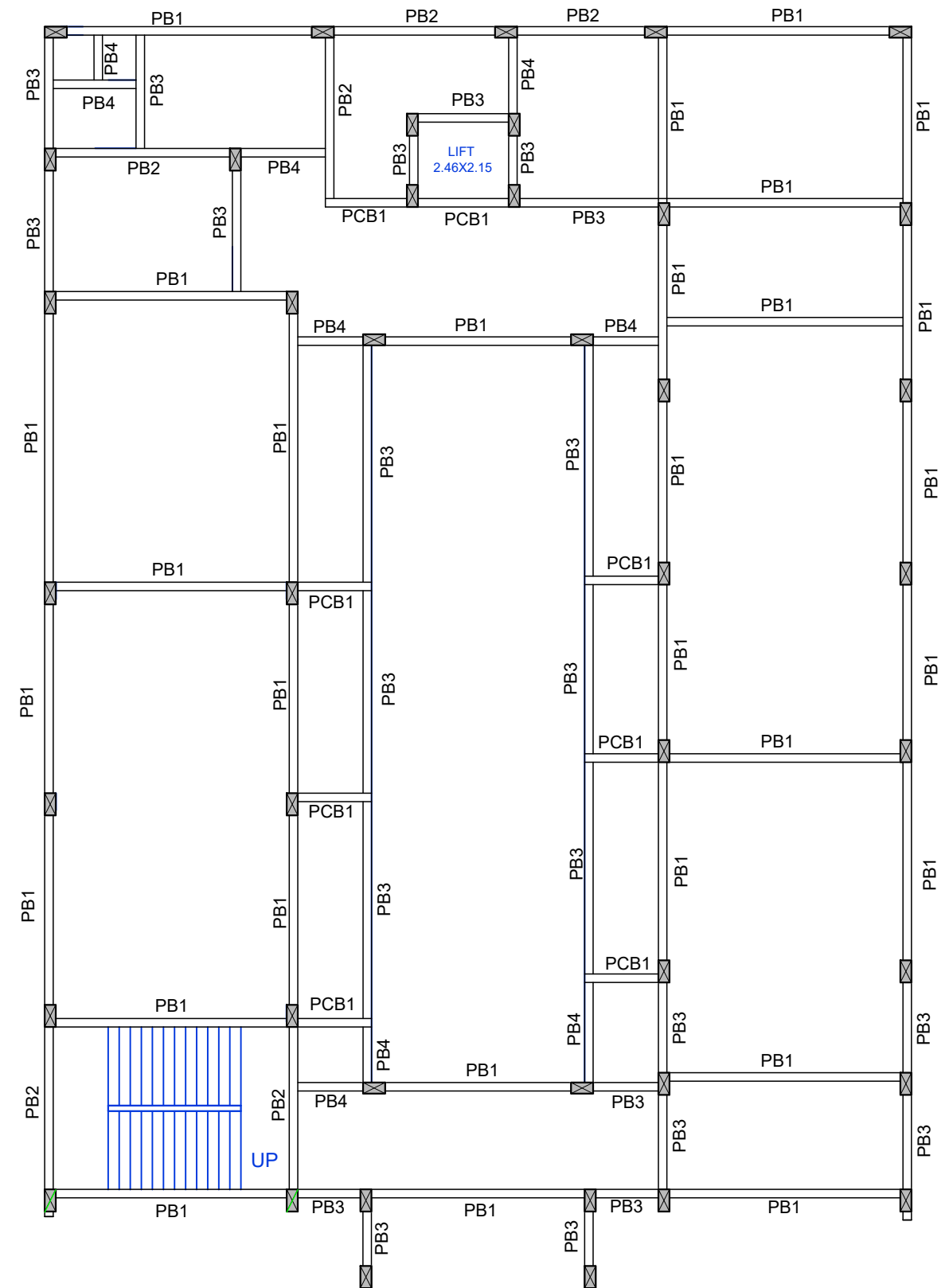
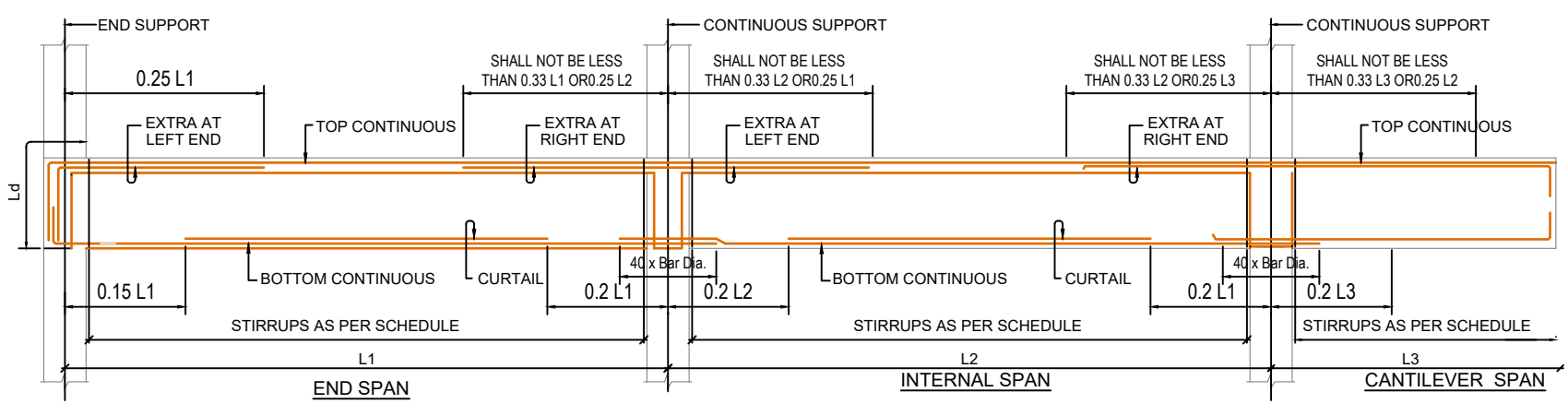


