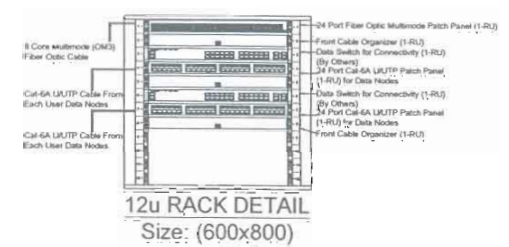
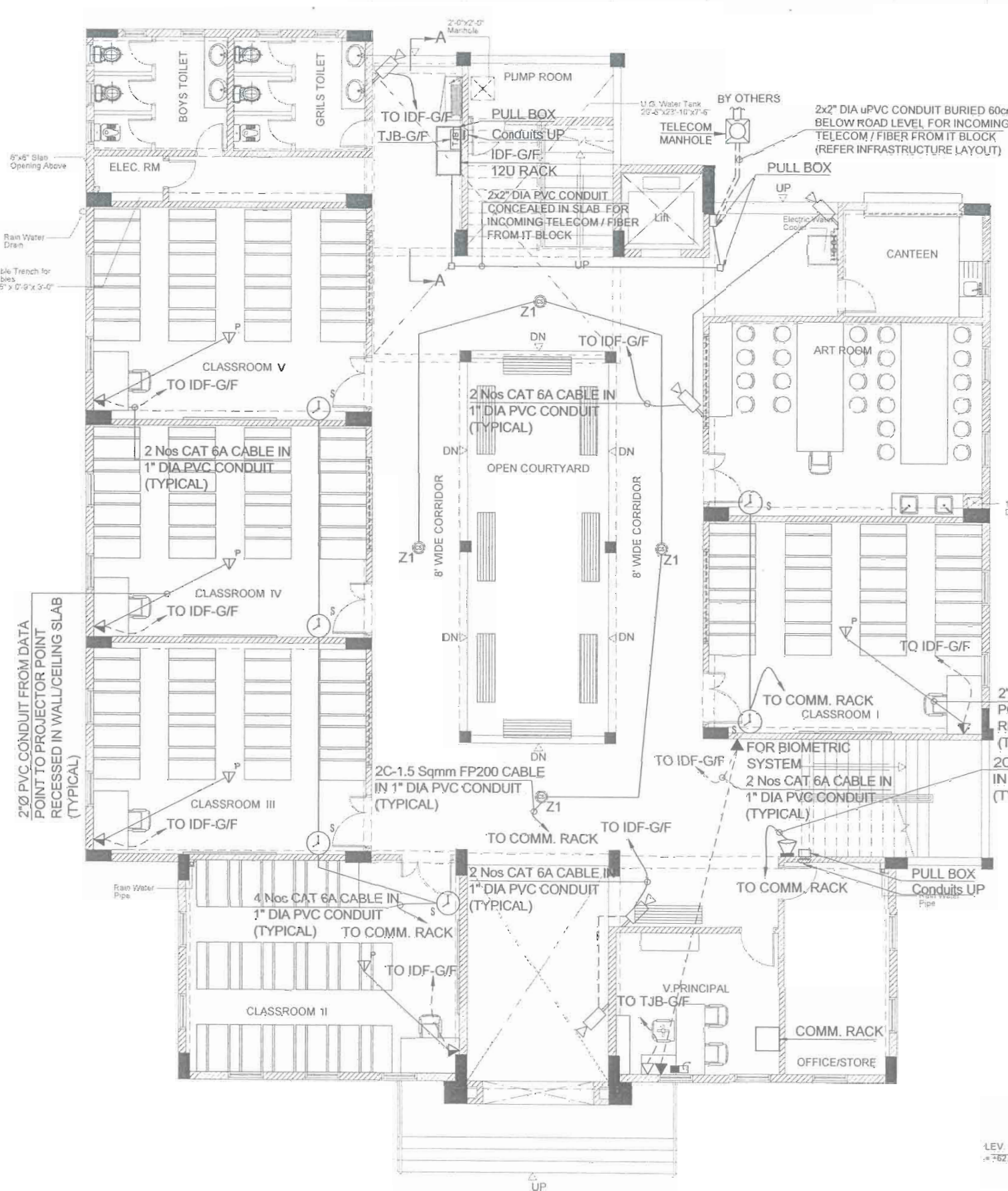
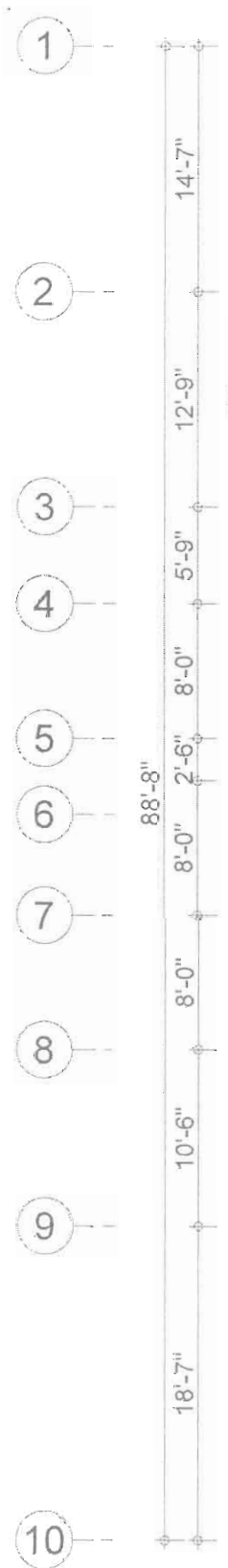
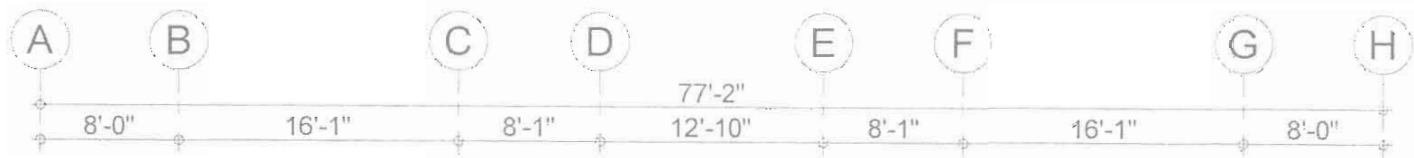
Designed :	Checked :	Approved :
MF	MF	JIS
Drawn :	Date :	Scale / Sheet :
ZA	April 2018	3/32"=1'-0" @A3
Project Code :	Rev. :	
	00986	0
Drawing No. : EA-00986-SMS-EP-0400		

