



FOR CONSTRUCTION

Grade Of Concrete
For Foundation/Raft/Pedustal = M25
For Stair Case = M25
For Column/Lift Wall = M25
For Beam & Slab = M25

Grade Of Reinforcement Steel
TMT Bar Fe 500D

GENERAL NOTES:-

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 DO NOT SCALE THIS DRAWING WRITTEN DIMENSION
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 3. THIS DRAWING SHOULD BE READ IN CONJUCTION
 WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWING
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REINFORCEMENT DETAILS

Please Reffer Drawing ST/DS/SC/00 CONCRETE DETAILS

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REV.	DATE	DESCRIPTION	REMARK
RI			
R2			
R3			
R4			

CLINT:-

Surya Builders & Developers

Plot no. 65, Acme Heights, Visheswaria N Behind D.C. Hospital, Tiwen ragar. Gonplury Byc-pess Jalipur, Rajashan

STRUCTURAL CONSULTANTS:-



SWEJ FARM, NEW SANGANER ROAD, JAIPUR-302019 E-mail: sg.structures@gmail.com Tel: 09772202219,0141-2297076

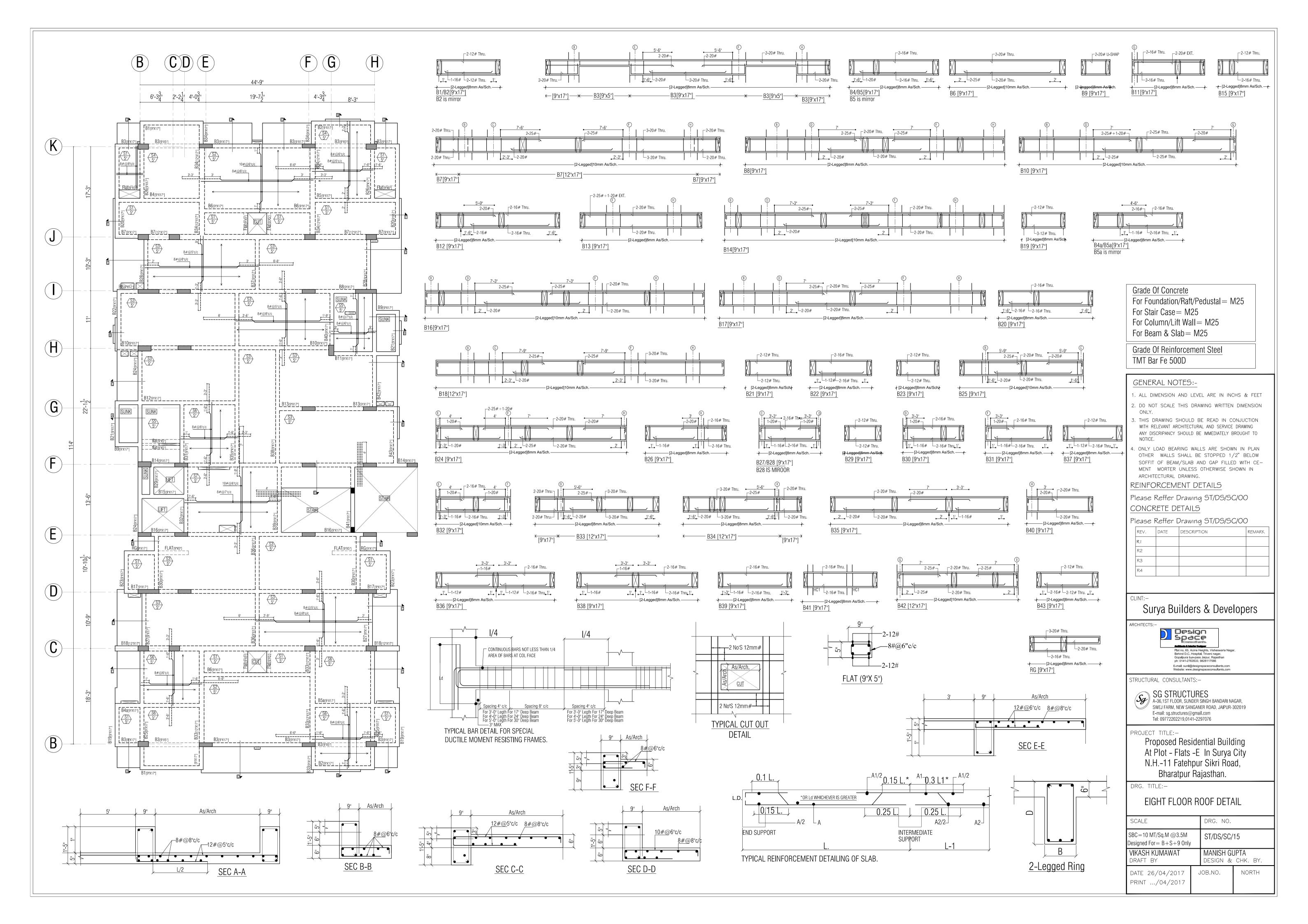
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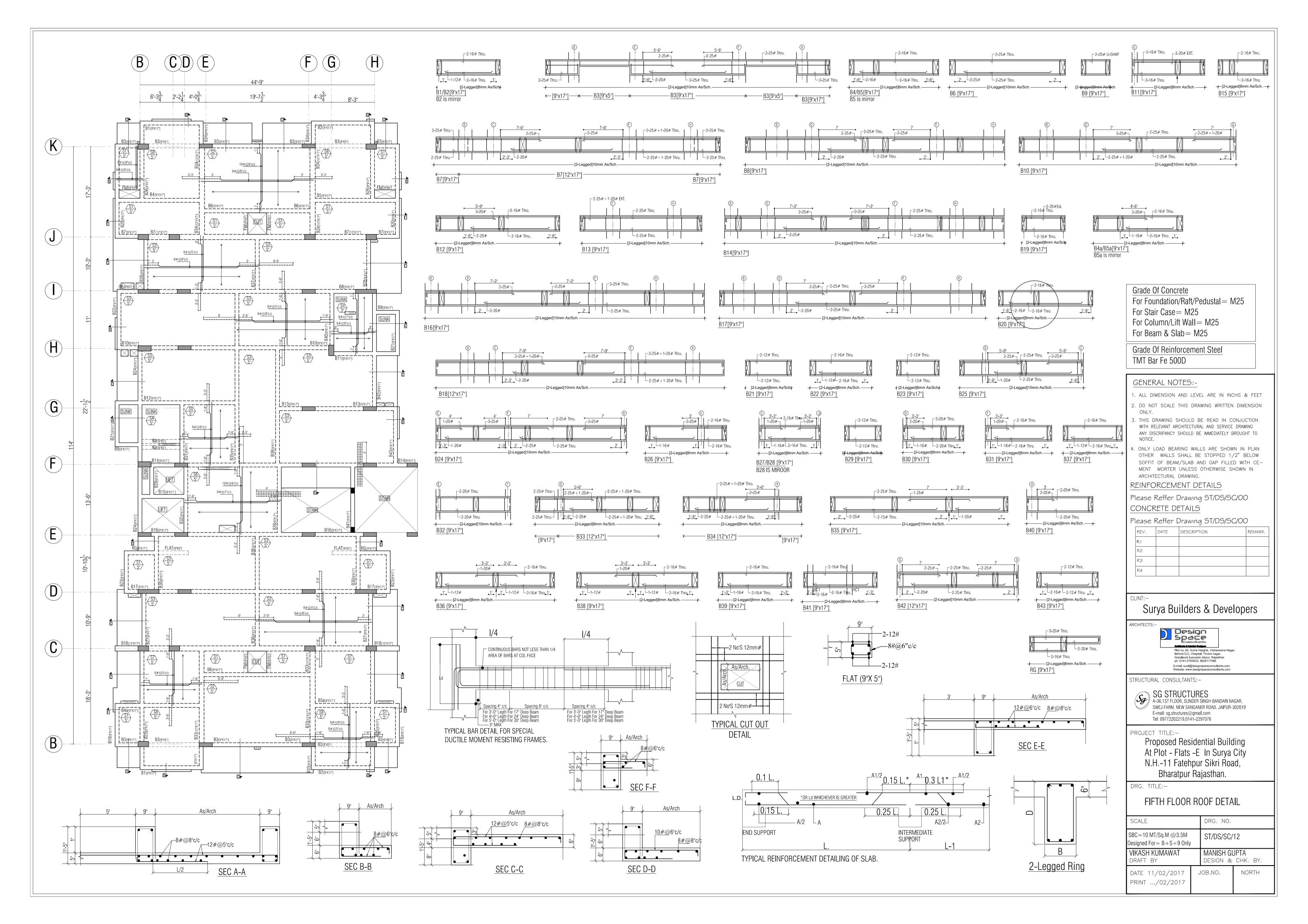
Proposed Residential Building At Plot - Flats -E In Surya City N.H.-11 Fatehpur Sikri Road, Bharatpur Rajasthan.

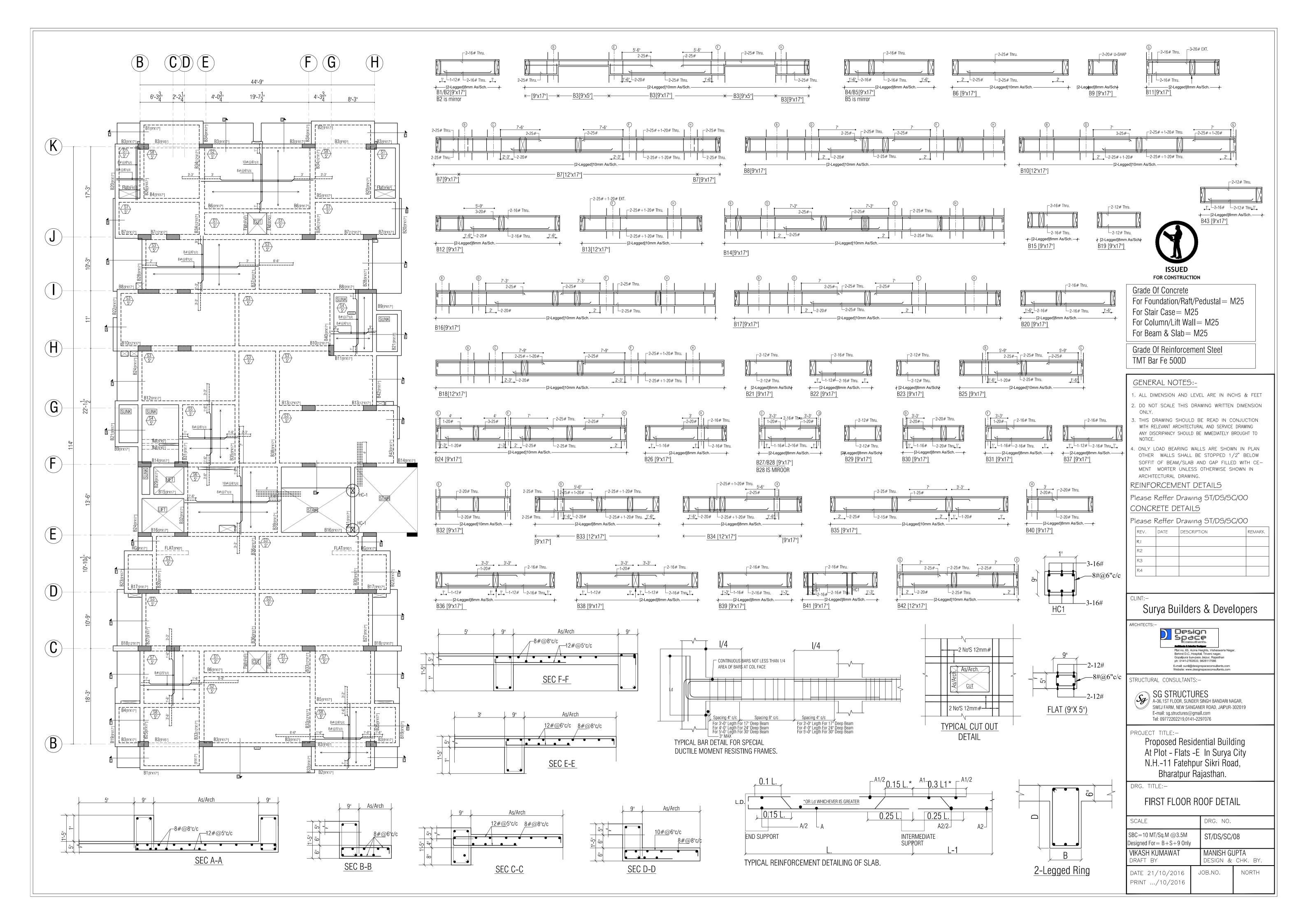
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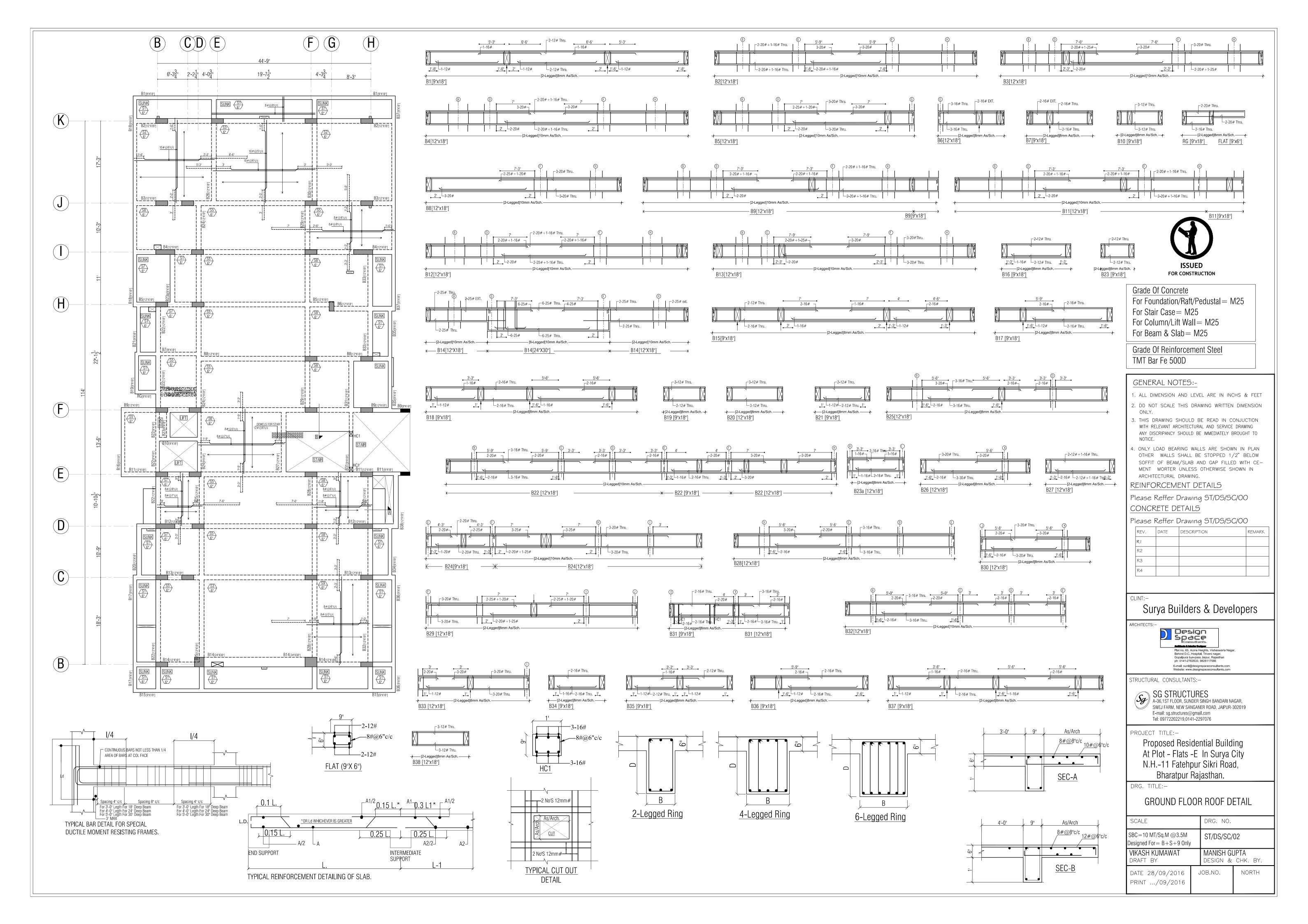
BASEMENT ROOF DETAIL

