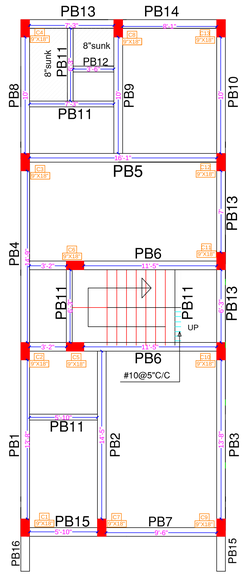
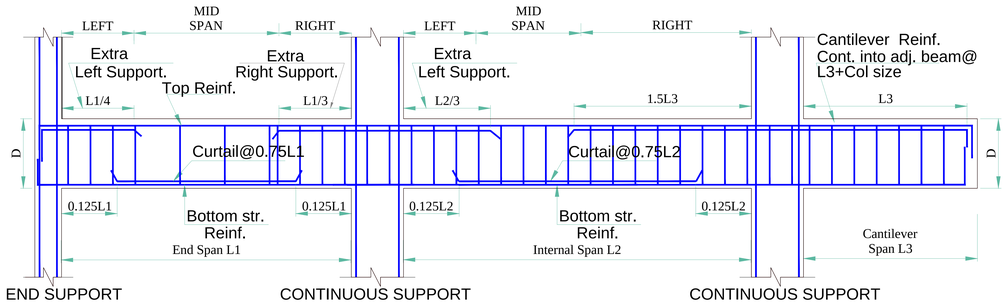


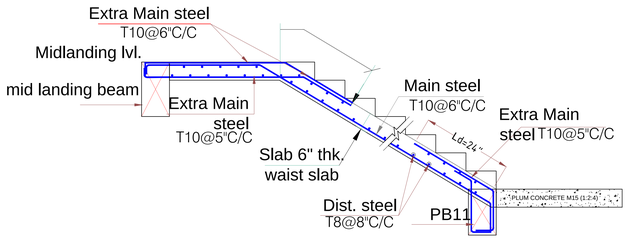
PLINGTH BEAM LAYOUT

PLINGTH BEAM SCHEDULE

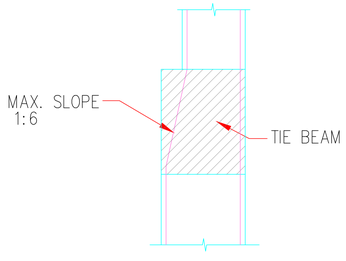
BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT			SHEAR STIRRUPS		REMARKS
	B	D	STRAIGHT	CURTAILED @ 0.75 L	STRAIGHT	EXTRA LEFT@ L/3	EXTRA RIGHT @L/3	LEFT / RIGHT @L/3 SUPPORT	MID SPAN @L/3 SUPOORT	
PB1 PB2 PB3	9"	18"	3-T12	-	2-T12	2-T12	2-T12	#T6@5" C/C	#T6@7" C/C	-
PB4 , PB5	9"	18"	3-T12	2-T12	2-T12	2-T12	2-T12	#T6@5" C/C	#T6@7" C/C	-
PB6	9"	18"	3-T12	-	2-T10	2-T12	2-T12	#T6@5" C/C	#T6@7" C/C	-
PB7,PB8,PB9,PB10	9"	18"	2-T12	-	2-T10	2-T10	2-T10	#T6@5" C/C	#T6@7" C/C	-
PB11,PB12	6"	18"	2-T12	-	2-T10	-	-	#T6@6" C/C	#T6@6" C/C	-
PB13,PB14,P15	9"	18"	2-T12	-	2-T10	-	-	#T6@6" C/C	#T6@6" C/C	-
PB16	9"	18"	2-T12	-	2-T16	2-T12	2-T12	#T6@6" C/C	#T6@6" C/C	CANTILEVER BEAM



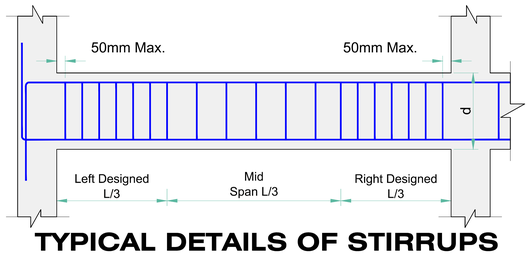
TYPICAL DETAILS OF BEAM REINFORCEMENT



REINFORCEMENT DETAILS FOR STAIR CASE

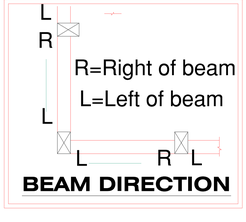


AT ANY LEVEL WHERE COLUMN SIZE GETS REDUCED IN EITHER DIMENSION, BEAM IS ABSOLUTELY ESSENTIAL

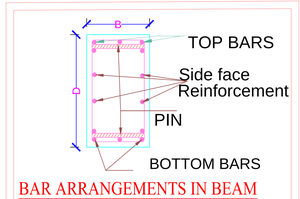


TYPICAL DETAILS OF STIRRUPS

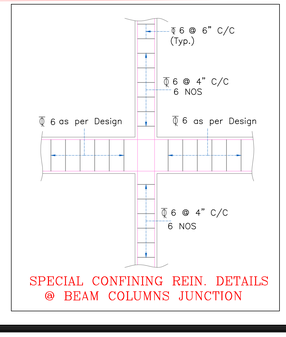
Scale -1:50



BEAM DIRECTION



BAR ARRANGEMENTS IN BEAM



SPECIAL CONFINING REIN. DETAILS @ BEAM COLUMNS JUNCTION

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		26.04.2021

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

SHEET TITLE: PLINGHT BEAM STEEL DETAILS

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		