DEVELOPMENT OF SMIU CAMPUS KARACHI

**MODEL SCHOOL City Campus**

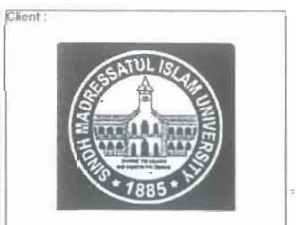
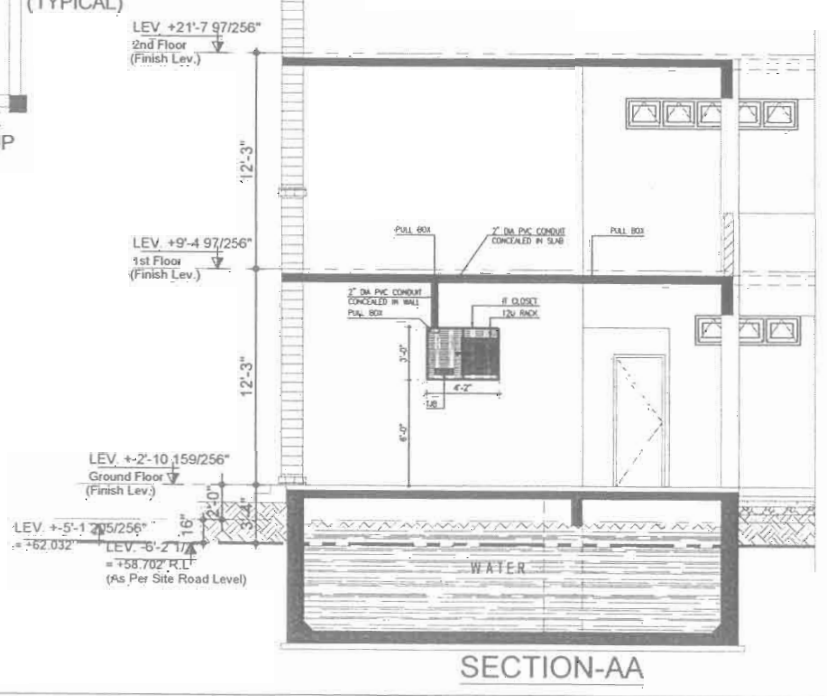
**TENDER DRAWINGS**

ELV & IT SYSTEMS



**LEGEND FOR ELV & IT SYSTEM**

	SINGLE RJ45 OUTLET FOR VOICE (18" ATFL)
	SINGLE RJ45 OUTLET FOR DATA (18" ATFL)
	DUAL RJ45 OUTLET FOR DATA (18" ATFL)
	FLOOR DISTRIBUTION BOX 1 No RJ45 OUTLET FOR VOICE & 1 No RJ45 OUTLET FOR DATA 1 No 13A (WAL & 1 No 5A SWITCHED SOCKET OUTLET
	TELEVISION POINT @HL
	SINGLE RJ45 DATA OUTLET FOR WiFi @CEILING / WALL
	SINGLE RJ45 DATA OUTLET FOR PROJECTOR ABOVE FALSE CEILING
	12U TELECOM RACK (WALL MOUNTED)
	42U TELECOM RACK (FLOOR STANDING)
	MANHOLE FOR TELECOM (2'-0"x2'-0")
	CCTV FIXED CAMERA TYPE (WALL MOUNTED)
	CCTV DOME CAMERA TYPE
	MCSS MASTER CLOCK SYSTEM
	BIPOLAR PULSES CLOCK SINGLE SIDED @ CEILING / WALL
	SCHOOL BELL
	SCHOOL BELL SYSTEM PANEL
	PA / VA SURFACE SPEAKER WITH BOX (SW)
	MICROPHONE WITH PAGING EXTENSION
	20U PA RACK
	DUAL ZONE AMPLIFIER
	POWER AMPLIFIER
	ACCESS CONTROL SYSTEM PANEL (2 DOOR TYPE)
	DOOR LOCK UNIT
	PUSH BUTTON
	PROXIMITY CARD READER
	CABLE TRAY



Client:  
HADRESSATUL ISLAM UNIVERSITY  
FOUNDED 1885

Consultant:  
EA Consulting Pvt Ltd  
Head Office: AL-9, C-4, Lane, Naya Raan-e-Hind Phase A,  
Defence Housing Authority, Karachi-75500, Pakistan  
Phone No: 373-111-524, Fax No: 364-1829  
Email: info@eaconsulting.com | www.eaconsulting.com

Project:  
**DEVELOPMENT OF  
SMIU CAMPUS  
KARACHI**

Key Plan:  
North

Note:  
• All Dimensions to be confirmed on site with architect.  
• Do not scale.  
• Only written dimensions to be followed.  
• Any discrepancies to be clarified with the architect.  
• For structure details refer, structure engineer drawings / details.

0	25 May 2018	ISSUED FOR TENDER
No.	DATE	DESCRIPTION
REVISIONS		
Date of Issue	25th May 2018	
Issued To	Client	
Issued For	Tender	