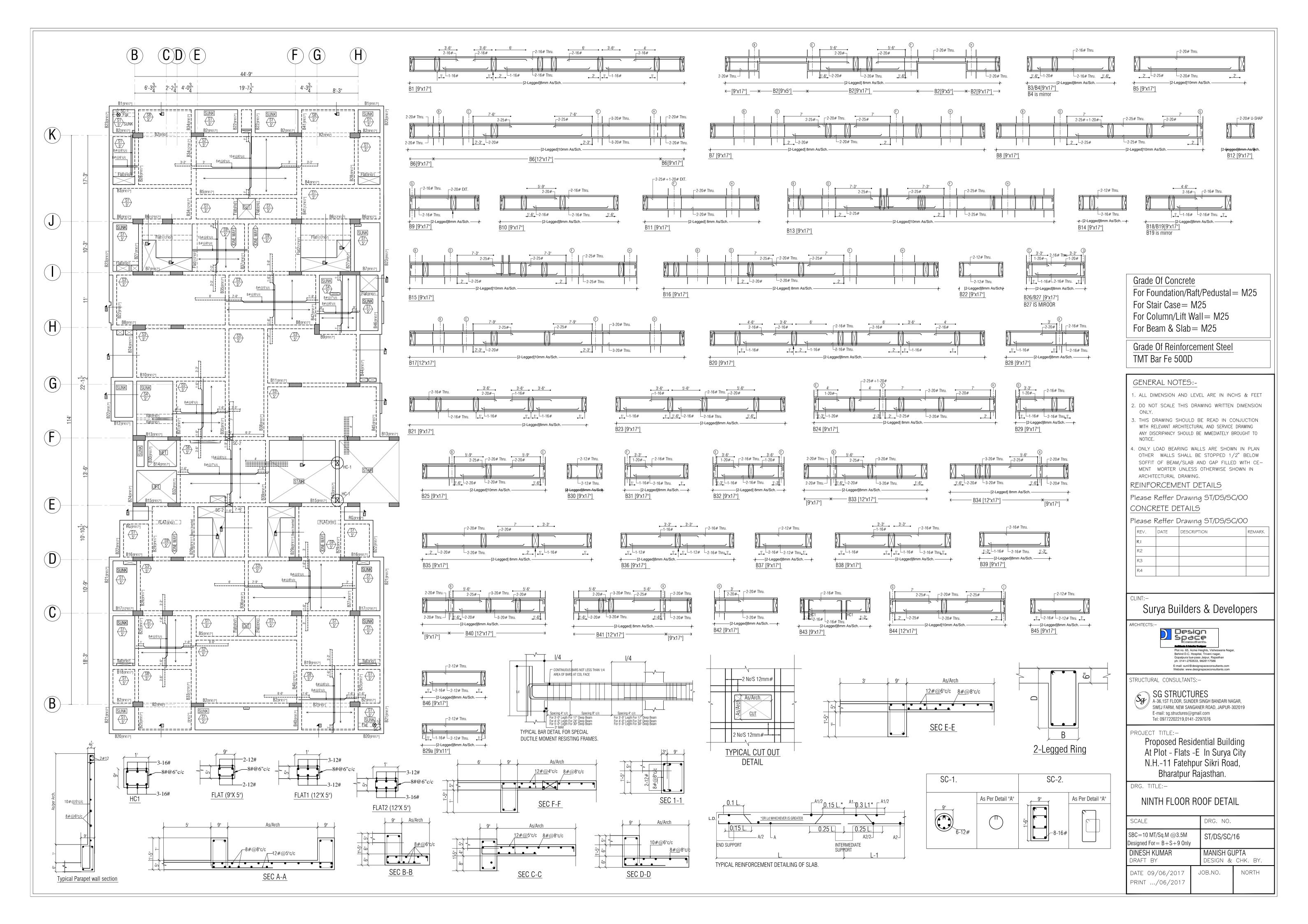
SCALE		DRG. NO.	
SBC=10 MT/Sq.M @3.5M Designed For= B+S+9 Only		ST/DS/SC/	02
VIKASH KUMAWAT DRAFT BY		MANISH GI DESIGN &	
DATE 21/06/2016 PRINT 21/06/2016		IOB.NO.	NORTH

