

STABILITY CERTIFICATE

The detailed Engineering and Structure Design of the proposed building comprising of Villa Nos: 66, 70, 71, 72, 74, 75, 76, 81, 83, 84, 85 and 86 (Ground + 1 floor) at Survey Nos: 215/2D, 3B, 6C, 7A3, 7B, 8, 9A, 10A, 216/1A1C, 1A2, 1B1, 4C and 5C in Valarpuram Village, Sriperumbudhur Taluk, Kancheepuram District has been done by us based on the report of Geotechnical investigation (soil test) done by Nagadi Consultants Pvt. Ltd. Report No: G(C) 8718 dated 9th July 2015 and considering the functional requirement of the building.

It is certified that among other factors, the proposed building has been designed to resist earthquake. We have checked various parameters and found that the proposed building would be safe.

We further certify that:

(i) The minimum grade of concrete is M20

(ii) The design and analysis has been done using the code of practice for plain and reinforced concrete as per IS 456, design loads as per IS Codes No IS-875 Part I, II and design of earthquake resistant structure as per IS Code No IS 456.

The building will be safe and sound when used for the purpose for which it is designed.

Coimbatore

30.04.2026

For Sankar & Associates



S. MURUGESH, M.E., F.I.E.,
Chartered Engineer F-1279323
Structural Engineer Grade-I
CMDA/SE/GR-I/2022/05/320

Encl.: Structural Design Calculation



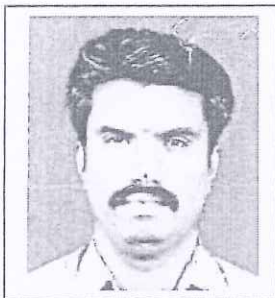
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
'Thalamuthu Natarajan Building', No.1, Gandhi Irwin Road,
Egmore, Chennai-600 008.

PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that **Thiru. MURUGESH. S** has enrolled as **Registered Structural Engineer Grade-I (SE)** with Chennai Metropolitan Development Authority (CMDA) who has the qualification of **M.E., (Structural Engg.)** and experience in the relevant field for **25 years**.

He has been given the Registration No.**SE/GR-I/2022/05/320** on **16.05.2022**. He shall be required to comply with the duties and responsibilities prescribed by the Government of Tamil Nadu in Part-V, "Registration of Professionals", Tamil Nadu Combined Development and Building Rules, 2019 approved vide G.O.(Ms) No.18 MAWS (MA1) Dept. dated 04.02.2019.

This Registration is valid upto **15.05.2027**.



[Signature] 16.5.2022
T. ARIVALAGAN
SUPERINTENDENT
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
EGMORE, CHENNAI-600 008.

[Signature]

S. MURUGESH, M.E., FIE.,
Chartered Engineer F-1279323
Structural Engineer Grade-I
CMDA/SE/GR-I/2022/05/320

STRUCTURAL DESIGN BRIEF

THE PROPOSED CONSTRUCTION OF RESIDENTIAL VILLAS OF
SHRIRAM ONE CITY IN 215/2D, 3B, 6C, 7A3, 7B, 8, 9A, 10A, 216/
1A1C, 1A2, 1B1, 4C & 5C, AT PLOTNO: 66, 70, 71, 72, 74, 75, 76,
81, 83, 84, 85 & 86, DTCP APPROVED LAYOUT NO.236/13,
VALARPURAM VILLAGE, SRIPERUMBUDHUR TALUK,
KANCHEEPURAM DISTRICT.

“SHRIRAM ONE CITY - EWS VILLAS CORE I TO IV”

**SANKAR & ASSOCIATES, ARCHITECTS & PLANNERS,
COIMBATORE-641 009**

CLIENT:	M/S SHRIRAM PROPERTIES	DESIGN:	G + 1 Floor	ARCHITECT & PLANNERS SANKAR & ASSOCIATES 27 SENGUPTA STREET, RAMNAGAR, COIMBATORE.
STRUCTURE NAME :	RESIDENTIAL VILLAS	TITLE:	REPORT ON	
PLACE:	AT VALARPURAM, CHENNAI.		STRUCTURAL DESIGN.	

Name of Project:		Name of the Structure:
SHRIRAM ONE CITY		RESIDENTIAL GROUP DEVELOPMENT
Report by:	Checked by:	Approved by:
N.GOWDAMAN	S.MURUGESH	V.P.PONNUSWAMI

DESCRIPTION OF THE PROJECT:

The Proposed structure belongs to M/s Shriram Properties. Purpose of this structure is to house "Residential Villas in Shriram One City". The Structure is designed for the current scheme comprises of Villas in EWS – CORE I TO IV (66, 70, 71, 72, 74, 75, 76, 81, 83, 84, 85 & 86) with Ground + One floor. The structural design was carried out as per IS 456-2000. The dead load and live load are calculated based on IS 875: Part I & II.

STRUCTURAL DESIGN CALCULATION

I DESIGN PARAMETERS:

1. This structure is designed for Ground floor + One Upper floor.
2. SBC Adopted : 125 KN/sqm.
3. Concrete grade adopted:
For Footing & Columns : M20
For Beams & Slabs : M20
Grade of steel adopted : Fe 415.
4. Floor height : 3.20m (Typical)

II LOAD DETAILS:

DEAD LOAD:

1. Self weight of slab (Assumed as 115mm Tk.) - 2.875 KN/m².
2. Self weight of slab (Assumed as 140mm Tk.) - 3.500 KN/m².

SUPER IMPOSED DEAD LOAD:

1. Floor finish - 1.5 KN/m².
2. Unit wt. of brick * Tk of wall * Ht of wall
(19 x 0.23 x (0.80 x (3.20-0.23))) - 10.50 KN/m.

SUPER IMPOSED LIVE LOAD:

1. All Rooms and Kitchen - 2 KN/m²
2. Terrace Floor - 1.5 KN/m²



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III LOAD COMBINATION

Load case:

- 1.0(Dead load + Live Load)
- 1.5(Dead load + Live Load)

Location and thickness of walls as depicted in the architectural drawings were considered for loads at appropriate locations in the analysis.

IV DESIGN OF STRUCTURE:

The footing, column and plinth beams were designed for the factored gravity loads as per IS456-2000.

V STRUCTURAL ARRANGEMENT:

Columns are terminated at Plinth Beam level & Slabs are rested over masonry wall and slabs are designed as restrained slabs. Typical Design Calculation for Column, footing, Plinth Beam and Slab were added in Annexure (I). The Detailed Drawings are enclosed herewith for reference in Annexure (II).



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ANNEXURE – I

TYPICAL DESIGN CALCULATIONS

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STRUCTURE NAME :	RESIDENTIAL VILLAS	TITLE: REPORT ON STRUCTURAL DESIGN.		
PLACE:	AT VALARPURAM, CHENNAI.			

TYPICAL COLUMN DESIGN

Breadth	b =	200.00 mm
Depth	D =	200.00 mm
Clear cover	cc =	40.00 mm
Effective cover	d' =	54.00 mm
Effective Breadth	b' =	146.00 mm
Effective Depth	D' =	146.00 mm
Length of column	L =	3.20 m
Depth of Beam/Slab framing into coln (Major)	Bd =	0.38 m
Depth of Beam/Slab Framing into coln (Minor)	Bd =	0.38 m
Clear length in major axis	Lc or Lo =	2.82 m
Clear height in minor axis	Lc or Lo =	2.82 m
Effective length factor	β =	0.80
Effective length of column	Leff (x-dir) =	2.26 m
Effective length of column	Leff (y-dir) =	2.26 m
Axial Load (Factored)	N =	345.00 KN
Moment about major axis (Factored)	Mx =	1.00 KN-m
Moment about minor axis (Factored)	My =	1.00 KN-m
Characteristic strength of concrete	fck =	20.00 N/mm ²
Characteristic strength of steel	fy =	415 N/mm ²

Design Calculations:

Step 1:	Check for Slenderness ratio :	Leff/D =	11.28 < 12
	Check for Slenderness ratio :	Leff/b =	11.28 < 12

Design as Short Column

	eax =	0.00 mm
	eay =	0.00 mm
Slenderness limits for column $L_o < 60 b$	2.82 m <	12.00 m

Step:2 Check for moment due to minimum eccentricity

Minimum Eccentricity (L/500 + d or b/30) or 20 (whichever	ex =	12.31 mm
	ey =	12.31 mm
A.) Moments due to Min eccentricity	Mex =	4.25 KN-m
	Mey =	4.25 KN-m

Step:3 Calculation of Additional Moments

Assume Percentage of Reinforcement	p =	1.40 %
Reinforcement Equally Distributed on	Two Face	
	Puz =	534.30 KN
d'/d along x-dir	=	0.20
d'/b along y-dir	=	0.20
Along x-direction		
	k1 =	0.184
	k2 =	-0.022
Along y-direction		
	k1 =	0.184
	k2 =	-0.022
$P_b = (k_1 + k_2 p / F_{ck}) F_{ck} b d$	Pbx =	145.97 KN
	Pby =	145.97 KN
$k = (P_{uz} - P_u) / (P_{uz} - P_b)$	Kx =	0.49
	Ky =	0.49
B.) Additional Moments	Max =	0.00 KN-m



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Step:4 Total Moments for which the column is to be designed are

D.) Final Moment

May = 0.00 KN-m

Mux = 4.25 KN-m

Muy = 4.25 KN-m

Step:5

Pu / Fck bd = 0.43

p/Fck = 0.07

*Refer CHART 34 From SP 16 : 1980 for red values

Pu / Fck bD = 0.43 p/Fck = 0.07 d/D = 0.20

Mux1 / Fck bD² = 0.095

Mux1 = 13.60 KN-m

*Refer CHART 34 From SP 16 : 1980 for red values

Pu / Fck bD = 0.43 p/Fck = 0.07 d/b = 0.20

Muy1 / Fck bD² = 0.08

Muy1 = 12.80 KN-m

Mux/Mux1 = 0.31

Muy/Muy1 = 0.33

Pu/Puz = 0.65

om = 1.74

(Mux/Mux1)^{om} + (Muy/Muy1)^{om} = 0.28 < 1

Decrease The Reinforcement Percentage

Step:6 Longitudinal Reinforcement Area of steel Required Asc = 560.00 mm²

Larger dia

Smaller dia

Select Bar dia 12 mm Select Bar dia = 12 mm

No. of bars Req 2.0 No. of bars Req = 0.0

No. of bars Prov 6 No. of bars Prov = 0

Area Prov. 678.58 Area Prov. = 0

Area of Steel Provided Asc (pro) = 678.58 mm²

Percentage of Steel Provided = 1.70 %

Provide 6Y12 as longitudinal reinforcement

Step:7 Lateral Ties

1. Pitch: (take whichever is lesser)

i. 16x smaller dia of main steel = 175.00 mm

ii. 200 mm = 200.00 mm

Pi = 200.00 mm

2. Diameter (whichever is greater)

i. 1/4 x largest dia of main steel = 3.00 mm

ii. 8mm = 8.00 mm

Dia = 8.00 mm

Therefore provide Y8 @200c/c as Lateral ties.



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TYPICAL FOOTING DESIGN

Grade of Concrete	M	20		
Grade of Steel	Fe	415		
S.B.C of the Soil		125	kN/m ²	
size of the footing (assumed)	1.5	x	1	m
Thickness of Footing	380	mm		d
Dimentions of column	0.2	X	0.2	m
Depth of the footing	2	m		
Density of Soil	18	KN/m ³		
Axial load from the column	280	kN		
Gap between column face and Found	400	mm		

Eccentricity 0.1875 M > 0.166667

Maximum Pressure 113.7777778 kN/m²
Safe

Footing Contact 0.9375 m
Length Top Reinforcement Required

Moment Mu 16.66666667 kN/m²

Ast Required 141.2075302 KN-m

Ast Min 456 mm²

Dia of Bar 10

Spacing of Bar Required 172.2364393 mm

Spacing of Bar Provided 125 mm

Ast Provided 628.32 mm²



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Check for Shear

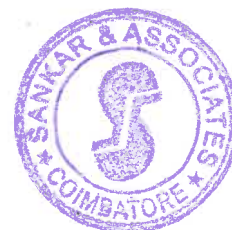
load Coming on Footing Due to Soil & Foundation 38.66 Kn/m

Shear at critical face -6.548179 kN

ζ_v -0.029764 N/mm²
 p_t 0.190
 β 12.20
 ζ_c 0.31932 N/mm² Safe in Shear

Two Way Shear

Stress | W_u 80
 V_u 104.524 kN
 ζ_v 0.25138 N/mm²
 β 1.5
 K_s 1
 ζ_c 1.11803 N/mm² Safe in Shear



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TYPICAL BEAM DESIGN

Input :

Breath of the beam, B	200	mm
Depth of the beam, D	380	mm
Clear cover of the beam	25	mm
Grade of concrete	20	N/mm ²
Grade of steel	415	N/mm ²
Span of the beam	4600	mm
Effective depth, d	347	mm

End Section :

Support moment of the beam, M_u	63	kN.m
Shear force at End section of the beam, V_u	50	kN
μ_{lim}	66.47	kN.m
$p_{t\ lim}$	0.96	%
Ast1 req at Top	0.00	mm ²
d'/d	0.10	
Ast2 req at Top	0.00	mm ²
Asc req at Top	0.00	mm ²
Total Ast Required at End Support	616.89	mm ²

Reinforcement provided at End Support	No. of Rods	Dia of Rod	
	2	12	ST
	2	16	CTLD

Ast Provided at End Support 628.57 mm²
Prov > req

Mid Section :

Mid moment of the beam, $M_{u\ Bottom}$	63	kN.m
d'/d	0.10	
Total Ast Required at Mid Support	616.89	mm ²

Reinforcement provided at Mid Support	No. of Rods	Dia of Rod	
	2	12	ST
	2	16	CTLD

Ast Provided at Mid Support 628.57 mm²
Prov > req

Check for shear in beams :

Shear force, V_u	600	kN
τ_v	8.65	N/mm ²
τ_c	0.6	N/mm ²
$\tau_{c\ max}$	2.8	N/mm ²
$\tau_v > \tau_{c\ max}$ not ok		
$\tau_c \leq b \cdot d$	41.64	kN
Assuming dia of Stirrup	8	mm
No. of Stirrup Legs	2	nos.
Stirrup spacing	170	mm

Check for Deflection:

Type of Beam	Cont.Beam
Span of the beam	4600 mm
Actual Span / Effective depth Ratio	13.26
Allowable Span /Effective depth Ratio	25.61

===<<< Hence SAFE in Deflection >>>===



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TYPICAL SLAB DESIGN

SLAB : S1

Data

Grade of concrete	$f_{ck} =$	20.00 N/mm ²
Grade of steel	$f_y =$	415.00 N/mm ²
Density of concrete	$=$	25 kN/m ³
Clear cover	$=$	20.00 mm

Classification of slab

Clear Size of Room/Panel	3.810 m x 6.170 m	
Longer span	6.170 m + 0.230 m	$l_y =$ 6.400 m
shorter span	3.810 m + 0.230 m	$l_x =$ 4.040 m
Aspect ratio		$l_y/l_x =$ 1.584 < 2

Slab to be designed as Two way slab

Assumed Span/effective depth ratio	$=$	26.00
Required effective depth of the slab	$=$	119.53 mm
Overall depth provided	$D =$	140.00 mm
Effective depth provided	$d =$	116.00 mm
Effective span	$L =$	3.926 m

Design load

Self weight of the slab	$=$	3.500 kN/m ²
Floor finish	$=$	1.00 kN/m ²
Other loads	$=$	0.000 kN/m ²
Total dead load	$=$	4.50 kN/m ²
Live load	$=$	2.00 kN/m ²
Total load	$=$	6.50 kN/m ²
Factored load	$W_u =$	9.75 kN/m ²

Calculation of reinforcement required

Slab End condition :- 8 One short edge continuous

	Shorter direction		Longer direction	
	$ax(-ve)$	$ax(+ve)$	$ay(-ve)$	$ay(+ve)$
	support	mid span	support	mid span
Bending moment Coefficient	0.0960	0.0960	0.057	0.043
Bending moment	15.277	15.277	9.071	6.843 kNm
Percentage of reinforcement required $P_{t,req}$	0.3	0.338	0.195	0.145 %
Area of reinforcement required A_{st}	392.32	392.32	225.706	168.47 mm ²
Minimum area of reinforcement $A_{st,min}$	168.00	168.00	168.00	168.00 mm ²
Area of reinforcement required $A_{st,req}$	392.32	392.32	225.71	168.47 mm ²
Diameter of Reinforcement Φ	8.00	8.00	8.00	8.00 mm
Spacing of Reinforcement required	128.12	128.12	222.70	250.00 mm
Spacing of Reinforcement provided	125.00	125.00	170.00	170.00 mm
Area of main reinforcement provided $A_{st,pro}$	402.29	402.29	295.80	295.80 mm ²
Percentage of reinforcement provided $P_{t,pro}$	0.347	0.347	0.255	0.255 %



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Check for Deflection

Span / effective depth ratio	=	26.00
Service stress in steel	$f_s =$	234.74 N/mm ²
Modification factor	=	1.44
Effective depth required for deflection limit	=	104.70 mm
Effective depth provided	$d =$	116 mm
Overall depth provided	$D =$	140.00 mm

Hence the limit state of deflection is satisfied

Check for Shear

Factored Shear force	$V_u =$	19.14 kN
Nominal shear stress	$\tau_v =$	0.165 N/mm ²
Percentage of steel	$\rho_t =$	0.347 %
Designed shear stress	$\tau_c =$	0.412 N/mm ²

Safe in Shear

Check for Crack width

Modular ratio	$m =$	8.94
Modulus of elasticity of steel	$E_s =$	200000 N/mm ²
Tension steel percentage provided	$\rho_t =$	0.347 %
Neutral axis depth factor	$k =$	0.220
Depth of neutral axis	$x =$	25.517 mm
Area of steel provided	$A_{st,pro} =$	402.29 mm ²
Cracked moment of inertia	$I_{cr} =$	3.50E+07 mm ⁴
Service load moment	$M_{(s)} =$	10.18 kNm/m
Service stress in steel	$f_{st} =$	235.52 N/mm ²
Strain in concrete at the level considered	$\epsilon_s =$	0.001490
Average strain in concrete	$\epsilon_m =$	0.000890
Distance of point from surface of reinforcing bar	$a_{cr} =$	62.950 mm
Crack width	$w_{cr} =$	0.096 < 0.2 mm

Crack width is within limit, Hence Safe



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ANNEXURE – II

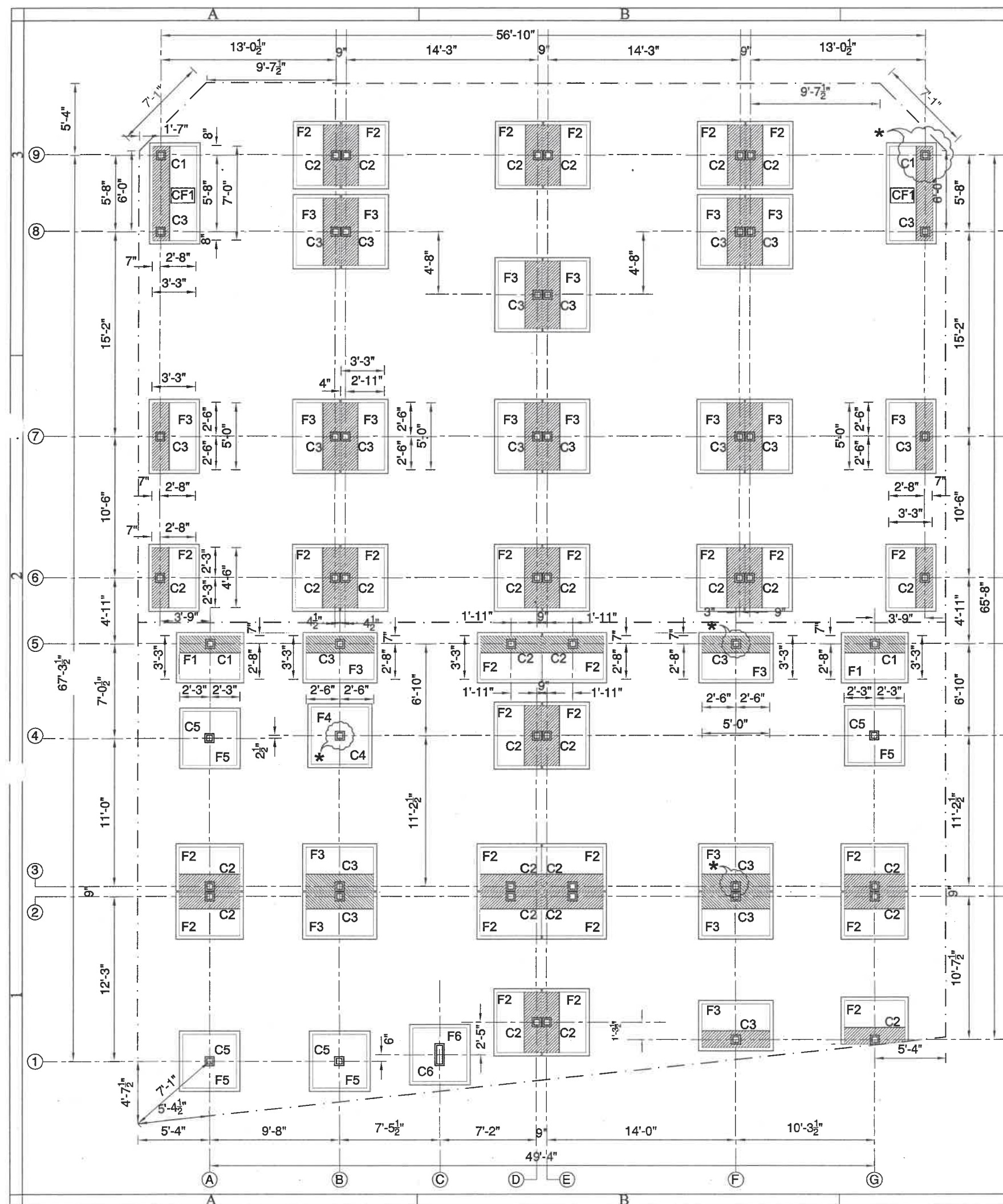
STRUCTURAL DRAWINGS

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EWS - CORE – I

VILLAS – 80 TO 87

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NOTES :

1. THE DIMENSIONS ARE NOT TO BE SCALED.
2. ALL DIMENSIONS ARE TO BE VERIFIED PROPERLY AT SITE.
3. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
4. ϕ - DIA OF TOR STEEL
5. CLEAR COVER TO MAIN REINFORCEMENT (MILD EXPOSURE)
 - a) FOR FOOTINGS = 50 mm (ALL AROUND)
 - b) FOR COLUMNS = 40 mm
6. LAPPING:
 - a) LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - b) DEVELOPMENT LENGTH SHALL BE = 48 x DIA OF BAR.
7. ALL ISOLATED FOOTINGS SHALL BE CONCENTRIC WITH COLUMN UNLESS OTHERWISE SPECIFIED
8. GRADE OF CONCRETE IS **M 20**
9. GRADE OF REINFORCING STEEL IS **Fe 415**
10. ASSUMED SBC OF SOIL = 125 KN / Sqm.
11. MINIMUM DEPTH OF FOUNDATION = 2.0 m BELOW NGL
12. THIS STRUCTURE IS DESIGNED FOR G+ 1 FLOOR

REV.	DESCRIPTION	REV BY.	DATE	APP BY.

IMPORTANT NOTES:-

- ONLY APPROVED DRAWINGS (i.e., SEALED AND DULY SIGNED AS GOOD FOR CONSTRUCTION) MUST BE USED FOR EXECUTION OF WORKS AT SITE.
- ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER.
- ANY MODIFICATION IN THE DESIGNER'S STRUCTURAL SYSTEM BEFORE/AFTER COMPLETION OF WORK SHALL BE IMMEDIATELY INTIMATED TO THE CONSULTANT
- CLIENT / BUILDER ENSURES THAT STRICT ADHERENCE TO THE GOOD CONSTRUCTION PRACTICE IS FOLLOWED AT SITE AS PER THE RELEVANT B.I.S. CODES.
- STRUCTURAL ENGINEER'S RESPONSIBILITY IS LIMITED TO DESIGNING & ISSUAL OF STRUCTURAL DRAWINGS ONLY

S. MURUGESH, M.E., F.I.E.,
Chartered Engineer F-1279323
Structural Engineer Grade-I
CMDA/SE/GR-I/2022/05/320

STRUCTURAL ENGINEER

* ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.

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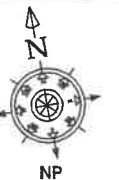
M/S SHRIRAM PROPERTIES AT VALARPURAM, CHENNAI.

CLIENT:-

REFERENCE:

This Drg. is Prepared Based On The Source Drg.