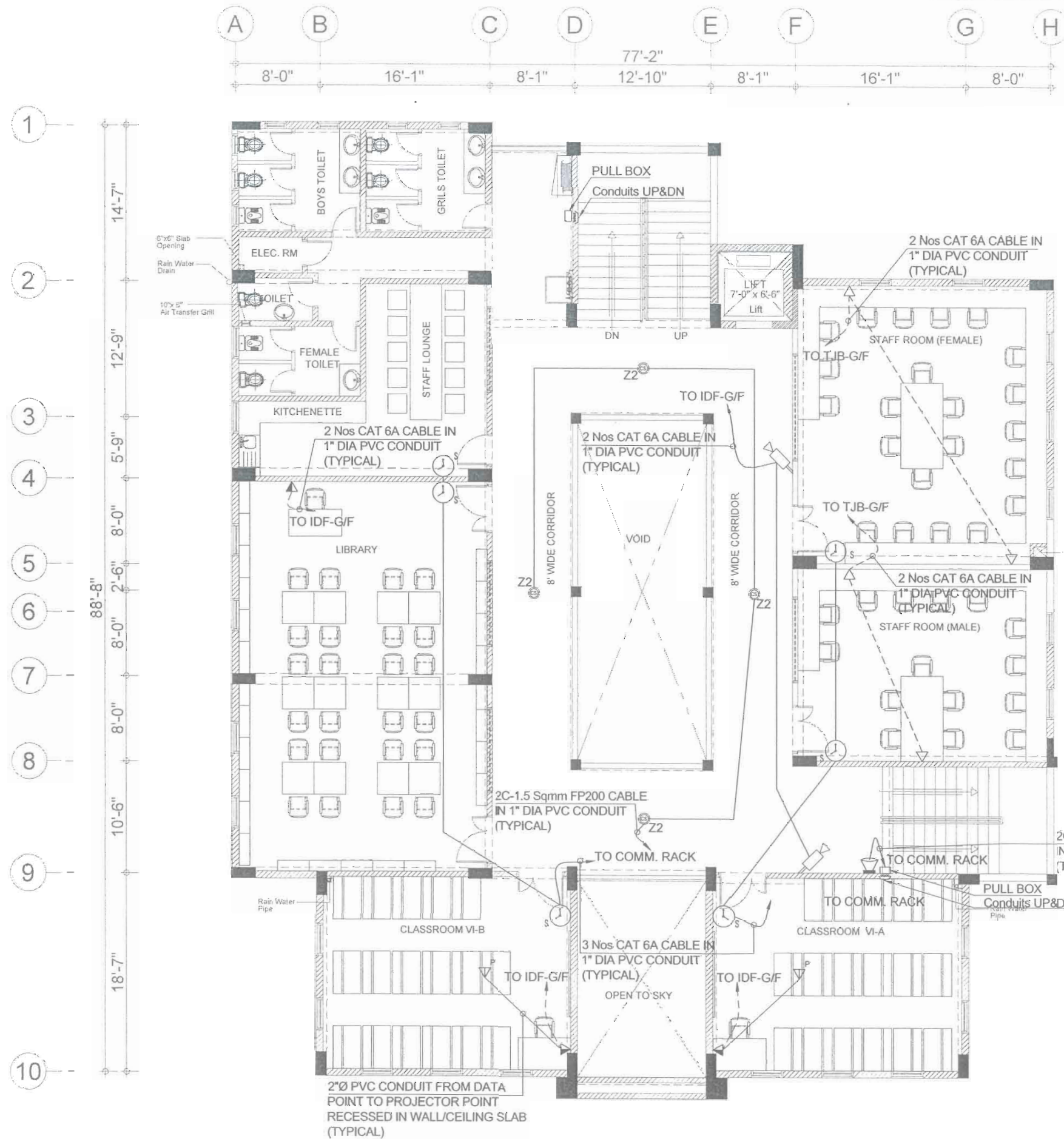
**ELECTRICAL**

Status: **TENDER**

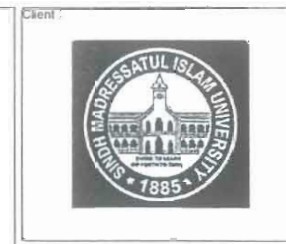
Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title: **GROUND FLOOR PLAN  
ELV & IT  
SYSTEMS LAYOUT**

Designed: \_\_\_\_\_ Checked: \_\_\_\_\_ Approved: \_\_\_\_\_  
Drawn: \_\_\_\_\_ Date: \_\_\_\_\_ Scale / Sheet: \_\_\_\_\_  
Project Code: \_\_\_\_\_ Rev: \_\_\_\_\_  
Drawing No.: 00986 0  
EA-00986-SMS-IT-0100



LEGEND FOR ELV & IT SYSTEM	
	SINGLE RJ45 OUTLET FOR VOICE (18" ATFL)
	SINGLE RJ45 OUTLET FOR DATA (18" ATFL)
	DUAL RJ45 OUTLET FOR DATA (18" ATFL)
	FLOOR DISTRIBUTION BOX: 1 No RJ45 OUTLET FOR VOICE & 1 No RJ45 OUTLET FOR DATA 1 No 15A DUAL & 1 No 5A SWITCHED SOCKET OUTLET
	TELEVISION POINT @HL
	SINGLE RJ45 DATA OUTLET FOR WIFI @CEILING / WALL
	SINGLE RJ45 DATA OUTLET FOR PROJECTOR ABOVE FALSE CEILING
	12U TELECOM RACK (WALL MOUNTED)
	42U TELECOM RACK (FLOOR STANDING)
	MANHOLE FOR TELECOM (2'-0"x2'-0")
	CCTV FIXED CAMERA TYPE (WALL MOUNTED)
	CCTV DOME CAMERA TYPE
	MASTER CLOCK SYSTEM
	BIPOLAR PULSES CLOCK SINGLE SIDED @ CEILING / WALL
	SCHOOL BELL
	SCHOOL BELL SYSTEM PANEL
	PA / VA SURFACE SPEAKER WITH BOX (BY)
	MICROPHONE WITH PAGING EXTENSION
	27U RACK
	DUAL ZONE AMPLIFIER
	POWER AMPLIFIER
	ACCESS CONTROL SYSTEM PANEL (2 DOOR TYPE)
	DOOR LOCK UNIT
	PUSH BUTTON
	PROXIMITY CARD READER
	CABLE TRAY



Client:  
 Consultant:  
**EA Consulting Pvt Ltd**  
 Head Office: Al-9, 15th Lar, NayaBari-e-Hilal Phase 7,  
 Defence Housing Authority, Karachi. 75500 - Pakistan  
 Phone No: 111-111-5541 Fax No: 554-1825  
 Email: info@ea-world.com | www.eaworld.com

Project:  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan:

Note:  
 - All dimensions to be confirmed on site with architect.  
 - Do not scale.  
 - Only written dimensions to be followed.  
 - Any discrepancies to be clarified with the architect.  
 - For structure details refer, structure engineer drawings / details.

No.	DATE	DESCRIPTION
REVISIONS		

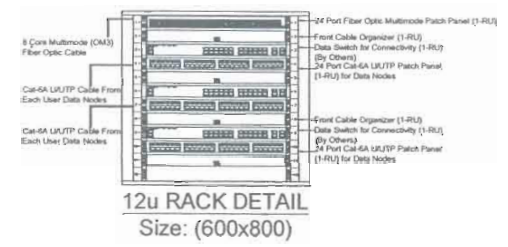
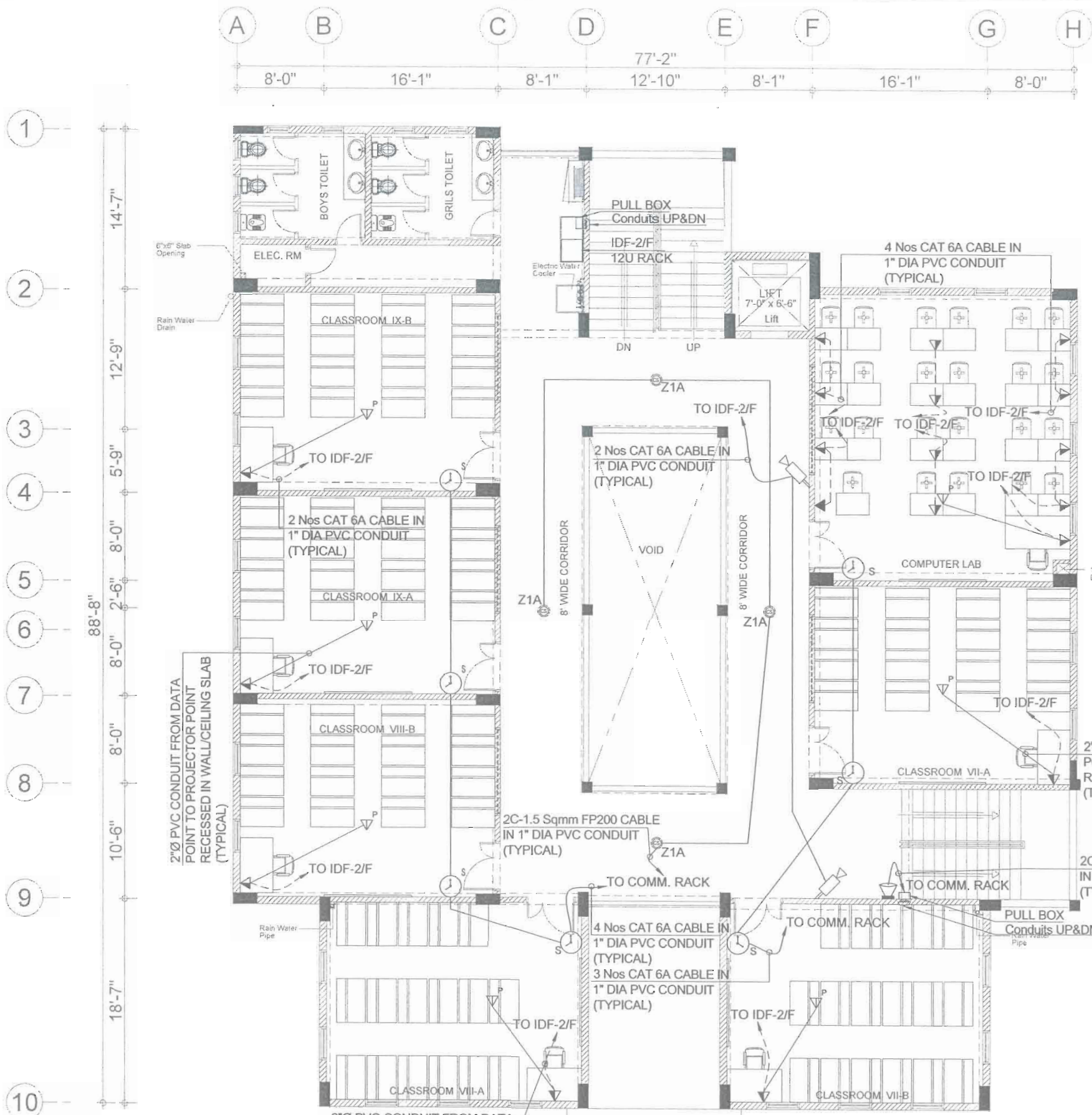
Date of Issue: 25th May 2018  
 Issued To: Client  
 Issued For: Tender