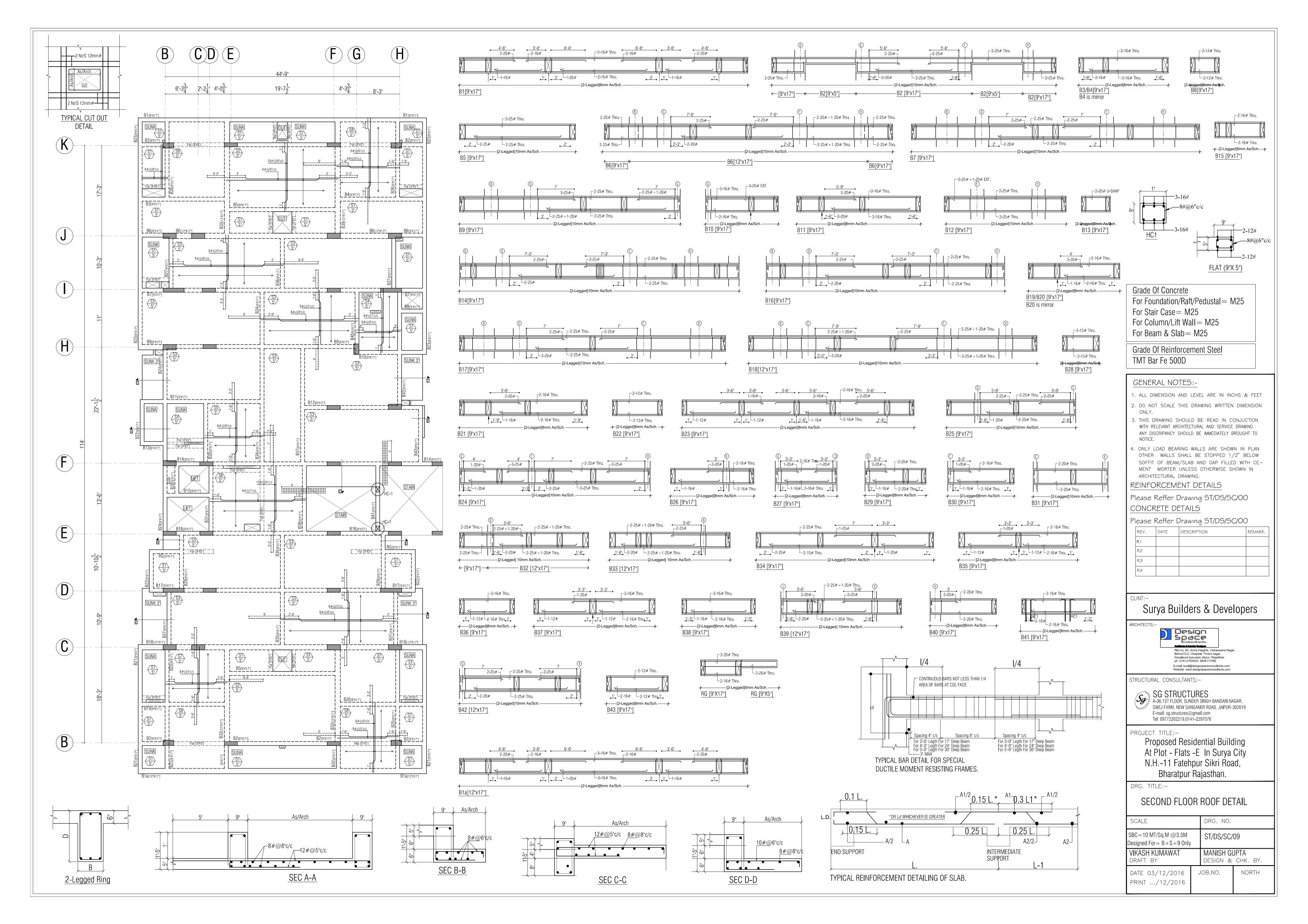


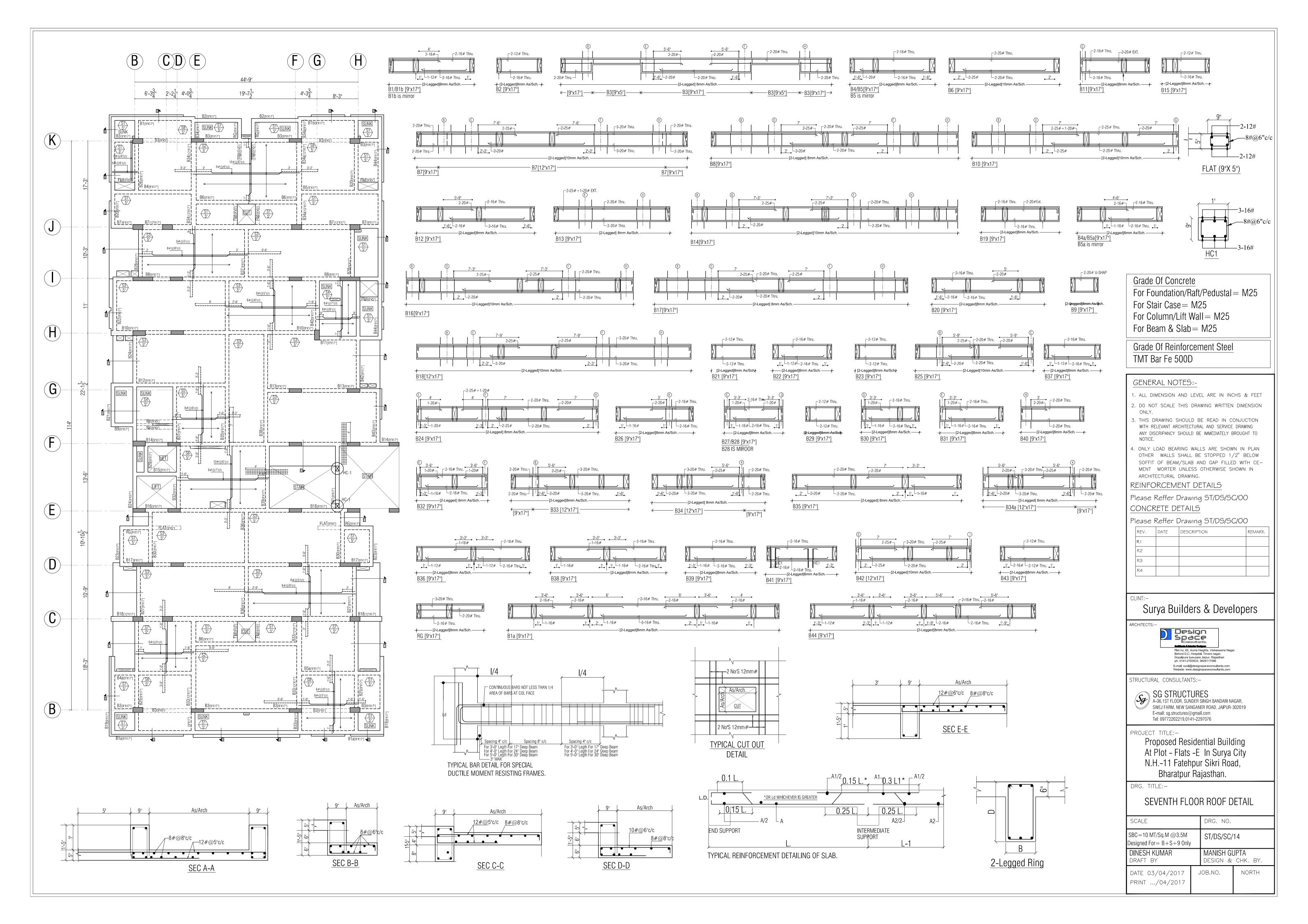


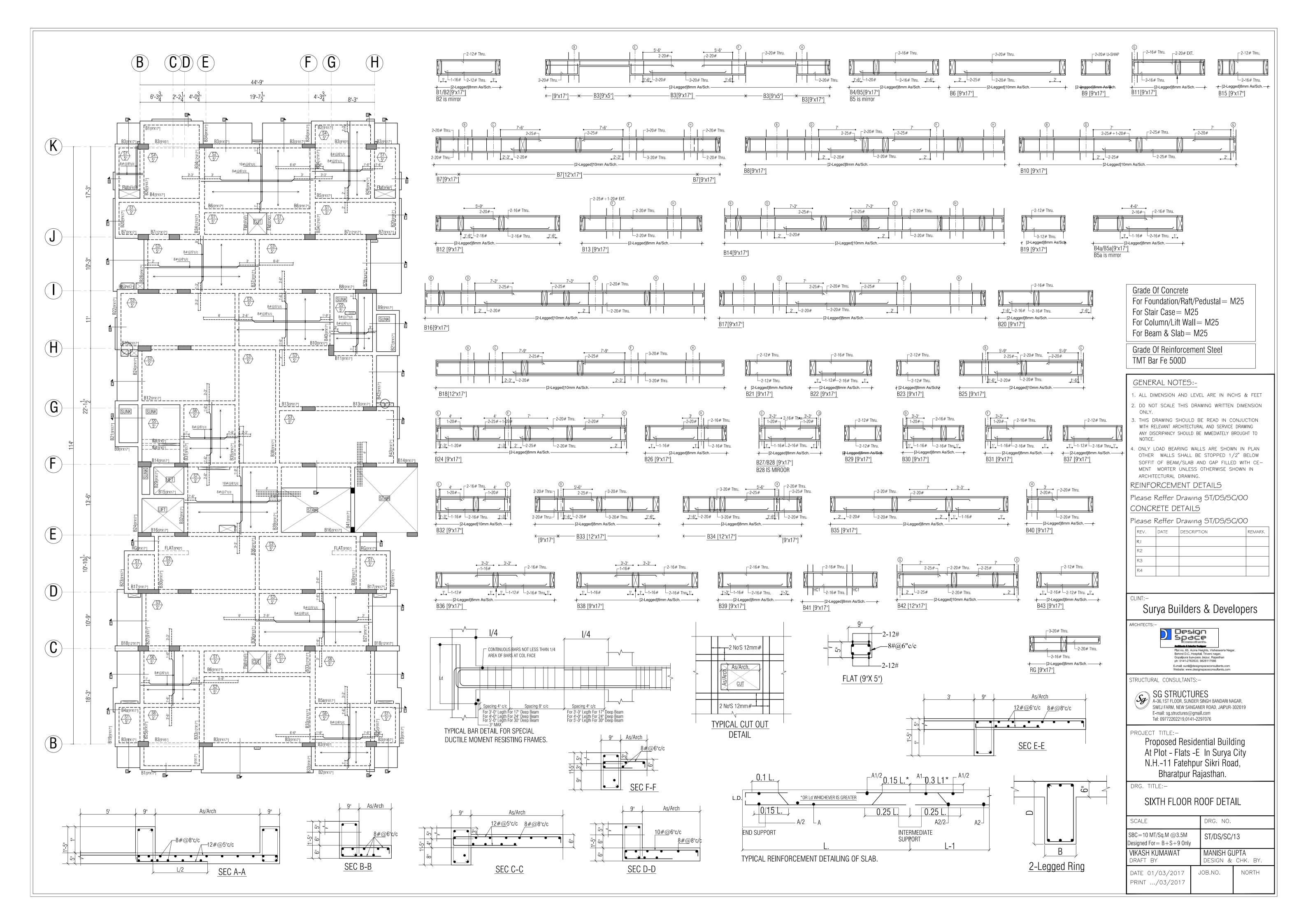


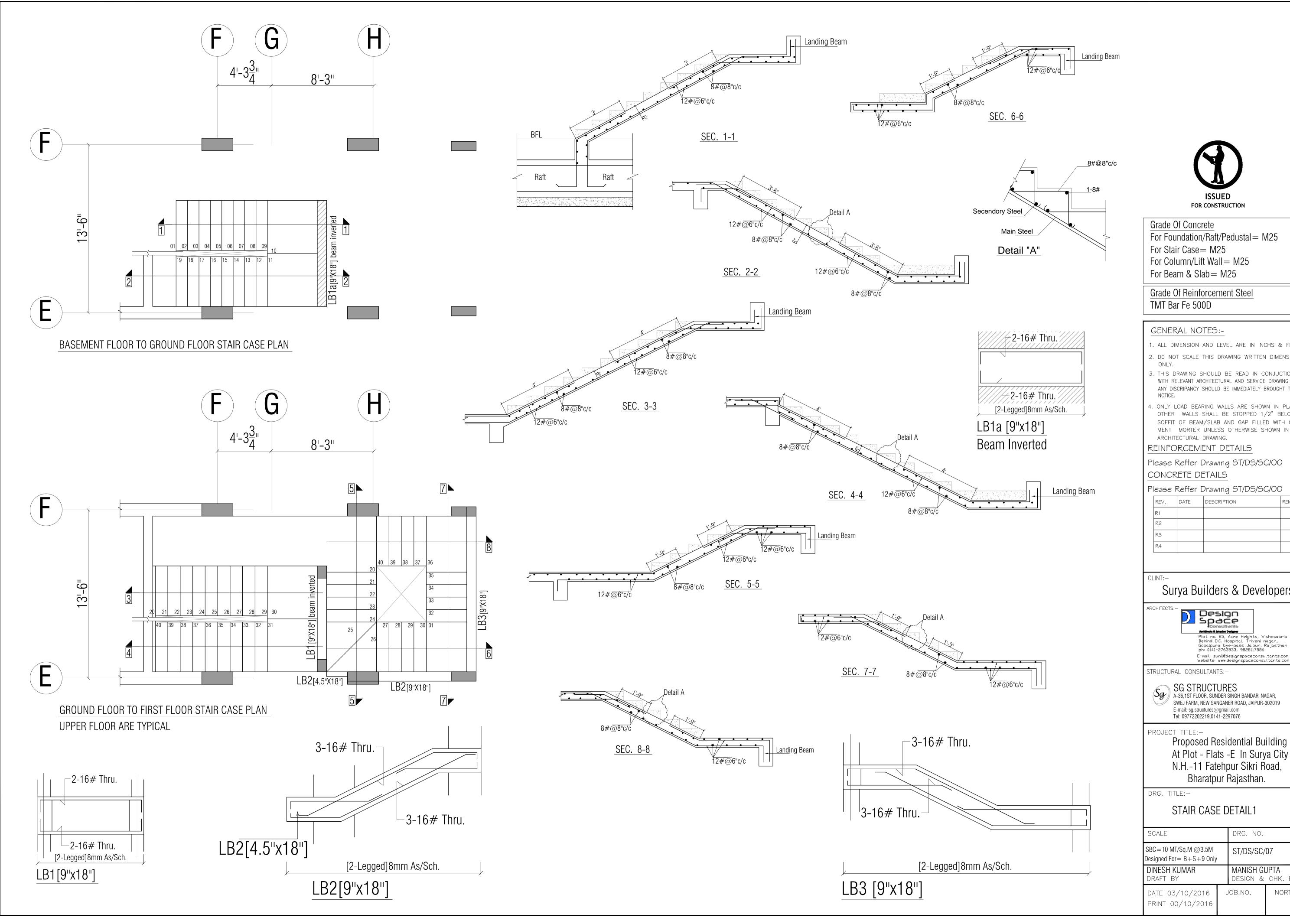












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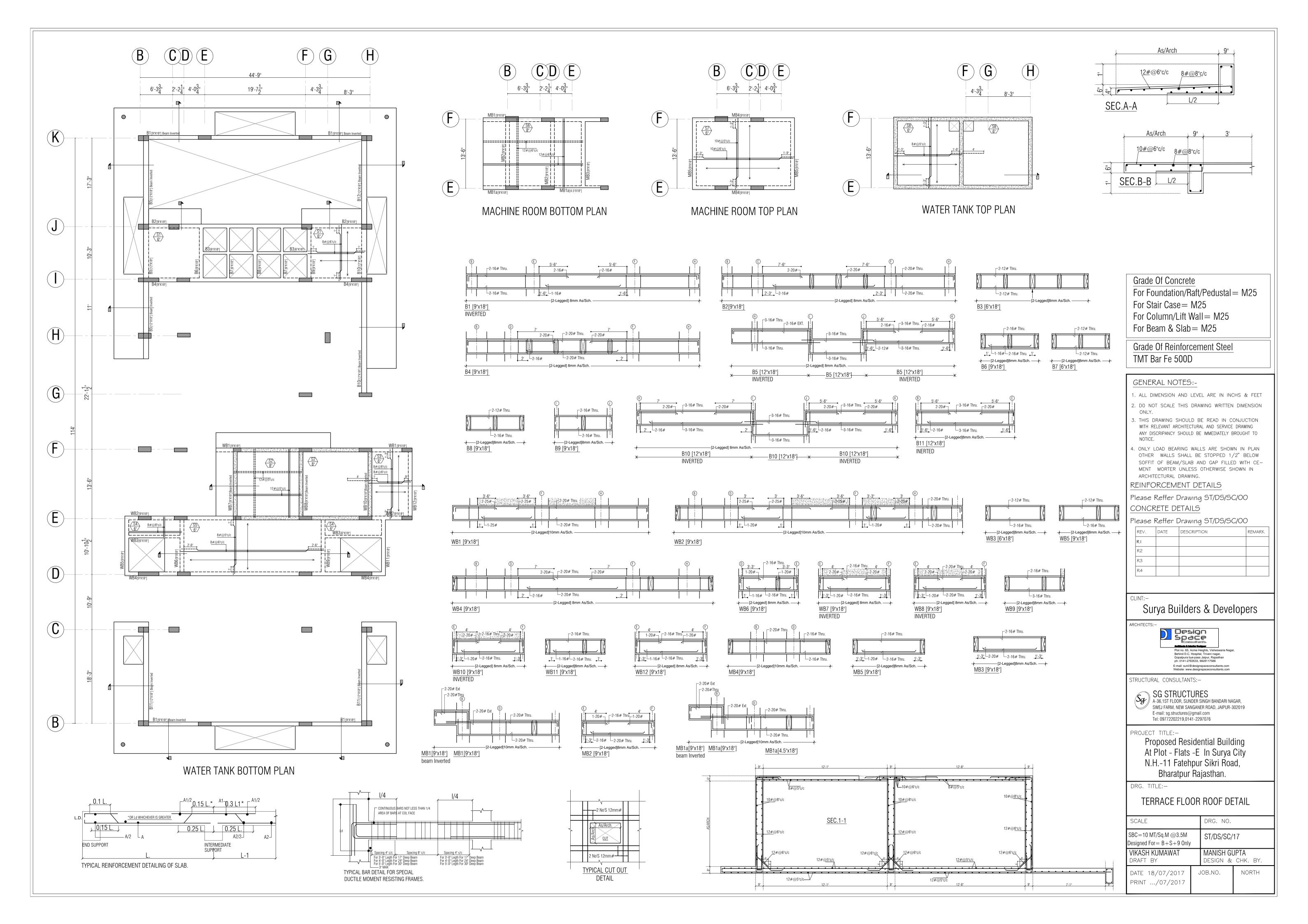
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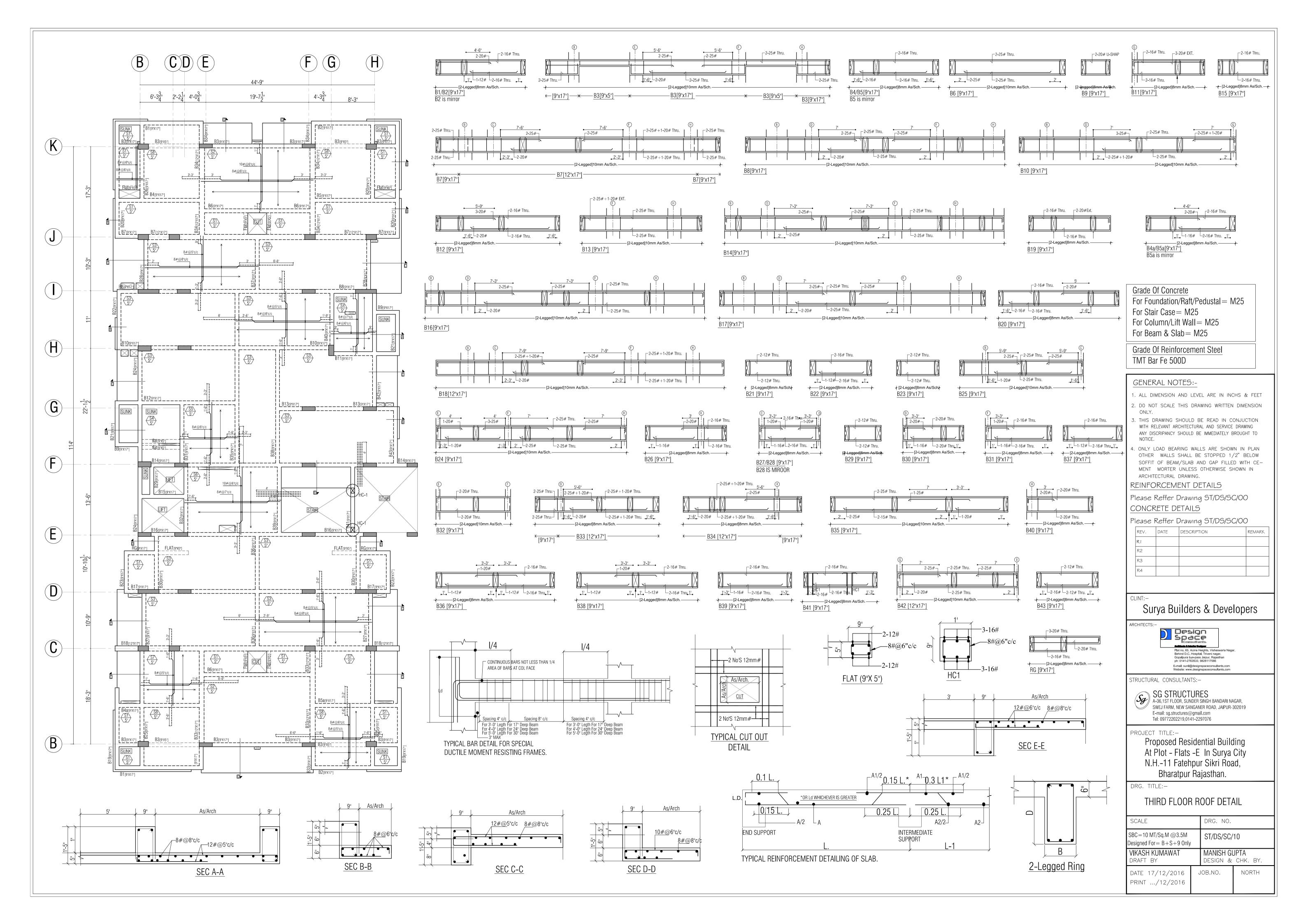
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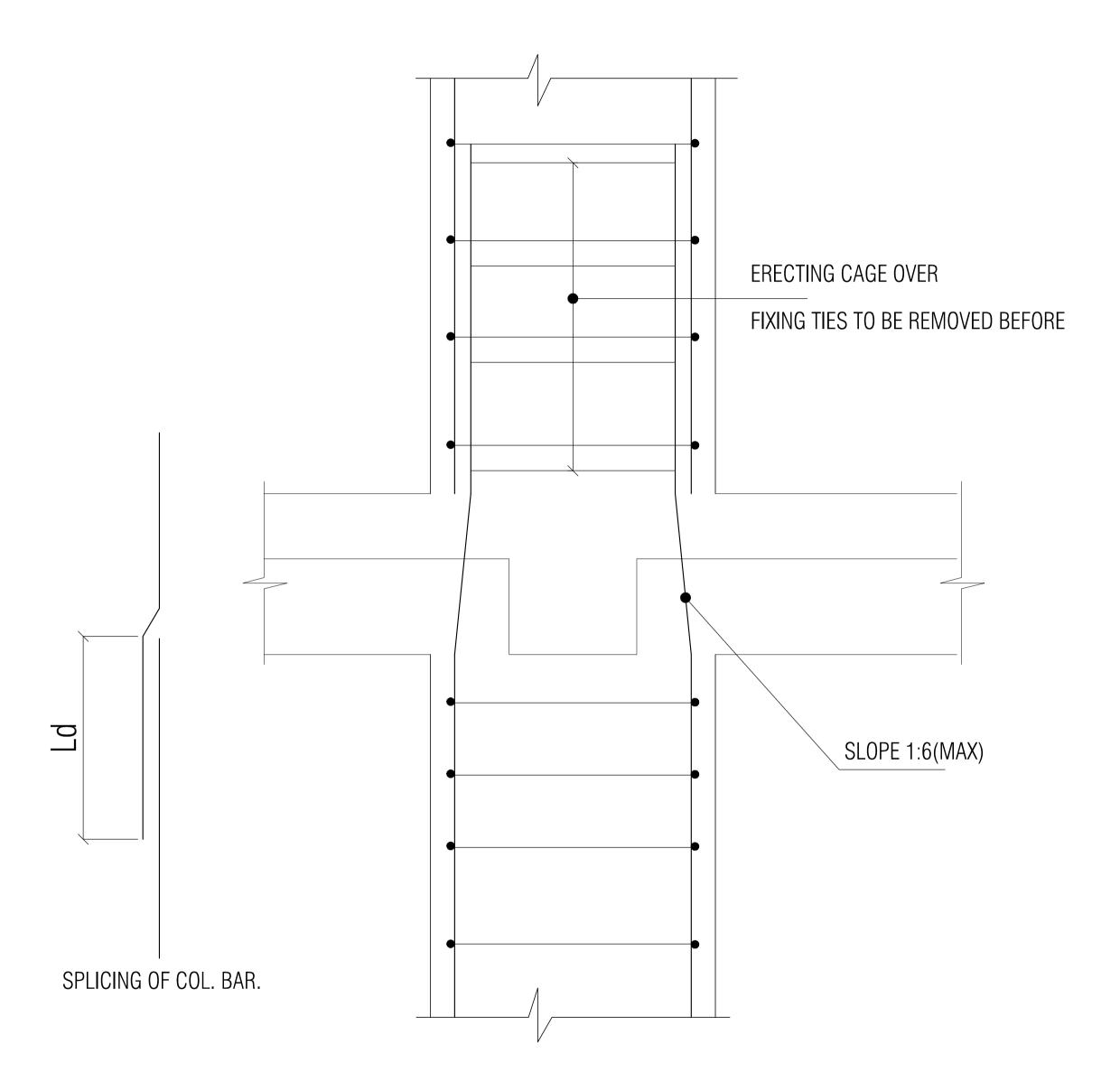
Plot no. 65, Acme Heights, Visheswaria Nagar Behind D.C. Hospital, Triveni nagar, Gopalpura bye-pass Jaipur, Rajasthan ph: 0141-2763533, 