SCHEDULE OF PLINTH BEAM

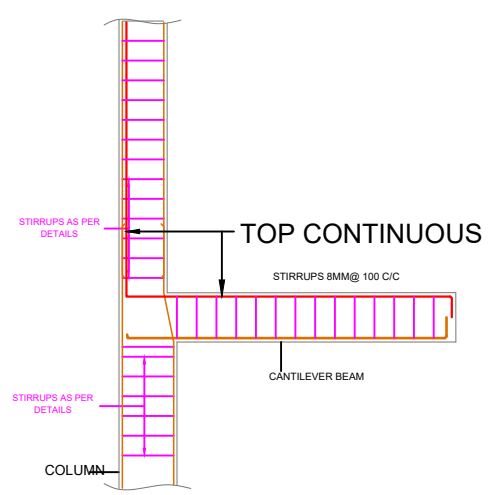
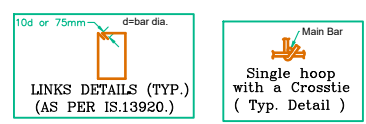
BEAM NOS.	BEAM SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT			RINGS	REMARKS
	B MM	D MM	BOT CONT. BARS	BOT CURTAIL BARS	TOP. CONT. BARS	TOP. EXTRA BARS	TOP. EXTRA BARS		
PB1	230	450	4 Y 12	3 Y 12	3 Y 12	3 Y 12	3 Y 12	8mm @ 100-150 C/C	
PB2	230	380	3 Y 12	2 Y 12	2 Y 12	2 Y 12	2 Y 12	8mm @ 100-150 C/C	
PB3	230	380	2 Y 12	2 Y 12	2 Y 12	2 Y 12	2 Y 12	8mm @ 100-150 C/C	
PB4	230	300	2 Y 12	—	4 Y 16	—	—	8mm @ 100-150 C/C	
PCB1	230	380	2 Y 12	—	4 Y 12	—	—	8mm @ 100 C/C	CANTILEVER