**ELECTRICAL**  
**TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title:  
**FIRST FLOOR PLAN ELV & IT SYSTEMS LAYOUT**

Designed: A.J. Checked: A.J. Approved: J.S.  
 Drawn: Z.N. Date: April 2018 Scale / Sheet: 3/16"=1'-0" @ A1  
 Project Code: 00986 Rev.: 0  
 Drawing No.: EA-00986-SMS-IT-0200



LEGEND FOR ELV & IT SYSTEM	
	SINGLE RJ45 OUTLET FOR VOICE (18" ATFL)
	SINGLE RJ45 OUTLET FOR DATA (18" ATFL)
	DUAL RJ45 OUTLET FOR DATA (18" ATFL)
	FLOOR DISTRIBUTION BOX: 1 No RJ45 OUTLET FOR VOICE & 1 No RJ45 OUTLET FOR DATA 1 No 13A DUAL & 1 No 5A SWITCHED SOCKET OUTLET
	TELEVISION POINT @HL
	SINGLE RJ45 DATA OUTLET FOR WIFI @CEILING / WALL
	SINGLE RJ45 DATA OUTLET FOR PROJECTOR ABOVE FALSE CEILING
	12U TELECOM RACK (WALL MOUNTED)
	42U TELECOM RACK (FLOOR STANDING)
	MANHOLE FOR TELECOM (2'-0"x2'-0")
	CCTV FIXED CAMERA TYPE (WALL MOUNTED)
	CCTV DOME CAMERA TYPE
	MCS MASTER CLOCK SYSTEM
	BIPOLAR PULSES CLOCK SINGLE SIDED @ CEILING / WALL
	SCHOOL BELL
	SCHOOL BELL SYSTEM PANEL
	PA / VA SURFACE SPEAKER WITH BOX (SW)
	MICROPHONE WITH FREQUENCY DISTRIBUTION
	27U PA RACK
	DUAL ZONE AMPLIFIER
	POWER AMPLIFIER
	ACCESS CONTROL SYSTEM PANEL (2 DOOR TYPE)
	DOOR LOCK UNIT
	PUSH BUTTON
	PROXIMITY CARD READER
	CABLE TRAY



Client:  
 Consultant:  
**EA Consulting Pvt Ltd**  
 Head Office: AL-9, 15th Lane, Khayaban-e-Hilal, Phase 7, Defence Housing Authority, Karachi, 75200 - Pakistan  
 Phone No: 111-111-584, Fax No: 584-1825  
 Email: info@eaworld.com | www.eaworld.com

Project:  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan:

Note:  
 • All Dimensions to be confirmed on site with architect.  
 • Do not scale.  
 • Only written dimensions to be followed.  
 • Any discrepancies to be clarified with the architect.  
 • For structure details refer, structure engineer drawings & details.



No.	DATE	DESCRIPTION
REVISIONS		

Date of Issue: 25th May 2018  
 Issued To: Client  
 Issued For: Tender

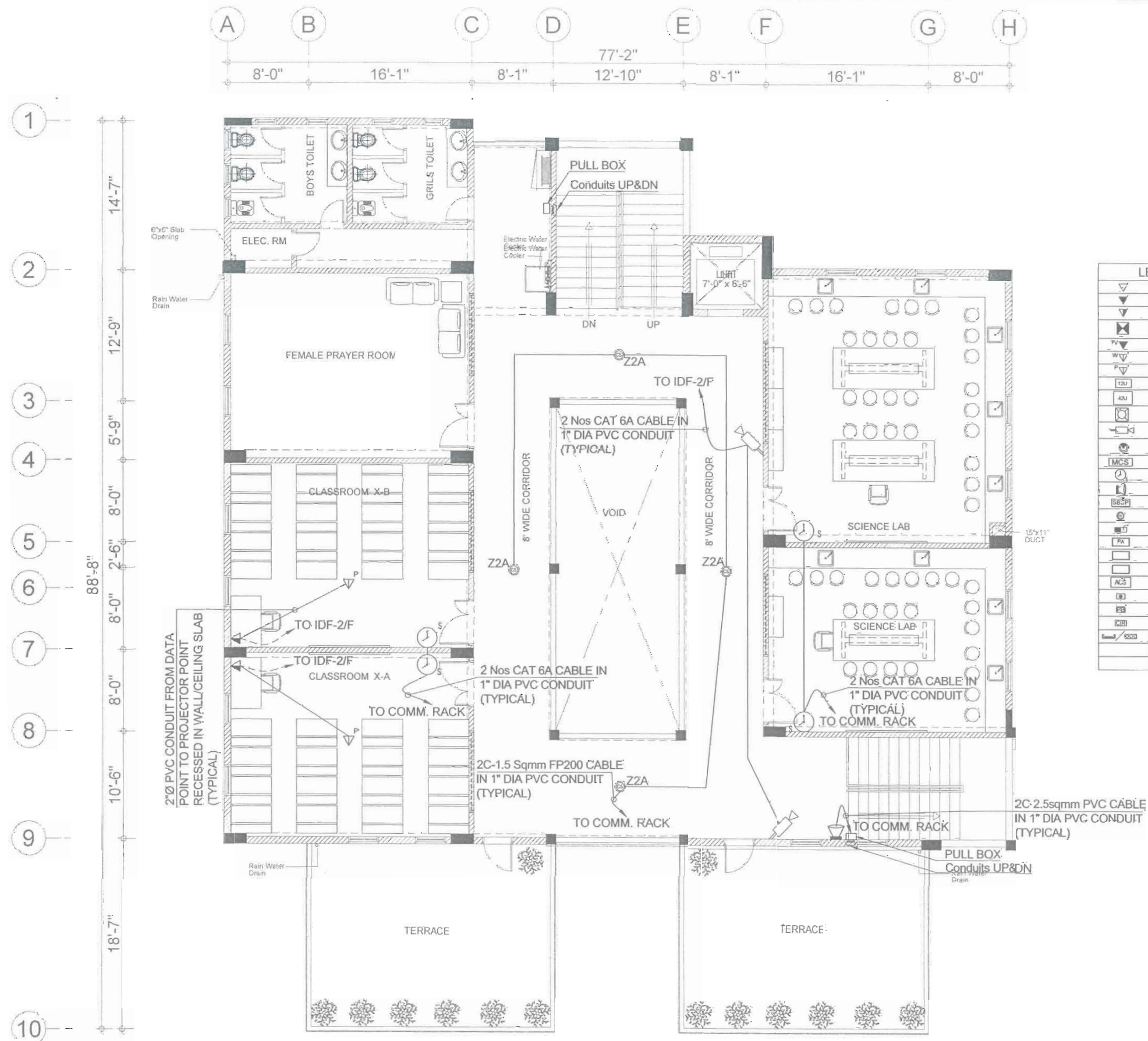
**ELECTRICAL**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title:  
**SECOND FLOOR PLAN ELV & IT SYSTEMS LAYOUT**