9828117586 E-mail: sunil@designspaceconsultants.com Website: www.designspaceconsultants.com

At Plot - Flats -E In Surya City N.H.-11 Fatehpur Sikri Road, Bharatpur Rajasthan.

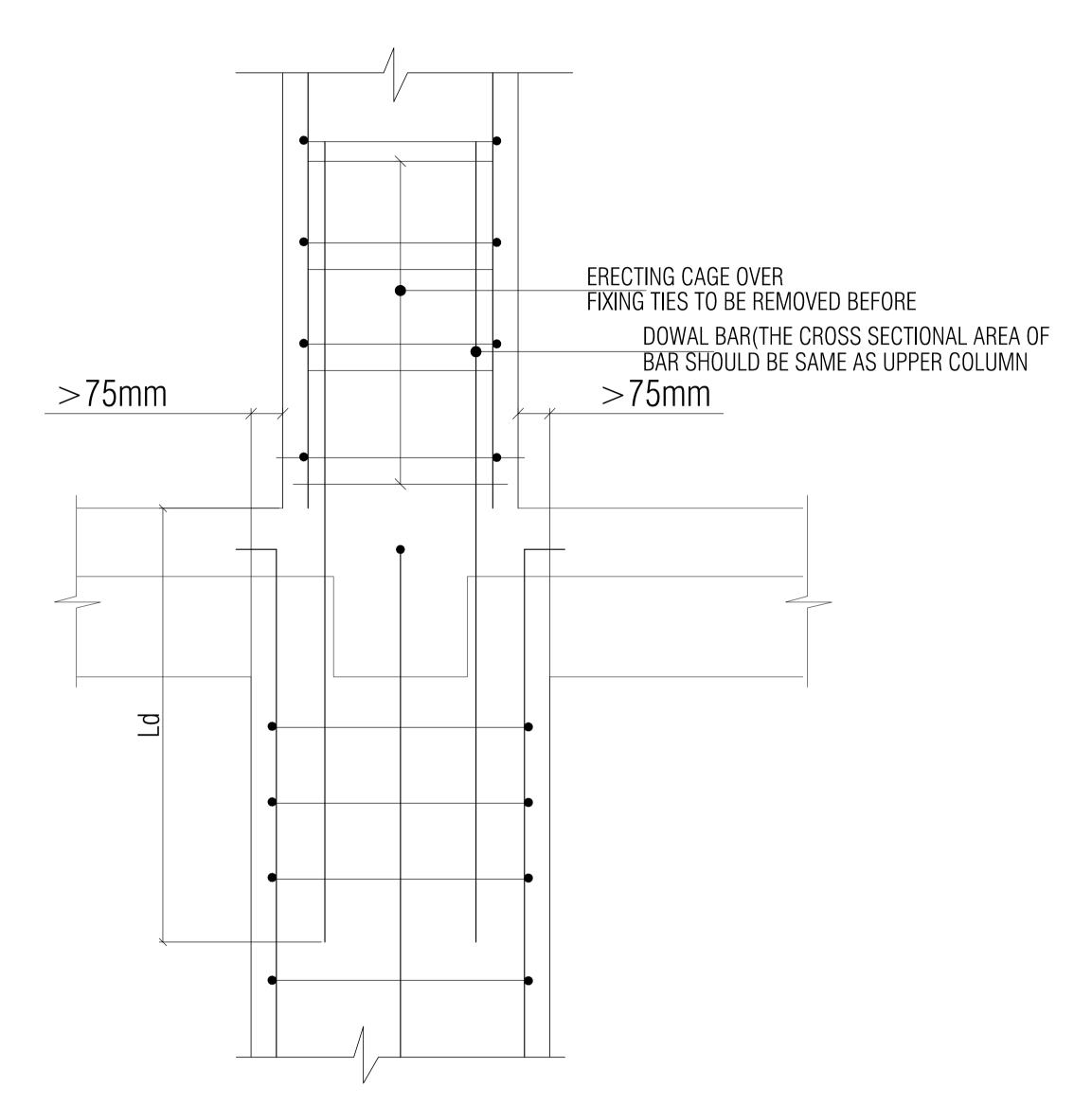
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SBC=10 MT/Sq.M @3.5M Designed For= B+S+9 Only		ST/DS/SC/07		
DINESH KUMAR DRAFT BY		MANISH GU DESIGN &		
DATE 03/10/2016 PRINT 00/10/2016	U	IOB.NO.	NORTH	







SPLICING OF COLUMN BARS AT INTERMEDIATE FLOOR.



SPLICING OF COLUMN BARS AT INTERMEDIATE FLOOR WHEN THE RELATIVE DISPLACEMENTOF THE COLUMN FACE IS MORE THAN 75MM.