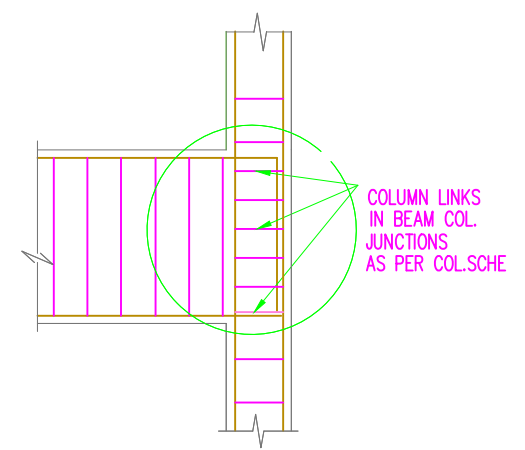
PLINTH BEAM PLAN



TYPICAL REINF. DETAIL OF BEAM



DETAILS OF CANTILEVER BEAM FROM COLUMN



TYP. DETAIL OF COL. BEAM JUNCTION

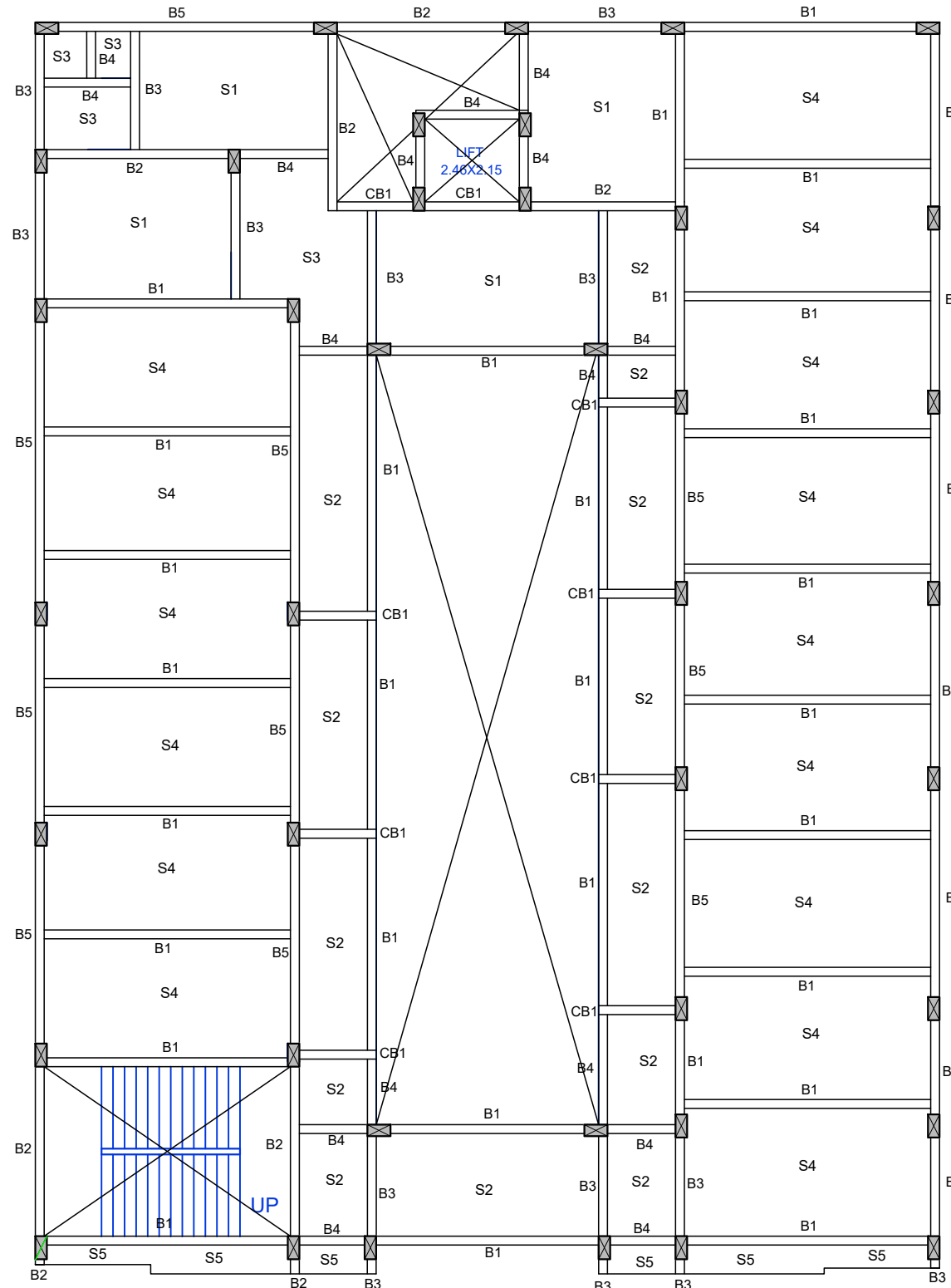
GRADE OF STEEL = Fe 500
 GRADE OF CONCRETE = M25
 CONCRETE QUALITY IS CONTRACTOR'S RESPONSIBILITY
 FORM WORK AND SHUTTING DESIGN IS CONTRACTOR'S RESPONSIBILITY
 * DIAMENSIONS, DISTANCES AND LEVELS CONFIRM WITH ARCHITECTURAL DRAWING