Designed: \_\_\_\_\_ Checked: \_\_\_\_\_ Approved: \_\_\_\_\_  
 Drawn: \_\_\_\_\_ Date: April 2018 Scale / Sheet: 3/32" = 1'-0" @ A2  
 Project Code: 00986 Rev.: 0  
 Drawing No.: EA-00986-SMS-IT-0300



LEGEND FOR ELV & IT SYSTEM	
	SINGLE RJ45 OUTLET FOR VOICE (18" ATFL)
	SINGLE RJ45 OUTLET FOR DATA (18" ATFL)
	DUAL RJ45 OUTLET FOR DATA (18" ATFL)
	FLOOR DISTRIBUTION BOX: 1 No RJ11 OUTLET FOR VOICE & 1 No RJ45 OUTLET FOR DATA 1 No 13A DUAL & 1 No SA SWITCHED SOCKET OUTLET
	TELEVISION POINT @HL
	SINGLE RJ45 DATA OUTLET FOR WIFI @CEILING / WALL
	SINGLE RJ45 DATA OUTLET FOR PROJECTOR ABOVE FALSE CEILING
	12U TELECOM RACK (WALL MOUNTED)
	42U TELECOM RACK (FLOOR STANDING)
	MANHOLE FOR TELECOM (2'-0"x2'-0")
	CCTV FIXED CAMERA TYPE (WALL MOUNTED)
	CCTV DOME CAMERA TYPE
	MASTER CLOCK SYSTEM
	BIPOLAR PULSES CLOCK SINGLE SIDED @ CEILING / WALL
	SCHOOL BELL
	SCHOOL BELL SYSTEM PANEL
	PA / VA SURFACE SPEAKER WITH BOX (SW)
	MICROPHONE WITH PAGING EXTENSION
	7U PA RACK
	DUAL ZONE AMPLIFIER
	PUMP AMPLIFIER
	ACCESS CONTROL SYSTEM PANEL (2 DOOR TYPE)
	DOOR LOCK UNIT
	PUSH BUTTON
	PROXIMITY CARD READER
	CABLE TRAY



Client: H. M. Adressatul Islam University  
 Consultant: EA Consulting Pvt Ltd  
 Head Office: Plot No. 3, 7th Lane, Khayaban-e-Hilal, Phase 7, Defence Housing Authority, Karachi - 75202 - Pakistan  
 Phone No: 111-111-584, Fax No: 584-1825  
 Email: info@eaconsult.com, www.eaconsult.com

Project: DEVELOPMENT OF SMIU CAMPUS KARACHI

Key Plan: [Blank area for key plan]  
 Note: All Dimensions to be confirmed on site with architect. Do not scale. Only written dimensions to be followed. Any discrepancies to be clarified with the architect. For structure details refer structure engineer drawings / details.

No.	DATE	DESCRIPTION
REVISIONS		
1	25, May 2018	ISSUED FOR TENDER

Date of Issue: 25th May 2018  
 Issued To: Client  
 Issued For: Tender

ELECTRICAL  
 TENDER  
 Building Name: MODEL SCHOOL CITY CAMPUS

Drawing Title: THIRD FLOOR PLAN ELV & IT SYSTEMS LAYOUT  
 Designed: [Blank] Checked: [Blank] Approved: [Blank]  
 Drawn: [Blank] Date: April 2018 Scale / Sheet: 3/32=1'-0" @A1  
 Project Code: 00986 Rev: 0  
 Drawing No.: EA-00986-SMS-IT-0400

# IT SYSTEM SCHEMATIC DIAGRAM

ROOF

THIRD FINISH FLOOR LEVEL

**IDF-2/F**  
 12U RACK DETAIL  
 1 Nos 24 Port Fiber Patch Panel  
 3 Nos 24 Port RJ-45 Patch Panel  
 4 Nos CABLE ORGANIZER  
 SPACE FOR ACTIVE EQUIPMENT