1. Drg. no. wd-pl-af-025 Dt. 3.11.15 OF



BUILDING: EWS CORE-1

DETAIL: CENTER LINE AND FOOTING LAYOUT

SCALE: 1"=8'-0"	JOB NO: 13-RMA-3A	REV	DRN BY: ALLEN
DATE: 7.12.15	DRG NO: ST-CL-001		CKD BY: B.JAYARAM
	SHEET NO: 1		APD BY: S.M

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Branch: 8, 34th Street, Near Pudoor School,
Ashok Nagar, Chennai - 600 083
E-mail : admin@sankarassociates.in
Website : www.sankarassociates.in

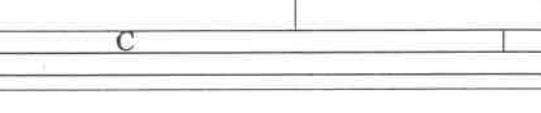
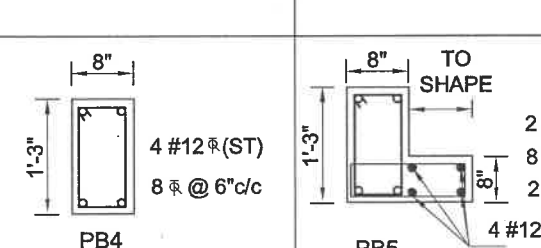
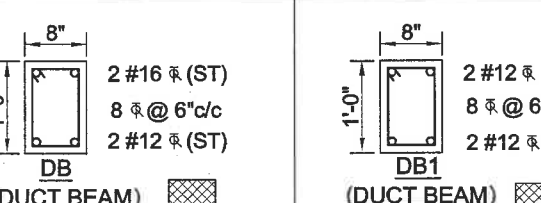
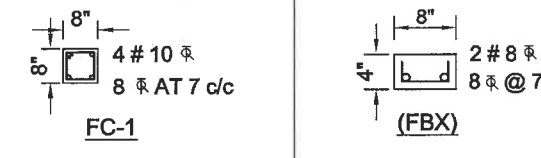
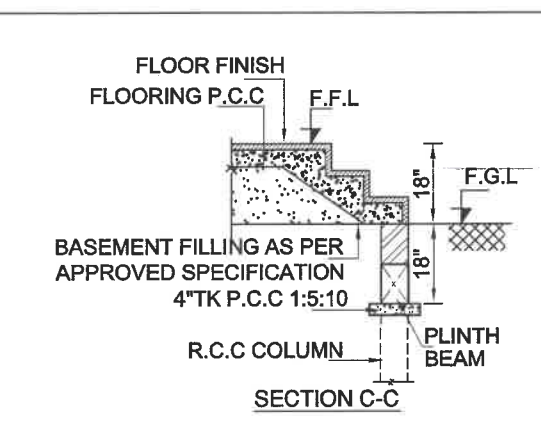
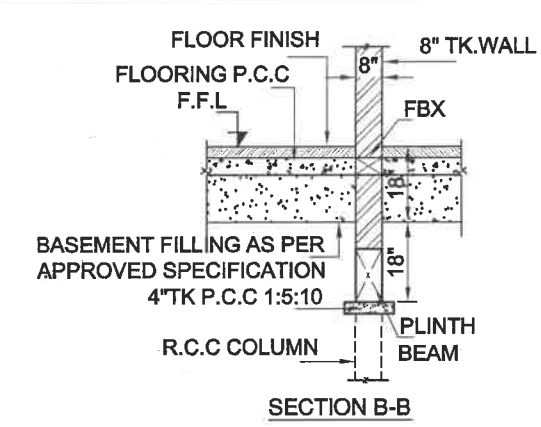
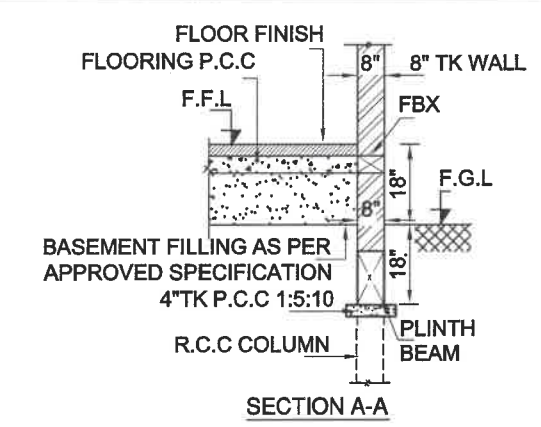
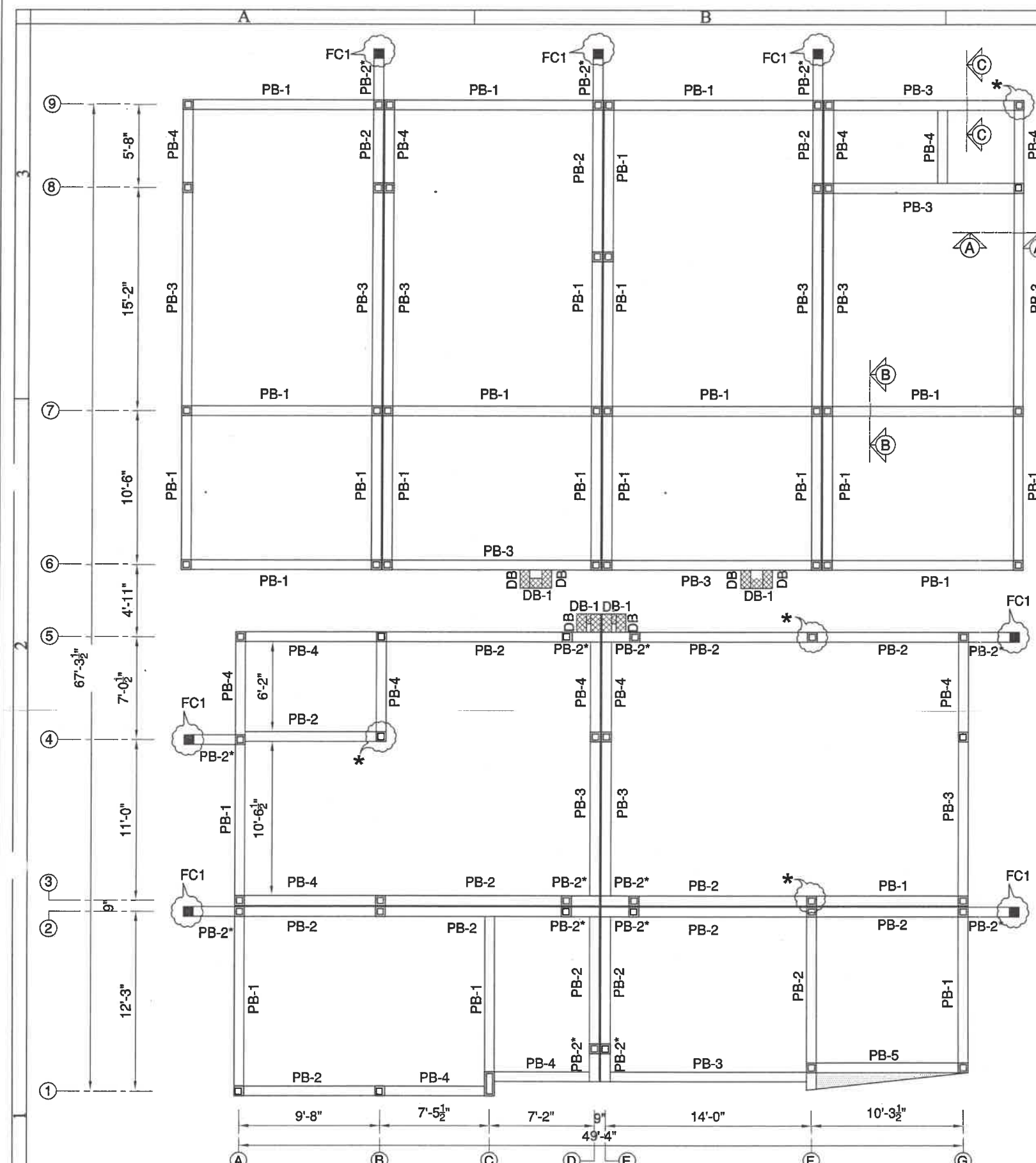
A3 - F

NOTES:

- * GRID NO. B4, F3, F5 AND G9 COLUMNS TO BE RAISED ABOVE PLINTH LEVEL AND OTHER COLUMNS ARE STUB COLUMN TO BE TERMINATED AT PLINTH BEAM LEVEL

SCHEDULE OF COLUMNS & FOOTINGS

Type	Column Size	Type	Footing Size	Pit Size
C1	8" x 8"	F1	3'-3" x 4'-6"	3'-9" x 5'-0"
C2	8" x 8"	F2	3'-3" x 4'-6"	3'-9" x 5'-0"
C3	8" x 8"	F3	3'-3" x 5'-0"	3'-9" x 5'-6"
C4	8" x 8"	F4	4'-3" x 4'-3"	4'-9" x 4'-9"
C5	8" x 8"	F5	4'-0" x 4'-0"	4'-6" x 4'-6"
C6	8" x 1'-8"	F6	4'-0" x 4'-0"	4'-6" x 4'-6"
C1+C3	---	CF1	3'-3" x 7'-0"	3'-9" x 7'-6"



- NOTES :**
- DIMENSIONS ARE NOT TO BE SCALED.
 - ALL DIMENSIONS ARE TO BE VERIFIED PROPERLY AT SITE.
 - ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
 - Ø - DIA OF TOR STEEL
 - CLEAR COVER TO MAIN REINFORCEMENT(MILD EXPOSURE)
 - FOR BEAMS = 25 mm
 - FOR SLABS = 20 mm
 - LAPPING:
 - LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - DEVELOPMENT LENGTH SHALL BE = 50 x DIA OF BAR.
 - PROVIDE CHAIR RODS WHEREVER NECESSARY
 - PROVIDE SPACER RODS OF 25mm Ø (min) AT 1000mm C/C
 - GRADE OF CONCRETE IS **M20**
 - GRADE OF REINFORCING STEEL IS **Fe415**
 - ALL THE LEVELS MENTIONED ARE FROM THE F.F.L. OF RESPECTIVE FLOOR

- NOTE:**
- * GRID NO. B4, F3, F5 AND G7* COLUMNS UPTO GROUND FLOOR ROOF
 - * FOR ALL SLAB/DUCT PROJECTION REFER ARCHITECTURAL DRAWING.

REV.	DESCRIPTION	REV BY.	DATE	APP BY.

- IMPORTANT NOTES:-**
- ONLY APPROVED DRAWINGS (i.e., SEALED AND DULY SIGNED AS GOOD FOR CONSTRUCTION) MUST BE USED FOR EXECUTION OF WORKS AT SITE.
 - ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER.
 - ANY MODIFICATION IN THE DESIGNER'S STRUCTURAL SYSTEM BEFORE/AFTER COMPLETION OF WORK SHALL BE IMMEDIATELY INTIMATED TO THE CONSULTANT
 - CLIENT / BUILDER ENSURES THAT STRICT ADHERENCE TO THE GOOD CONSTRUCTION PRACTICE IS FOLLOWED AT SITE AS PER THE RELEVANT B.I.S. CODES.
 - STRUCTURAL ENGINEER'S RESPONSIBILITY IS LIMITED TO DESIGNING & ISSUAL OF STRUCTURAL DRAWINGS ONLY.

S. MURUGESH, M.E., F.I.E.,
 Chartered Engineer F-1279323
 Structural Engineer Grade-I
 CMDA/SE/GR-I/2022/05/320

STRUCTURAL ENGINEER

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M/S SHRIRAM PROPERTIES
 AT VALARPURAM, CHENNAI.

CLIENT:-

REFERENCE:
 This Drg. is Prepared Based On The Source Drg.

1. Drg. no. wd-pl-af-025 Dt. 3.11.15 OF

BUILDING: EWS CORE-1

DETAIL: PLINTH BEAM LAYOUT

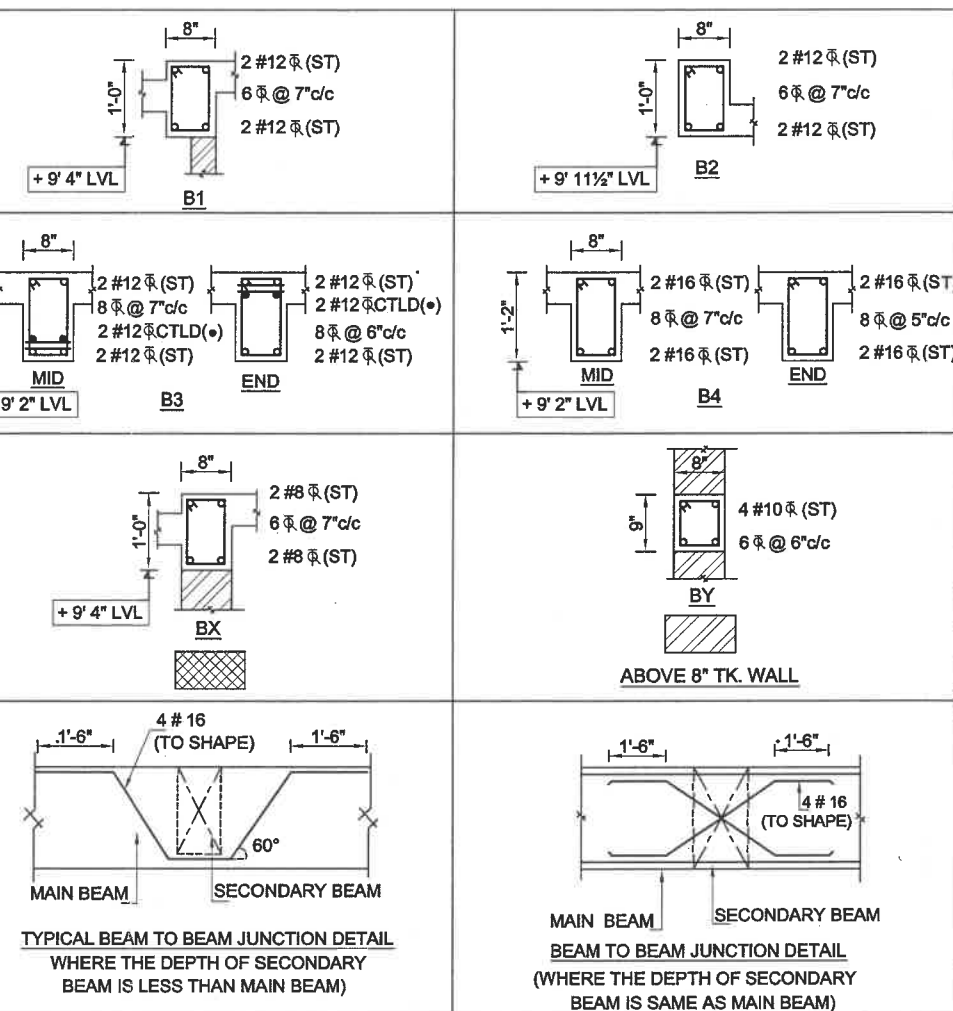
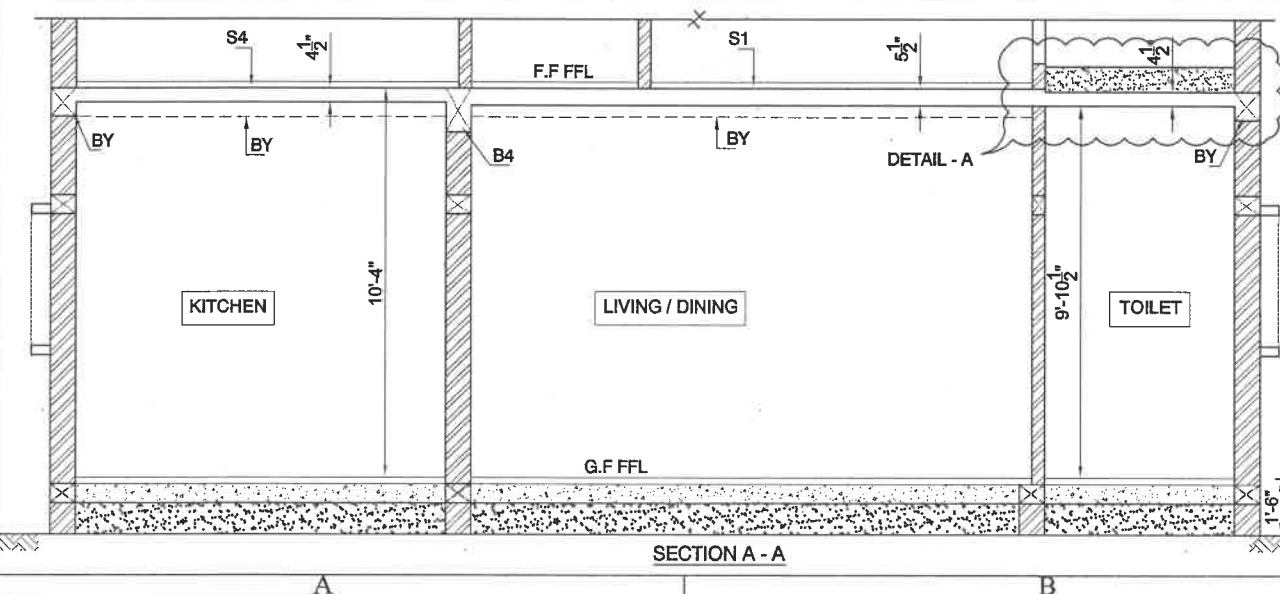
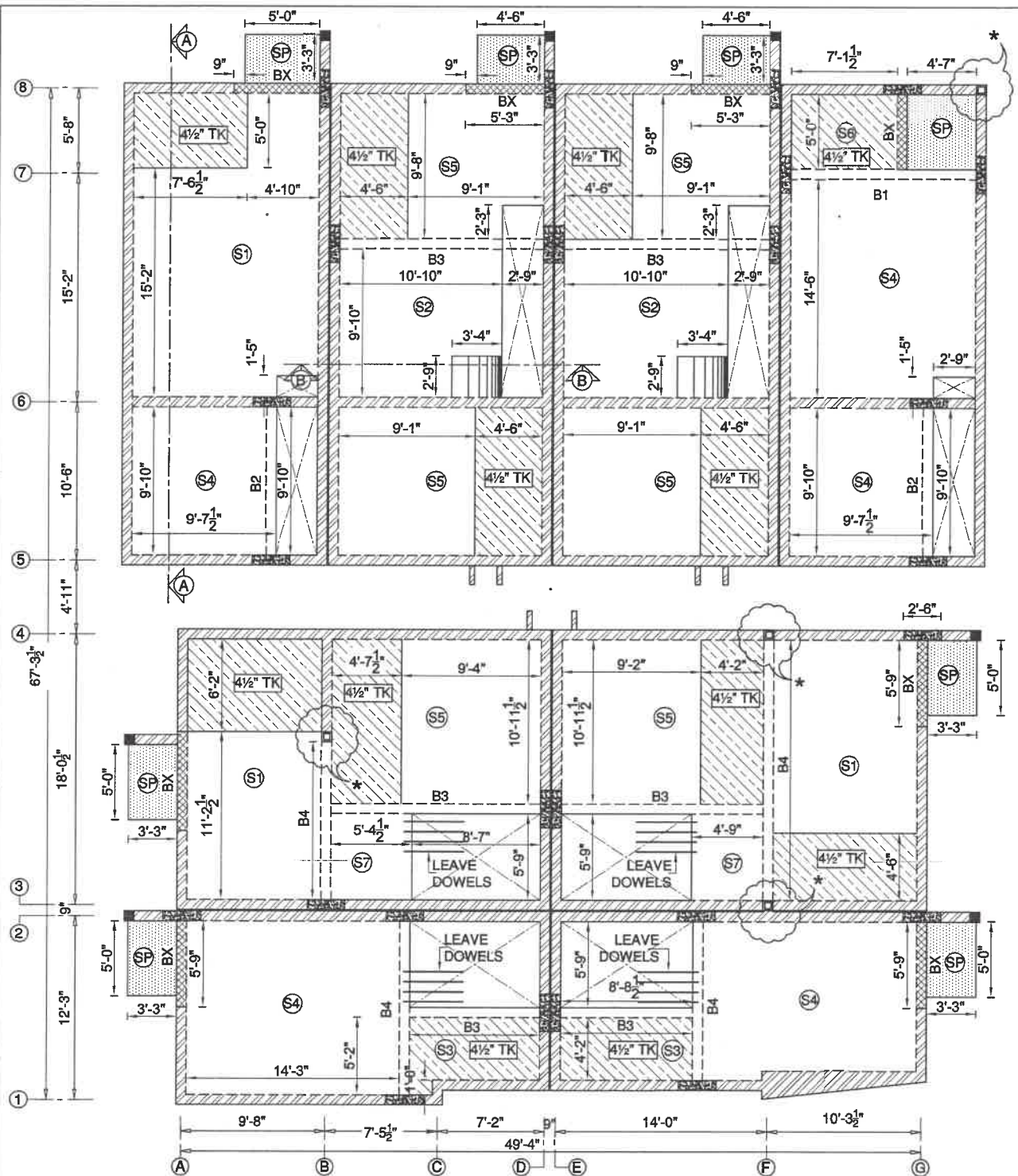
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DATE: 7.12.15 DRG NO: ST-CL-001 CKD BY: B.JAYARAM

SHEET NO: 3 APD BY: S.M

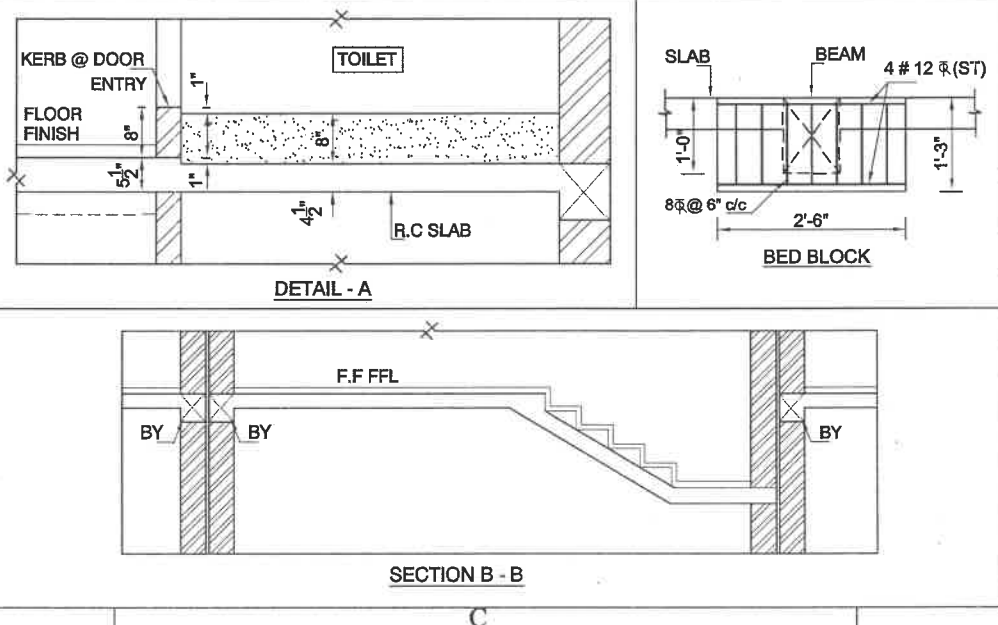
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 Ashok Nagar, Chennai - 600 083
 E-mail : admin@sankarassociates.in
 Website : www.sankarassociates.in

A3 - P



SLAB SCHEDULE:

SLAB NO.	SLAB THICKNESS	SLAB BOTTOM LVL	SHORTER DIRECTION	LONGER DIRECTION
S1	5 1/2"	+ 9' 10 1/2"	8 # @ 5" C/C (alt crank)	8 # @ 7" C/C (straight)
S2	4 1/2"	+ 9' 11 1/2"	8 # @ 6" C/C (alt crank)	8 # @ 7" C/C (alt crank)
S3	4 1/2"	+ 9' 10 1/2"	8 # @ 7" C/C (alt crank)	8 # @ 7" C/C (straight)
S4	4 1/2"	+ 9' 11 1/2"	8 # @ 5" C/C (alt crank)	8 # @ 7" C/C (alt crank)
S5	5 1/2"	+ 9' 10 1/2"	8 # @ 7" C/C (alt crank)	8 # @ 7" C/C (straight)
S6	4 1/2"	+ 9' 10 1/2"	8 # @ 7" C/C (Top & Bottom)	8 # @ 7" C/C (Top & Bottom)
S7	4 1/2"	+ 9' 11 1/2"	8 # @ 7" C/C (Top & Bottom)	8 # @ 7" C/C (Top & Bottom)
SP	4 1/2"	+ 9' 8 1/2"	8 # @ 7" C/C (Top & Bottom)	8 # @ 7" C/C (Top & Bottom)



NOTES:

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- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
- Ø - DIA OF TOR STEEL
- CLEAR COVER TO MAIN REINFORCEMENT (MILD EXPOSURE)
 - FOR BEAMS = 25 mm
 - FOR SLABS = 20 mm
- LAPING:
 - LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - DEVELOPMENT LENGTH SHALL BE = 50 x DIA OF BAR.
- PROVIDE CHAIR RODS WHEREVER NECESSARY
- PROVIDE SPACER RODS OF 25mm Ø (min) AT 1000mm C/C
- GRADE OF CONCRETE IS **M 20**
- GRADE OF REINFORCING STEEL IS **Fe 415**
- ALL THE LEVELS MENTIONED ARE FROM THE F.F.L. OF THE RESPECTIVE FLOOR
- FLOOR FINISH ALLOWANCE SHALL BE 50 / 75 mm FROM THE RAW SLAB AS PER SITE INSTRUCTIONS.
- REINFORCEMENT FABRICATION SHOULD BE DONE AS PER STANDARD DUCTILE DETAIL PROVIDED VIDE DRG. NO.
- PROVISION OF CONDUITS / SLEEVES / CORECUTS TO BE PROVIDED AS PER SERVICE (ELECTRICAL / PLUMBING / HVAC) CONSULTANT'S DETAIL / DRAWINGS DULY APPROVED BY THE ARCHITECT / STRUCTURAL ENGINEER

NOTE:

- * GRID NO. B4, F3, F5 AND G7 COLUMNS UPTO GROUND FLOOR ROOF
- * FOR ALL SLAB/DUCT PROJECTION REFER ARCHITECTURAL DRAWING.

REV.	DESCRIPTION	REV BY.	DATE	APP BY.
RELEASE STATUS	DATE	SIGNATURE		
PRELIMINARY/ TENDER				
FOR CONSTRUCTION				

IMPORTANT NOTES:-

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S. MURUGESH, M.E., F.I.E.,
Chartered Engineer F-1279323
Structural Engineer Grade-I
CMDA/SE/GR-1/2022/05/320

STRUCTURAL ENGINEER

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M/S SHRIRAM PROPERTIES
AT VALARPURAM, CHENNAI.

