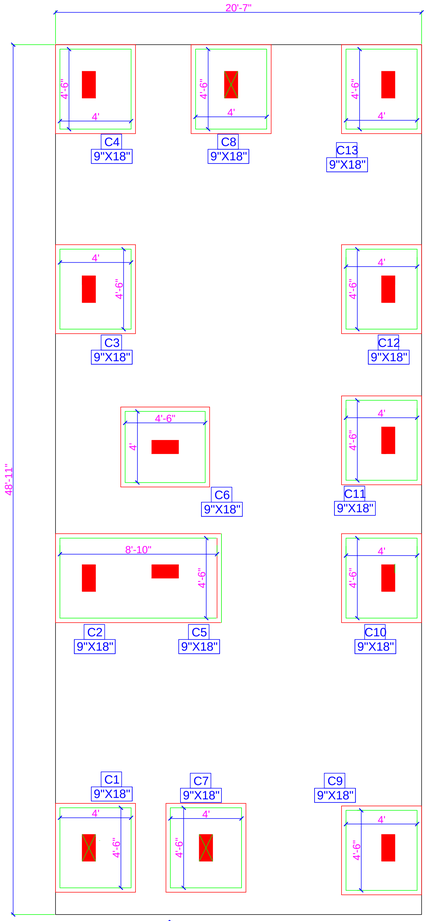
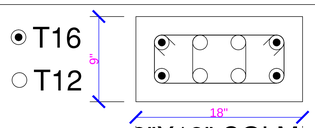
COLUMN FOOTING STEEL DETAILS

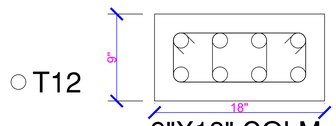


COLUMN DETAILS				
	TERRACE TO 3RD FLOOR	COLM STEEL	8-12MM	#8-12MM
		LINK	T08 @4" C/C (Lo) T08 @ 6" C/C (Rest) Ref Section	T08 @4" C/C (Lo) T08 @ 6" C/C (Rest) Ref Section
		SIZE	9"X18"	9"X18"
	3RD FLOOR TO 2ND FLOOR	COLM STEEL	8-12MM	#8-12MM
		LINK	T08 @4" C/C (Lo) T08 @ 6" C/C (Rest) Ref Section	T08 @4" C/C (Lo) T08 @ 6" C/C (Rest) Ref Section
		SIZE	9"X18"	9"X18"
	2ND FLOOR TO 1ST FLOOR	COLM STEEL	#4-12MM #4-16MM	#4-12MM #4-16MM
		LINK	T08 @4" C/C (Lo) T08 @ 6" C/C (Rest) Ref Section	T08 @4" C/C (Lo) T08 @ 6" C/C (Rest) Ref Section
		SIZE	9"X18"	9"X18"
	1ST FLOOR TO GR. FLOOR	COLM STEEL	#4-12MM #4-16MM	#4-12MM #4-16MM
		LINK	T08 @4" C/C (Lo) T08 @ 6" C/C (Rest) Ref Section	T08 @4" C/C (Lo) T08 @ 6" C/C (Rest) Ref Section
		SIZE	9"X18"	9"X18"
	GROUND LVL TO FOOTING TOP	COLM STEEL	#4-12MM #4-16MM	#4-12MM #4-16MM
		LINK	T08 @4" C/C (Lo) T08 @ 6" C/C (Rest) Ref Section	T08 @4" C/C (Lo) T08 @ 6" C/C (Rest) Ref Section
		SIZE	9"X18"	9"X18"
DEPTH OF FOOTING(D)			18"	18"
BOTTOM STEEL	# TO WIDTH SHORT BAR		#10@5"C/C	#10@5"C/C
	# TO LENGTH LONG BAR		#10@5"C/C	#10@5"C/C
FOOTING TYPE			PAD FOOTING	COMBINED FOOTING
FOOTING SIZE (LXB)			4'X4'6"	8'10"X4'6"
PCC SIZE (LXB)			4'6"X5'	9'4"X5'
COLUMN NO			C1,C3,C4,C6,C7,C8, C9,C10,C11,C12,C13	C2,C5