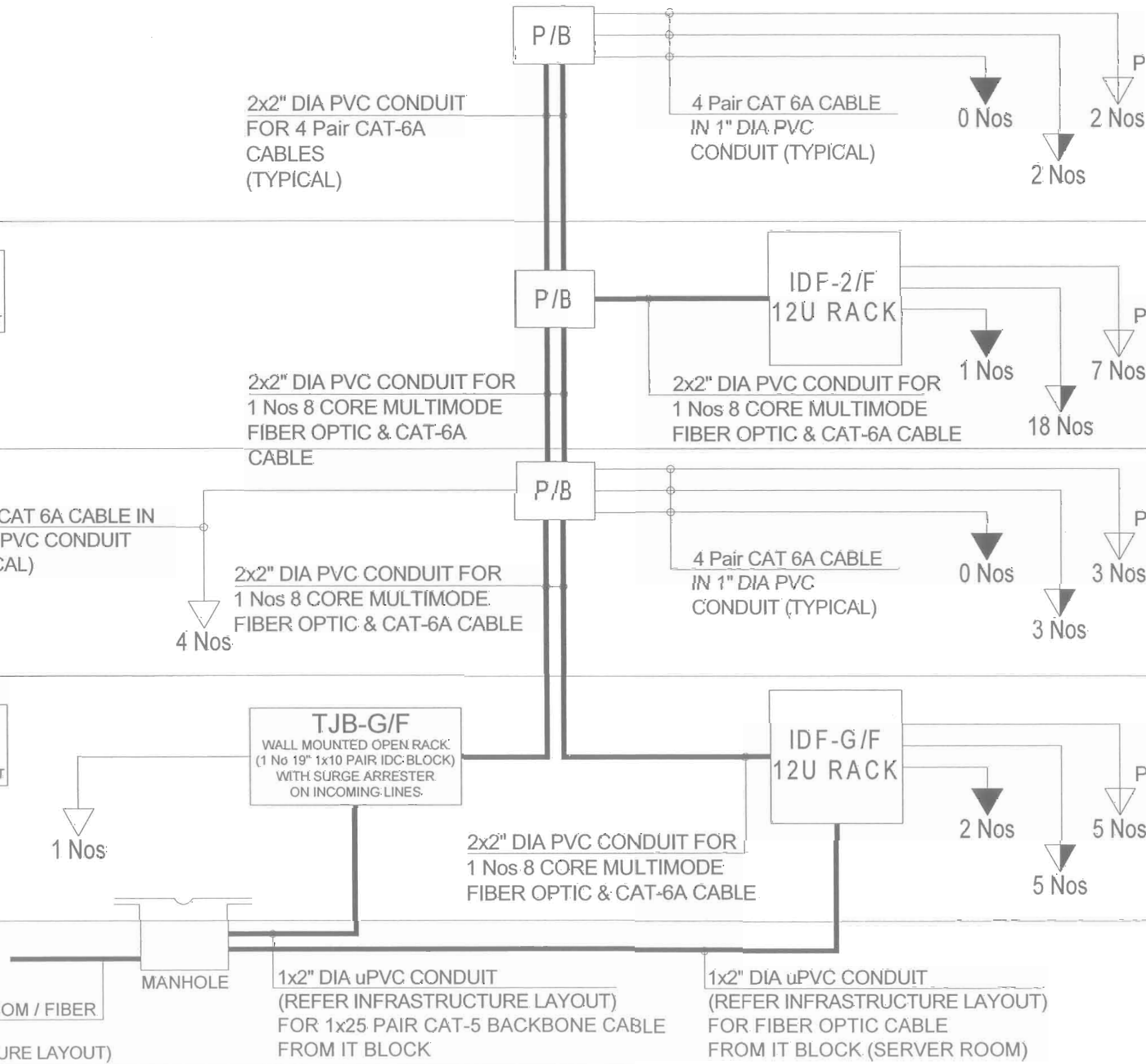
SECOND FINISH FLOOR LEVEL

FIRST FINISH FLOOR LEVEL

**IDF-G/F**  
 12U RACK DETAIL  
 1 Nos 24 Port Fiber Patch Panel  
 2 Nos 24 Port RJ-45 Patch Panel  
 3 Nos CABLE ORGANIZER  
 SPACE FOR ACTIVE EQUIPMENT

GROUND FINISH FLOOR LEVEL

INCOMING FOR TELECOM / FIBER FROM IT BLOCK (REFER INFRASTRUCTURE LAYOUT)



Client: Shaheed Suhrawardy Islamic University  
 Consultant: EA Consulting Pvt Ltd  
 Head Office: Al-S 15th Lane, Khayaban-e-His Phase 7, Defence Housing Authority, Karachi, 74600 - Pakistan  
 Phone No: 111-111-5045 Fax No: 554-1525  
 Email: info@eaworld.com | www.eaworld.com

Project: DEVELOPMENT OF SMIU CAMPUS KARACHI

Key Plan:

Note:  
 - All Dimensions to be confirmed on site with architect.  
 - Do not scale.  
 - Only written dimensions to be followed.  
 - Any discrepancies to be clarified with the architect.  
 - For structure details refer structure engineer drawings / details.



No.	DATE	DESCRIPTION
1	25, May 2018	ISSUED FOR TENDER

Date of issue: 25th May 2018  
 Issued To: Client  
 Issued For: Tender

**ELECTRICAL**

Status: **TENDER**

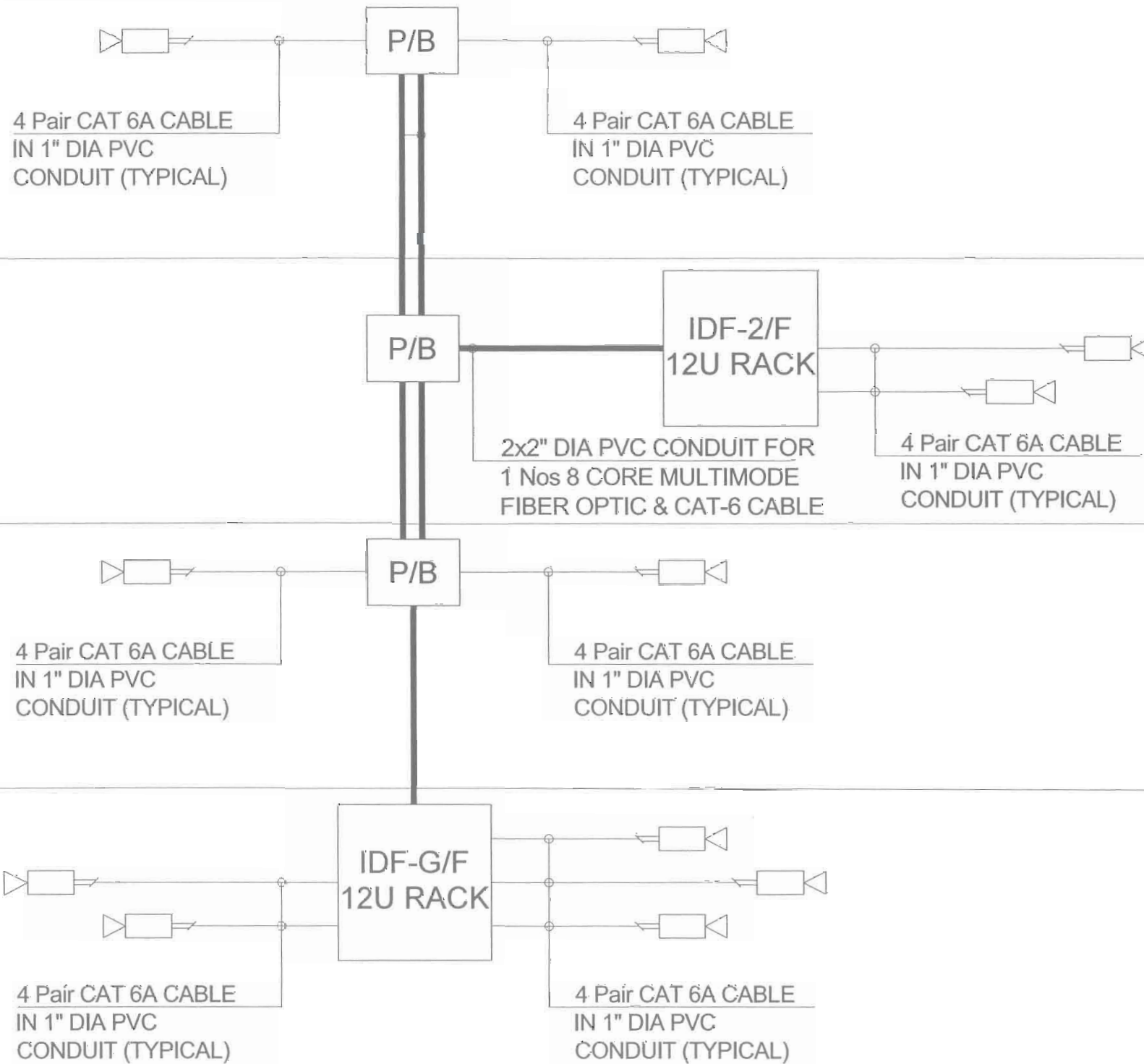
Building Name: **MODEL SCHOOL CITY CAMPUS**