The building is designed for G + 4 floors DRAWING IS VALID FOR CONSTRUCTION PROVIDED IT IS SIGNED & STAMPED BY OUR OFFICE MIN. DEPTH OF EXCAVATION - 1500 MM S.B.C. - 35 Triq.m. CONSIDERED GRADE OF CONCRETE-M25 GRADE OF STEEL- Fe 500 ENVIRONMENTAL EXPOSURE CONDITION- MODERATE	1. Basic reference code: IS 456: 2000 2. Reinforcement shall not be less than specified below: a) Vertical bars of column, beams, and wall i) Slabs (i) Spacing upto 4.5m. → 14 days (ii) Spacing over 4.5m. → 21 days c) Beams (i) Spacing upto 6.0m. → 14 days (ii) Spacing over 6.0m. → 21 days 3. Due care should be taken to ascertain that requisite strength of concrete is gained before commencement of de-shuttering 4. Shuttering shall be: I Footings 50 II Columns 40 III Beams 20 IV Beams 20 V LIFT wall/beam wall 25 In case of slab if main reinf. diameter exceeds 12mm then cover for moderate and severe exposure condition should be increased by 5mm 6. Beams having depth more than 600mm, provide side reinf. detailed below: I For and upto 750mm depth, provide 12 @ 100 depth. II For beams above 600mm depth, provide 12 @ 100 and 23 @ beam depth.	6. All beams shall be staggered & not more than 50% bars to be lapped at any given section. Columns, Beams & slabs 75 X D 69 X D 69 X D 45 x D 7. Maximum allowable height of column without any brace or tie I 230 wide 4000 mm II 200 wide 3400 mm III 150 wide 2800 mm 8. If buildings overlaid each other, necessary revision should be obtained from our office. 9. Reinforcement should be approved from our office before tying p.c.c. 11. Design is valid for use, if bars as indicated in schedule only 12. Minimum spacing between any two longitudinal bars in beams 50mm 13. At any level where columns size get reduced in either dimension, the beams/bracket beams at p.l. should be. 14. For cantilevers, top bars to be anchored behind for - 70 X dia of bars OR span of cantilevers, whichever is greater. 15. Fire rating Considered. 1 Hour Max. 16. Shuttering Design is Contractor's responsibility 17. There Must Be Stagger For Column @ Column and Beam Junction.
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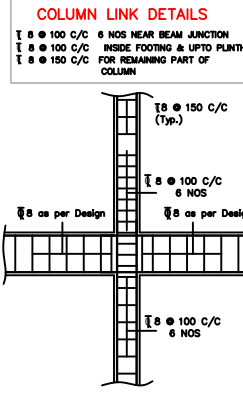
Use of this drawing for construction shall explicitly confirm acceptance of following conditions by Owner / Builder / Contractor

- Our responsibility shall remain limited to safe and sound structural design as transmitted by this drawing and we shall not remain responsible for
 - Safety of old structure during demolition.
 - Safety of any adjoining building / persons staying in adjoining building / persons & properties on adjoining roads.
 - Safety of construction worker / any personnel at work site during construction
- Correctness/safety of any temporary structure, scaffolding, shuttering, centering erected @ site and any injury to any personnel arising out of their accidents.
- Accident occurring due to premature de-shuttering faulty / substandard construction material or workmanship / faulty construction procedure.
- Any accident occurring due to construction of elements of buildings not design by us, material or workmanship / faulty construction procedure.
- Supervision if specifically asked for will be provided to the extent of verification of reinforcement on site but responsibility regarding correct & sound construction shall solely rest with contractor/ builder / owner.
- All structural concrete should be weigh batched, machine mixed & mechanical. **Page 20 of 30**
 Any discrepancy between our drawing & architects drawing shall be brought to our notice before construction.
 This drawing is property of Rodge Patil Designers and shall not be reproduced or used without explicit permission of this office