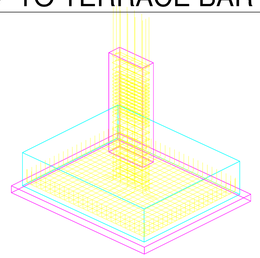
9"X18" COLM

BASE TO 2ND FLOOR BAR ARRANGMENT

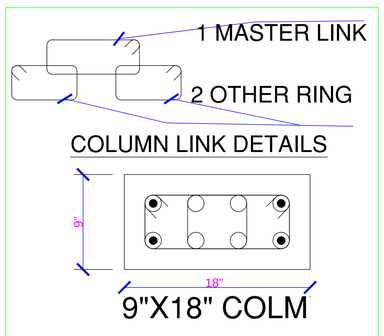


9"X18" COLM

2ND,3RD TO TERRACE BAR ARRANGMENT

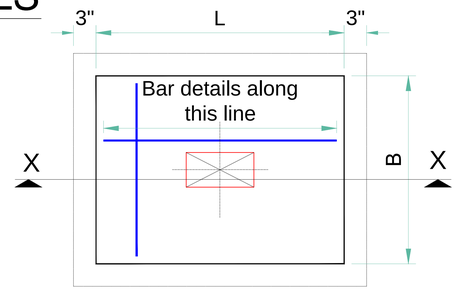


TYPICAL SECTION X-X THROUGH FOOTING FOR BOTTOM REINFORCEMENT.

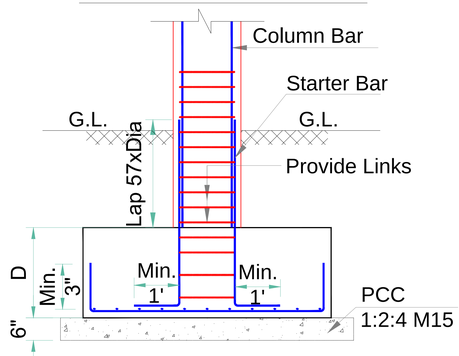


COLUMN LINK DETAILS

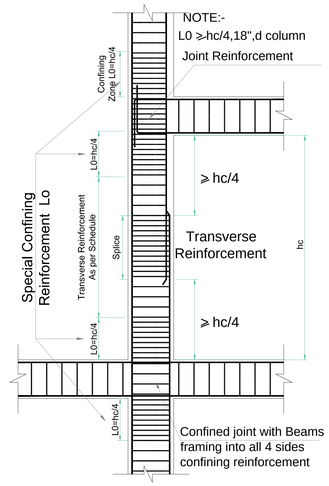
9"X18" COLM



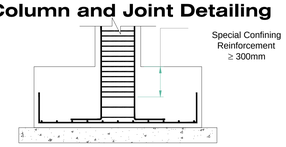
PLAN OF FOOTING



TYPICAL SECTION X1-X1 THROUGH FOOTING FOR BOTTOM REINFORCEMENT.



Column and Joint Detailing



Provision of special confining reinforcement in footing TYPICAL SECTION OF DUCTILE REINFORCEMENT

NOTES : DRAWING IS VALID FOR DESIGN ADEQUACY PROVIDED IT IS SIGNED & STAMPED BY OFFICE (REFERENCE FROM IS 456: 2000 IS1893-2016(PART-1),IS 13920-2016

1. ALL DIMENSIONS ARE IN 'mm' AND ALL LEVELS TO BE REFERRED FROM ARCHITECTURAL DRAWINGS.
2. CENTER LINE PLAN SHOULD BE CHECKED BY THE ARCH. REFER ARCHITECT'S DRAWING FOR ALL OTHER DETAILS & DIMENSIONS.
3. FIRE RATING CONSIDERED:- 1 Hour Maximum
4. NOMINAL COVERS