Drawing Title: **IT SYSTEM SCHEMATIC DIAGRAM**

Designed: \_\_\_\_\_ Checked: \_\_\_\_\_ Approved: \_\_\_\_\_  
 Drawn: \_\_\_\_\_ Date: April 2018 Scale / Sheet: NTS@A5 NTS@A1  
 Project Code: 00986 Rev.: 0  
 Drawing No.: EA-00986-SMS-IT-0500

# CCTV SYSTEM SCHEMATIC DIAGRAM

ROOF



THIRD FINISH FLOOR LEVEL

IDF-2/F

12U RACK DETAIL  
 1 Nos 24 Port Fiber Patch Panel  
 3 Nos 24 Port RJ-45 Patch Panel  
 4 Nos CABLE ORGANIZER  
 SPACE FOR ACTIVE EQUIPMENT

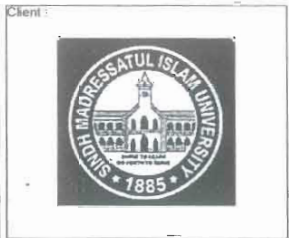
SECOND FINISH FLOOR LEVEL

FIRST FINISH FLOOR LEVEL

IDF-G/F

12U RACK DETAIL  
 1 Nos 24 Port Fiber Patch Panel  
 2 Nos 24 Port RJ-45 Patch Panel  
 3 Nos CABLE ORGANIZER  
 SPACE FOR ACTIVE EQUIPMENT

GROUND FINISH FLOOR LEVEL



Project :  
**DEVELOPMENT OF  
 SMIU CAMPUS  
 KARACHI**

Key Plan :

Note:  
 • All Dimensions to be confirmed on site with architect.  
 • Do not scale.  
 • Only written dimensions to be followed.  
 • Any discrepancies to be clarified with the architect.  
 • For structure details refer, structure engineer drawings / details.



No.	DATE	DESCRIPTION

25, May 2018	ISSUED FOR TENDER	
No.	DATE	DESCRIPTION
REVISIONS		
Date of Issue	24th May 2018	
Issued To	Client	
Issued For	Tender	

**ELECTRICAL**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
 CITY CAMPUS**

Drawing Title:  
**CCTV SYSTEM  
 SCHEMATIC DIAGRAM**

Designed :	Checked :	Approved :
Drawn :	Date :	Scale / Sheet :
Project Code :	00986	Rev. : 0
Drawing No.:	EA-00986-SMS-IT-0600	



# PUBLIC ADDRESS SYSTEM SCHEMATIC DIAGRAM

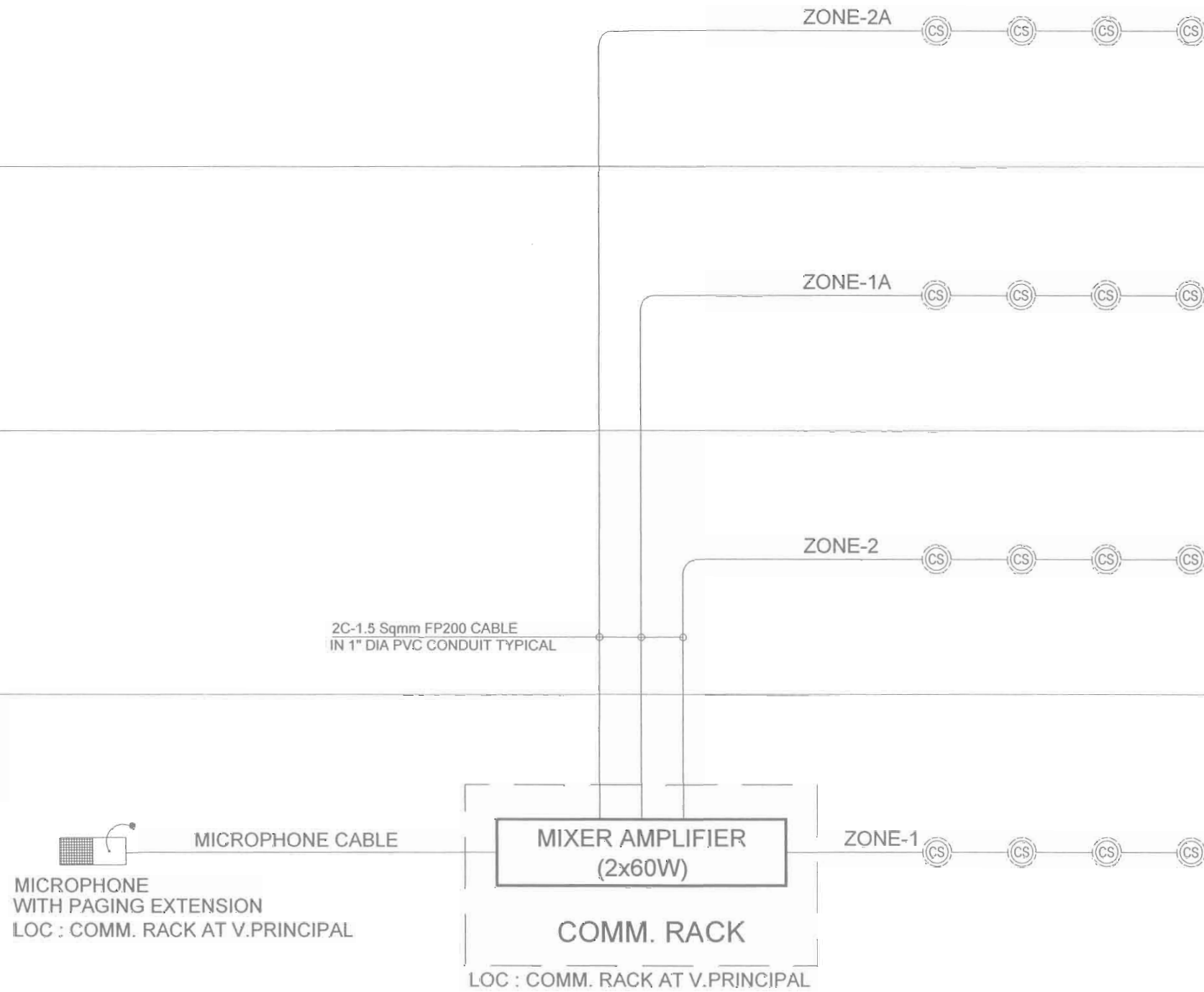
TOP ROOF

THIRD FINISH FLOOR LEVEL

SECOND FINISH FLOOR LEVEL

FIRST FINISH FLOOR LEVEL

GROUND FINISH FLOOR LEVEL



COMM RACK DETAIL

COMM RACK DETAIL  
2 Nos 60W MIXER AMPLIFIER  
FOR DUAL ZONE

MICROPHONE CABLE  
MICROPHONE  
WITH PAGING EXTENSION  
LOC : COMM. RACK AT V.PRINCIPAL

MIXER AMPLIFIER  
(2x60W)  
COMM. RACK  
LOC : COMM. RACK AT V.PRINCIPAL



Client :




EA Consulting Pvt Ltd  
Head Office: Al-G, 15th Lane, 10th Phase-1, H-8 (Phase 7),  
Defence Housing Authority, Karachi, 75000 - Pakistan  
Phone No. 111-111-564, Fax No. 564-1825  
Email : info@eaworld.com | www.eaworld.com

Project :

**DEVELOPMENT OF  
SMIU CAMPUS  
KARACHI**

Key Plan :

Note:  
• All Dimensions to be confirmed on site with architect.  
• Do not scale.  
• Only written dimensions to be followed.  
• Any discrepancies to be clarified with the architect.  
• For structure details refer, structure engineer drawings / details.