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Design Space Communication

STRUCTURAL CONSULTANTS:-



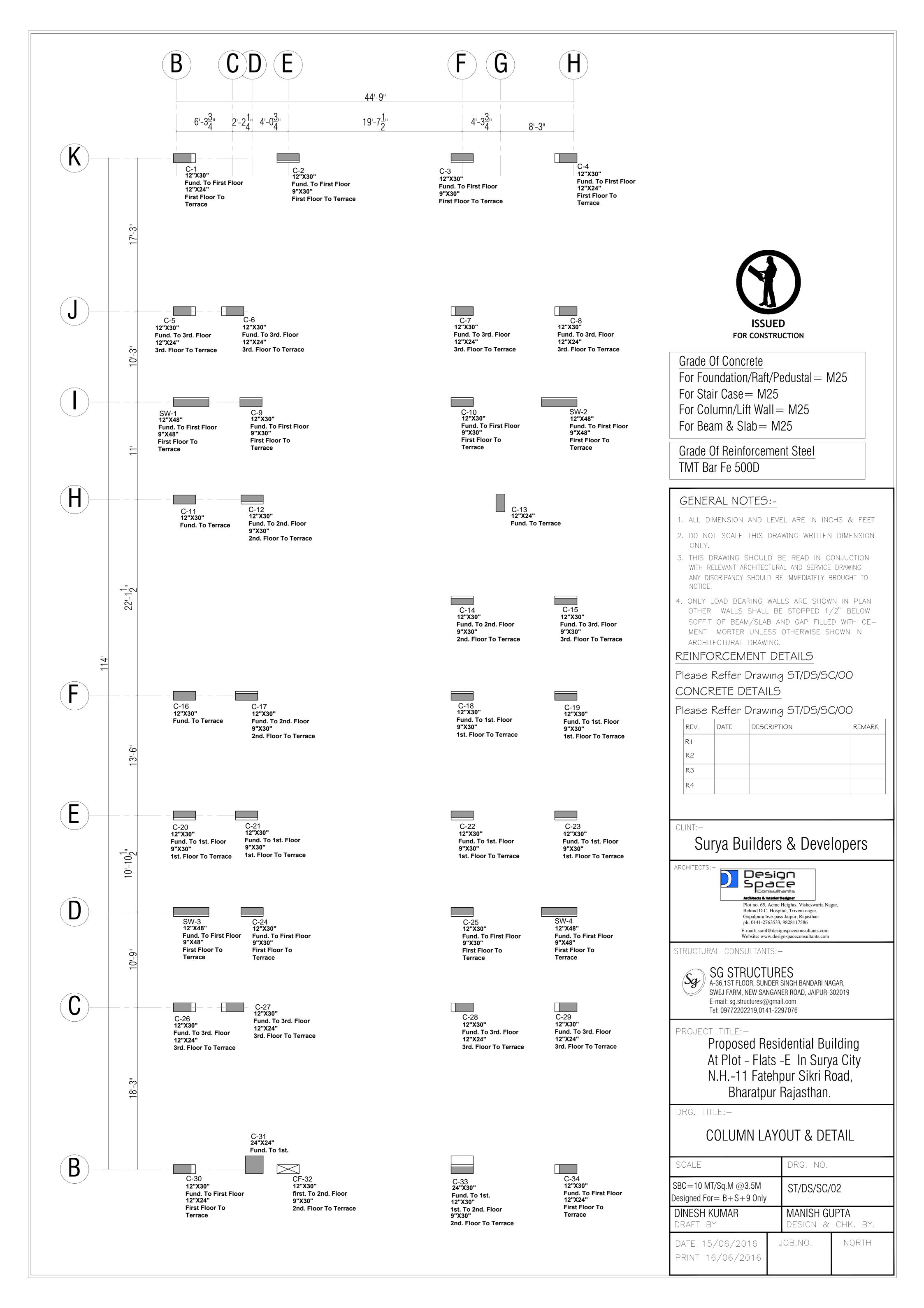
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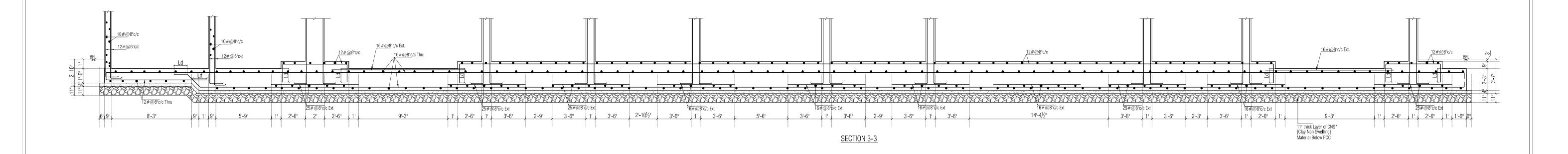
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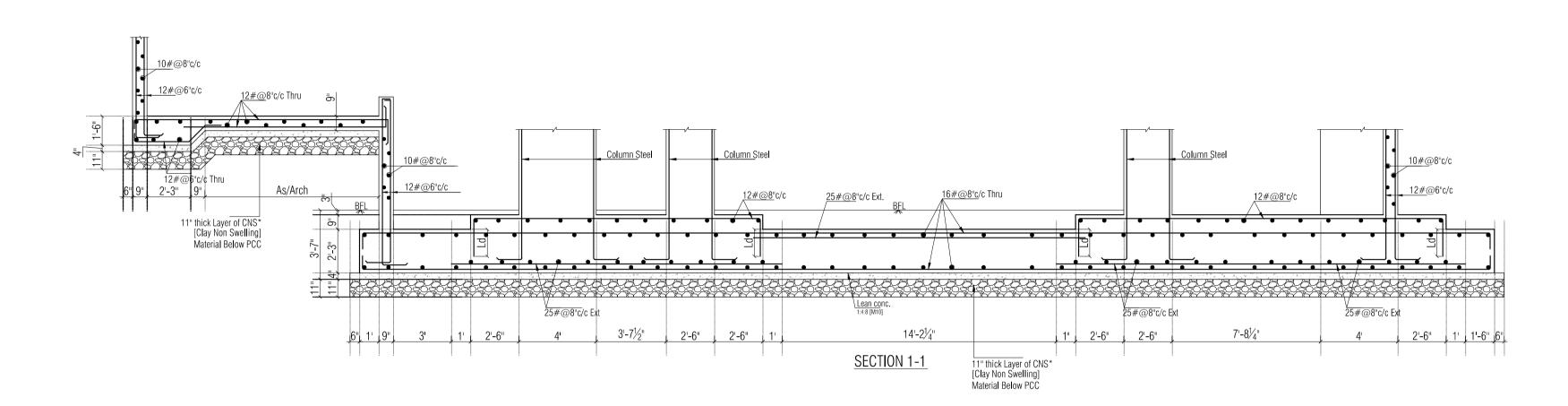
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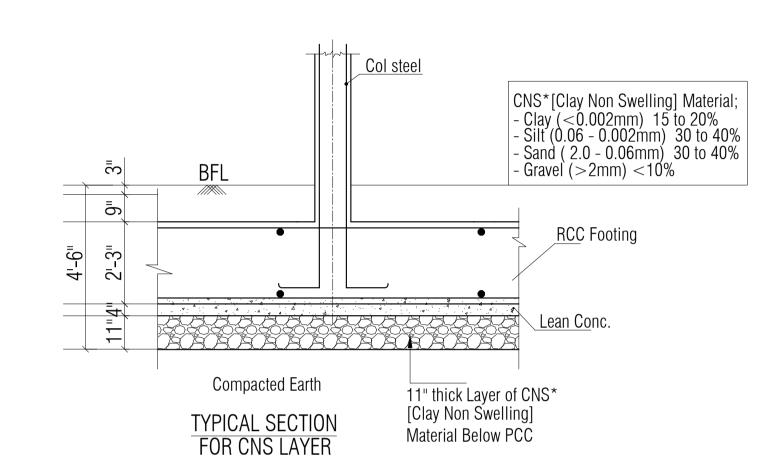
TYPICAL DETAIL

SCALE	DRG. NO.		
SBC=10 MT/Sq.M @3.5M Designed For= B+S+9 Only		ST/DS/SC/04	
VIKASH KUMAWAT DRAFT BY		MANISH GU DESIGN &	
DATE 14/09/2016 PRINT/09/2016	Ü	IOB.NO.	NORTH











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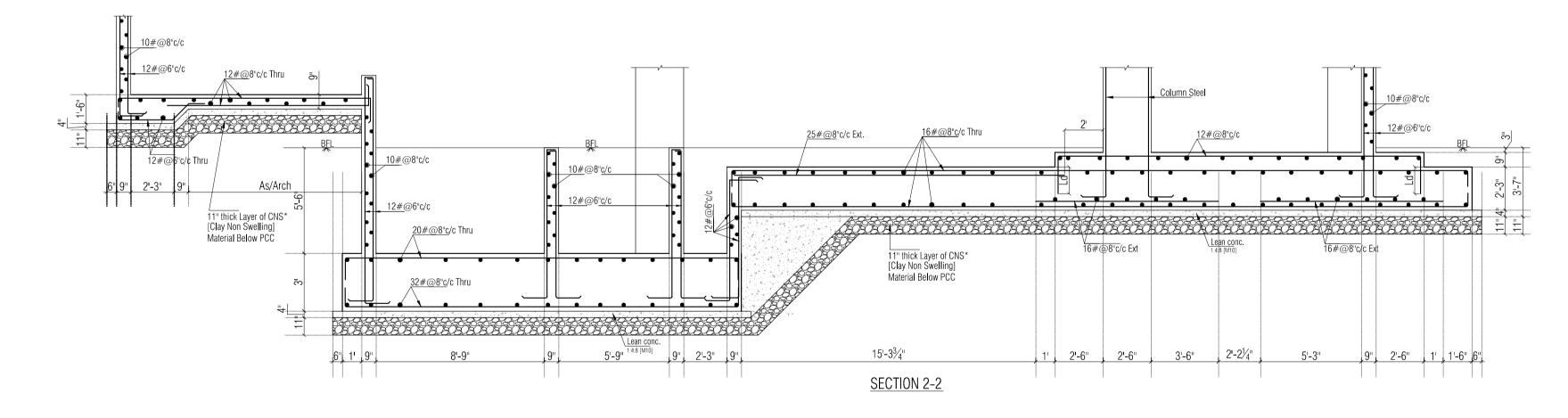
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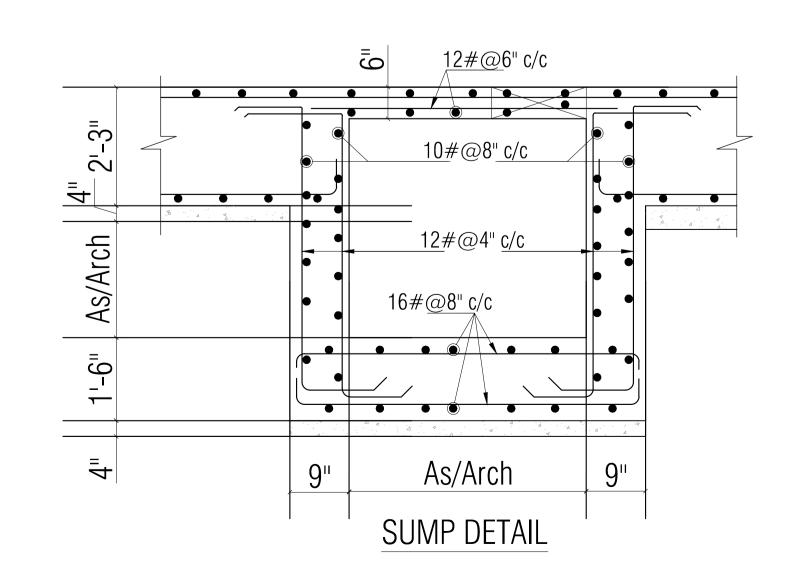
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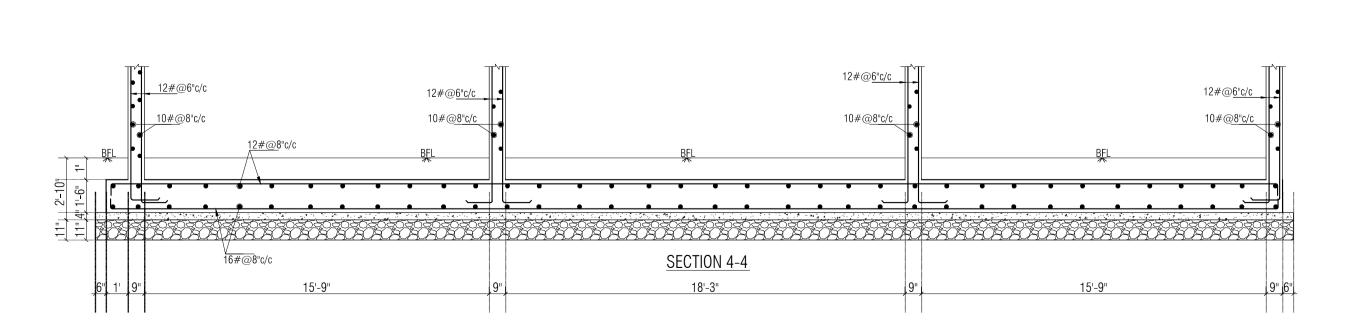
DRG. TITLE:—

FOUNDATION SECTION & DETAIL

SCALE	DRG. NO.		
SBC=10 MT/Sq.M @3.5M Designed For= B+S+9 Only	ST/DS/SC/05		
DINESH KUMAR DRAFT BY		MANISH GUPTA DESIGN & CHK. BY.	
DATE 15/06/2016	J	IOB.NO.	NORTH







GENERAL NOTES

- 1. Contractor to check and verify all dimensions
- before execution of the work.
- 2. All dimensions are given Feet Inches unless other wise specified .
- 3. Figured dimensions shall be followed.

 4. Evacutive authority shall check the drawing before tracing execution in hand.
- Executive authority shall check the drawing before tracing execution in hand.

 All structural drawings shall be read in conjunction with relevant architectural drgs any discrepancy between them observed shall be brought to
- the notice of the accepting officer for necessary clarification.

 Any variation between the details given in the structure grd and tropical drg, the details shown in structural drawing shall be followed.
- All reinforcement for rcc work shall be TMT Grade Fe 500 conforming to IS: 1786-1985

 The foundation has been designed as raft footing some of footing are combined box type footing.
- The SBC has been taken as 15MT/Sq.m at a depth of 3.0 Meter Below Natural Ground level.