CLIENT:-

REFERENCE:
This Drg. is Prepared Based On The Source Drg.
1. Drg. no. wd-pl-af-025 Dt. 3.11.15 OF

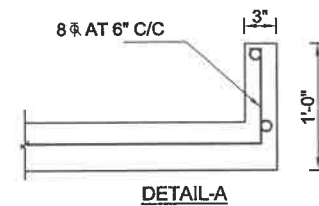
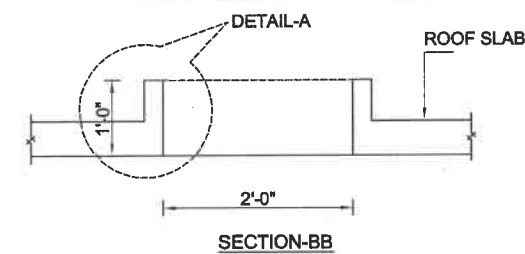
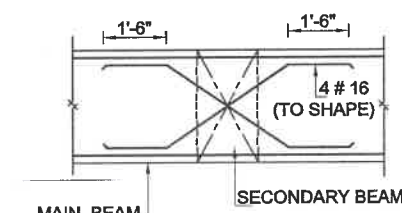
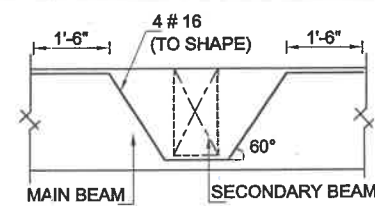
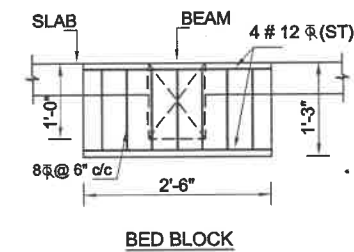
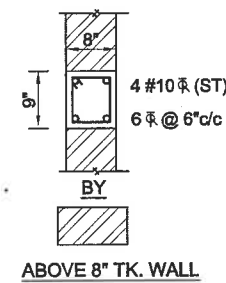
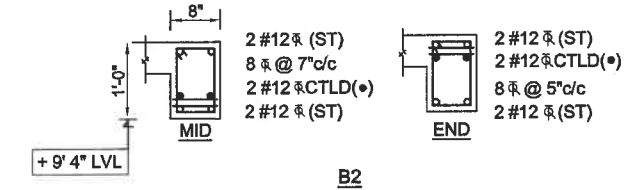
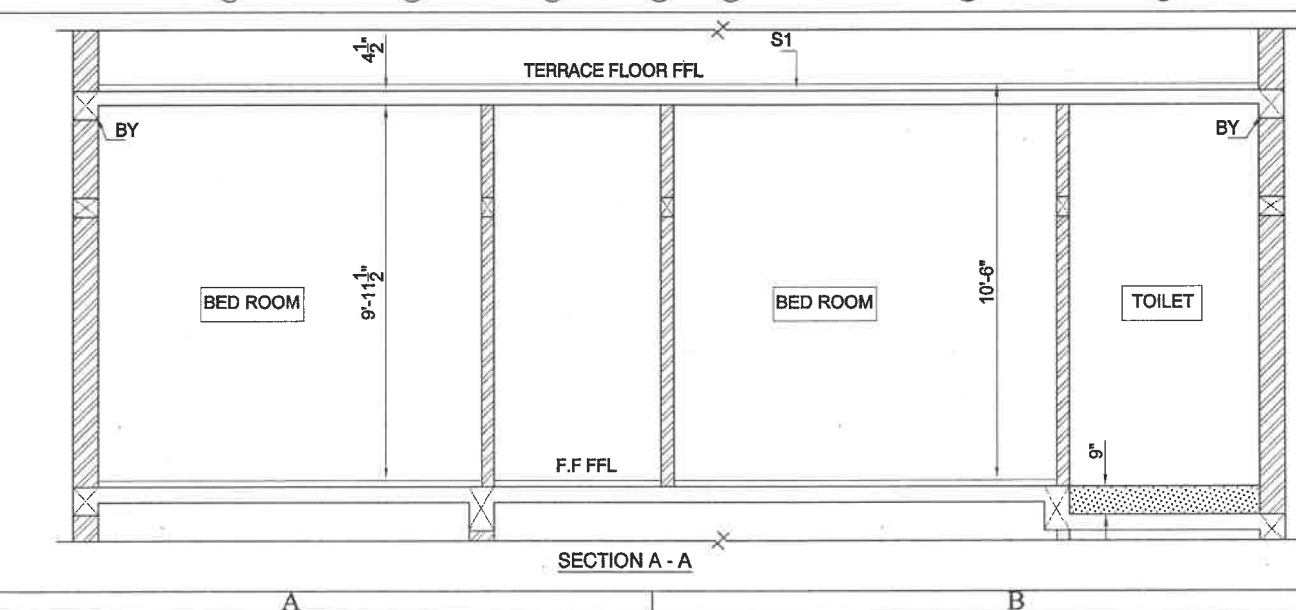
BUILDING: EWS CORE-1

DETAIL: GROUND FLOOR ROOF BEAM & SLAB LAYOUT

SCALE: 1"=8'-0"	JOB NO: 13-RMA-3A	REV	DRN BY: ALLEN
DATE: 7.12.15	DRG NO: ST-CL-001		CKD BY: B.JAYARAM
	SHEET NO: 5		APD BY: S.M

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E-mail : admin@sankarassociates.in
Website : www.sankarassociates.in

A3 - R



SLAB NO.	SLAB THICKNESS	SLAB BOTTOM LVL	SHORTER DIRECTION	LONGER DIRECTION
S1	4½"	+ 9' 11½"	8 ̸@ 5" C/C (alt crank)	6 ̸@ 7" C/C (straight)
S2	4½"	+ 9' 11½"	8 ̸@ 6" C/C (alt crank)	6 ̸@ 7" C/C (straight)
S3	5"	+ 9' 11"	8 ̸@ 6" C/C (alt crank)	8 ̸@ 6" C/C (alt crank)

- NOTES :**
1. DIMENSIONS ARE NOT TO BE SCALED.
 2. ALL DIMENSIONS ARE TO BE VERIFIED PROPERLY AT SITE.
 3. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
 4. ϕ - DIA OF TOR STEEL
 5. CLEAR COVER TO MAIN REINFORCEMENT (MILD EXPOSURE)
 - a) FOR BEAMS = 25 mm
 - b) FOR SLABS = 20 mm
 6. LAPPING:
 - a) LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - b) DEVELOPMENT LENGTH SHALL BE = 50 x DIA OF BAR.
 7. PROVIDE CHAIR RODS WHEREVER NECESSARY
 8. PROVIDE SPACER RODS OF 25mm ϕ (min) AT 1000mm C/C
 9. GRADE OF CONCRETE IS **M 20**
 10. GRADE OF REINFORCING STEEL IS **Fe 415**
 11. ALL THE LEVELS MENTIONED ARE FROM THE F.F.L. OF THE RESPECTIVE FLOOR
 12. FLOOR FINISH ALLOWANCE SHALL BE 50 / 75 mm FROM THE RAW SLAB AS PER SITE INSTRUCTIONS.
 13. REINFORCEMENT FABRICATION SHOULD BE DONE AS PER STANDARD DUCTILE DETAIL PROVIDED YIDE DRG. No.
 14. PROVISION OF CONDUITS / SLEEVES / CORECUTS TO BE PROVIDED AS PER SERVICE (ELECTRICAL / PLUMBING / HVAC) CONSULTANT'S DETAIL / DRAWINGS DULY APPROVED BY THE ARCHITECT / STRUCTURAL ENGINEER

NOTE:

* FOR ALL ROOF CUT OUT, SLAB/DUCT PROJECTION REFER ARCHITECTURAL DRAWING.

REV.,	DESCRIPTION	REV BY.,	DATE	APP BY.,
RELEASE STATUS		DATE	SIGNATURE	
PRELIMINARY/ TENDER				
FOR CONSTRUCTION				

IMPORTANT NOTES:-

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S. MURUGESH, M.E., FIE.,
Chartered Engineer F-1279323
Structural Engineer Grade-I
CMDA/SE/GR-1/2022/05/320

STRUCTURAL ENGINEER

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M/S SHRIRAM PROPERTIES
AT VALARPURAM, CHENNAI.

REFERENCE:

This Drg. is Prepared Based On The Source Drg.

1. Drg. no. wd-pl-af-025 Dt. 3.11.15 OF



BUILDING: EWS CORE-1

DETAIL: FIRST FLOOR ROOF BEAM & SLAB LAYOUT

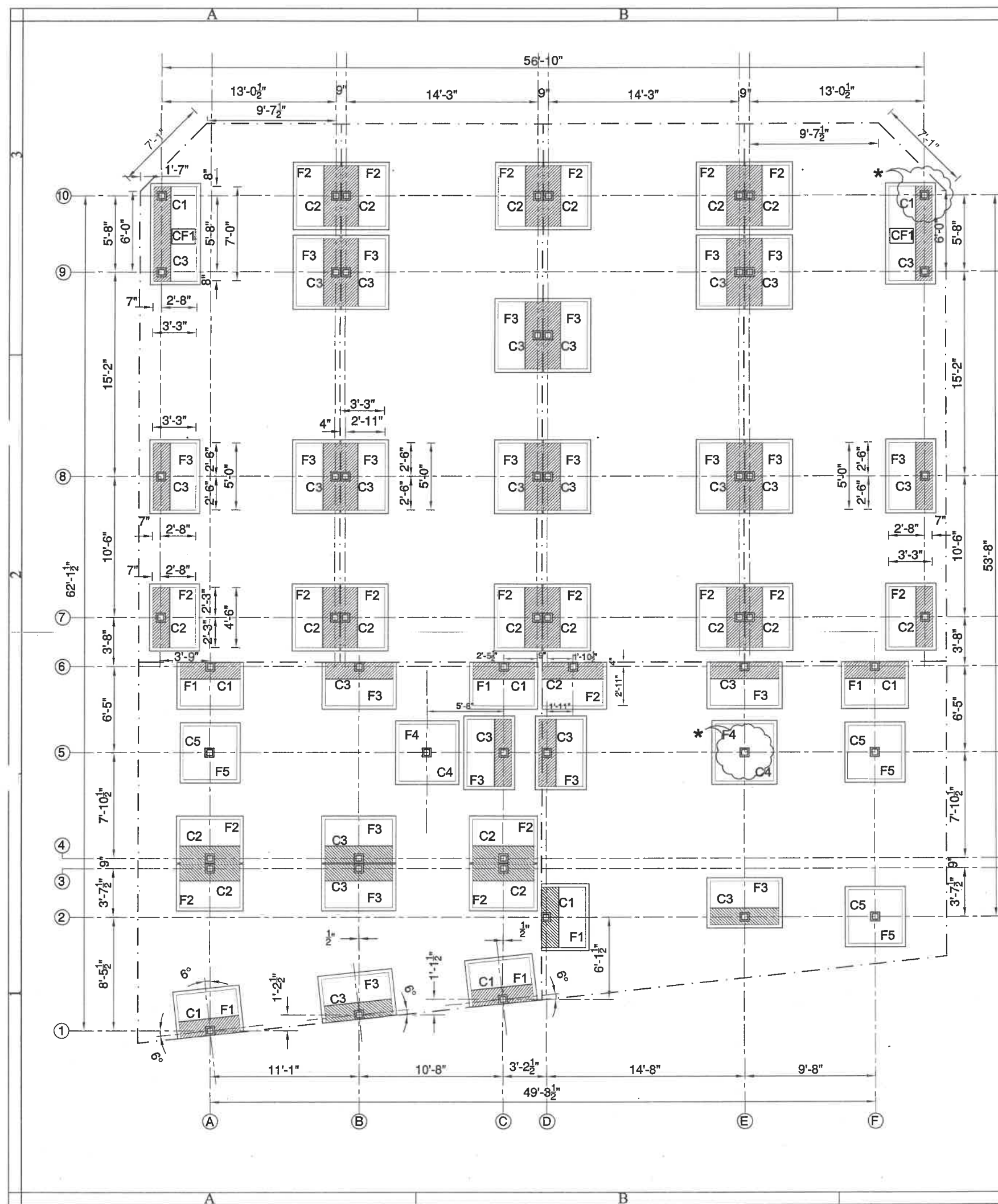
SCALE: 1"=8'-0"	JOB NO: 13-RMA-3A	REV	DRN BY: ALLEN
DATE: 7.12.15	DRG NO: ST-CL-001		CKD BY: B.JAYARAM
	SHEET NO: 7		APD BY: S.M



A3 - R

EWS - CORE – II
VILLAS – 73 TO 79

CLIENT:	M/S SHRIRAM PROPERTIES	DESIGN:	G + 1 Floor	ARCHITECT & PLANNERS SANKAR & ASSOCIATES 27 SENGUPTA STREET, RAMNAGAR, COIMBATORE.
STRUCTURE NAME :	RESIDENTIAL VILLAS	TITLE:	REPORT ON	
PLACE:	AT VALARPURAM, CHENNAI.		STRUCTURAL DESIGN.	



NOTES :

1. THE DIMENSIONS ARE NOT TO BE SCALED.
2. ALL DIMENSIONS ARE TO BE VERIFIED PROPERLY AT SITE.
3. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
4. ϕ - DIA OF TOR STEEL
5. CLEAR COVER TO MAIN REINFORCEMENT (MILD EXPOSURE)
 - a) FOR FOOTINGS = 50 mm (ALL AROUND)
 - b) FOR COLUMNS = 40 mm
6. LAPPING:
 - a) LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - b) DEVELOPMENT LENGTH SHALL BE = 48 x DIA OF BAR.
7. ALL ISOLATED FOOTINGS SHALL BE CONCENTRIC WITH COLUMN UNLESS OTHERWISE SPECIFIED
8. GRADE OF CONCRETE IS **M 20**
9. GRADE OF REINFORCING STEEL IS **Fe 415**
10. ASSUMED SBC OF SOIL = 125 KN / Sqm.
11. MINIMUM DEPTH OF FOUNDATION = 2.0 m BELOW NGL
12. THIS STRUCTURE IS DESIGNED FOR G+ 1 FLOOR

REV.	DESCRIPTION	REV BY.	DATE	APP BY.

IMPORTANT NOTES:-

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STRUCTURAL ENGINEER

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M/S SHRIRAM PROPERTIES AT VALARPURAM, CHENNAI.

CLIENT:-

REFERENCE:

This Drg. is Prepared Based On The Source Drg.

1. Drg. no. wd-pl-af-022 Dt. 10.12.15 OF



BUILDING: EWS CORE-2

DETAIL: CENTER LINE AND FOOTING LAYOUT

SCALE: 1"=8'-0"	JOB NO: 13-RMA-3A	REV	DRN BY: ALLEN
DATE: 21.12.15	DRG NO: ST-CL-003		CKD BY: B.JAYARAM
	SHEET NO: 1		APD BY: S.M

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architecture . engineering . interior design
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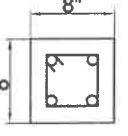
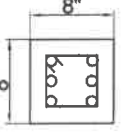
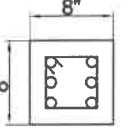
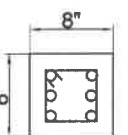
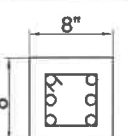
A3 - F

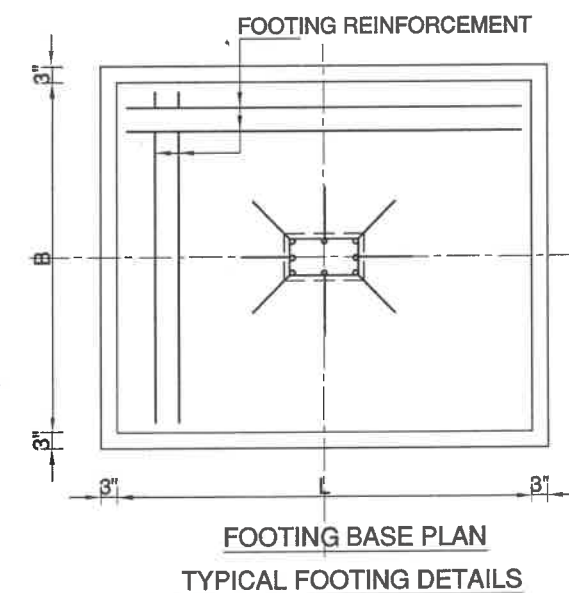
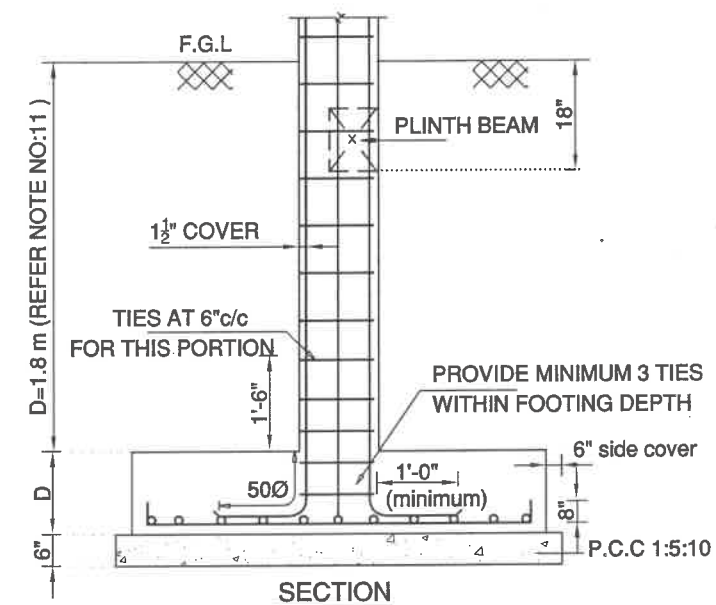
NOTES:

- * GRID NO. E5 AND F10 COLUMNS TO BE RAISED ABOVE PLINTH LEVEL AND OTHER COLUMNS ARE STUB COLUMN TO BE TERMINATED AT PLINTH BEAM LEVEL

SCHEDULE OF COLUMNS & FOOTINGS

Type	Column Size	Type	Footing Size	Pit Size
C1	8" x 8"	F1	3'-3" x 4'-6"	3'-9" x 5'-0"
C2	8" x 8"	F2	3'-3" x 4'-6"	3'-9" x 5'-0"
C3	8" x 8"	F3	3'-3" x 5'-0"	3'-9" x 5'-6"
C4	8" x 8"	F4	4'-3" x 4'-3"	4'-9" x 4'-9"
C5	8" x 8"	F5	4'-0" x 4'-0"	4'-6" x 4'-6"
C1+C3	---	CF1	3'-3" x 7'-0"	3'-9" x 7'-6"

A			B			
TYPE	COLUMN		TYPE	FOOTING		
	COLUMN DETAILS [CLEAR COVER 40 MM]	TIES		L	B	D
C1	 4 # 12	 8 @ 8" c/c (1 TIE)	F1	3'-3"	4'-6"	15"
C2	 6 # 12	 8 @ 8" c/c (1 TIE)	F2	3'-3"	4'-6"	15"
C3	 6 # 12	 8 @ 8" c/c (1 TIE)	F3	3'-3"	5'-0"	15"
C4	 6 # 12	 8 @ 8" c/c (1 TIE)	F4	4'-3"	4'-3"	12"
C5	 6 # 12	 8 @ 8" c/c (1 TIE)	F5	4'-0"	4'-6"	12"
C1+C3	--	--	CF1	3'-3"	7'-0"	15"
						10 @ 7" c/c Top & Bottom



NOTES :

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2. ALL DIMENSIONS ARE TO BE VERIFIED PROPERLY AT SITE.
3. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
4. - DIA OF TOR STEEL
5. CLEAR COVER TO MAIN REINFORCEMENT (MILD EXPOSURE)
 - a) FOR FOOTINGS = 50 mm (ALL AROUND)
 - b) FOR COLUMNS = 40 mm
6. LAPPING:
 - a) LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - b) DEVELOPMENT LENGTH SHALL BE = 48 x DIA OF BAR.
7. ALL ISOLATED FOOTINGS SHALL BE CONCENTRIC WITH COLUMN UNLESS OTHERWISE SPECIFIED
8. GRADE OF CONCRETE IS **M 20**
9. GRADE OF REINFORCING STEEL IS **Fe 415**
10. ASSUMED SBC OF SOIL = 125 KN / Sqm.
11. MINIMUM DEPTH OF FOUNDATION = 2.0 m BELOW NGL
12. THIS STRUCTURE IS DESIGNED FOR G+1 FLOOR

REV.	DESCRIPTION	REV BY.	DATE	APP BY.
RELEASE STATUS	DATE	SIGNATURE		
PRELIMINARY/ TENDER				
FOR CONSTRUCTION				

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S. MURUGESH, M.E., FIE,
Chartered Engineer F-1279323
Structural Engineer Grade-I
CMDA/SE/GR-1/2022/05/320

STRUCTURAL ENGINEER

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M/S SHRIRAM PROPERTIES AT VALARPURAM, CHENNAI.

CLIENT:-

REFERENCE:

This Drg. is Prepared Based On The Source Drg.

1. Drg. no. wd-pl-af-022 Dt. 10.12.15 OF

NP

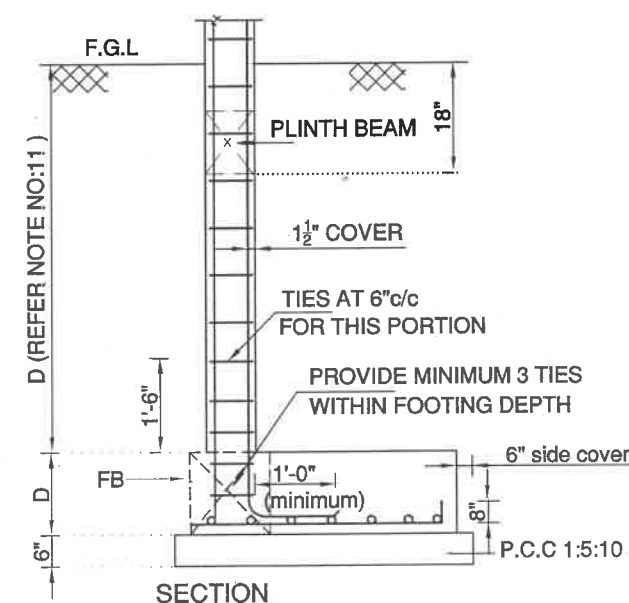
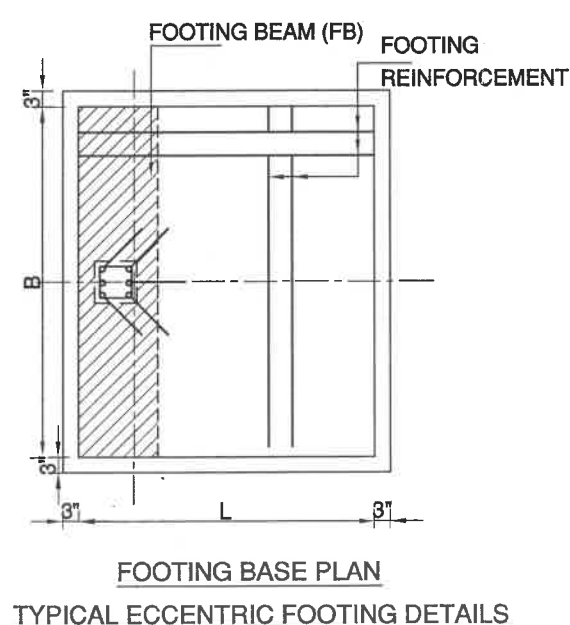
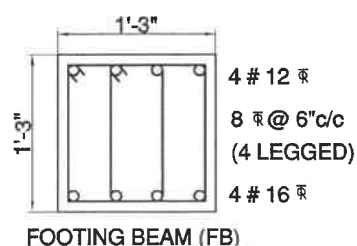
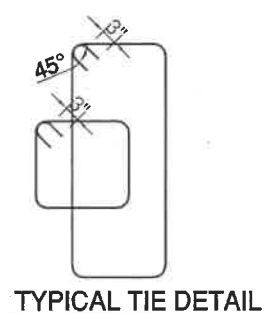
BUILDING: EWS CORE-2

DETAIL: COLUMN & FOOTING RFT DETAIL

SCALE: 1"=8'-0"	JOB NO: 13-RMA-3A	REV	DRN BY: ALLEN
DATE: 21.12.15	DRG NO: ST-CL-003		CKD BY: B.JAYARAM
	SHEET NO: 1		APD BY: S.M

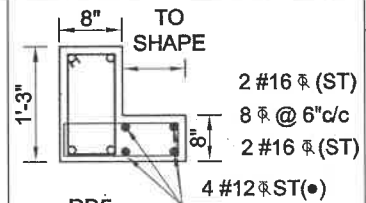
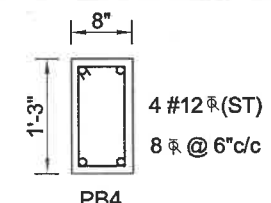
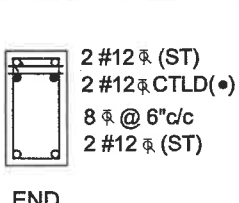
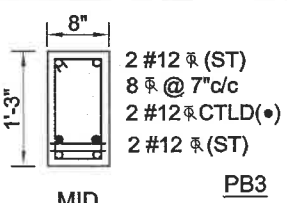
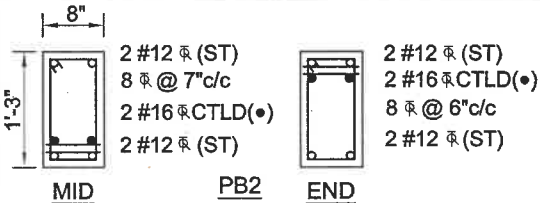
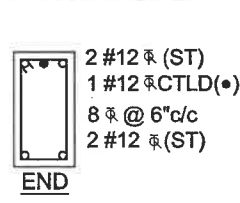
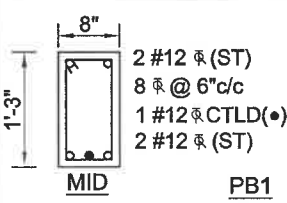
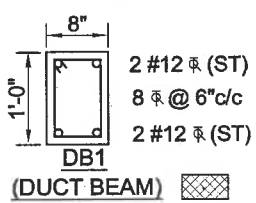
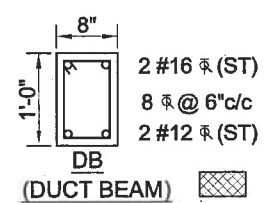
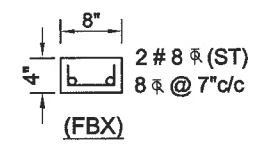
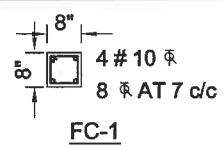
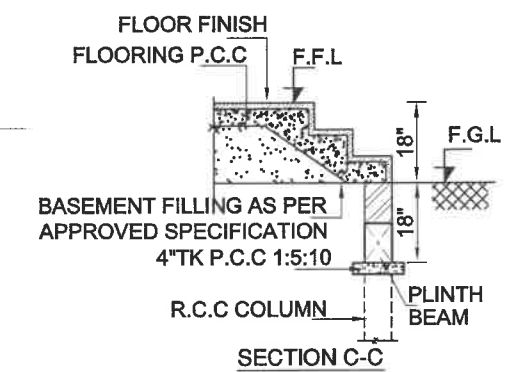
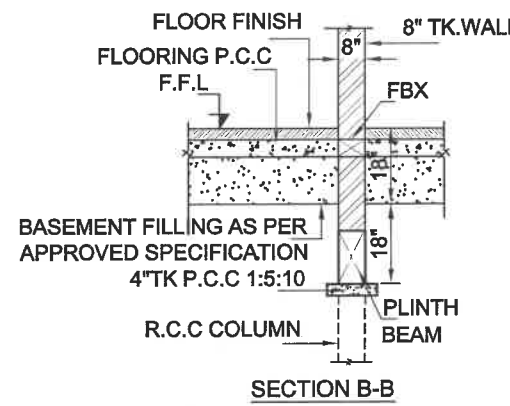
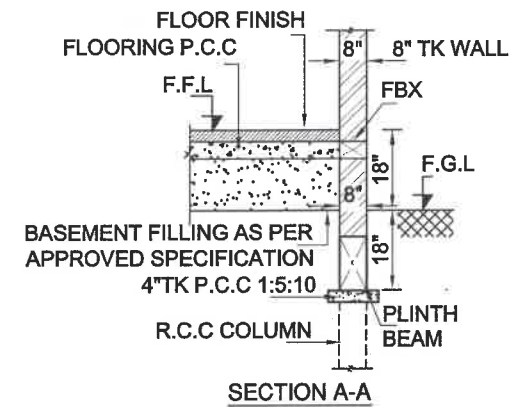
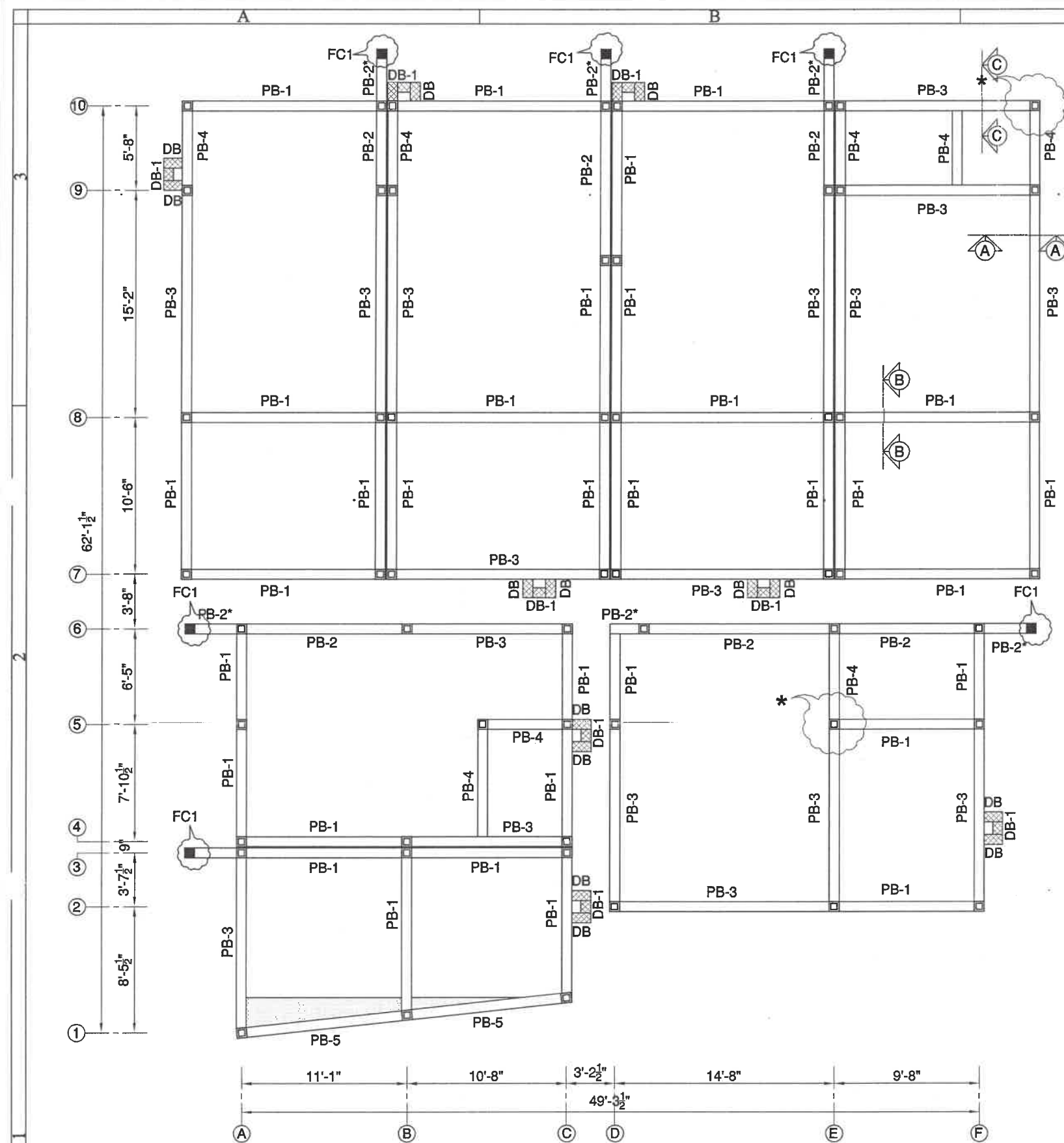
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Ashok Nagar, Chennai - 600 083
E-mail : admin@sankarassociates.in
Website : www.sankarassociates.in

A3 - F



NOTES:

- * GRID NO. E5 AND F10 COLUMNS TO BE RAISED ABOVE PLINTH LEVEL AND OTHER COLUMNS ARE STUB COLUMN TO BE TERMINATED AT PLINTH BEAM LEVEL



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 - ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
 - DIA OF TOR STEEL
 - CLEAR COVER TO MAIN REINFORCEMENT (MILD EXPOSURE)
 - FOR BEAMS = 25 mm
 - FOR SLABS = 20 mm
 - LAPPING:
 - LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - DEVELOPMENT LENGTH SHALL BE = 50 x DIA OF BAR.
 - PROVIDE CHAIR RODS WHEREVER NECESSARY
 - PROVIDE SPACER RODS OF 25mm Ø (min) AT 1000mm C/C
 - GRADE OF CONCRETE IS **M 20**
 - GRADE OF REINFORCING STEEL IS **Fe 415**
 - ALL THE LEVELS MENTIONED ARE FROM THE F.F.L. OF RESPECTIVE FLOOR

NOTE:

- * GRID NO. E5 AND F10 COLUMNS UPTO GROUND FLOOR ROOF
- * FOR ALL SLAB/DUCT PROJECTION REFER ARCHITECTURAL DRAWING.