	Mild	Moderate
I FOOTINGS	50	50
II COLUMNS & WALLS (TO LINKS OF COLUMN)	40	40
III SLABS	20	25
IV BEAMS (TO STIRRUPS OF BEAM)	25	30

5. LAPPING OF REINFORCEMENT:- DEVELOPMENT LENGTH (Ld)

GRADE OF REINF.	M20	M25	M30	M35	M40 & ABOVE
Fe415	48 X D	41 X D	38 X D	34 X D	30 X D
Fe500 (TMT)	57 X D	49 X D	46 X D	40 X D	36 X D

6. REFER STANDARD DRAWING'S FOR LAP LOCATIONS TO BARS IN BEAMS AND COLUMNS.
7. IF UNAVOIDABLE,REINF. LAPS FOR BEAMS AND SLABS SHALL BE STAGGERED WITH NOT MORE THAN 50%OF THE BARS SPECIFIED AT A SECTION.
8. FOR CANTILEVERS (SLAB or BEAM), TOP BARS TO BE ANCHORED BEHIND FOR 75xDIA OR 1.5 X SPAN WHICHEVER IS GREATER.
9. LINKS IN COLUMN AT COLUMN-BEAM JUNCTION ARE NECESSARY.
10. WHENEVER THE DIMENTION OF COLUMN GETS REDUCED, TIE BEAM OR PLINTH BEAM IS NECESSARY IN THE SAME DIRECTION.
11. ALL STRUCTURAL CONCRETE SHOULD BE WEIGH BATCHED, MACHINE MIXED & MECHANICALLY VIBRATED.
12. MINIMUM PERIOD FOR REMOVAL OF FORMWORK,

VERTICAL FROMWORK TO COLUMN WALLS	18 Hours
SOFFIT OF SLAB (UP TO 4.5 M.SPAN)	7 DAYS.
SOFFIT OF SLAB (OVER 4.5 M. SPAN)	14 DAYS.
BEAM BOTTOM (UP TO 6.0 M.SPAN)	14 DAYS.
BEAM BOTTOMS (OVER 6.0 M.SPAN)	21 DAYS.

IF PROPS TO BE REFIXED IMMEDIATELY AFTER REMOVAL OF FORM WARK,

SOFFIT OF SLAB	3 DAYS.
BEAM BOTTOM	7 DAYS.

13. RESPONSIBILITY REGARDING CORRECT & SOUND CONSTRUCTION SHUTTERING SHALL SOLELY REST WITH CONTRACTOR / OWNER.FOLLOWING GUIDELINE MAY BE USED FOR STRIPPING OF FORMS IN NORMAL CIRCUMSTANCES.

14. S.B.C. CONSIDERED	300 kN/SQM.
GRADE OF CONCRETE	M25 (1:1:2)
GRADE OF STEEL	Fe 500
ENVIRONMENTAL EXPOSURE CONDITION	MODERATE
DESIGN LIVE LOAD (UNLESS SPECIFIED)	2 kN/sq.m.
DESIGN SUPER DEAD LOAD	1 kN/sq.m.

STRATA SHOULD BE CONFIRMED AS PER SOIL INVESTIGATION REPORT AND R.C.C CONTRACT

15.

REV.NO.	DESCRIPTION	DATE
R0	STRUCTURAL LAYOUT OF COLUMN AND FOOTING ADVANCE COPY FOR ESTIMATE NOT EXECUTION	01.04.2021

16. NOTES FOR COLUMN
Columns and Footings are designed for Ground + 3 FLOOR (4TH SLAB)

SHEET TITLE: STRUCTURAL LAYOUT OF COLUMN AND FOOTING

ENGINEERS NAME: SHIV -OM ENGINEERS
Er.VAIBHAV H.GAIKWAD

R.C.C CONTRACT :

CLIENT:

Drg. No.	01	SCALE:	NTS	PROJECT:
Job No.	58	SHEET 01 OF 03		