 9. While laying foundation, contractor shall make suitable arrangements to lower the subsoil water [If Any] below the foundation level. Foundation concrete shall always be provide under foundation of all RCC/ masonry structural.
- 10. Lean concrete in PCC as per specified to min thickness (unless other wise specified or shown in DRG) shall always be provided under foundation of all RCC / masonry structure.
- 11. Unless other wise mentioned lintels over opening/ jails niches shall be provide as per typical DRG of lintels and chanjjas.
- 12. RCC lintel band over full and half block thick wall shall be provided continuously at lintel level (2.1 M above FFL) under sl no. 11 above and where height of solid wall exceeds 2.4 M
- 13. Water used for mixing and curing of concrete work shall conform to quality criteria specified in IS: 456-2000

 14. Unless other wise specified the structural concrete shall be M 30 for columns & Retaining Wall and M20 for all other structural members
- (design mix concrete conforming tothe acceptance criteria given in IS:456-2000)
- 15. Form working for concrete shall be rigidly constructed of approved materials and shall be true to the shape and dimensions of the finished members and water tight. Form work shall be designed for all imposed loads (dead, live, constructional, wind, vibration, impact, fluid pressure
- 16. From work shall be supported on closely spaced stiff props adequately braced in plan and firmly placed on sub-base ground not liable to settle under loads.
- 17. Aggregate to be used in structural concrete shall be crushed/broken stone as coarse aggregates, river/PIT sand/ stone dust as fine aggregates
- conforming to grading and other quality criteria as specified in IS : 383

 18. Strength of hollow blocks/ solid blocks shall not be less than 35 kg/cm2 and 45 kg/cm2 respectively
- 19. All plinth beams shall be cast over 6" th. PCC 1:4:8 width of beam plus 6" wide were ever directly resting on fully compacted earch.
 20. All existing walls and wall below plinth level shall be constructed with solids blocks.
- 21. Wall shall be constructed over PB as shown in the drawing where PB is not available, wall shall rest over dwarf wall /foundation.
- 22. The missing details, if any in structural DRG but technically required based on sound engineering practice, must followed and read in
- 23. In beams, wherever reinforcement bars are provide in two or more layers, space bars of 25# @ 4' c/c shall be provide between the reinforcement layers.
- 24. PCC lean concrete below foundation shall have 6" offset on all sides. Wherever the gap between two footing is less than 8", the whole gap shall be filled with lean concrete.
- 25. Clear cover to all reinforcement shall be as under:

			0.550
PRTICULAR	воттом	TOP	SIDES
SLAB	3/4"(20MM.)	2/3"(15MM.)	
FOOTING	2"(50MM.)	2"(50MM.)	2"(50MM.)
RETAINING WALL		1"(25MM.)	11/2"(40MM.) (EARTH SIDE) 2/3"(15MM.) (IN SIDE)
COLUMNS			11/2"(40MM.)
BEAMS, LINTEL	1"(25MM.)	1"(25MM.)	1"(25MM.)
WALLS,FLOOR SLAB & ROOF SLAB OF WATER TANK.			1"(25MM.) ON WATER FACE 1 1/2"(40MM.) (ON ERTH SIDE) WHERE APPLICABLE

- 26. The building has been designed as per IS: 13920-1993 and IS: 456-2000 considering earthquake zone III for Bhartpur, Rajasthan
- 27. Admixtures :
 - A. ADMIXTURE IF USED SHALL COMPLY WITH IS: 9103
 - b. It should not impair durability of concrete
 c. The workability, compressive strength & the slump loss of concrete with & without the use of admixture shall be Established during
- trial mixes before its use.
- d. Preparation of mix using admixture is to be as per manufactures instructions.

 For any other details not shown / indicated on DRG. Shall be as per IS 456:2000, IS 13920:1993,

REINFORCEMENT DETAILING

- 29. All reinforcement shall be terminated with straight length or L shape unless other wise specified
- The horizontal distance between two parallel main reinforcement bars shall not be less than dia of the larger dia bar or 5 mm more than nominal size of coarse aggregate, which ever is more. Spacing of long bars measured along periphery of the col. Shall exceed 300 mm.
- 31. First main / secondary bar in a slab shall be placed along the center line of the span and other spaced as specified in the DRG covering the enter span
- between center line of supports.

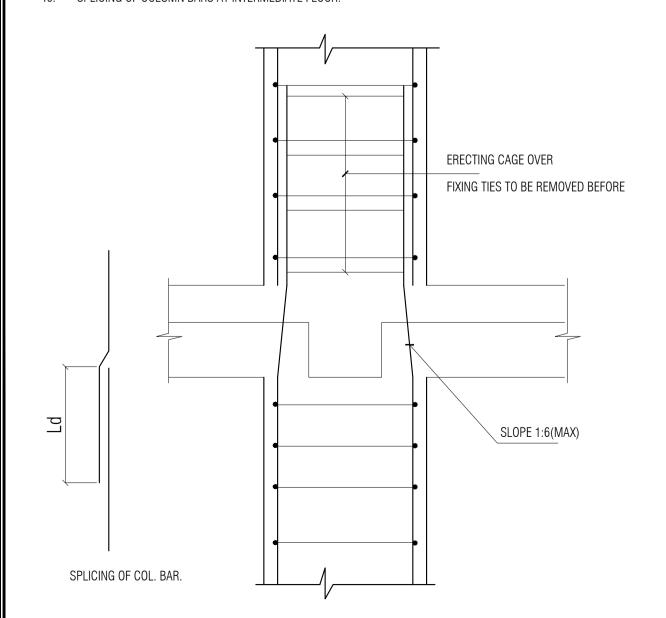
 32. In beam/ lintels, first stirrup shall be at the center of span and subsequent ones at the spacing indicated in the DRGS
- Temperature reinforcement (distribution steel in slab where not shown in drawing shall be 0.12% (tor)
 Unless other wise specified 8# @ 300 c/c shall be provide as binders in top portion of slab reinforcement and placed parallel to support.
- 34. Unless other wise specified 8# @ 300 c/c shall be provide as binders in top portion of slab reinforcement and placed 35. Positive reinforcement in shorter direction in middle position region for negative reinforcement.
- Min 3 nos 8 mm # diagonal bars shall be provided at the corners of freely supported or non continues edges of slab
 Unless other wise specified side face reinforcement shall be provide for all beams of depth exceeding 750 m as per IS : 456-2000, or as shown in
- 38. Anchorage length :- all RCC structure elements (column, cantilevered, beams & slab) shall have their main reinforcement suitable anchored to provide the full development length (48 x d) for tension & 38 x d for compression for M 25 mix concrete & FE 500)
- provide the full development length (57 x d for tension & 46 x d for compression for M 20 mix concrete & FE 500)
- No laps shall be provide in the high stress zones listed below.a. Middle 1/3 span of slabs/ beams in case of positive reinforcement.
 - b. 0.3 L of span from the supports in case of beams/ slabs for negative reinforcement.
- c. 0.25 L from the supports / junction in case of longitudinal reinforcement for column.
 d. Not more than 40% bars shall be lapped at any one section.
- e. Laps shall be staggered with min distance equal to 1.3 times the lap length between two lap section.
- Lap length: unless specified, lap splice shall be provided for all bars less than 36 mm dia (bars of more than 36 mm dia shall be welded)

 Tension compression
 - 48 x dia 38 x dia
 - a(2) tor steel [M20 & Fe500] 57 x dia 46 x dia b) When bars of different dia area to be spliced lap length shall be calculated on basis of smaller dia.
- c) Splice of bars in columns shall be avoided as far as possible. Where inescapable laps shall be provided after interval of two stories.
- 41. For the/ floor and rafter slabs, chair supports shall be provided to maintain vertical spacing between top and bottom reinforcement bar.
- 42. 3 x 10 # or 2 x 12 # bars shall be longitudinally provided in the RCC floor slab where partition/ panel walls are supported on them.

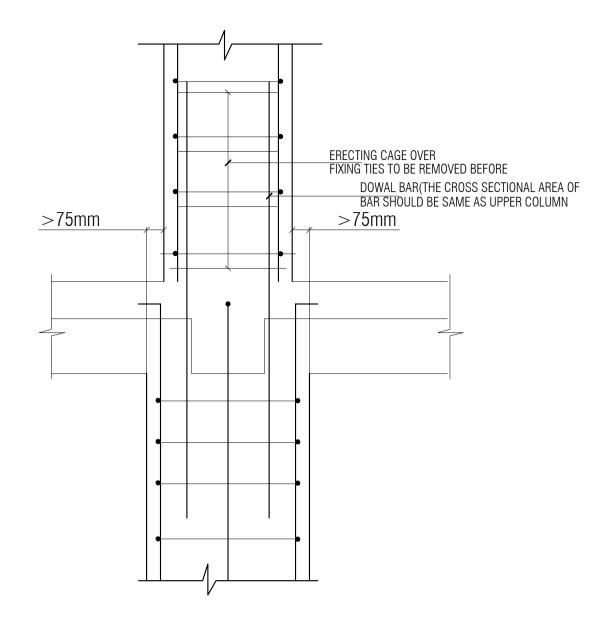
 43. Dowel bars shall be held firmly in position to avoid dislocation and loss of bond due to vibration during construction stage.
- 13. Dowel pars shall be need firmly in position to avoid dislocation and loss of bond due to vibration during construction stage.

 14. In pashed construction vertical reinforcement of columns (dowels) shall be extended (and left) beyond slab min 50 times the dia of bars with at least
- 50 % bars extending up to 100 times the dia of the bar unless otherwise specified.
 Top of all construction slabs shall be kept at the same level similarly soffits of al adjoining cantilevered projection shall be at the same level.

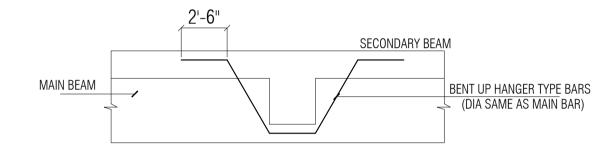
 SPLICING OF COLUMN BARS AT INTERMEDIATE FLOOR.



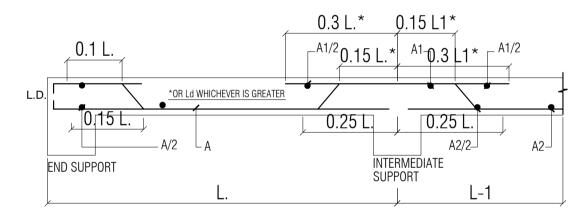
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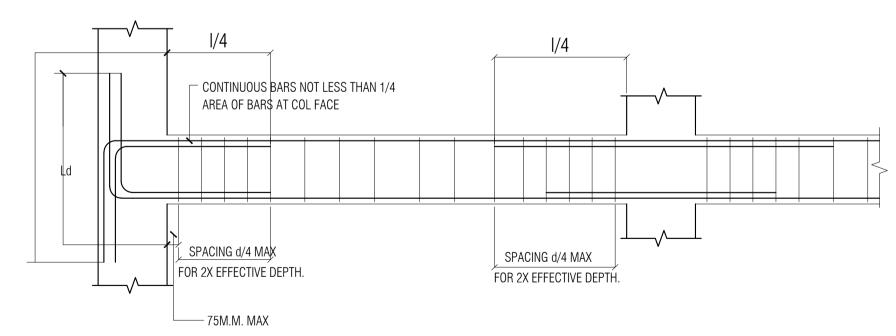
48. BENT UP HANGER TYPE BARS AT MAIN BEAM & SECONDARY BEAM JUNCTIONS.



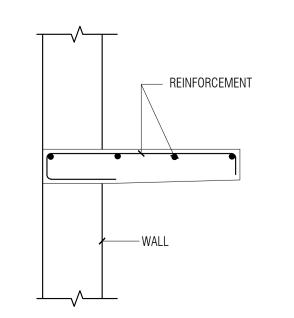
49. TYPICAL REINFORCEMENT DETAILING OF SLAB.



50. TYPICAL BAR DETAIL FOR SPECIAL DUCTILE MOMENT RESISTING FRAMES. THE ARRANGEMENT ENSURE A DUCTILE JUNCTION AND PROVIDE ADEQUATE ANCHORAGE OF BEAM REINF. IN TO COL.

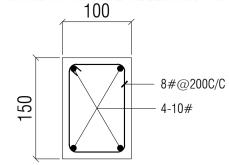


51. R.C.C. CHAJJAS/ SHELVES.
WHERE EVER R.C.C. CHAJJAS/ SHELVES ARE PROVIDED WITH OUT LINTL,
THESE SHALL BE TAKEN IN TO THE FULL THK. OF THE WALL.



52. R.C.C. BAND FOR HALF BRICK WALL.

IN CASE OF 100TH. WALLS EXCEEDING 2000 IN HEIGHT R.C.C BAND SHALL BE PROVIDED AT EVERY 2000 INTERVAL AS SHOWEN IN THE FIGURE THE BEARING OF R.C.C. BAND SHALL BE EQUAL TO THE WIDTH OF THE ADJOINING WALL



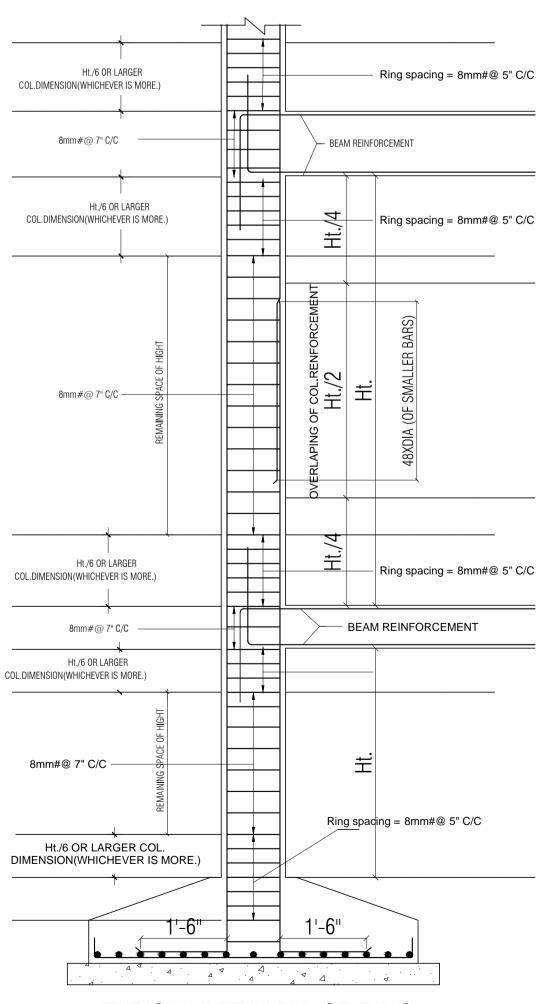
CONSTRUCTIONAL DETAILS.