REV.	DESCRIPTION	REV BY.	DATE	APP BY.
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M/S SHRIRAM PROPERTIES
 AT VALARPURAM, CHENNAI.

CLIENT:-
REFERENCE:
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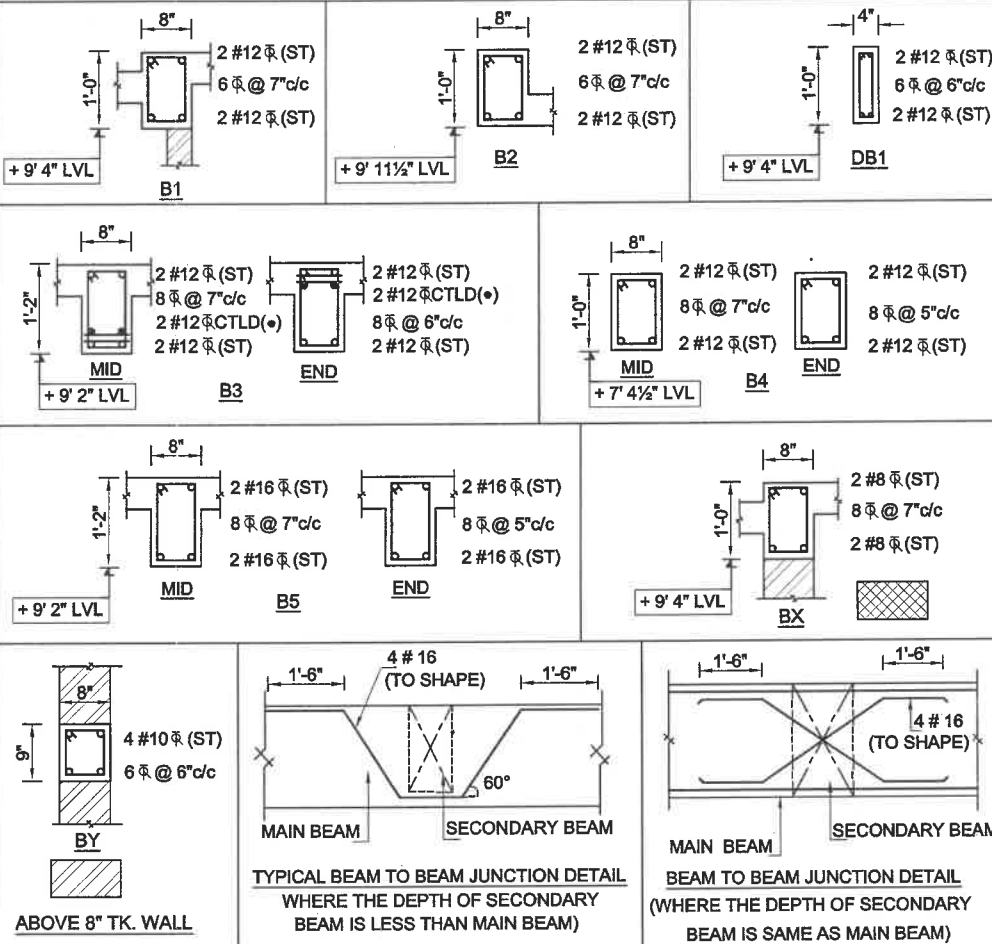
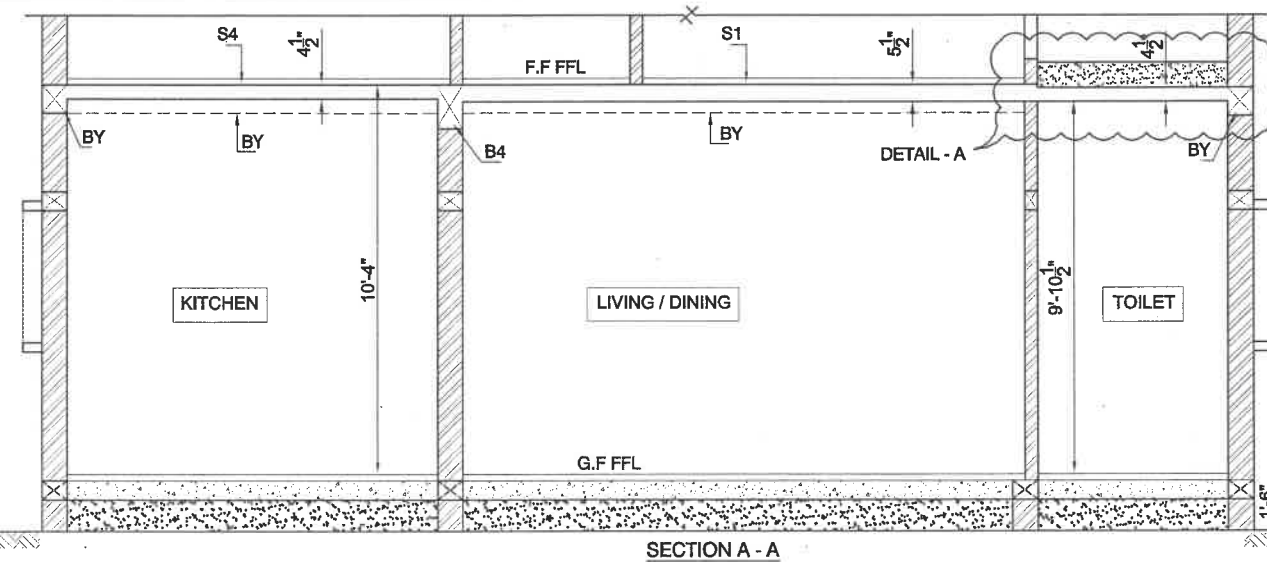
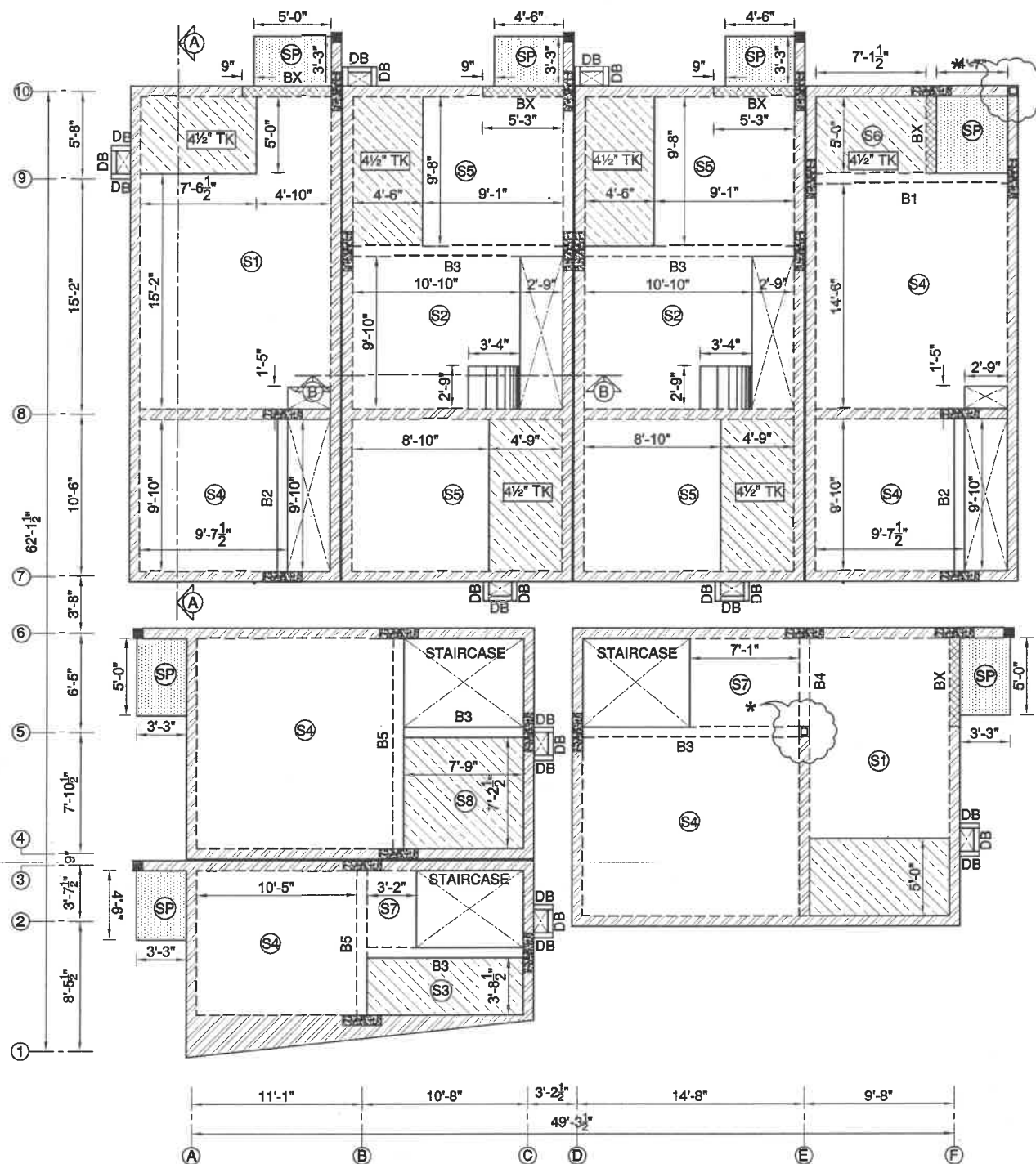
BUILDING: EWS CORE-2

DETAIL: PLINTH BEAM LAYOUT

SCALE: 1"=8'-0"	JOB NO: 13-RMA-3A	REV	DRN BY: ALLEN
DATE: 7.12.15	DRG NO: ST-CL-001		CKD BY: B.JAYARAM
	SHEET NO: 3		APD BY: S.M

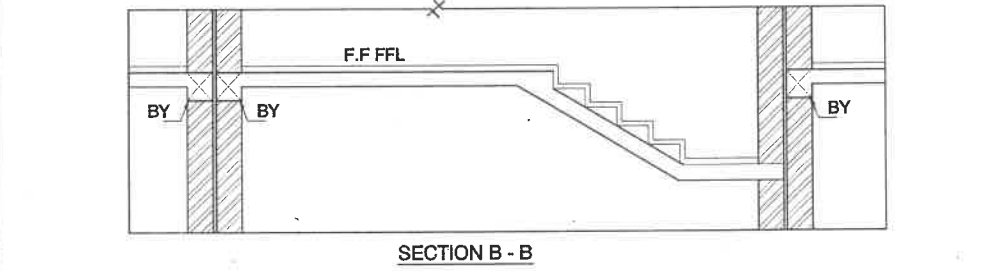
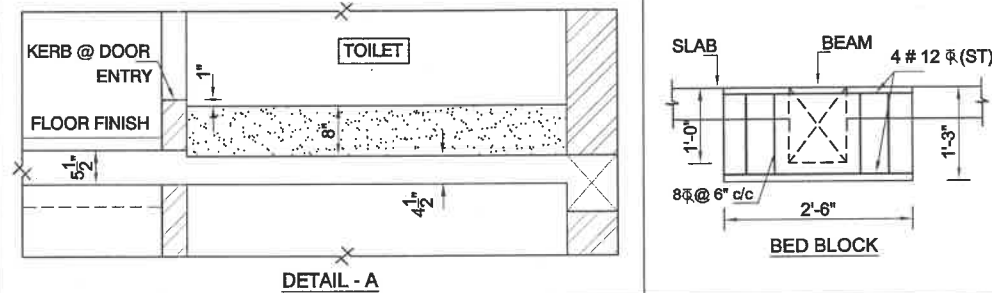
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 Website : www.sankarassociates.in

A3 - P



SLAB SCHEDULE:

SLAB NO.	SLAB THICKNESS	SLAB BOTTOM LVL	SHORTER DIRECTION	LONGER DIRECTION
S1	5 1/2"	+ 9' 10 1/2"	8 @ 5" C/C (alt crank)	8 @ 7" C/C (straight)
S2	4 1/2"	+ 9' 11 1/2"	8 @ 6" C/C (alt crank)	8 @ 7" C/C (alt crank)
S3	4 1/2"	+ 9' 10 1/2"	8 @ 7" C/C (alt crank)	8 @ 7" C/C (straight)
S4	4 1/2"	+ 9' 11 1/2"	8 @ 6" C/C (alt crank)	8 @ 7" C/C (alt crank)
S5	5 1/2"	+ 9' 10 1/2"	8 @ 7" C/C (alt crank)	8 @ 7" C/C (straight)
S6	4 1/2"	+ 9' 10 1/2"	8 @ 7" C/C (Top & Bottom)	8 @ 7" C/C (Top & Bottom)
S7	4 1/2"	+ 9' 11 1/2"	8 @ 7" C/C (Top & Bottom)	8 @ 7" C/C (Top & Bottom)
S8	4 1/2"	+ 9' 10 1/2"	8 @ 7" C/C (Top & Bottom)	8 @ 7" C/C (Top & Bottom)
SP	4 1/2"	+ 9' 8 1/2"	8 @ 7" C/C (Top & Bottom)	8 @ 7" C/C (Top & Bottom)



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 - ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
 - DIA OF TOR STEEL
 - CLEAR COVER TO MAIN REINFORCEMENT (MILD EXPOSURE)
 - FOR BEAMS = 25 mm
 - FOR SLABS = 20 mm
 - LAPING:
 - LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - DEVELOPMENT LENGTH SHALL BE = 50 x DIA OF BAR.
 - PROVIDE CHAIR RODS WHEREVER NECESSARY
 - PROVIDE SPACER RODS OF 25mm Ø (min) AT 1000mm C/C
 - GRADE OF CONCRETE IS **M 20**
 - GRADE OF REINFORCING STEEL IS **Fe 415**
 - ALL THE LEVELS MENTIONED ARE FROM THE F.F.L. OF THE RESPECTIVE FLOOR
 - FLOOR FINISH ALLOWANCE SHALL BE 50 / 75 mm FROM THE RAW SLAB AS PER SITE INSTRUCTIONS.
 - REINFORCEMENT FABRICATION SHOULD BE DONE AS PER STANDARD DUCTILE DETAIL PROVIDED VIDE DRG. NO.
 - PROVISION OF CONDUITS / SLEEVES / CORECUTS TO BE PROVIDED AS PER SERVICE (ELECTRICAL / PLUMBING / HVAC) CONSULTANT'S DETAIL / DRAWINGS DULY APPROVED BY THE ARCHITECT / STRUCTURAL ENGINEER

NOTE:
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Structural Engineer Grade-I
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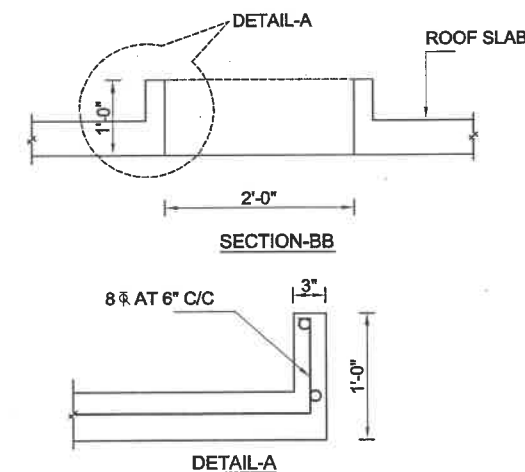
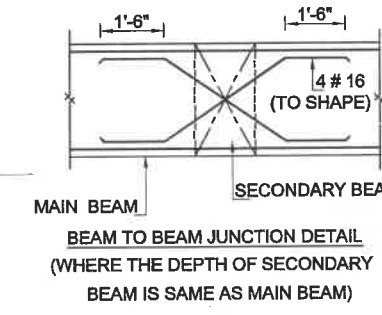
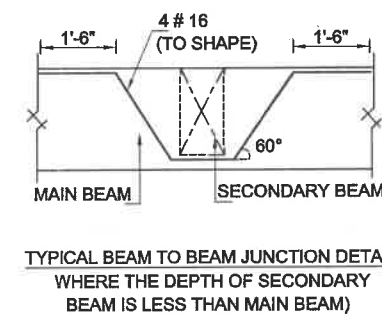
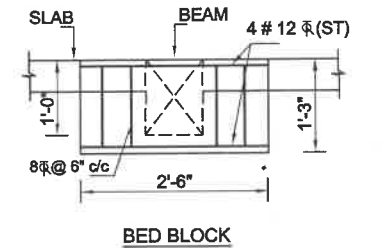
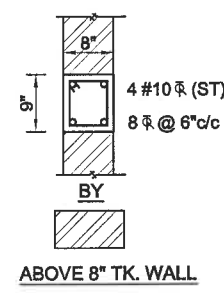
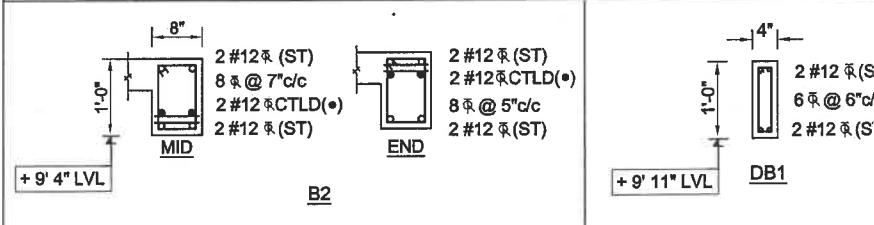
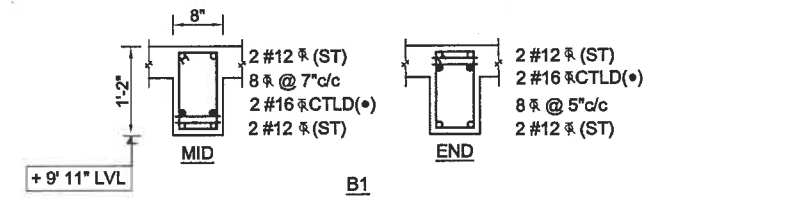
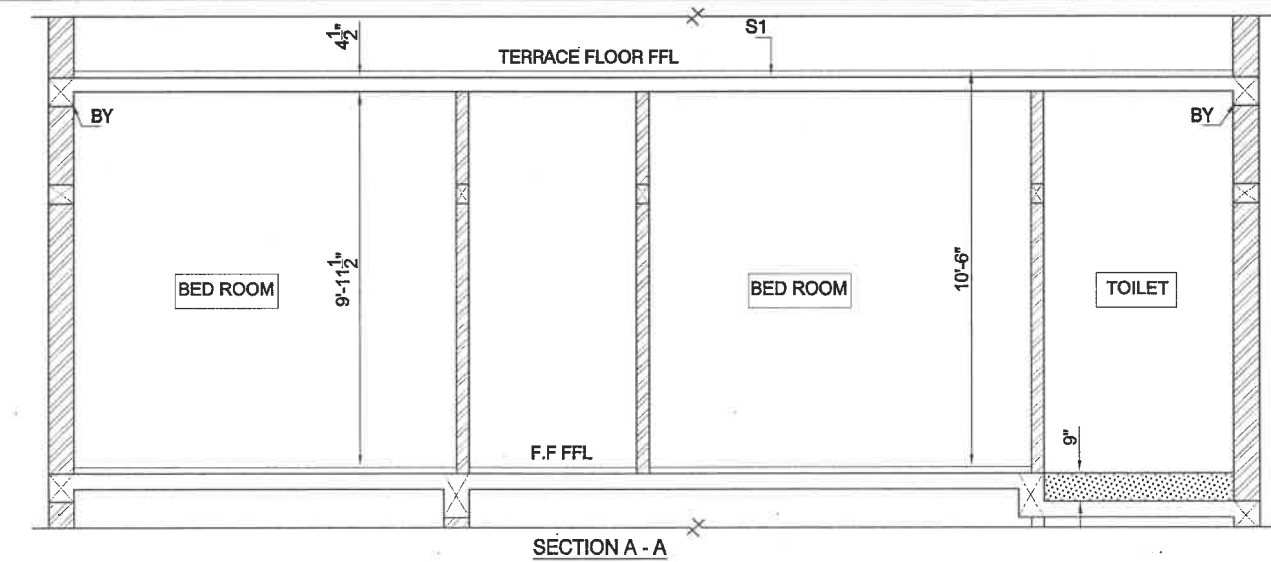
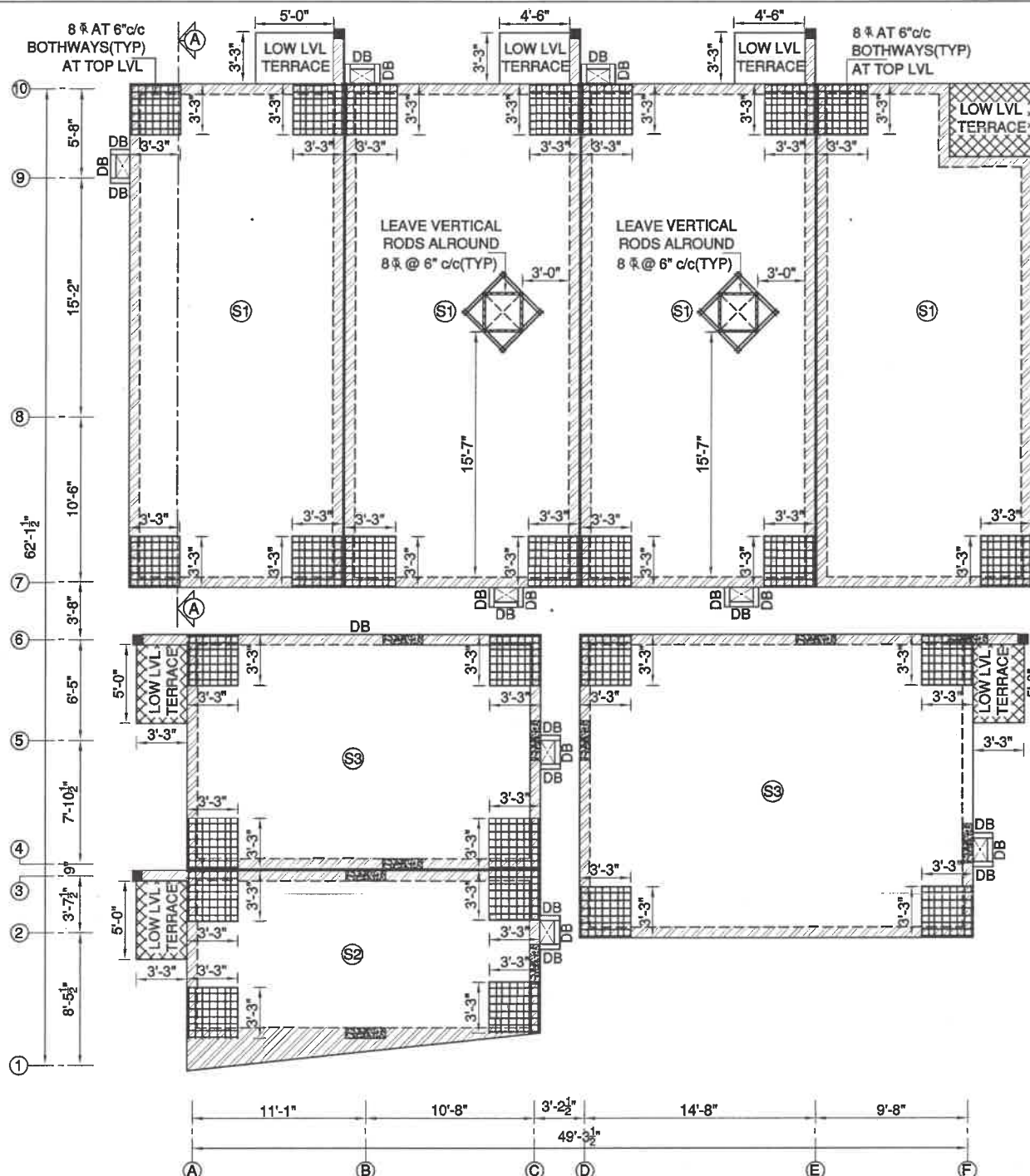
M/S SHRIRAM PROPERTIES
AT VALARPURAM, CHENNAI.