No.	DATE	DESCRIPTION

No.	DATE	DESCRIPTION
0	25, May 2018	ISSUED FOR TENDER

REVISIONS

Date of Issue	25th May 2018
Issued To	Client
Issued For	Tender

**ELECTRICAL**

Status: **TENDER**

Building Name:  
**MODEL SCHOOL  
CITY CAMPUS**

Drawing Title :  
**PUBLIC ADDRESS SYSTEM  
SCHEMATIC DIAGRAM**

Designed :	Checked :	Approved :
Drawn :	Date :	Scale / Sheet :
ZN	April 2018	NTS@A3 NTS@A1
Project Code :	00986	Rev. : 0
Drawing No. :	EA-00986-SMS-IT-0700	

# MASTER CLOCK SYSTEM SCHEMATIC DIAGRAM

TOP ROOF

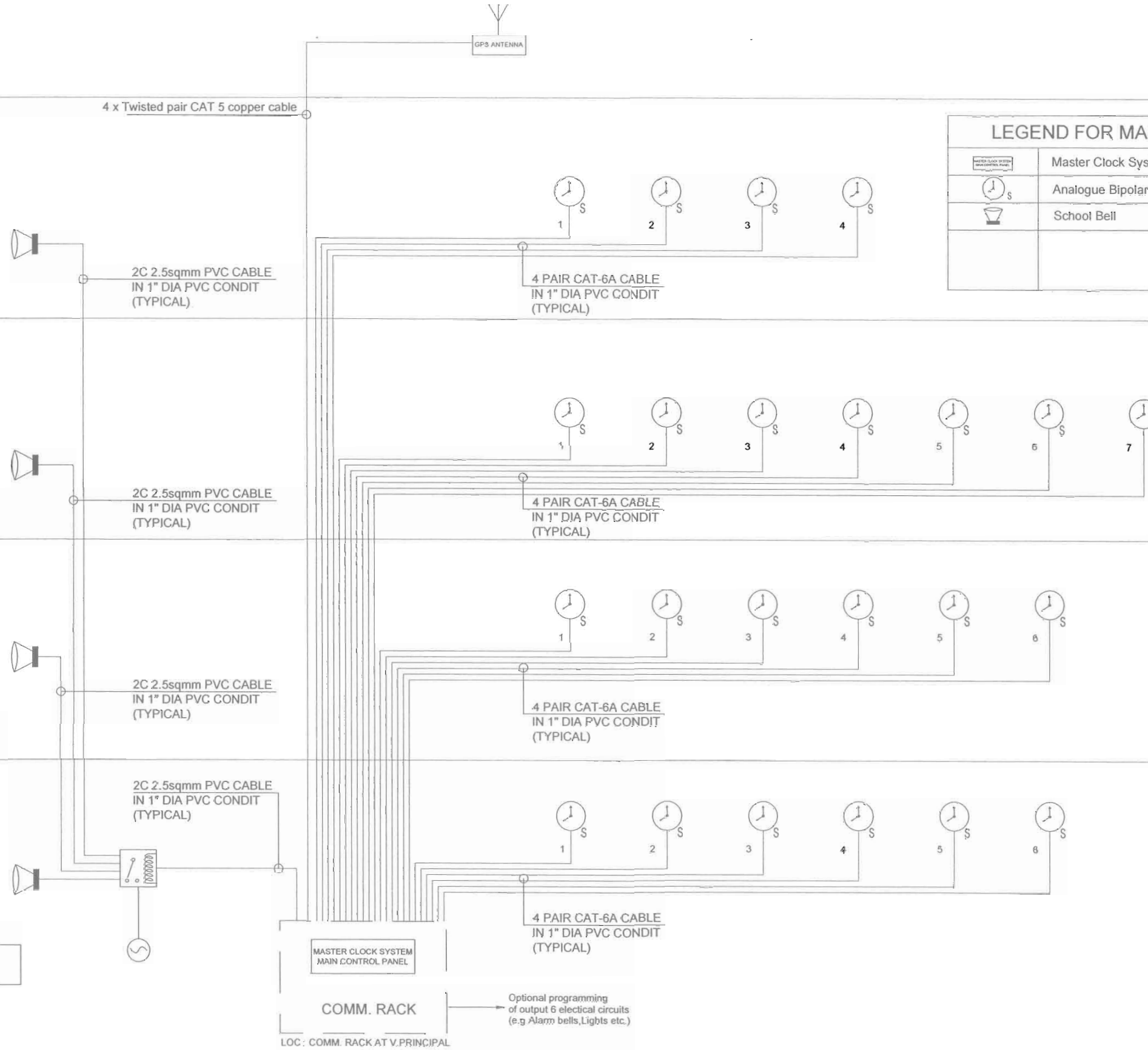
THIRD FINISH FLOOR LEVEL

SECOND FINISH FLOOR LEVEL

FIRST FINISH FLOOR LEVEL

COMM RACK DETAIL

GROUND FINISH FLOOR LEVEL



	Master Clock System
	Analogue Bipolar Pulses Clock Single Sided
	School Bell

COMM RACK DETAIL  
1 Nos MCS CONTROL PANEL

Optional programming of output 6 electrical circuits (e.g Alarm bells, Lights etc.)  
LOC : COMM. RACK AT V.PRINCIPAL



Client:  
Consultant:  
**ea**  
EA Consulting Pvt Ltd  
Head Office: Al-9, 15th Lane, Khayaban-e-Hal Phase 7, Defence Housing Authority, Karachi, 75500, Pakistan  
Phone No.: 111-111-0044 Fax No.: 594-1025  
Email: info@eaworld.com | www.eaworld.com

Project:  
**DEVELOPMENT OF SMIU CAMPUS KARACHI**

Key Plan:  
Note:  
- All Dimensions to be confirmed on site with architect.  
- Do not scale.  
- Only written dimensions to be followed.  
- Any discrepancies to be clarified with the architect.  
- For structure details refer, structure engineer drawings / details.

No.	DATE	DESCRIPTION
REVISIONS		
0	25. May 2018	ISSUED FOR TENDER

Date of Issue: 25th May 2018  
Issued To: Client  
Issued For: Tender

**ELECTRICAL**  
Status: **TENDER**

Building Name:  
**MODEL SCHOOL CITY CAMPUS**

Drawing Title:  
**MASTER CLOCK SYSTEM SCHEMATIC DIAGRAM**

Designed: A.J. Checked: A.J. Approved: A.S.  
Drawn: Z.N. Date: April 2018 Scale / Sheet: NTS@AS NTS@A1  
Project Code: 00986 Rev.: 0  
Drawing No.: EA-00986-SMS-IT-0800