- 1. For slabs plate / surface vibrator shall only be used for compaction to insure better quality control & needle pin vibrator shall not be used
- 2. A plaster groove of width 12 mm and depth 5 mm shall be provided all long the junction of RCC slab and masonry wall (internal)
- 3. Concerting of the entire roof slab including beams between construction joints / crumple section shall be done in one operation. If a joint inescapable it shall be a vertical joint in the middle third of the span and parallel to the main reinforcement.
- 4. Structural continuity in RCC between two successive days work shall be achieved by cleaning the old surface of all loose concrete appling net cement slurry and proper compaction.
- 5. Curing of all structural concrete shall be done up to a main time period of 14 days or the stripping time of from work which over is later

REMOVAL OF CENTERING

- 1. The centilever for sopporting the over hang of cantilevev beam slabs should be retaing untr sufficiend counter weight over the bearing has been attained
- by building masonry or otherwise.

 2.The shuttering for cantilever slab / beam should be removed starting from the over hang edge.
- 3.Im case of canopies with cantilever beam the centring for the canopy .slab in between the beam shall be removed frist.
- 4.Stripping time for concrete shall be as under if 0 P C is used.
 a)Verticale form work to columns, walls, beam-24hrs.
- b)Slabs up to 4.5 M span. c)Slabs above 4.5 M span.
- c)Slabs above 4.5 M span. 14 days d)Beams & arches up to 6 M span. 14 days
- e)Beams & arches above 6 M span. 21 days 5.ln case of P P C 50 % stripping time to be added.
- 6.In case of from work has re-entrant angles the from work shall be removed as soon as possible after concrete has set to avoid shrinkage crakin.



TYPICAL DETAIL"A" OF RING SPACING IN COLUMN



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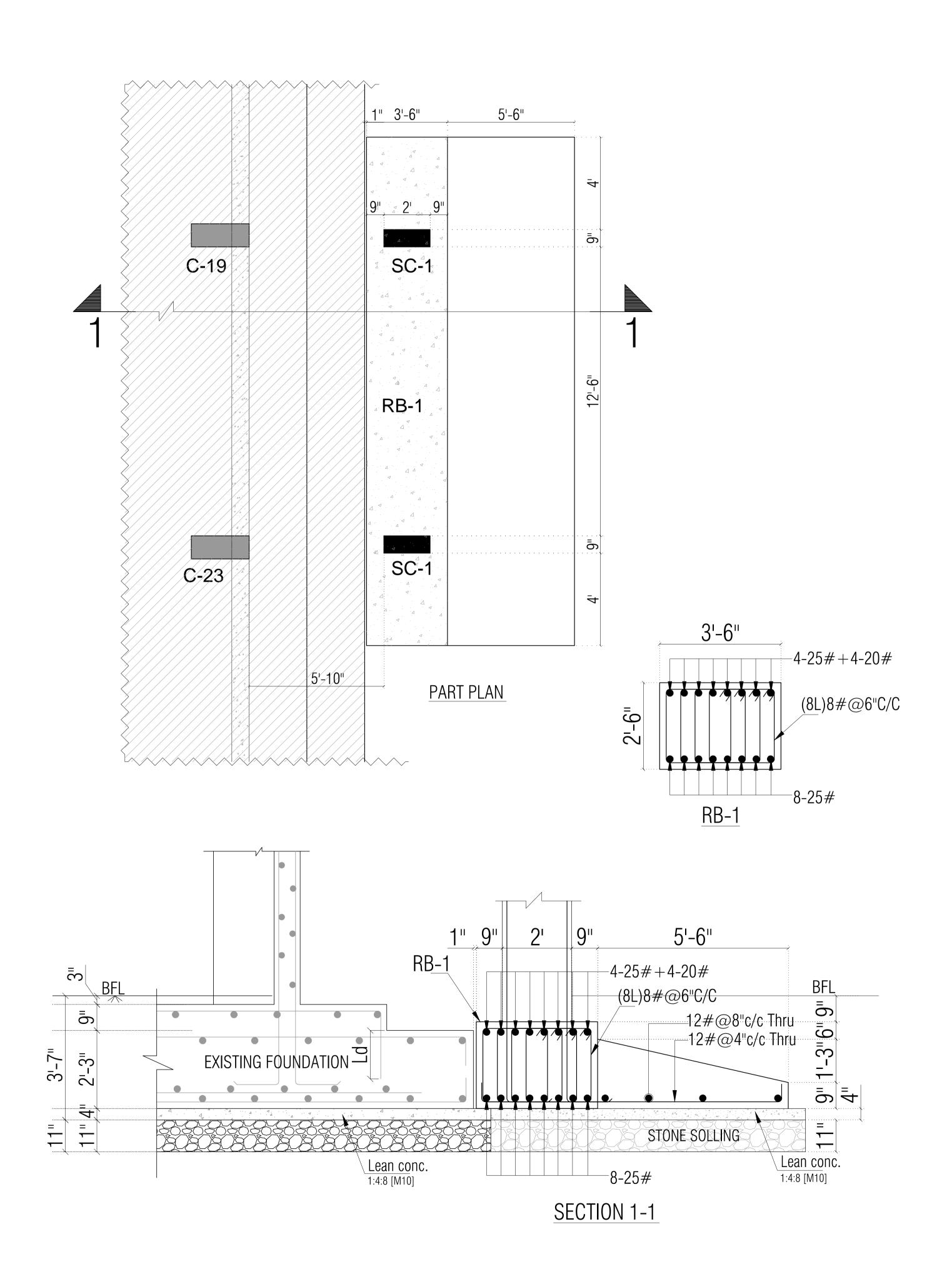
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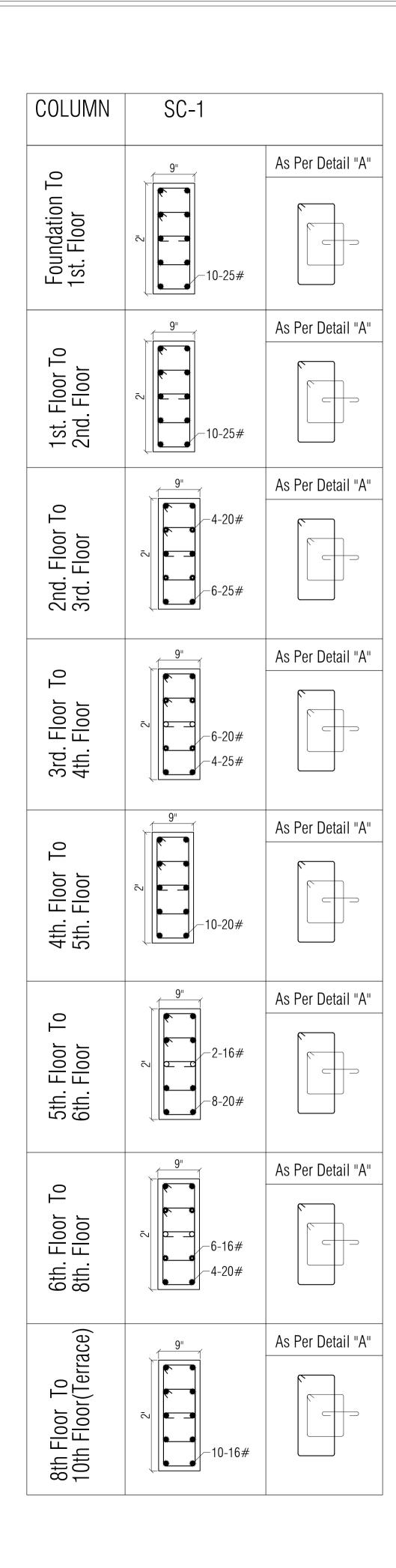
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CLINT:-

Surya Builders & Developers

Plot no. 65, Acme Heights, Visheswaria
Behind D.C. Hospital, Triveni nagar,
Gopalpura bye-pass Jaipur, Rajasthan
ph: 0141-2765533, 9828117886
E-mail: sunil@designspaceconsultants.co
Website: www.designspaceconsultants.co

STRUCTURAL CONSULTANTS:-

SG STRUCTURES

A-36,1ST FLOOR, SUNDER SINGH BANDARI NAGAR,
SWEJ FARM, NEW SANGANER ROAD, JAIPUR-302019
E-mail: sg.structures@gmail.com
Tel: 09772202219,0141-2297076