REFERENCE:
This Drg. is Prepared Based On The Source Drg.
1. Drg. no. wd-pl-af-022 Dt. 10.12.15 OF

BUILDING: EWS CORE-2
DETAIL: GROUND FLOOR ROOF BEAM & SLAB LAYOUT
SCALE: 1"=8'-0"
DATE: 21.12.15
JOB NO: 13-RMA-3A
DRG NO: ST-CL-003
SHEET NO: 5
REV: DRN BY: ALLEN
CKD BY: B.JAYARAM
APD BY: S.M

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A3 - R



SLAB SCHEDULE:

SLAB NO.	SLAB THICKNESS	SLAB BOTTOM LVL	SHORTER DIRECTION	LONGER DIRECTION
S1	4 1/2"	+ 9' 11 1/2"	8 # @ 5" C/C (alt crank)	8 # @ 7" C/C (straight)
S2	4 1/2"	+ 9' 11 1/2"	8 # @ 6" C/C (alt crank)	8 # @ 7" C/C (straight)
S3	5"	+ 9' 11"	8 # @ 6" C/C (alt crank)	8 # @ 6" C/C (alt crank)

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 - ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
 - DIA OF TOR STEEL
 - CLEAR COVER TO MAIN REINFORCEMENT (MILD EXPOSURE)
 - FOR BEAMS = 25 mm
 - FOR SLABS = 20 mm
 - LAPING:
 - LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - DEVELOPMENT LENGTH SHALL BE = 50 x DIA OF BAR.
 - PROVIDE CHAIR RODS WHEREVER NECESSARY
 - PROVIDE SPACER RODS OF 25mm Ø (min) AT 1000mm C/C
 - GRADE OF CONCRETE IS **M 20**
 - GRADE OF REINFORCING STEEL IS **Fe 415**
 - ALL THE LEVELS MENTIONED ARE FROM THE F.F.L OF THE RESPECTIVE FLOOR
 - FLOOR FINISH ALLOWANCE SHALL BE 50 / 75 mm FROM THE RAW SLAB AS PER SITE INSTRUCTIONS.
 - REINFORCEMENT FABRICATION SHOULD BE DONE AS PER STANDARD DUCTILE DETAIL PROVIDED VIDE DRG. NO.
 - PROVISION OF CONDUITS / SLEEVES / CORECUTS TO BE PROVIDED AS PER SERVICE (ELECTRICAL / PLUMBING / HVAC) CONSULTANT'S DETAIL / DRAWINGS DULY APPROVED BY THE ARCHITECT / STRUCTURAL ENGINEER

NOTE:
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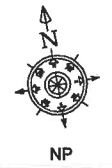
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M/S SHRIRAM PROPERTIES
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CLIENT:-

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1. Drg. no. wd-pl-af-022 Dt. 10.12.15 OF



BUILDING: EWS CORE-2

DETAIL: FIRST FLOOR ROOF BEAM & SLAB LAYOUT

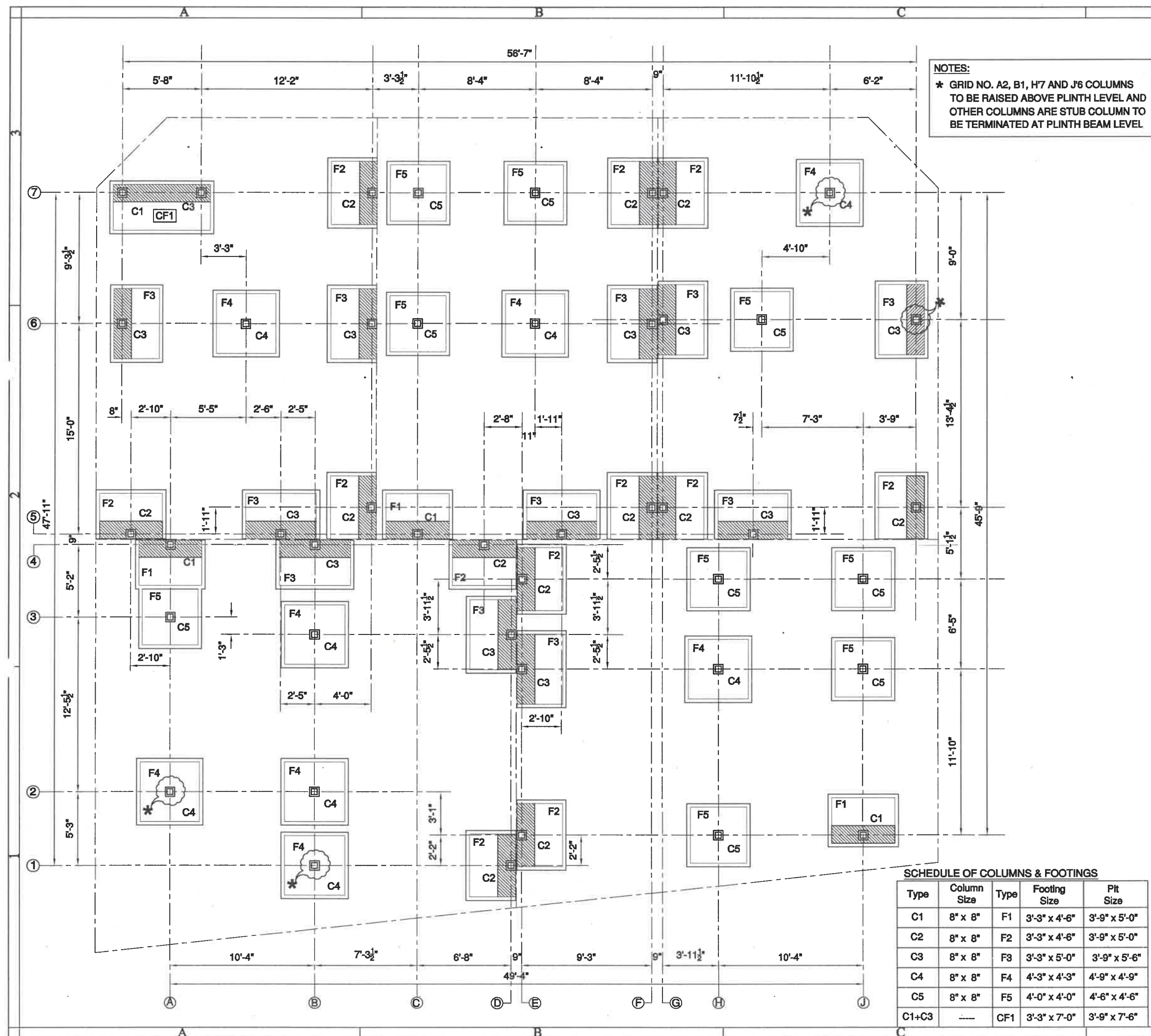
SCALE: 1"=8'-0"	JOB NO: 13-RMA-3A	REV	DRN BY: ALLEN
DATE: 7.12.15	DRG NO: ST-CL-001		CKD BY: B.JAYARAM
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Phone : +91-422-2230890
Branch: 8, 34th Street, Near Puthoor School,
Ashok Nagar, Chennai - 600 083
E-mail : admin@sankarassociates.in
Website : www.sankarassociates.in

A3 - R

EWS - CORE – III
VILLAS – 68 TO 72

CLIENT:	M/S SHRIRAM PROPERTIES	DESIGN:	G + 1 Floor	ARCHITECT & PLANNERS SANKAR & ASSOCIATES 27 SENGUPTA STREET, RAMNAGAR, COIMBATORE.
STRUCTURE NAME :	RESIDENTIAL VILLAS	TITLE:	REPORT ON	
PLACE:	AT VALARPURAM, CHENNAI.		STRUCTURAL DESIGN.	



NOTES :

1. THE DIMENSIONS ARE NOT TO BE SCALED.
2. ALL DIMENSIONS ARE TO BE VERIFIED PROPERLY AT SITE.
3. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
4. ϕ - DIA OF TOR STEEL
5. CLEAR COVER TO MAIN REINFORCEMENT (MILD EXPOSURE)
 - a) FOR FOOTINGS = 50 mm (ALL AROUND)
 - b) FOR COLUMNS = 40 mm
6. LAPPING:
 - a) LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - b) DEVELOPMENT LENGTH SHALL BE = 48 x DIA OF BAR.
7. ALL ISOLATED FOOTINGS SHALL BE CONCENTRIC WITH COLUMN UNLESS OTHERWISE SPECIFIED
8. GRADE OF CONCRETE IS **M 20**
9. GRADE OF REINFORCING STEEL IS **Fe 415**
10. ASSUMED SBC OF SOIL = 125 KN / Sqm.
11. MINIMUM DEPTH OF FOUNDATION = 2.0 m BELOW NGL
12. THIS STRUCTURE IS DESIGNED FOR G+ 1 FLOOR

REV.	DESCRIPTION	REV BY.	DATE	APP BY.
RELEASE STATUS	DATE	SIGNATURE		
PRELIMINARY/ TENDER				
FOR CONSTRUCTION				

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- CLIENT / BUILDER ENSURES THAT STRICT ADHERENCE TO THE GOOD CONSTRUCTION PRACTICE IS FOLLOWED AT SITE AS PER THE RELEVANT B.I.S. CODES.
- STRUCTURAL ENGINEER'S RESPONSIBILITY IS LIMITED TO DESIGNING & ISSUAL OF STRUCTURAL DRAWINGS ONLY

S. MURUGESH, M.E., FIE,
Chartered Engineer F-1279323
Structural Engineer Grade-I
CMDA /SE/GR-I/2022/05/320

STRUCTURAL ENGINEER

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M/S SHRIRAM PROPERTIES
AT VALARPURAM, CHENNAI.

CLIENT:-

REFERENCE:

This Drg. is Prepared Based On The Source Drg.

1. Drg. no. wd-pl-af-027 Dt. 3.02.16 OF



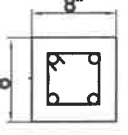
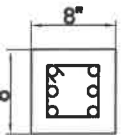
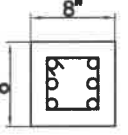
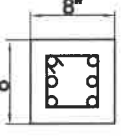
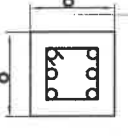
BUILDING: EWS CORE-3

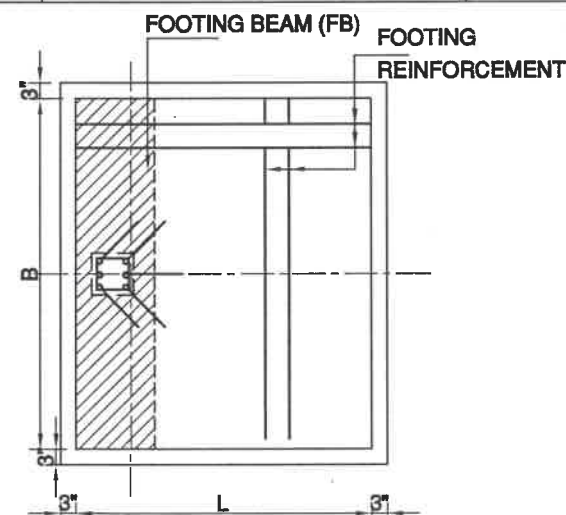
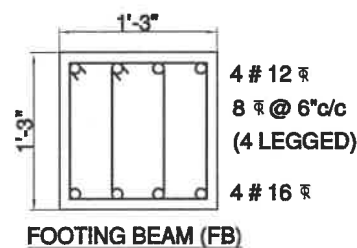
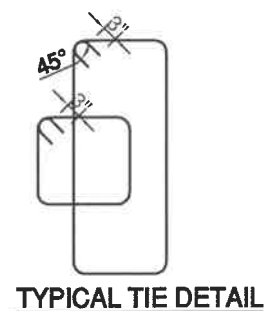
DETAIL: CENTER LINE AND FOOTING LAYOUT

SCALE: 1"=6'-0"	JOB NO: 13-RMA-3A	REV	DRN BY: ALLEN
DATE: 28.02.16	DRG NO: ST-CL-004		CKD BY: B.JAYARAM
	SHEET NO: 1		APD BY: S.M

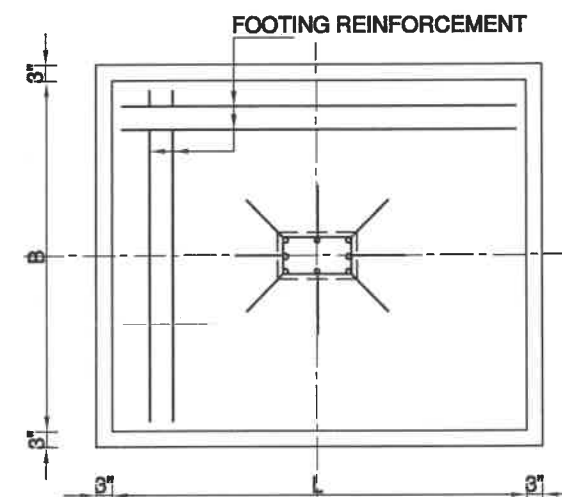
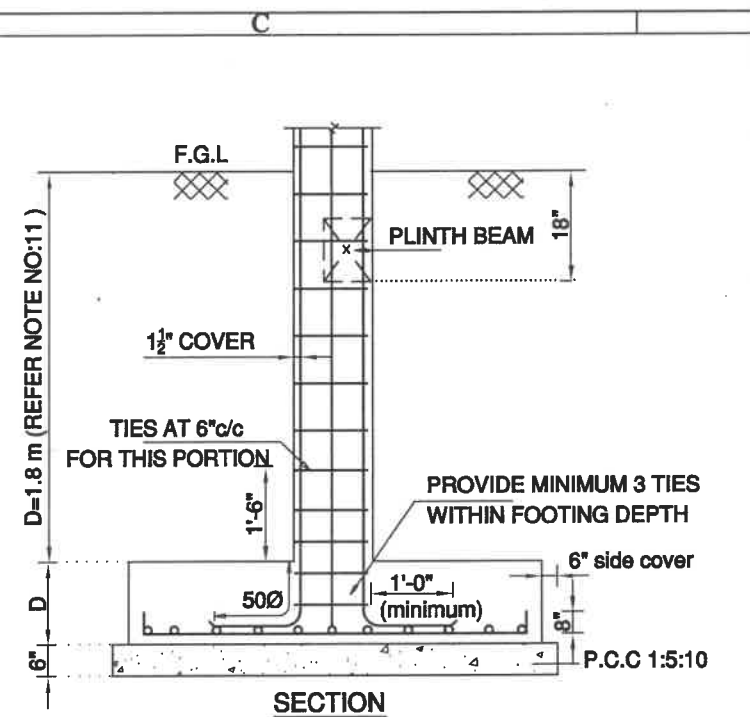
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architectural engineering interior design
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A3 - F

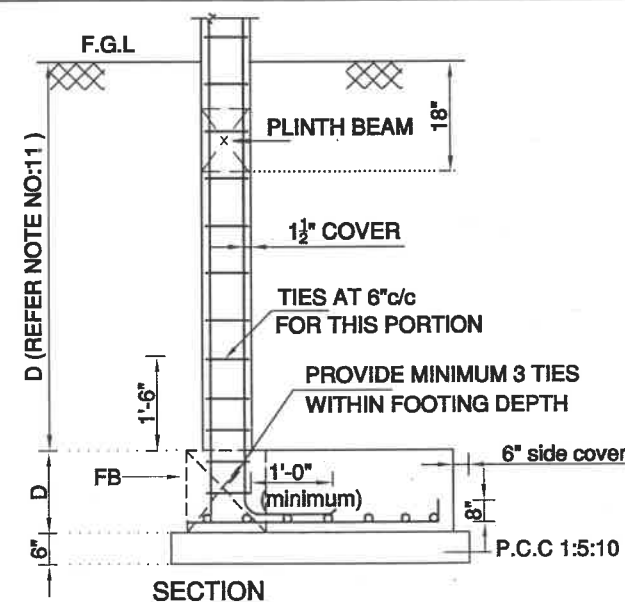
TYPE	COLUMN		TYPE	FOOTING			
	COLUMN DETAILS [CLEAR COVER 40 MM]	TIES		L	B	D	FOOTING REINFORCEMENT
C1		8 # @ 8" c/c (1 TIE)	F1	3'-3"	4'-6"	15"	10 # @ 7" c/c Top & Bottom
C2		8 # @ 8" c/c (1 TIE)	F2	3'-3"	4'-6"	15"	10 # @ 6" c/c Top & Bottom
C3		8 # @ 8" c/c (1 TIE)	F3	3'-3"	5'-0"	15"	10 # @ 5" c/c Top & Bottom
C4		8 # @ 8" c/c (1 TIE)	F4	4'-3"	4'-3"	12"	10 # @ 7" c/c Both ways
C5		8 # @ 8" c/c (1 TIE)	F5	4'-0"	4'-6"	12"	10 # @ 7" c/c Both ways
C1+C3	-	-	CF1	3'-3"	7'-0"	15"	10 # @ 7" c/c Top & Bottom



FOOTING BASE PLAN
TYPICAL ECCENTRIC FOOTING DETAILS



FOOTING BASE PLAN
TYPICAL FOOTING DETAILS



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- Ø - DIA OF TOR STEEL
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 - FOR FOOTINGS = 50 mm (ALL AROUND)
 - FOR COLUMNS = 40 mm
- LAPING:
 - LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - DEVELOPMENT LENGTH SHALL BE = 48 x DIA OF BAR.
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- GRADE OF CONCRETE IS **M 20**
- GRADE OF REINFORCING STEEL IS **Fe 415**
- ASSUMED SBC OF SOIL = 125 KN/Sqm.
- MINIMUM DEPTH OF FOUNDATION = 2.0 m BELOW NGL
- THIS STRUCTURE IS DESIGNED FOR G+ 1 FLOOR

REV.	DESCRIPTION	REV BY.	DATE	APP BY.
RELEASE STATUS	DATE	SIGNATURE		
PRELIMINARY/ TENDER				
FOR CONSTRUCTION				

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S. MURUGESH, M.E., FIE.,
Chartered Engineer F-1279323
Structural Engineer Grade-I
CMDA/SE/GR-I/2022/05/320

STRUCTURAL ENGINEER

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M/S SHRIRAM PROPERTIES
AT VALARPURAM, CHENNAI.

CLIENT:-

REFERENCE:

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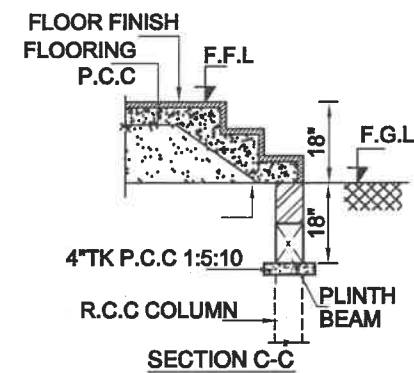
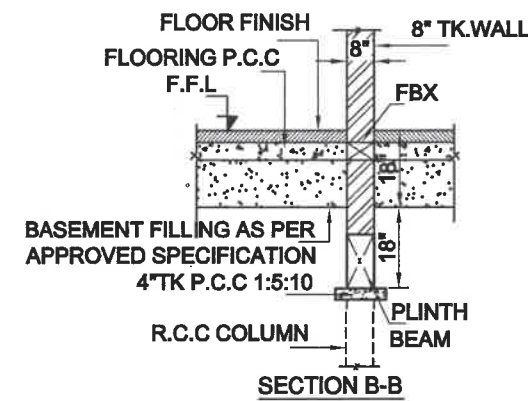
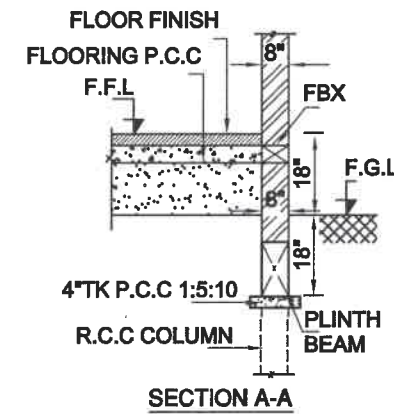
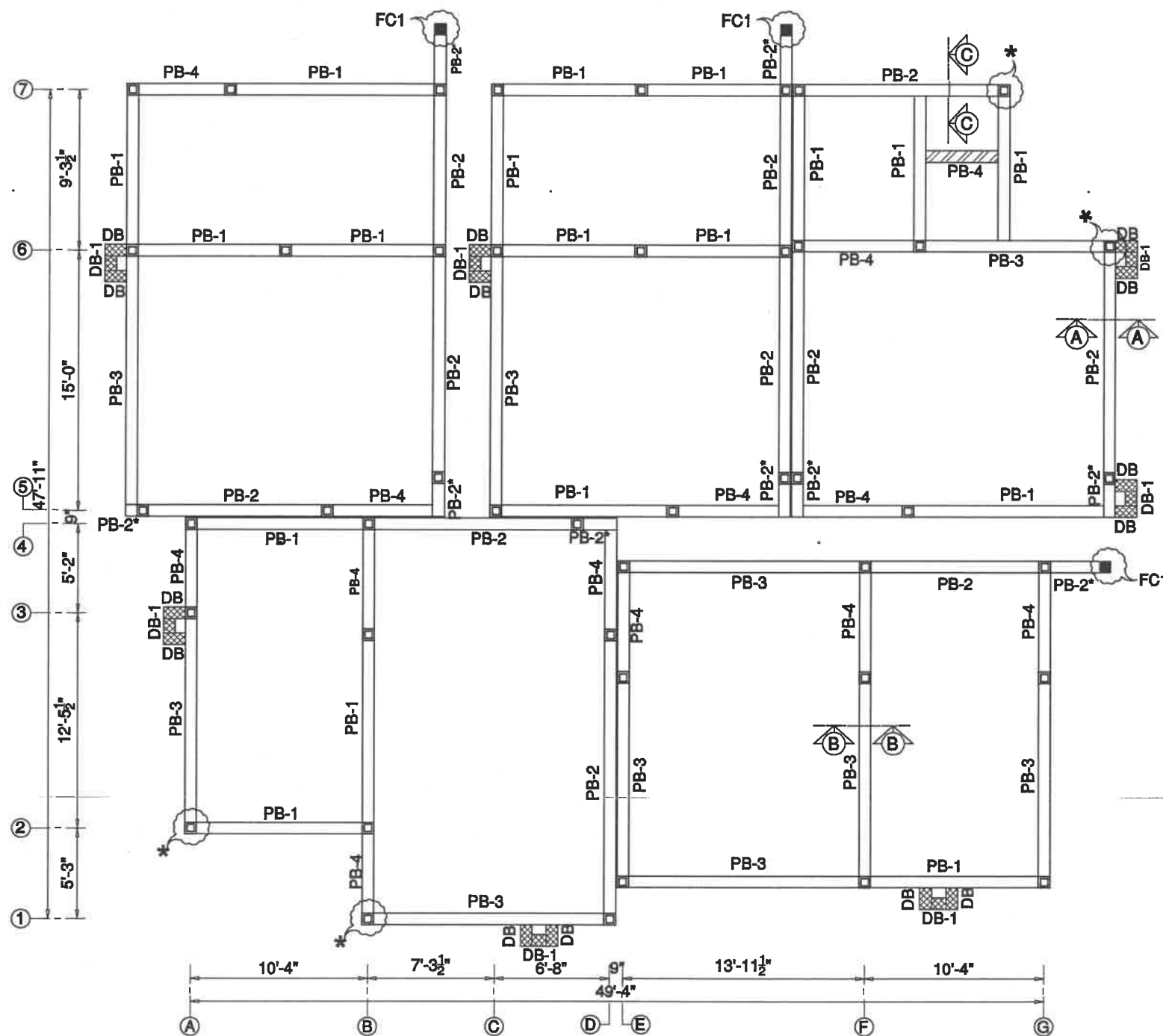
BUILDING: EWS CORE-3

DETAIL: COLUMN & FOOTING RFT DETAIL

SCALE: 1"=6'-0"	JOB NO: 13-FMA-3A	REV	DRN BY: ALLEN
DATE: 28.02.18	DRG NO: ST-CL-004		CKD BY:BJAYARAM
	SHEET NO: 2		APD BY: S.M

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A3 - F



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 - b) FOR SLABS = 20 mm
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 - b) DEVELOPMENT LENGTH SHALL BE = 50 x DIA OF BAR.
7. PROVIDE CHAIR RODS WHEREVER NECESSARY
8. PROVIDE SPACER RODS OF 25mm ϕ (min) AT 1000mm C/C
9. GRADE OF CONCRETE IS [M20]
10. GRADE OF REINFORCING STEEL IS F415
11. ALL THE LEVELS MENTIONED ARE FROM THE F.F.L. OF RESPECTIVE FLOOR

NOTE:

* GRID NO. A2, B1, E7 AND J6 COLUMNS
UPTO GROUND FLOOR ROOF.

REV.	DESCRIPTION	REV BY.	DATE	APP BY.
RELEASE STATUS	DATE	SIGNATURE		
PRELIMINARY/ TENDER				
FOR CONSTRUCTION				

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S. MURUGESH, M.E., F.I.E.,
Chartered Engineer F-1279323
Structural Engineer Grade-I
MDA/SE/GR-1/2022/05/320

STRUCTURAL ENGINEER

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M/S SHRIRAM PROPERTIES
AT VALARPURAM, CHENNAI.

CLIENT:-

REFERENCE:

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1. Drg. no. wd-pl-af-027 Dt. 03.02.16 OF



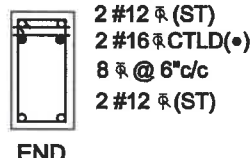
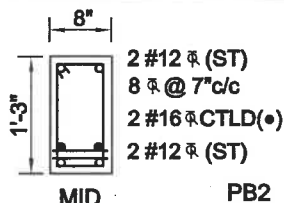
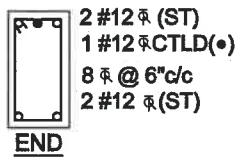
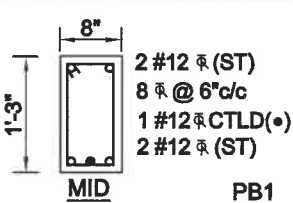
BUILDING: EWS CORE-3

DETAIL: PLINTH BEAM LAYOUT

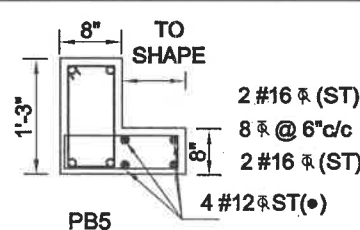
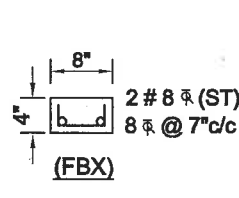
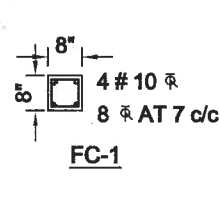
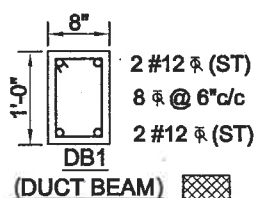
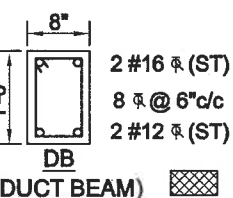
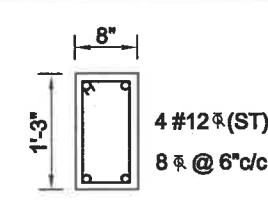
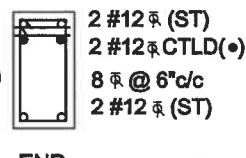
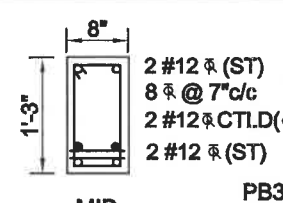
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DATE: 26.02.16	DRG NO: ST-CL-004	CKD BY: BJAYARAM	
	SHEET NO: 3	APD BY: S.M	

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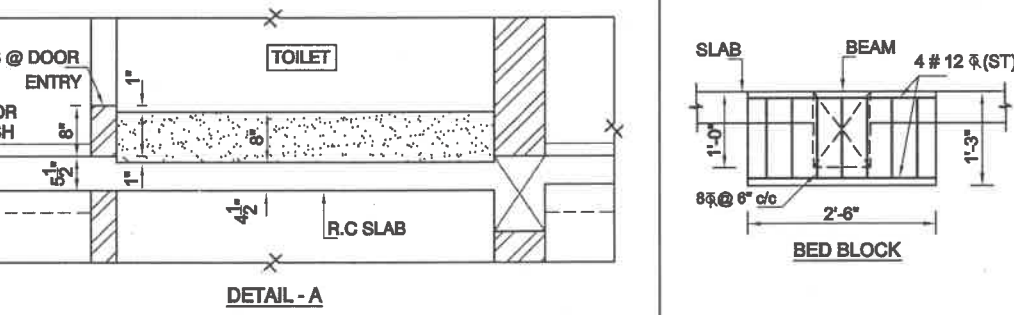
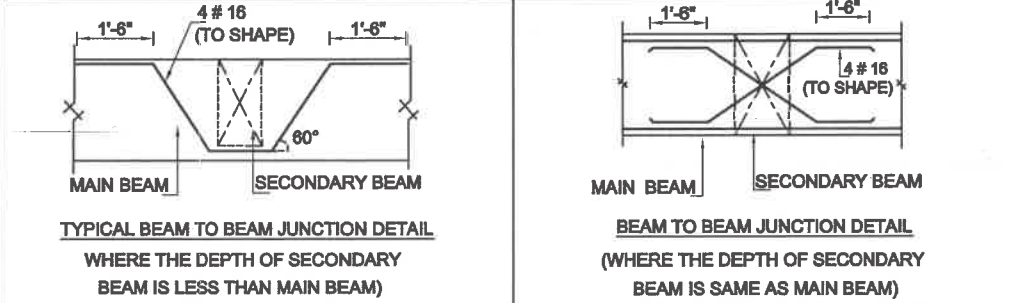
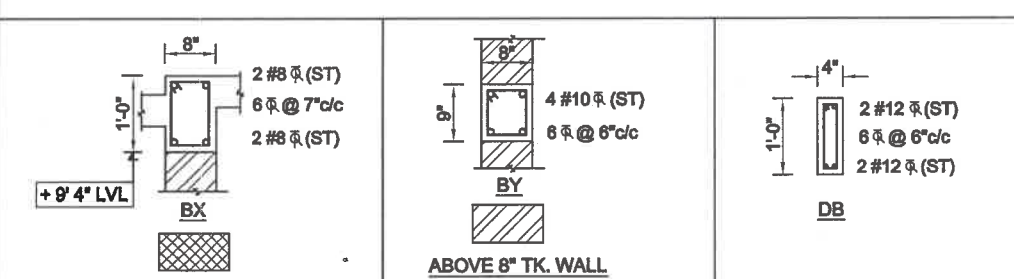
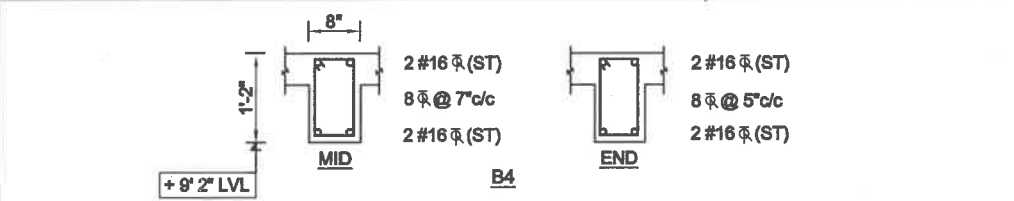
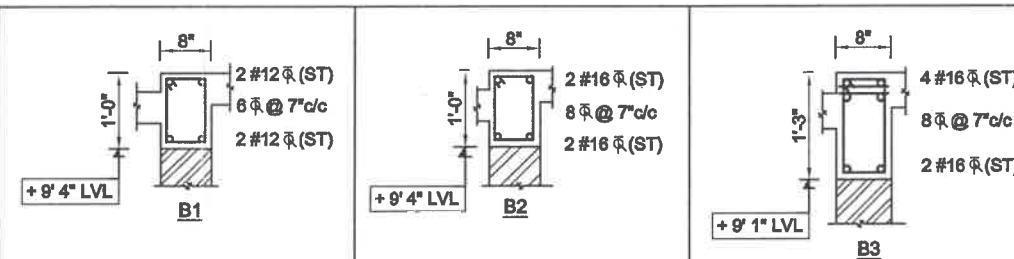
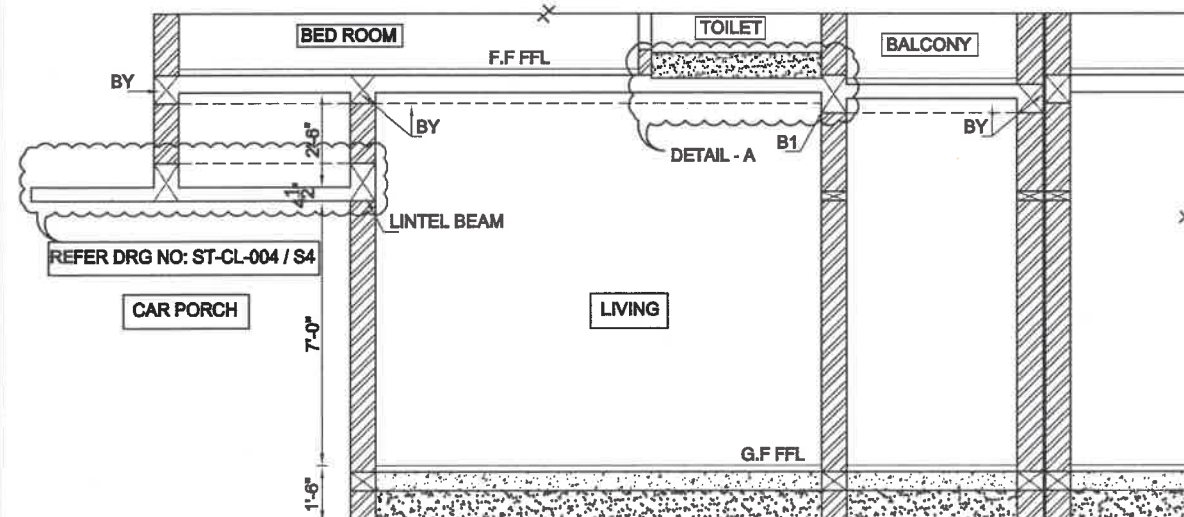
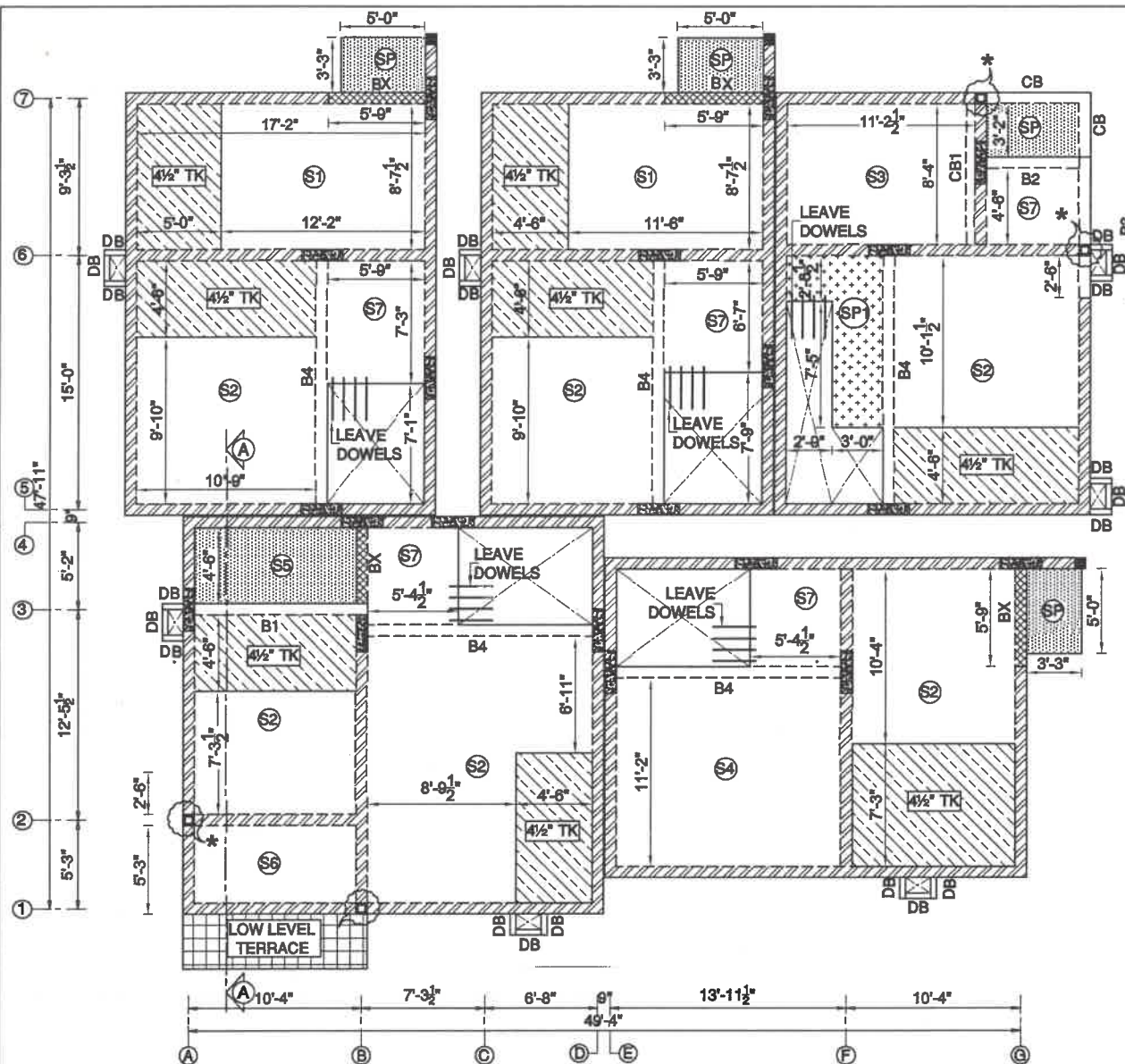
A3 - P



FOR PB2* REFER END SECTION OF BEAM PB2



FOR PB6* REFER END SECTION OF BEAM PB6



SLAB NO.	SLAB THICKNESS	SLAB BOTTOM LVL	SHORTER DIRECTION	LONGER DIRECTION
S1	5 1/2"	+ 9' 10 1/2"	8 @ 5" C/C (alt crank)	8 @ 7" C/C (straight)
S2	5 1/2"	+ 9' 10 1/2"	8 @ 6" C/C (alt crank)	8 @ 7" C/C (alt crank)
S3	4 1/2"	+ 9' 11 1/2"	8 @ 6" C/C (alt crank)	8 @ 7" C/C (straight)
S4	4 1/2"	+ 9' 11 1/2"	8 @ 6" C/C (alt crank)	8 @ 6" C/C (alt crank)
S5	4 1/2"	+ 9' 8 1/2"	8 @ 7" C/C (alt crank)	8 @ 7" C/C (straight)
S6	4 1/2"	+ 9' 11 1/2"	8 @ 7" C/C (alt crank)	8 @ 7" C/C (straight)
S7	4 1/2"	+ 9' 11 1/2"	8 @ 7" C/C (Top & Bottom)	8 @ 7" C/C (Top & Bottom)
SP	4 1/2"	+ 9' 8 1/2"	8 @ 7" C/C (Top & Bottom)	8 @ 7" C/C (Top & Bottom)
SP1	4 1/2"	+ 9' 11 1/2"	8 @ 6" C/C (Top & Bottom)	8 @ 6" C/C (Top & Bottom)

NOTES:

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- Ø - DIA OF TOR STEEL
- CLEAR COVER TO MAIN REINFORCEMENT (MILD EXPOSURE)
 - FOR BEAMS - 25 mm
 - FOR SLABS - 20 mm
- LAP LENGTH:
 - LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - DEVELOPMENT LENGTH SHALL BE = 50 x DIA OF BAR.
- PROVIDE CHAIR RODS WHEREVER NECESSARY
- PROVIDE SPACER RODS OF 25mm Ø (min) AT 1000mm C/C
- GRADE OF CONCRETE IS **M 20**
- GRADE OF REINFORCING STEEL IS **Fe 415**
- ALL THE LEVELS MENTIONED ARE FROM THE F.F.L. OF THE RESPECTIVE FLOOR
- FLOOR FINISH ALLOWANCE SHALL BE 50 / 75 mm FROM THE RAW SLAB AS PER SITE INSTRUCTIONS.
- REINFORCEMENT FABRICATION SHOULD BE DONE AS PER STANDARD DUCTILE DETAIL PROVIDED VIDE DRG. No.
- PROVISION OF CONDUITS / SLEEVES / CORE CUTS TO BE PROVIDED AS PER SERVICE (ELECTRICAL / PLUMBING / HVAC) CONSULTANT'S DETAIL / DRAWINGS DULY APPROVED BY THE ARCHITECT / STRUCTURAL ENGINEER

NOTE:

- * GRID NO. A2, B1, H7 AND J6 COLUMNS UPTO GROUND FLOOR ROOF
- * FOR ALL SLAB/DUCT PROJECTION REFER ARCHITECTURAL DRAWING.

REV.	DESCRIPTION	REV BY.	DATE	APP BY.
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AT VALARPURAM, CHENNAI.

REFERENCE:

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1. Drg. no. wd-pl-af-027 Dt. 03.02.16 OF

BUILDING: EWS CORE-3

DETAIL: GROUND FLOOR ROOF BEAM & SLAB LAYOUT

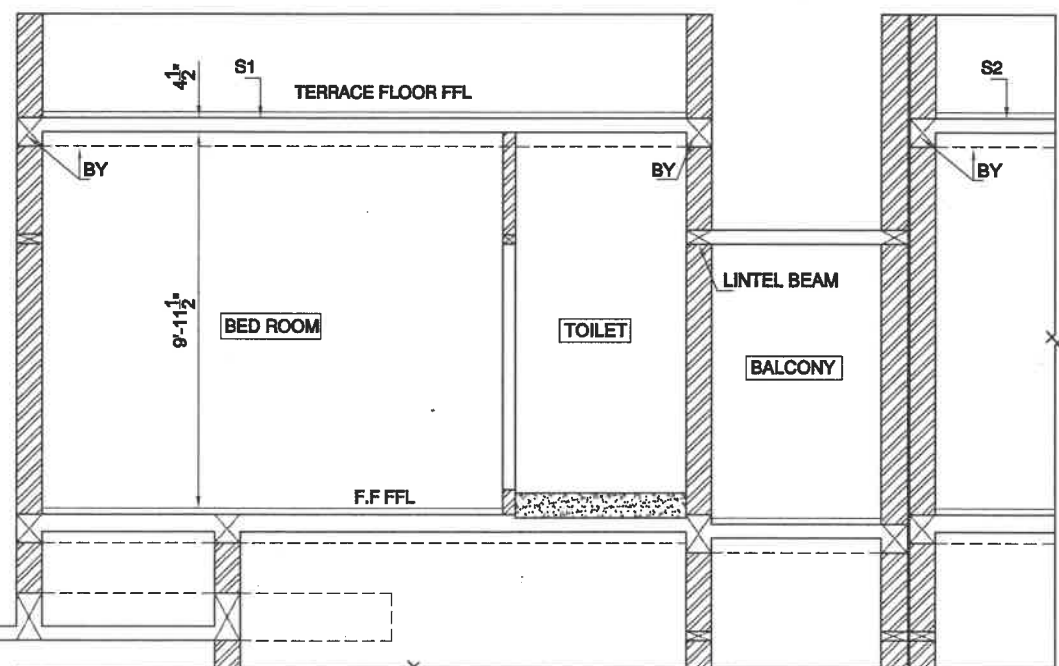
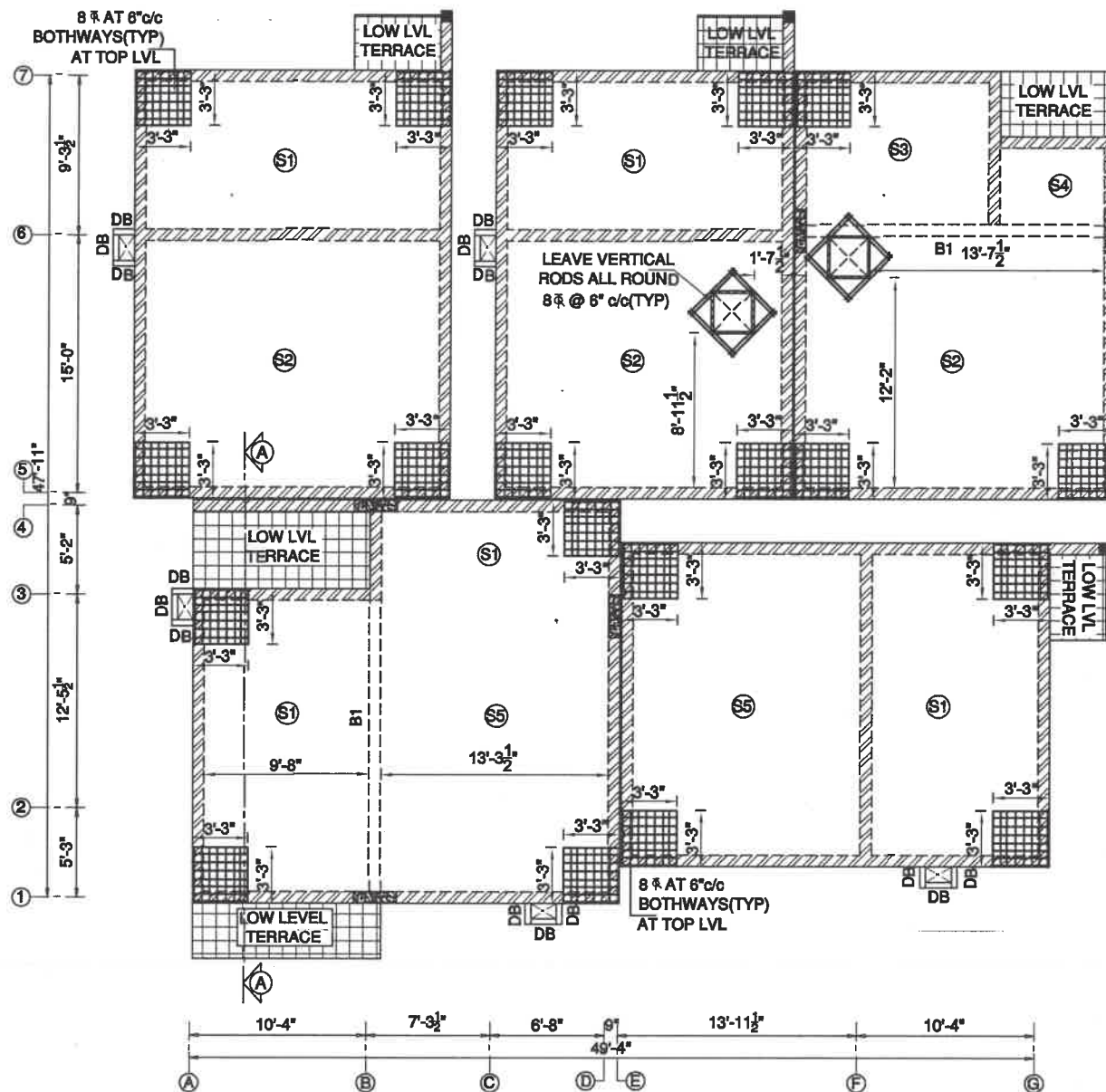
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DATE: 29.02.16 DRG NO: ST-CL-004 CKD BY: B.JAYARAM

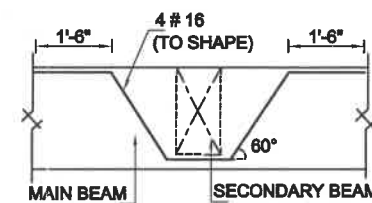
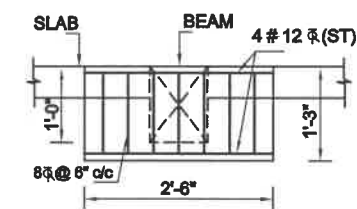
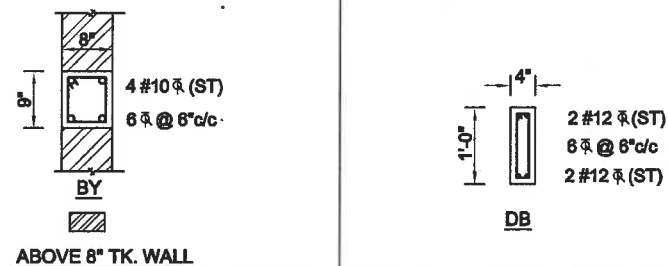
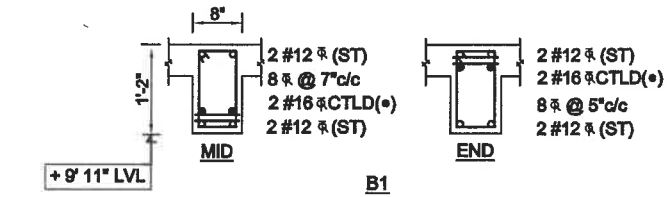
SHEET NO: 5 APD BY: S.M

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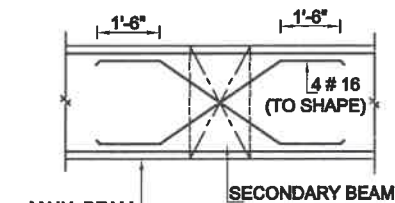
A3 - R



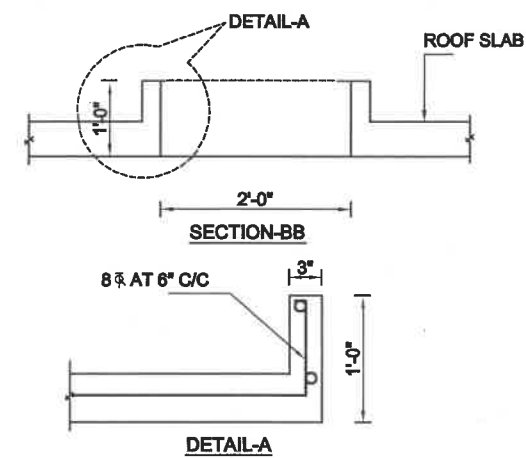
SECTION A - A



TYPICAL BEAM TO BEAM JUNCTION DETAIL
WHERE THE DEPTH OF SECONDARY
BEAM IS LESS THAN MAIN BEAM



BEAM TO BEAM JUNCTION DETAIL
(WHERE THE DEPTH OF SECONDARY
BEAM IS SAME AS MAIN BEAM)



SLAB SCHEDULE:

SLAB NO.	SLAB THICKNESS	SLAB BOTTOM LVL	SHORTER DIRECTION	LONGER DIRECTION
S1	4 1/2"	+ 9' 11 1/2"	8 # @ 6" C/C (alt crank)	6 # @ 7" C/C (straight)
S2	5 1/2"	+ 9' 11"	8 # @ 5" C/C (alt crank)	8 # @ 5" C/C (alt crank)
S3	4 1/2"	+ 9' 11 1/2"	8 # @ 6" C/C (alt crank)	6 # @ 7" C/C (straight)
S4	4 1/2"	+ 9' 11 1/2"	8 # @ 7" C/C (straight)	8 # @ 7" C/C (straight)
S5	6"	+ 9' 11"	8 # @ 5" C/C (alt crank)	8 # @ 6" C/C (alt crank)

- NOTES :**
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 2. ALL DIMENSIONS ARE TO BE VERIFIED PROPERLY AT SITE.
 3. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
 4. ϕ - DIA OF TOR STEEL
 5. CLEAR COVER TO MAIN REINFORCEMENT (MILD EXPOSURE)
 - a) FOR BEAMS = 25 mm
 - b) FOR SLABS = 20 mm
 6. LAPPING:
 - a) LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - b) DEVELOPMENT LENGTH SHALL BE = 50 x DIA OF BAR.
 7. PROVIDE CHAIR RODS WHEREVER NECESSARY
 8. PROVIDE SPACER RODS OF 25mm ϕ (min) AT 1000mm C/C
 9. GRADE OF CONCRETE IS **M 20**
 10. GRADE OF REINFORCING STEEL IS **Fe 415**
 11. ALL THE LEVELS MENTIONED ARE FROM THE F.F.L. OF THE RESPECTIVE FLOOR
 12. FLOOR FINISH ALLOWANCE SHALL BE 50 / 75 mm FROM THE RAW SLAB AS PER SITE INSTRUCTIONS.
 13. REINFORCEMENT FABRICATION SHOULD BE DONE AS PER STANDARD DUCTILE DETAIL PROVIDED VIDE DRG. NO.
 14. PROVISION OF CONDUITS / SLEEVES / CORECUTS TO BE PROVIDED AS PER SERVICE (ELECTRICAL / PLUMBING / HVAC) CONSULTANTS DETAIL / DRAWINGS DULY APPROVED BY THE ARCHITECT / STRUCTURAL ENGINEER

NOTE:
* FOR ALL ROOF CUT OUT, SLAB/DUCT PROJECTION REFER ARCHITECTURAL DRAWING.

REV.	DESCRIPTION	REV BY.	DATE	APP BY.
RELEASE STATUS	DATE	SIGNATURE		
PRELIMINARY/ TENDER				
FOR CONSTRUCTION				

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STRUCTURAL ENGINEER

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M/S SHRIRAM PROPERTIES
AT VALARPURAM, CHENNAI.

CLIENT:-

REFERENCE:

This Drg. is Prepared Based On The Source Drg.