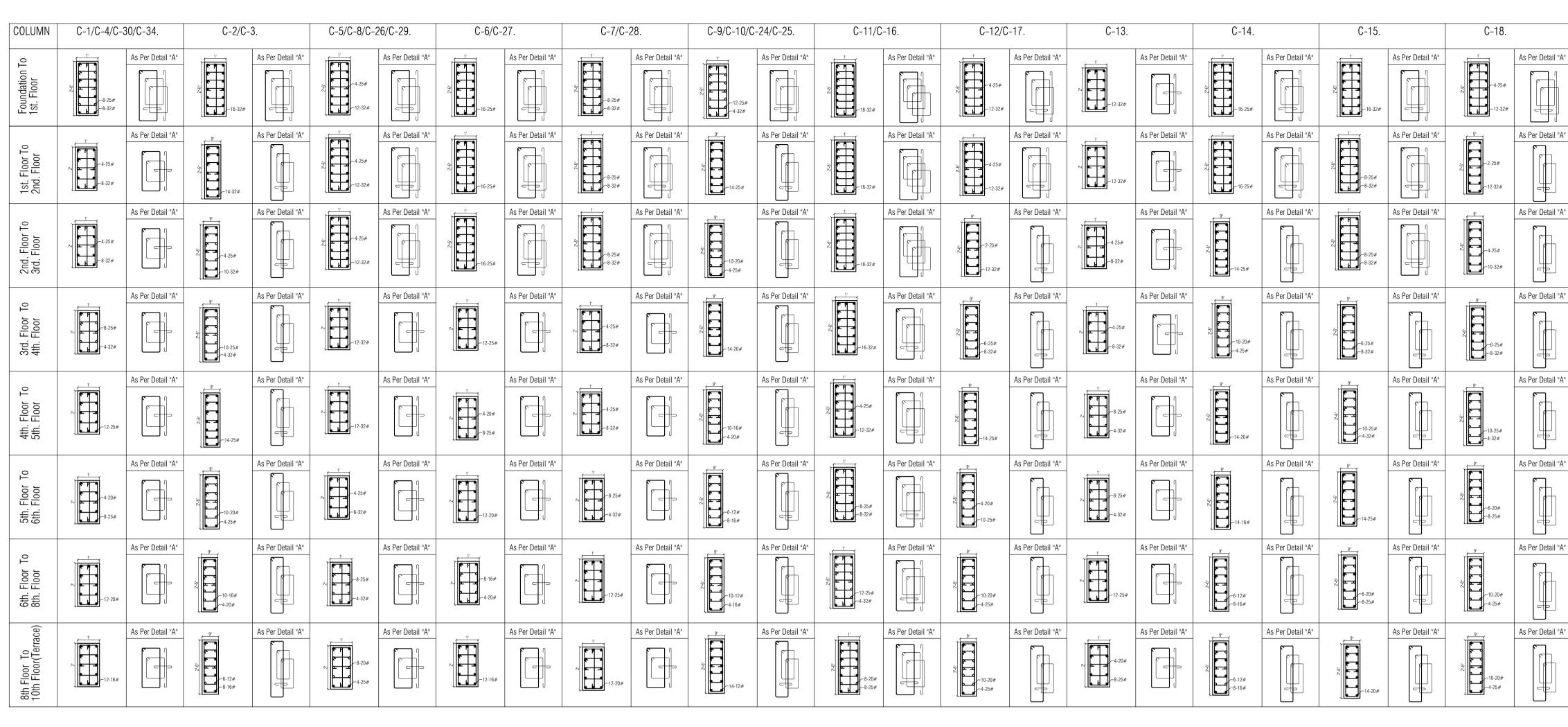
PROJECT TITLE:—

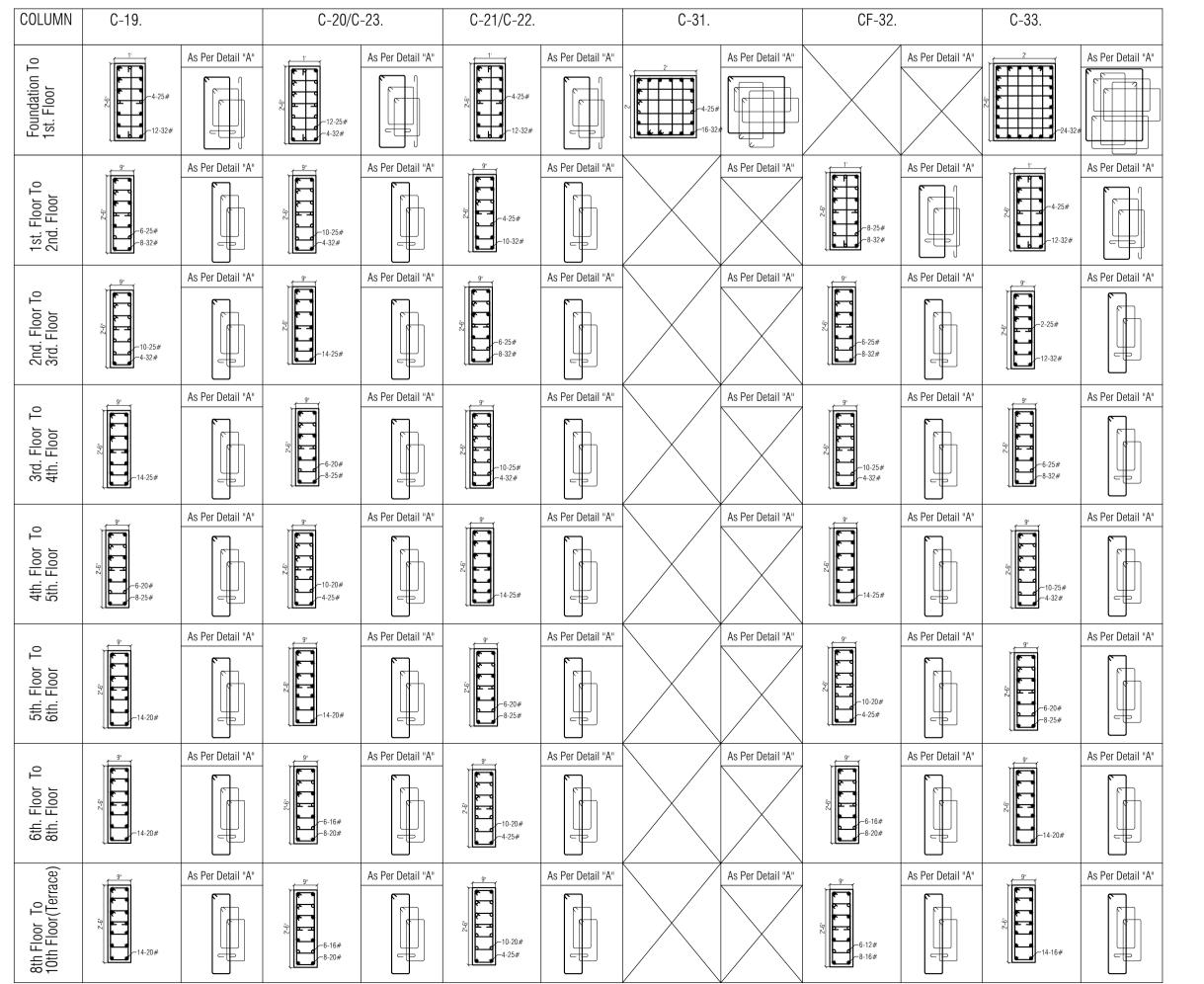
Proposed Residential Building At Plot - Flats -E In Surya City N.H.-11 Fatehpur Sikri Road, Bharatpur Rajasthan.

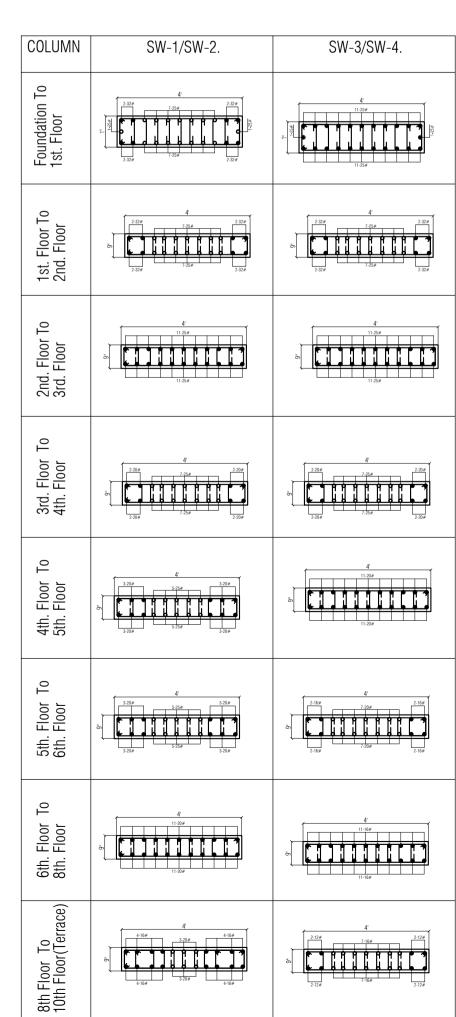
DRG. TITLE:-

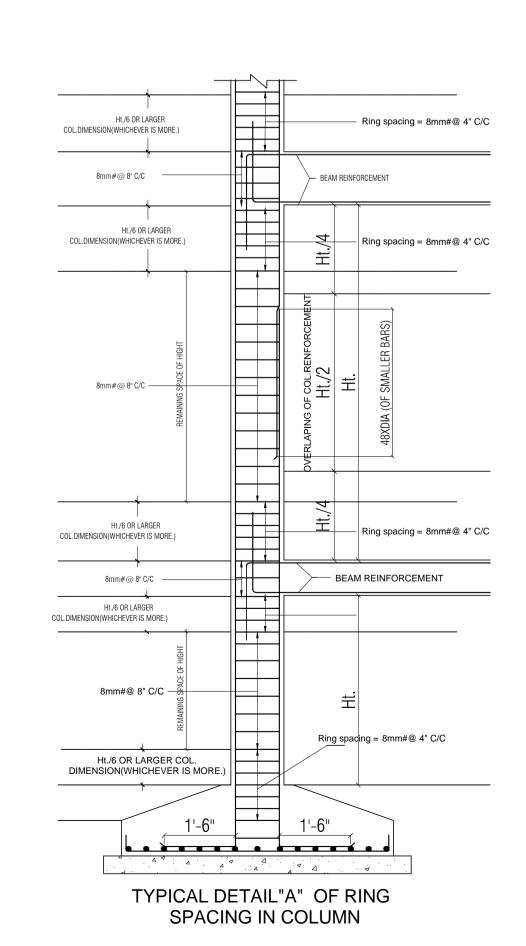
FOUNDATION PART DETAIL

SCALE SBC=10 MT/Sq.M @3.5M Designed For= B+S+9 Only RAVINDER DRAFT BY		DRG. NO.	
		ST/DS/SC/05A MANISH GUPTA DESIGN & CHK. BY.	











Grade Of Concrete For Foundation/Raft/Pedustal = M25 For Stair Case = M25 For Column/Lift Wall = M25 For Beam & Slab = M25

Grade Of Reinforcement Steel TMT Bar Fe 500D

GENERAL NOTES:-

- . ALL DIMENSION AND LEVEL ARE IN INCHS & FEET 2. DO NOT SCALE THIS DRAWING WRITTEN DIMENSION
- 3. THIS DRAWING SHOULD BE READ IN CONJUCTION WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWING ANY DISCRIPANCY SHOULD BE IMMEDIATELY BROUGHT TO
- . ONLY LOAD BEARING WALLS ARE SHOWN IN PLAN OTHER WALLS SHALL BE STOPPED 1/2" BELOW SOFFIT OF BEAM/SLAB AND GAP FILLED WITH CE-MENT MORTER UNLESS OTHERWISE SHOWN IN ARCHITECTURAL DRAWING.

REINFORCEMENT DETAILS

Please Reffer Drawing ST/DS/SC/00 CONCRETE DETAILS

Please Reffer Drawing ST/DS/SC/00

REV.	DATE	DESCRIPTION	REMARK
RI			
R2			
R3			
R4			

Surya Builders & Developers



ph: 0141-2763533, 9828117586 E-mail: sunil@designspaceconsultants.com Website: www.designspaceconsultants.com

TRUCTURAL CONSULTANTS:-

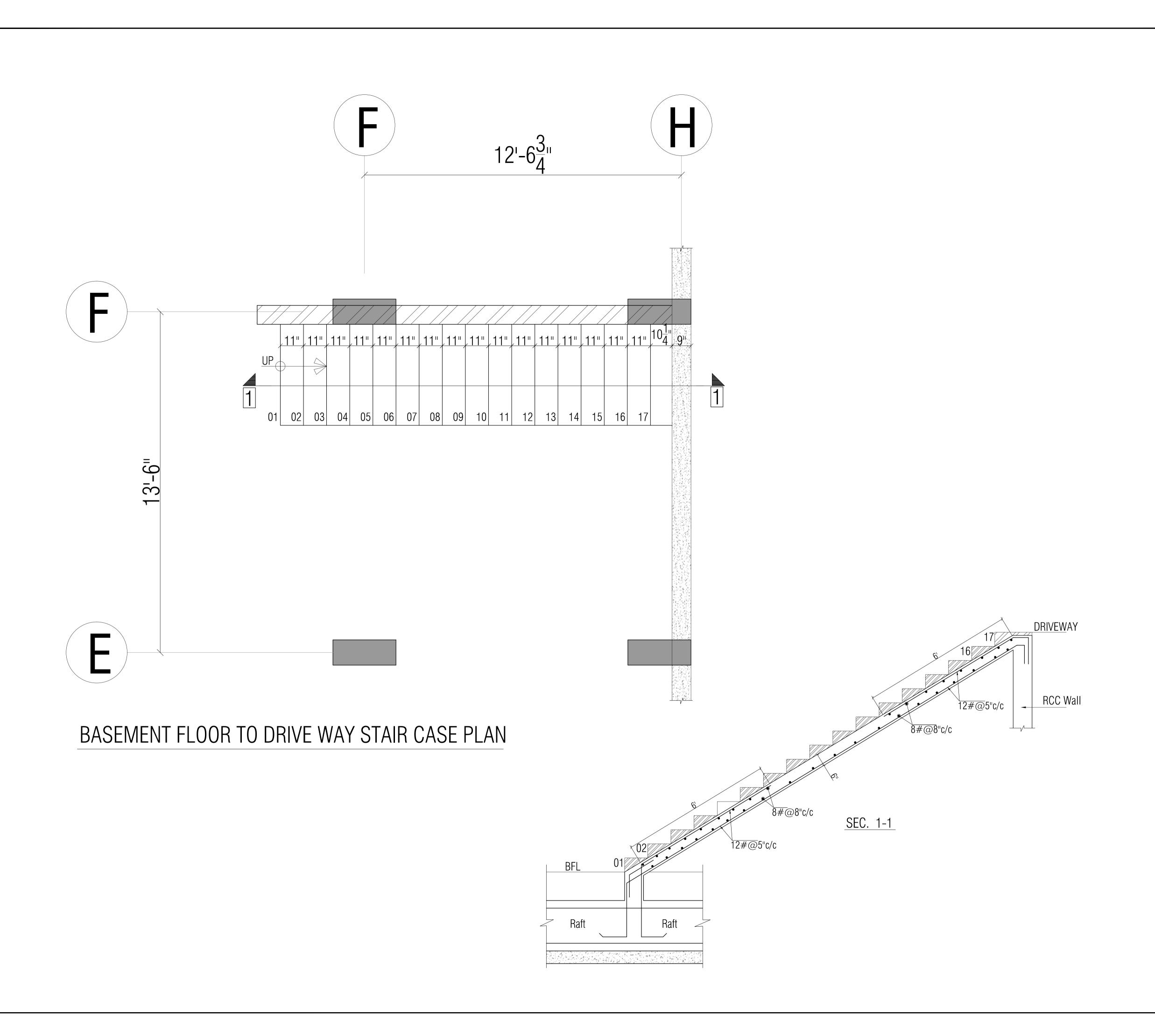


Proposed Residential Building At Plot - Flats -E In Surya City N.H.-11 Fatehpur Sikri Road, Bharatpur Rajasthan.

DRG. TITLE:-

COLUMN SCHEDULE & DETAIL

SCALE		DRG. NO.	
SBC=10 MT/Sq.M @3.5M Designed For= B+S+9 Only		ST/DS/SC/02	
DINESH KUMAR Draft by		MANISH GU DESIGN &	JPTA CHK. BY.
DATE 15/06/2016 PRINT 16/06/2016	U	JOB.NO.	NORTH





Grade Of Concrete

For Foundation/Raft/Pedustal = M25 For Stair Case = M25 For Column/Lift Wall= M25

For Beam & Slab = M25

Grade Of Reinforcement Steel TMT Bar Fe 500D

GENERAL NOTES:-

- 1. ALL DIMENSION AND LEVEL ARE IN INCHS & FEET 2. DO NOT SCALE THIS DRAWING WRITTEN DIMENSION
- 3. THIS DRAWING SHOULD BE READ IN CONJUCTION WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWING ANY DISCRIPANCY SHOULD BE IMMEDIATELY BROUGHT TO
- 4. ONLY LOAD BEARING WALLS ARE SHOWN IN PLAN OTHER WALLS SHALL BE STOPPED 1/2" BELOW SOFFIT OF BEAM/SLAB AND GAP FILLED WITH CE-MENT MORTER UNLESS OTHERWISE SHOWN IN ARCHITECTURAL DRAWING.

REINFORCEMENT DETAILS

Please Reffer Drawing ST/DS/SC/00 CONCRETE DETAILS

Please Reffer Drawing ST/DS/SC/00

RE	ĒV.	DATE	DESCRIPTION	REMARK
RI	I			
R2	2			
R3	3			
R4	4			

Surya Builders & Developers



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SG STRUCTURES

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E-mail: sg.structures@gmail.com
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PROJECT TITLE:-

Proposed Residential Building At Plot - Flats -E In Surya City N.H.-11 Fatehpur Sikri Road, Bharatpur Rajasthan.

DRG. TITLE:-

STAIR CASE DETAIL

SCALE	SCALE		DRG. NO.			
SBC=10 MT/Sq.M @3.5M Designed For= $B+S+9$ Only	SBC=10 MT/Sq.M @3.5M Designed For= B+S+9 Only		ST/DS/SC/06			
DINESH KUMAR DRAFT BY	=		J PTA Chk. by.			
DATE 22/06/2016 PRINT 00/06/2016	J	IOB.NO.	NORTH			