1. Drg. no. wd-pl-af-027 Dt. 3.02.16 OF



BUILDING: EWS CORE-3

DETAIL: FIRST FLOOR ROOF BEAM & SLAB LAYOUT

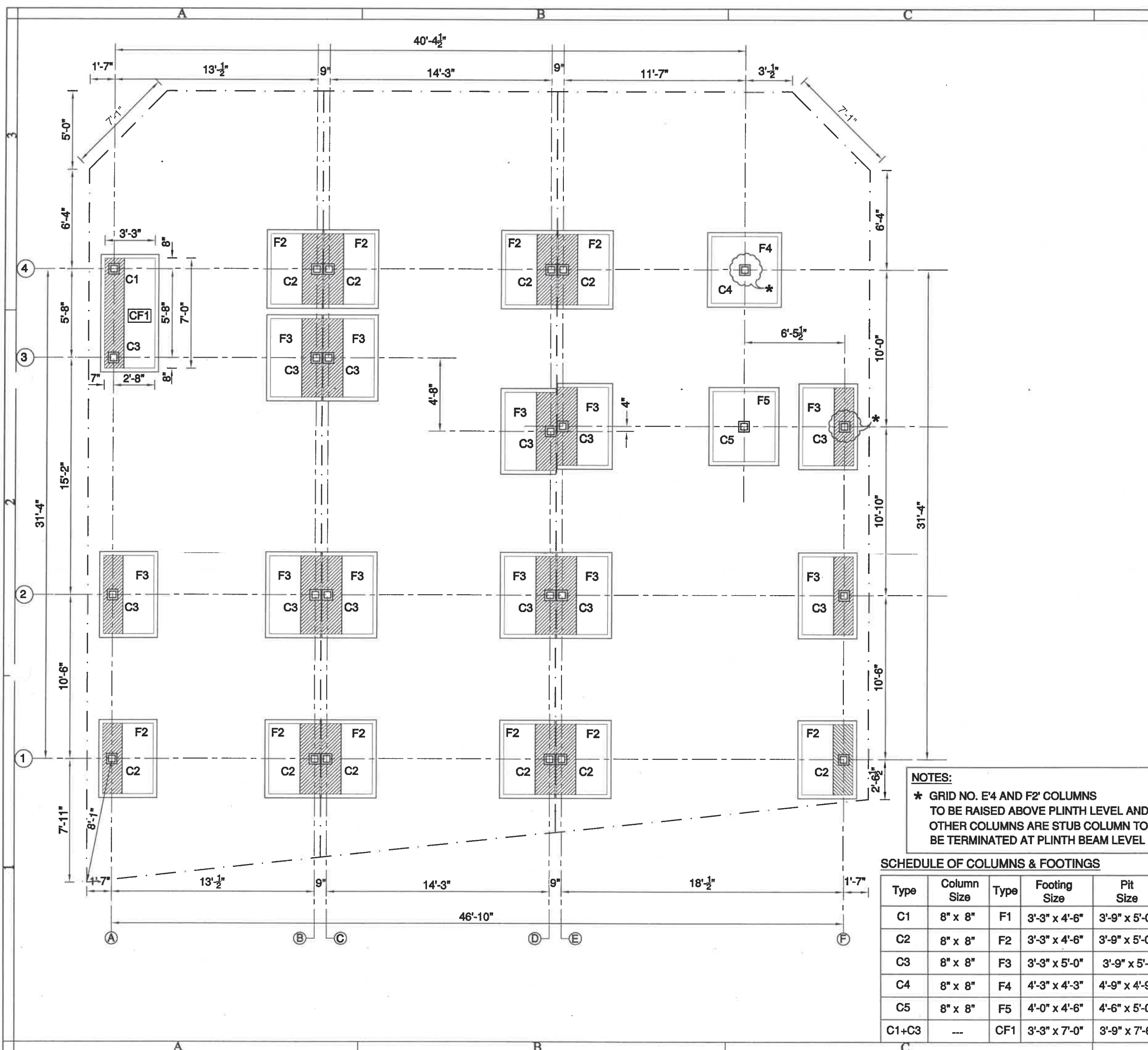
SCALE: 1"=8'-0"	JOB NO: 13-RMA-3A	REV	DRN BY: ALLEN
DATE: 01.03.18	DRG NO: ST-CL-004		CKD BY: BJAYARAM
	SHEET NO: 7		APD BY: S.M

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Coimbatore - 641009, India.
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Branch: 8, 34th Street, Near Pudhoo School,
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E-mail : admin@sankarasociates.in
Website : www.sankarasociates.in

A3 - R

EWS - CORE – IV
VILLAS – 65 TO 67

CLIENT:	M/S SHRIRAM PROPERTIES	DESIGN:	G + 1 Floor	ARCHITECT & PLANNERS SANKAR & ASSOCIATES 27 SENGUPTA STREET, RAMNAGAR, COIMBATORE.
STRUCTURE NAME :	RESIDENTIAL VILLAS	TITLE: REPORT ON STRUCTURAL DESIGN.		
PLACE:	AT VALARPURAM, CHENNAI.			



- NOTES :**
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 4. ϕ - DIA OF TOR STEEL
 5. CLEAR COVER TO MAIN REINFORCEMENT (MILD EXPOSURE)
a) FOR FOOTINGS = 50 mm (ALL AROUND)
b) FOR COLUMNS = 40 mm
 6. LAPPING:
a) LAP LENGTH SHALL BE = 50 x DIA OF BAR.
b) DEVELOPMENT LENGTH SHALL BE = 48 x DIA OF BAR.
 7. ALL ISOLATED FOOTINGS SHALL BE CONCENTRIC WITH COLUMN UNLESS OTHERWISE SPECIFIED
 8. GRADE OF CONCRETE IS **M 20**
 9. GRADE OF REINFORCING STEEL IS **F_y 415**
 10. ASSUMED SBC OF SOIL = 125 KN / Sqm.
 11. MINIMUM DEPTH OF FOUNDATION = 2.0 m BELOW NGL
 12. THIS STRUCTURE IS DESIGNED FOR G+ 1 FLOOR

REV.	DESCRIPTION	REV BY.	DATE	APP BY.

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M/S SHRIRAM PROPERTIES
AT VALARPURAM, CHENNAI.

CLIENT:-

REFERENCE:
This Drg. is Prepared Based On The Source Drg.

1. Drg. no. wd-pl-af-026 Dt. 03.02.16 OF

BUILDING: EWS CORE-4

DETAIL: CENTER LINE AND FOOTING LAYOUT

SCALE: 1"=6'-0"	JOB NO: 13-RMA-3A	REV	DRN BY: ALLEN
DATE: 23.12.15	DRG NO: ST-CL-002		CKD BY: B.JAYARAM
	SHEET NO: 1		APD BY: S.M

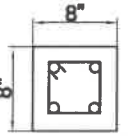
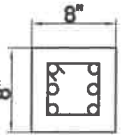
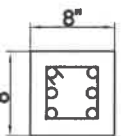
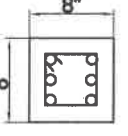
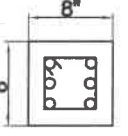
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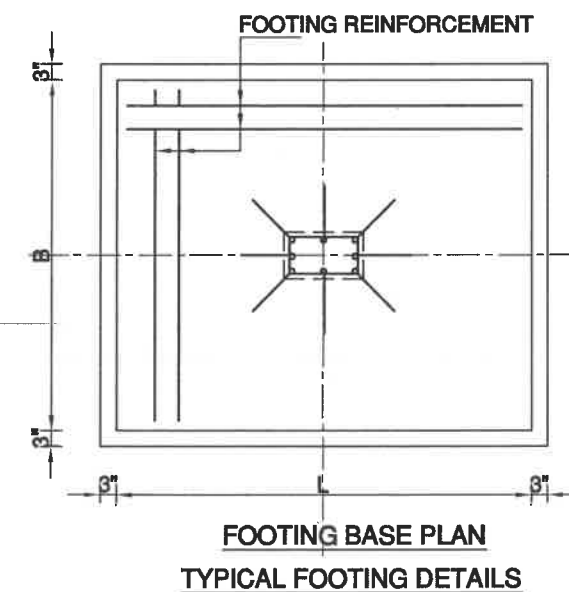
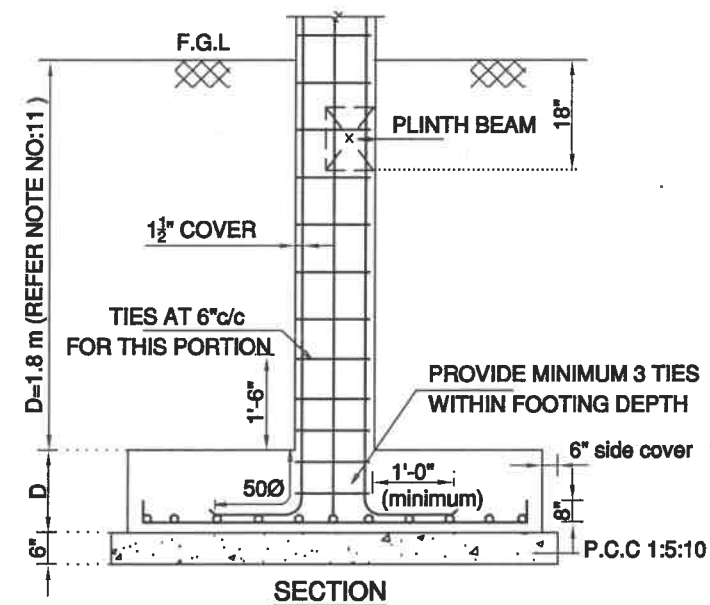
A3 - F

NOTES:

* GRID NO. E4 AND F2' COLUMNS TO BE RAISED ABOVE PLINTH LEVEL AND OTHER COLUMNS ARE STUB COLUMN TO BE TERMINATED AT PLINTH BEAM LEVEL

Type	Column Size	Type	Footing Size	Pit Size
C1	8" x 8"	F1	3'-3" x 4'-6"	3'-9" x 5'-0"
C2	8" x 8"	F2	3'-3" x 4'-6"	3'-9" x 5'-0"
C3	8" x 8"	F3	3'-3" x 5'-0"	3'-9" x 5'-6"
C4	8" x 8"	F4	4'-3" x 4'-3"	4'-9" x 4'-9"
C5	8" x 8"	F5	4'-0" x 4'-6"	4'-6" x 5'-0"
C1+C3	---	CF1	3'-3" x 7'-0"	3'-9" x 7'-6"

TYPE	COLUMN		TYPE	FOOTING			FOOTING REINFORCEMENT
	COLUMN DETAILS [CLEAR COVER 40 MM]	TIES		L	B	D	
C1	 4 # 12	 8 @ 8" c/c (1 TIE)	F1	3'-3"	4'-6"	15"	10 @ 7" c/c Top & Bottom
C2	 6 # 12	 8 @ 8" c/c (1 TIE)	F2	3'-3"	4'-6"	15"	10 @ 6" c/c Top & Bottom
C3	 6 # 12	 8 @ 8" c/c (1 TIE)	F3	3'-3"	5'-0"	15"	10 @ 5" c/c Top & Bottom
C4	 6 # 12	 8 @ 8" c/c (1 TIE)	F4	4'-3"	4'-3"	12"	10 @ 7" c/c Both ways
C5	 6 # 12	 8 @ 8" c/c (1 TIE)	F5	4'-0"	4'-6"	12"	10 @ 7" c/c Both ways
C1+C3	-	-	CF1	3'-3"	7'-0"	15"	10 @ 7" c/c Top & Bottom



NOTES :

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4. - DIA OF TOR STEEL
5. CLEAR COVER TO MAIN REINFORCEMENT (MILD EXPOSURE)
 - a) FOR FOOTINGS = 50 mm (ALL AROUND)
 - b) FOR COLUMNS = 40 mm
6. LAPPING:
 - a) LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - b) DEVELOPMENT LENGTH SHALL BE = 48 x DIA OF BAR.
7. ALL ISOLATED FOOTINGS SHALL BE CONCENTRIC WITH COLUMN UNLESS OTHERWISE SPECIFIED
8. GRADE OF CONCRETE IS **M 20**
9. GRADE OF REINFORCING STEEL IS **Fe 415**
10. ASSUMED SBC OF SOIL = 125 KN / Sqm.
11. MINIMUM DEPTH OF FOUNDATION = 2.0 m BELOW NGL
12. THIS STRUCTURE IS DESIGNED FOR G+ 1 FLOOR

REV.	DESCRIPTION	REV BY.	DATE	APP BY.
RELEASE STATUS	DATE	SIGNATURE		
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Structural Engineer Grade-I
CMDA/SE/GR-I/2022/05/320

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AT VALARPURAM, CHENNAI.

CLIENT:-

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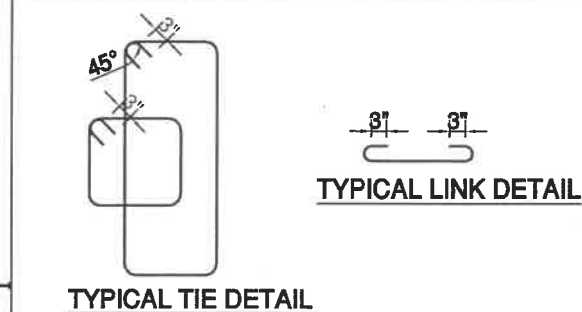
BUILDING: EWS CORE-4

DETAIL: COLUMN & FOOTING RFT DETAIL

SCALE: 1"=6'-0"	JOB NO: 13-RMA-3A	REV	DRN BY: ALLEN
DATE: 21.12.15	DRG NO: ST-CL-002		CKD BY: B.JAYARAM
	SHEET NO: 1		APD BY: S.M

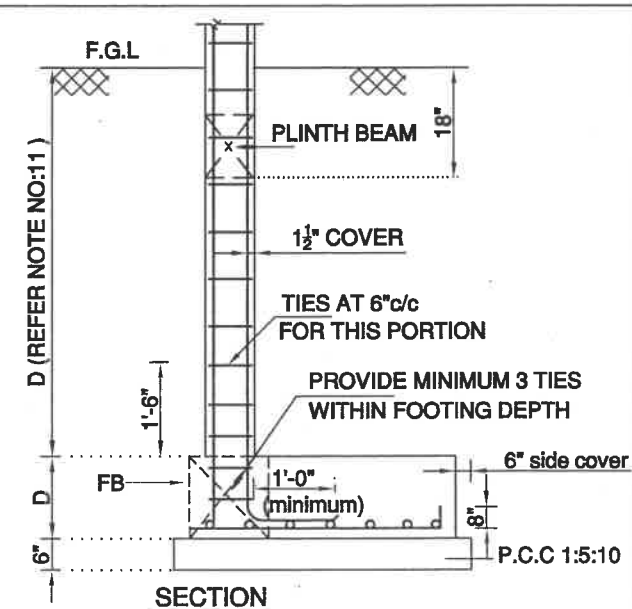
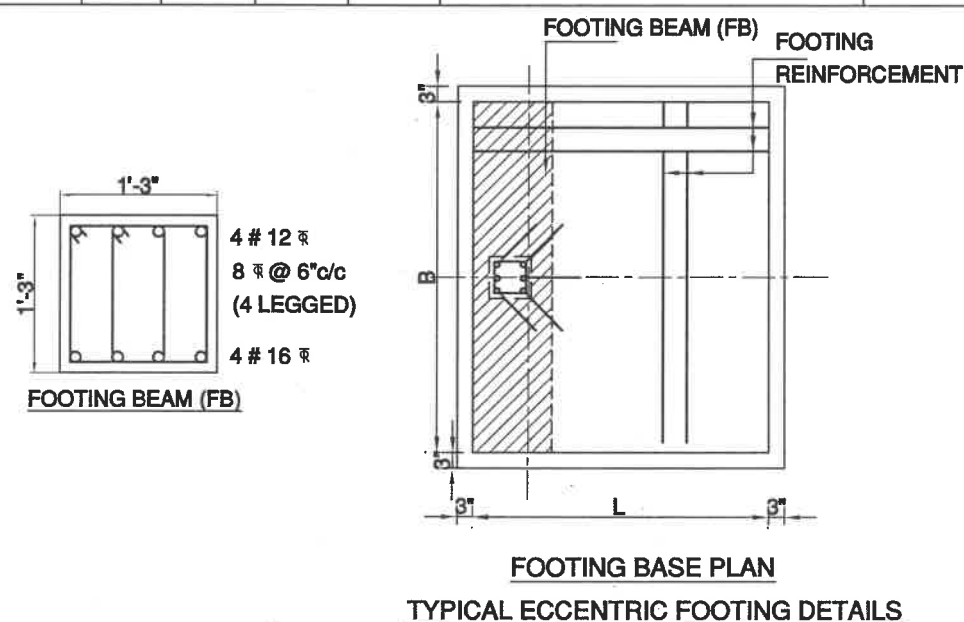
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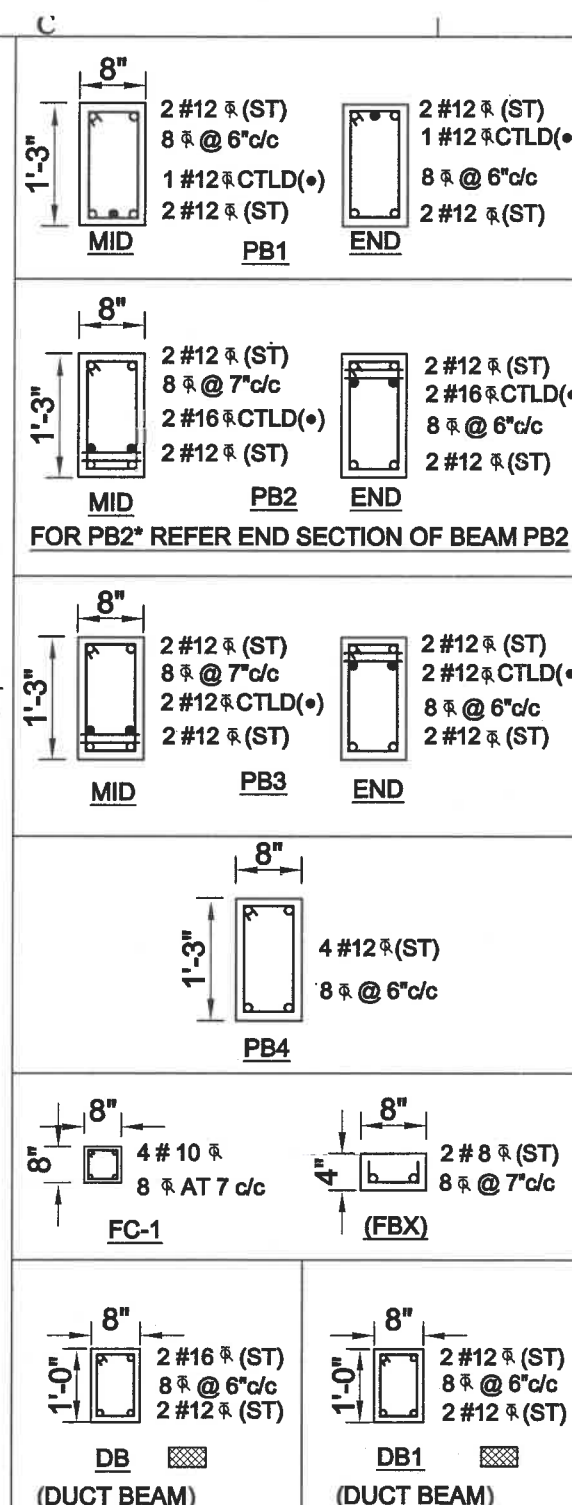
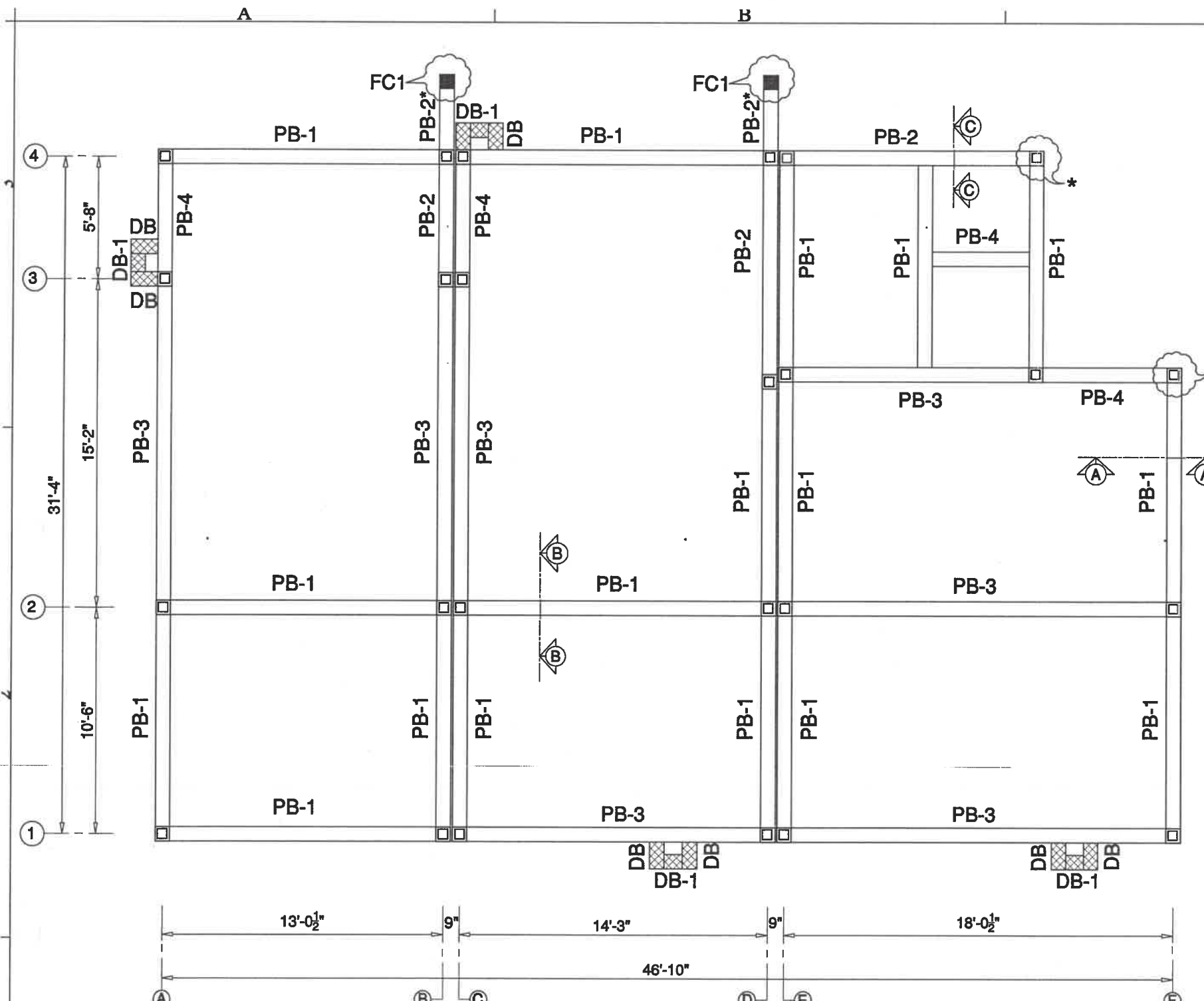
A3 - F



NOTES:

- * GRID NO. E'4 AND F2' COLUMNS TO BE RAISED ABOVE PLINTH LEVEL AND OTHER COLUMNS ARE STUB COLUMN TO BE TERMINATED AT PLINTH BEAM LEVEL





NOTES :

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- CLEAR COVER TO MAIN REINFORCEMENT(MILD EXPOSURE)
 - FOR BEAMS = 25 mm
 - FOR SLABS = 20 mm
- LAPING:
 - LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - DEVELOPMENT LENGTH SHALL BE = 50 x DIA OF BAR.
- PROVIDE CHAIR RODS WHEREVER NECESSARY
- PROVIDE SPACER RODS OF 25mm Ø (min) AT 1000mm C/C
- GRADE OF CONCRETE IS **M20**
- GRADE OF REINFORCING STEEL IS **F₄₁₅**
- ALL THE LEVELS MENTIONED ARE FROM THE F.F.L OF RESPECTIVE FLOOR

NOTE:

* GRID NO. E4 AND F2 COLUMNS UPTO GROUND FLOOR ROOF.

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RELEASE STATUS	DATE	SIGNATURE		
PRELIMINARY/ TENDER				
FOR CONSTRUCTION				

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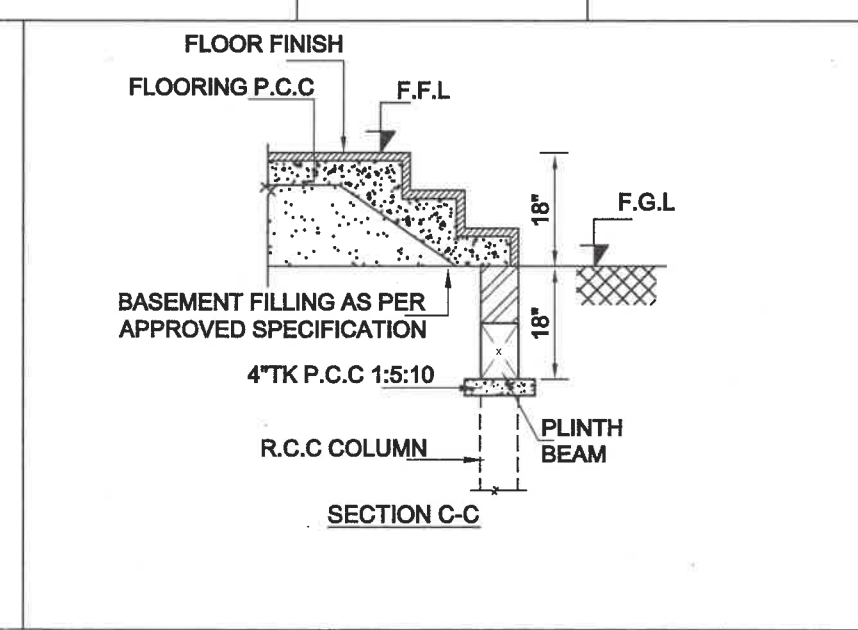
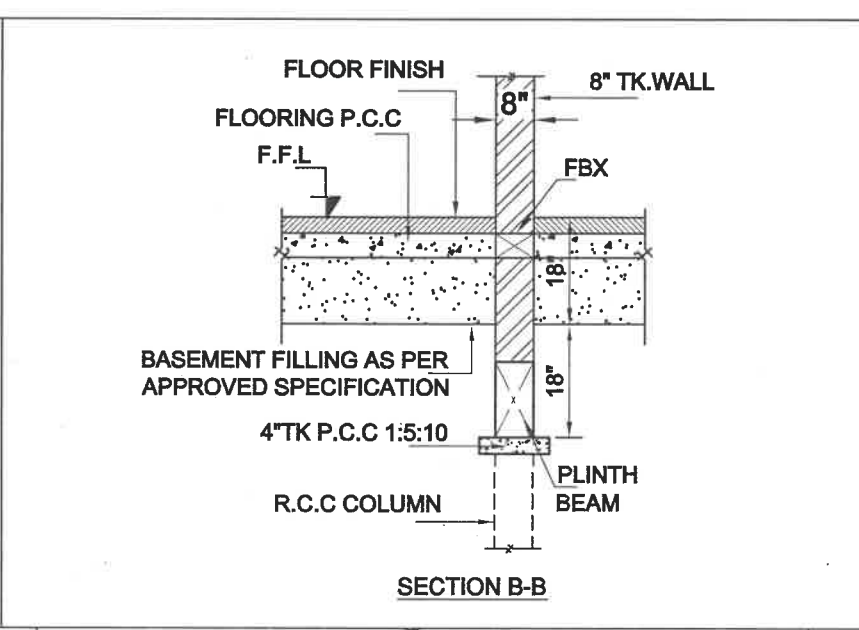
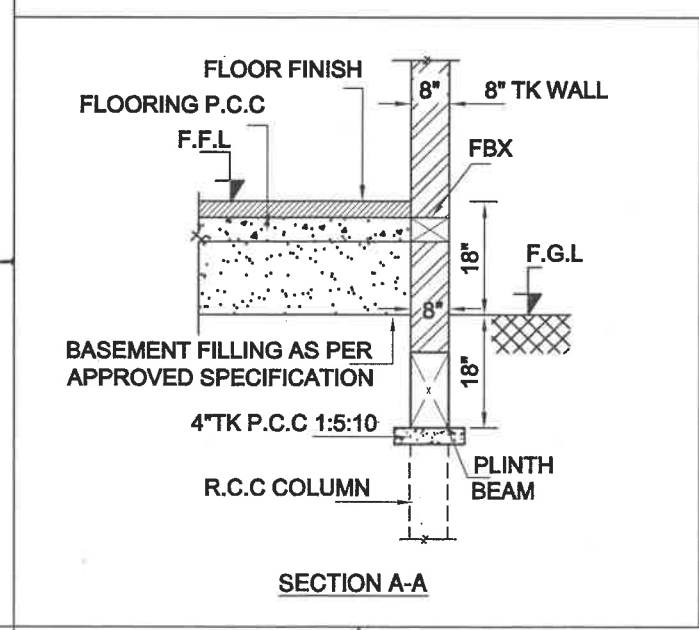
BUILDING: EWS CORE-4

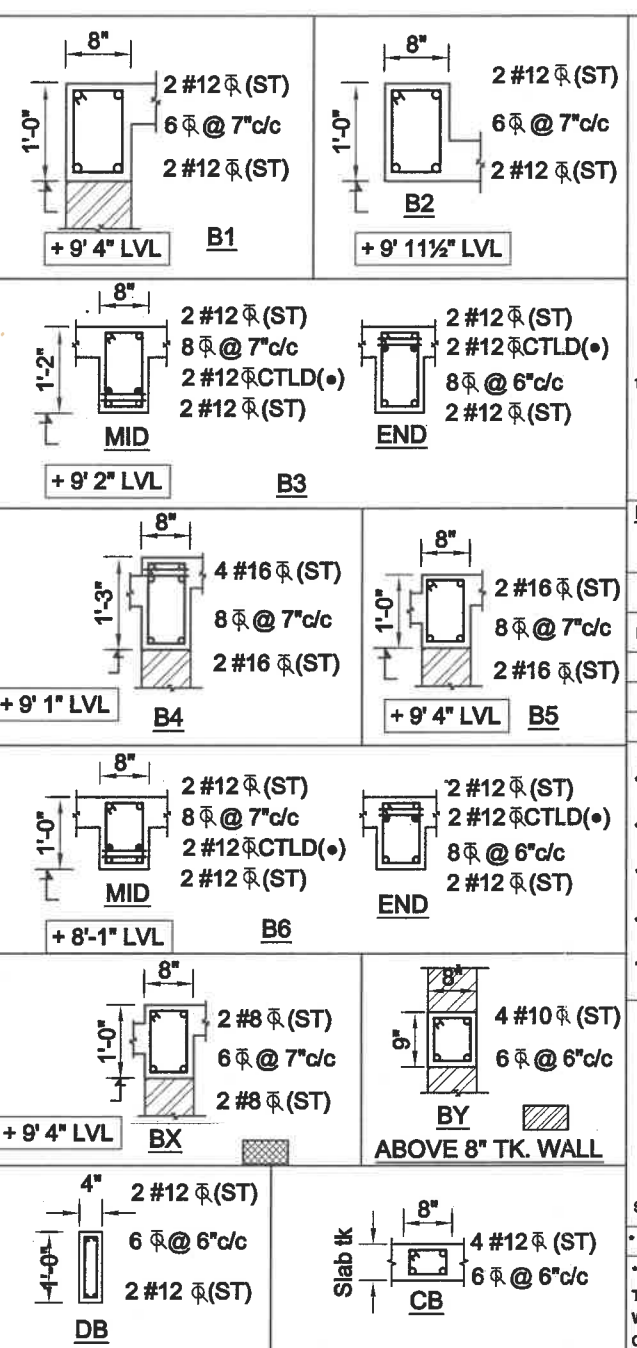
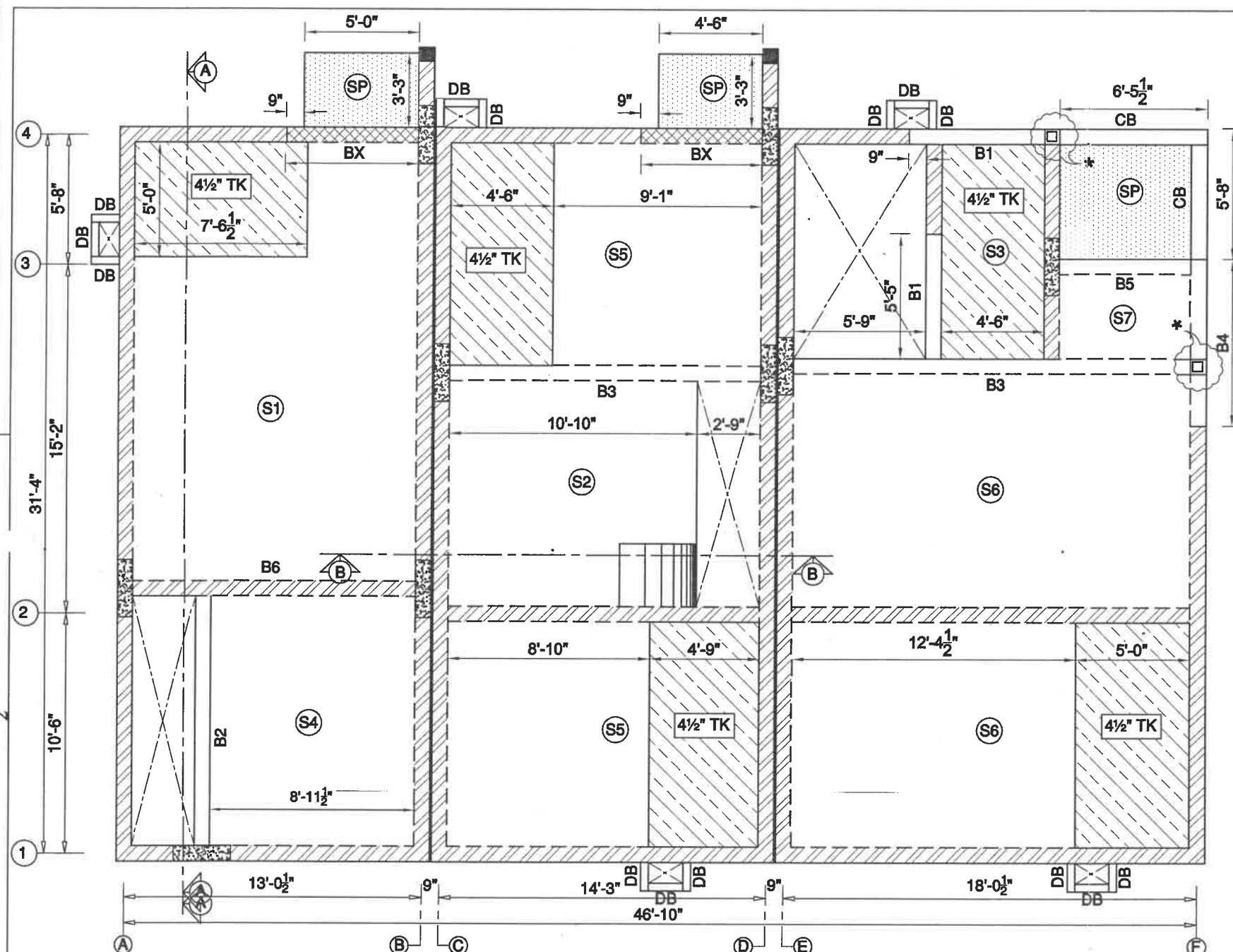
DETAIL: PLINTH BEAM LAYOUT

SCALE: 1"=6'-0"	JOB NO: 13-RMA-3A	REV	DRN BY: ALLEN
DATE: 23.12.15	DRG NO: ST-CL-002		CKD BY: B.JAYARAM
	SHEET NO: 3		APD BY: S.M

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A3 - P





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 4. DIA OF TOR STEEL
 5. CLEAR COVER TO MAIN REINFORCEMENT (MILD EXPOSURE)
 - a) FOR BEAMS - 25 mm
 - b) FOR SLABS - 20 mm
 6. LAPPING:
 - a) LAP LENGTH SHALL BE = 60 x DIA OF BAR.
 - b) DEVELOPMENT LENGTH SHALL BE = 60 x DIA OF BAR.
 7. PROVIDE CHAIR RODS WHEREVER NECESSARY
 8. PROVIDE SPACER RODS OF 25mm Ø (min) AT 1000mm C/C
 9. GRADE OF CONCRETE IS **M 20**
 10. GRADE OF REINFORCING STEEL IS **Fe 415**
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 12. FLOOR FINISH ALLOWANCE SHALL BE 50 / 75 mm FROM THE RAW SLAB AS PER SITE INSTRUCTIONS.
 13. REINFORCEMENT FABRICATION SHOULD BE DONE AS PER STANDARD DUCTILE DETAIL PROVIDED VIDE DRG. No.
 14. PROVISION OF CONDUITS / SLEEVES / CORECUTS TO BE PROVIDED AS PER SERVICE (ELECTRICAL / PLUMBING / HVAC) CONSULTANT'S DETAIL / DRAWINGS DULY APPROVED BY THE ARCHITECT / STRUCTURAL ENGINEER

NOTE:

- * GRID NO. E4 AND F2 COLUMNS UPTO GROUND FLOOR ROOF
- * FOR ALL SLAB/DUCT PROJECTION REFER ARCHITECTURAL DRAWING.

REV.	DESCRIPTION	REV BY.	DATE	APP BY.

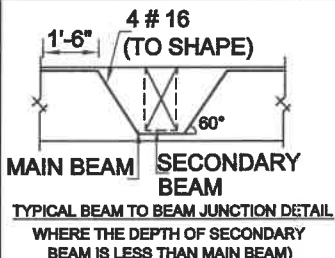
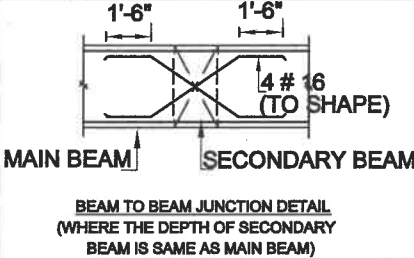
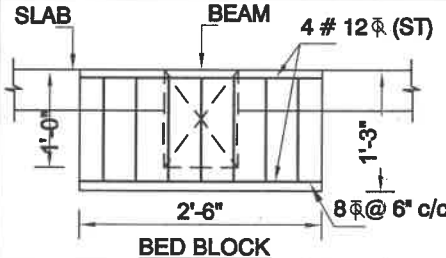
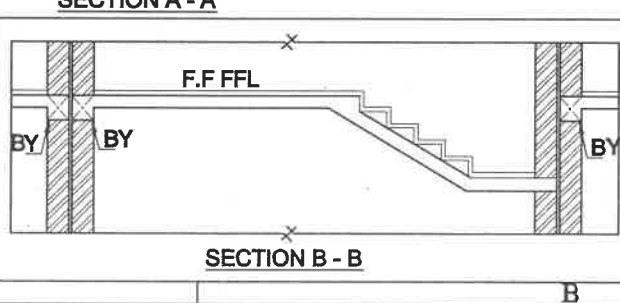
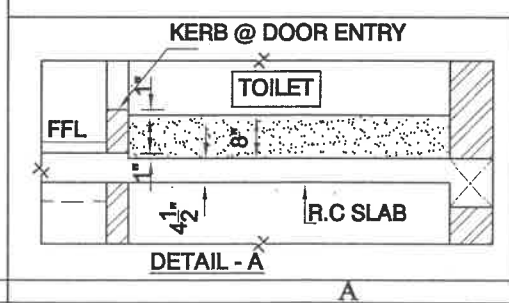
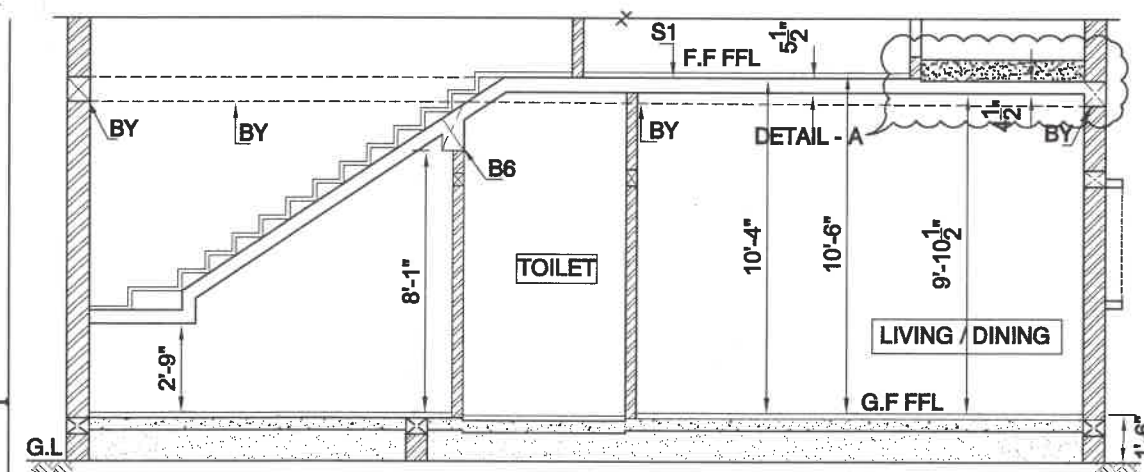
- IMPORTANT NOTES:-**
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 - ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER.
 - ANY MODIFICATION IN THE DESIGNER'S STRUCTURAL SYSTEM BEFORE/AFTER COMPLETION OF WORK SHALL BE IMMEDIATELY INTIMATED TO THE CONSULTANT
 - CLIENT / BUILDER ENSURES THAT STRICT ADHERENCE TO THE GOOD CONSTRUCTION PRACTICE IS FOLLOWED AT SITE AS PER THE RELEVANT B.S. CODES.
 - STRUCTURAL ENGINEER'S RESPONSIBILITY IS LIMITED TO DESIGNING & ISSUAL OF STRUCTURAL DRAWINGS ONLY

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STRUCTURAL ENGINEER

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SLAB SCHEDULE:

SLAB NO.	SLAB TK	SLAB BOTTOM LVL	SHORTER DIRECTION	LONGER DIRECTION
S1	5½"	+ 9' 10½"	8 # @ 5" C/C (alt crank)	8 # @ 7" C/C (straight)
S2	4½"	+ 9' 11½"	8 # @ 6" C/C (alt crank)	8 # @ 7" C/C (alt crank)
S3	4½"	+ 9' 10½"	8 # @ 7" C/C (alt crank)	8 # @ 7" C/C (straight)
S4	4½"	+ 9' 11½"	8 # @ 5" C/C (alt crank)	8 # @ 7" C/C (alt crank)
S5	5½"	+ 9' 10½"	8 # @ 7" C/C (alt crank)	8 # @ 7" C/C (straight)
S6	5½"	+ 9' 10½"	8 # @ 7" C/C (Top & Bottom)	8 # @ 7" C/C (Top & Bottom)
S7	4½"	+ 9' 11½"	8 # @ 7" C/C (Top & Bottom)	8 # @ 7" C/C (Top & Bottom)
SP	4½"	+ 9' 8½"	8 # @ 7" C/C (Top & Bottom)	8 # @ 7" C/C (Top & Bottom)

M/S SHRIRAM PROPERTIES
 AT VALARPURAM, CHENNAI.

CLIENT:-

REFERENCE:
 This Drg. is Prepared Based On The Source Drg.

1. Drg. no. wd-pl-af-026 Dt. 03.02.16 OF

NP

BUILDING: EWS CORE-4

DETAIL: GROUND FLOOR ROOF BEAM & SLAB LAYOUT

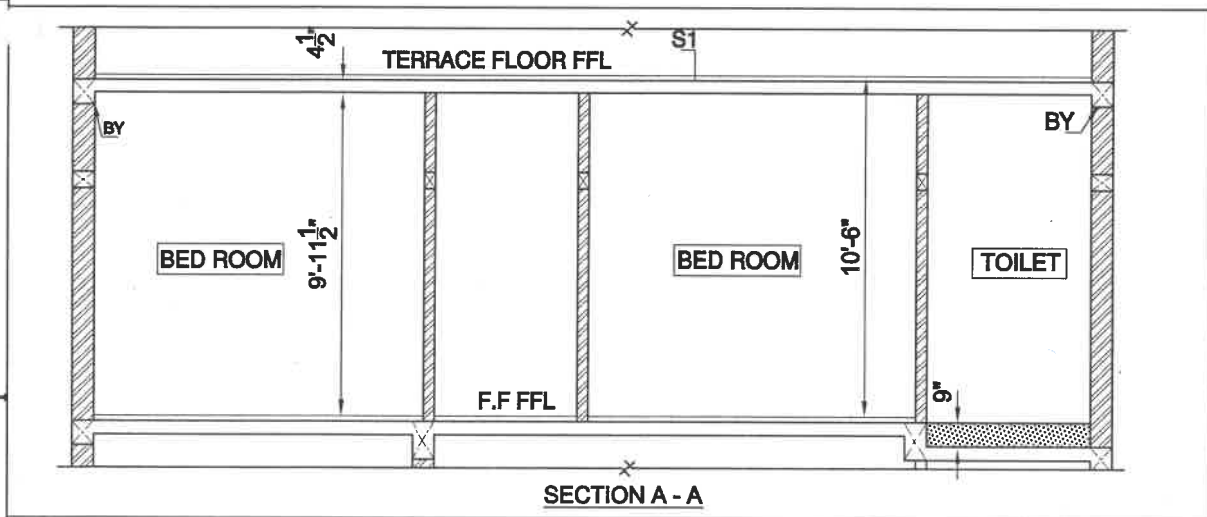
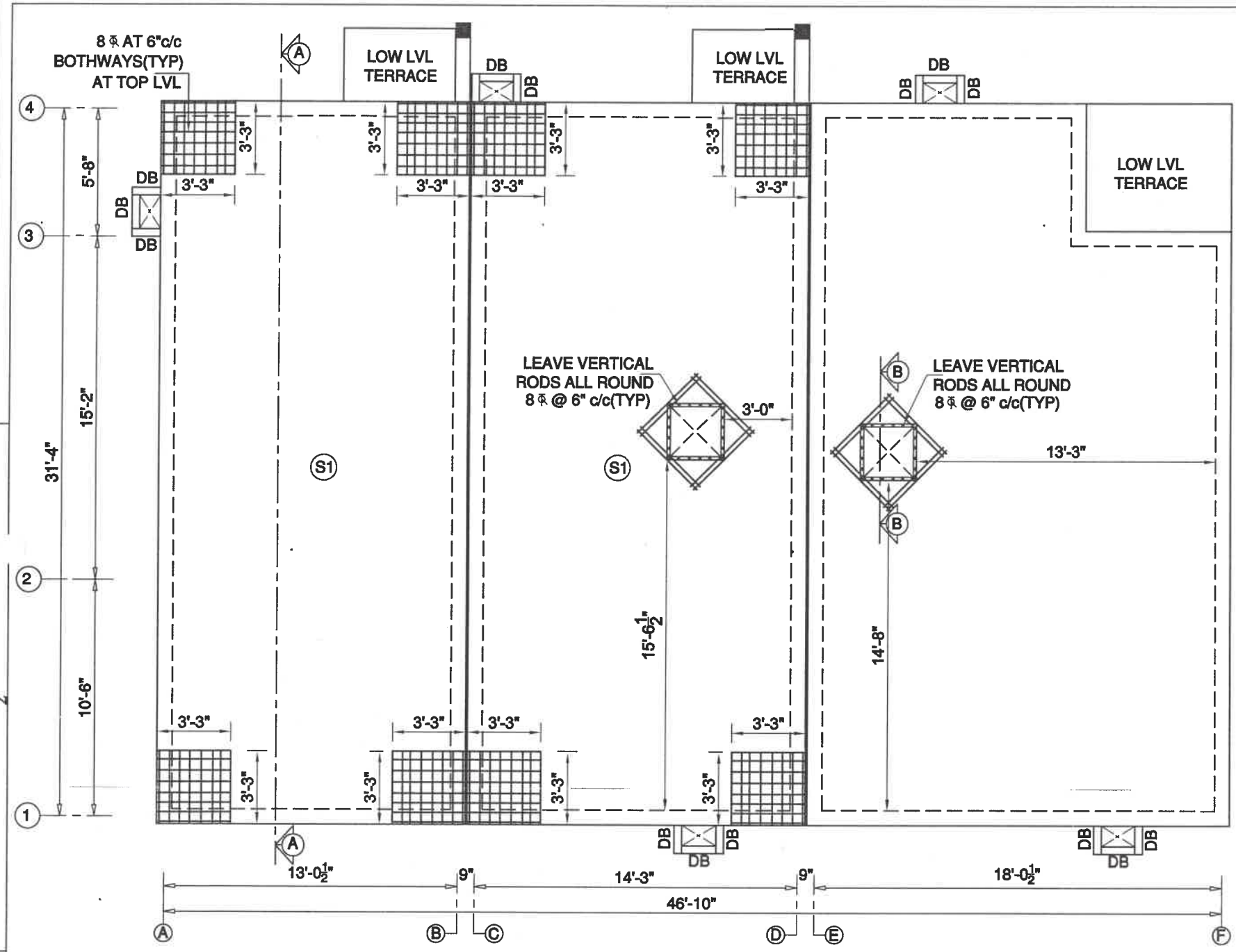
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DATE: 09.02.16 DRG NO: ST-CL-002 CKD BY: B.JAYARAM

SHEET NO: 5 APD BY: S.M

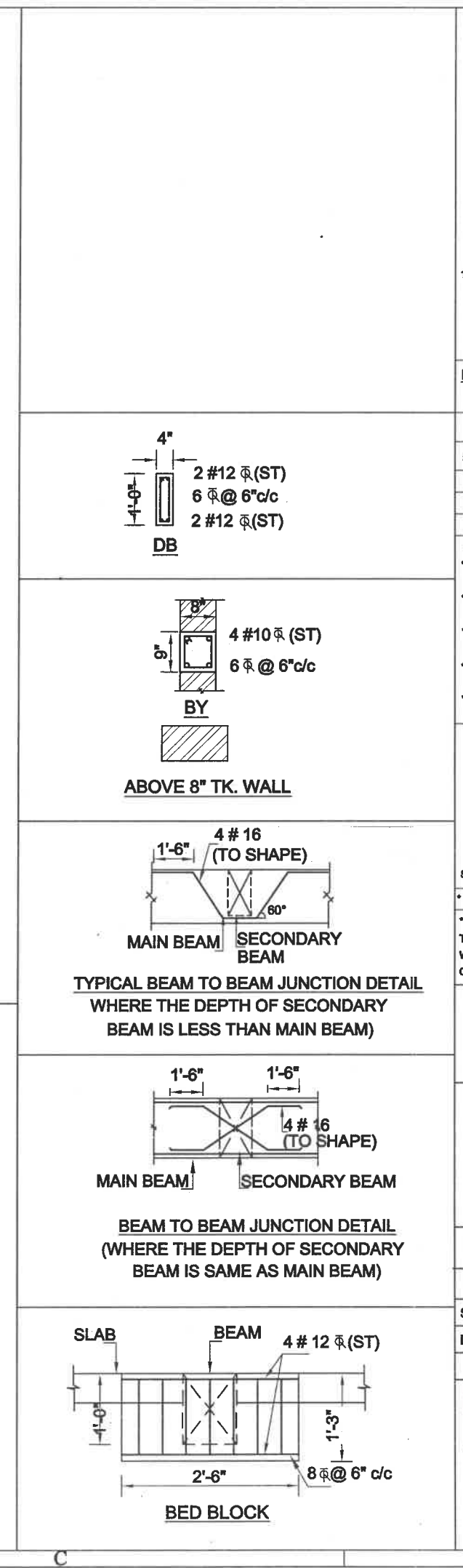
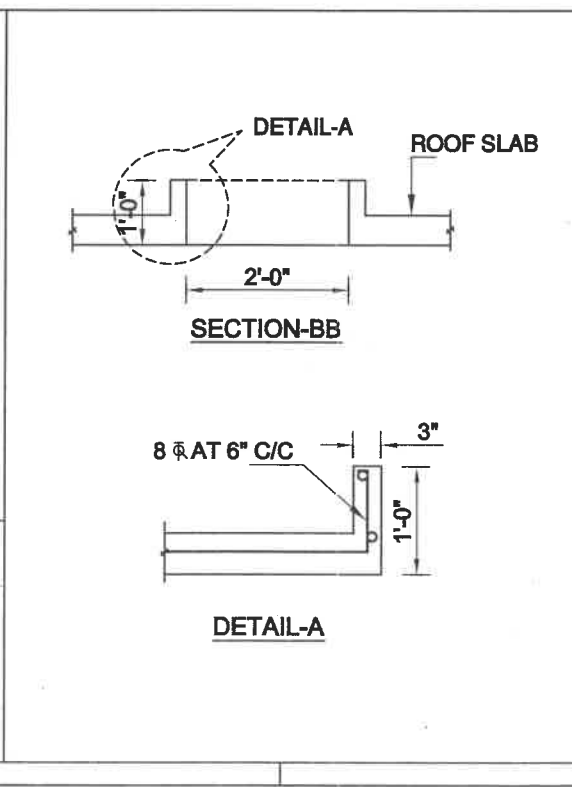
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A3 - R



SLAB SCHEDULE:

SLAB NO.	SLAB THICKNESS	SLAB BOTTOM LVL	SHORTER DIRECTION	LONGER DIRECTION
S1	4 1/2"	+ 9' 11 1/2"	10 # @ 5" C/C (alt crank)	8 # @ 7" C/C (straight)



NOTES :

- DIMENSIONS ARE NOT TO BE SCALED.
- ALL DIMENSIONS ARE TO BE VERIFIED PROPERLY AT SITE.
- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
- DIA OF TOR STEEL
- CLEAR COVER TO MAIN REINFORCEMENT (MILD EXPOSURE)
 - FOR BEAMS = 25 mm
 - FOR SLABS = 20 mm
- LAPPING:
 - LAP LENGTH SHALL BE = 50 x DIA OF BAR.
 - DEVELOPMENT LENGTH SHALL BE = 50 x DIA OF BAR.
- PROVIDE CHAIR RODS WHEREVER NECESSARY
- PROVIDE SPACER RODS OF 25mm Ø (min) AT 1000mm C/C
- GRADE OF CONCRETE IS **M 20**
- GRADE OF REINFORCING STEEL IS **Fe 415**
- ALL THE LEVELS MENTIONED ARE FROM THE F.F.L. OF THE RESPECTIVE FLOOR
- FLOOR FINISH ALLOWANCE SHALL BE 50 / 75 mm FROM THE RAW SLAB AS PER SITE INSTRUCTIONS.
- REINFORCEMENT FABRICATION SHOULD BE DONE AS PER STANDARD DUCTILE DETAIL PROVIDED VIDE DRG. No.
- PROVISION OF CONDUITS / SLEEVES / CORE CUTS TO BE PROVIDED AS PER SERVICE (ELECTRICAL / PLUMBING / HVAC) CONSULTANT'S DETAIL / DRAWINGS DULY APPROVED BY THE ARCHITECT / STRUCTURAL ENGINEER

NOTE:

* FOR ALL SLAB/DUCT PROJECTION REFER ARCHITECTURAL DRAWING.

REV.	DESCRIPTION	REV BY.	DATE	APP BY.
RELEASE STATUS	DATE	SIGNATURE		
PRELIMINARY/ TENDER				
FOR CONSTRUCTION				

IMPORTANT NOTES:-

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1. Drg. no. wd-pl-af-026 Dt. 03.02.16 OF

NP

BUILDING: EWS CORE-4

DETAIL: FIRST FLOOR ROOF BEAM & SLAB LAYOUT

SCALE: 1"=8'-0"	JOB NO: 13-RMA-3A	REV	DRN BY: ALLEN
DATE: 09.02.16	DRG NO: ST-CL-002		CKD BY: B.JAYARAM
	SHEET NO: 7		APD BY: S.M

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A3 - R