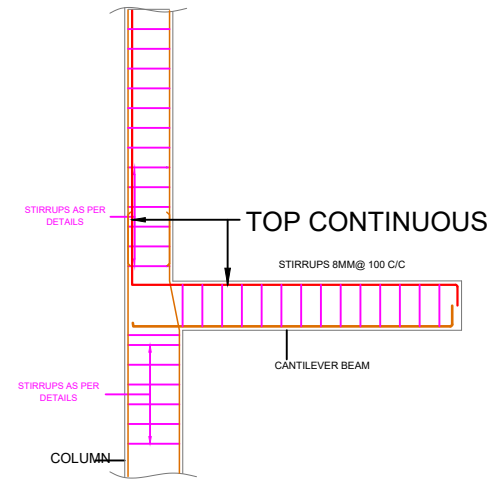
RCC DESIGNERS	RODGE PATIL DESIGNERS PUNE YAMUNATEE 1- "MANAGEMENT", VIKRATA BHANAR PUNE - 411 004 (INDIA) REGISTERED OFFICE: 45/74, DEWANE ROAD, DEWANE, THANE-400001	R1	25/11/2022	DRAWING No.GFC-ST-102-31/22
		R2	4/12/2022	DRG. STATUS: FOR EXECUTION
BUILDER	OWNER: CPWD	R3		JOB NO. 31/2022
ARCHITECT: AR.BAL KUMBHAR	DESIGN CODE:- IS 456 (2002)	R4		
PROJECT: KARMVEER BHAURAO PATIL COLLEGE.		R5		
TITLE: PLINTH BEAM DETAILS		R6		
RESPONSIBLE PARTY FOR CONSTRUCTION: CONTRACTOR		R7		
		R8		SCALE NTS
		R9		



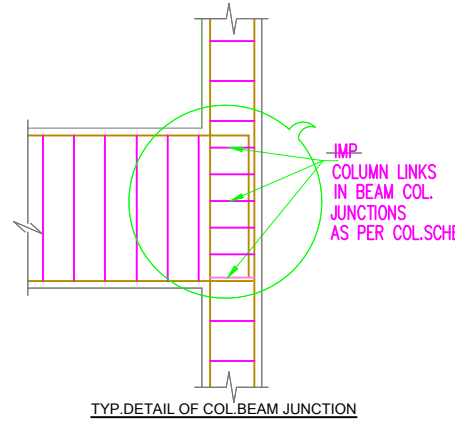
TYPICAL FORTH AND FIFTH SLAB



SPECIAL CONFINING REIN. DETAILS
 ● BEAM COLUMNS JUNCTION
 * CONCRETE GRADE TO BE M25 UNLESS OTHERWISE SPECIFIED
 Cross Tie & Double link to be Alternately used along Through link.



DETAILS OF CANTILEVER BEAM FROM COLUMN



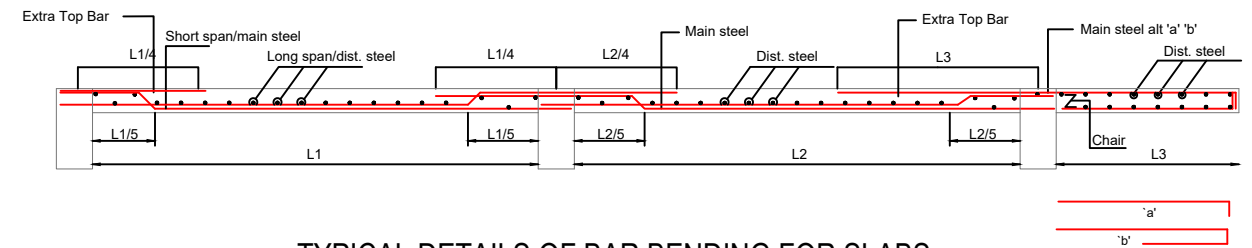
SCHEDULE OF FLOOR BEAM

BEAM NOS.	BEAM SIZE		BOTT. REINFORCEMENT		TOP REINFORCEMENT			RINGS	REMARKS
	B	D	BOTT. CONT. BARS	BOTT. CURTAIL BARS	TOP CONT. BARS	TOP EXTRA LEFT BARS	TOP EXTRA RIGHT BARS		
B1	230	750	6 Y 16	4 Y 16	4 Y 16	4 Y 16	4 Y 16	8 mm @ 100-150 C/C	
B2	230	610	5 Y 16	4 Y 16	3 Y 16	3 Y 16	3 Y 16	8 mm @ 100-150 C/C	
B3	230	450	3 Y 16	3 Y 16	3 Y 12	3 Y 16	3 Y 16	8 mm @ 100-150 C/C	
B4	230	380	2 Y 16	2 Y 12	2 Y 12	2 Y 12	2 Y 12	8 mm @ 100-150 C/C	
B5	230	750	6 Y 20	4 Y 20	3 Y 20	3 Y 20	3 Y 20	8 mm @ 100-150 C/C	
CB1	230	610	4 Y 16		6 Y 16			8 mm @ 100 C/C	CANTILEVER

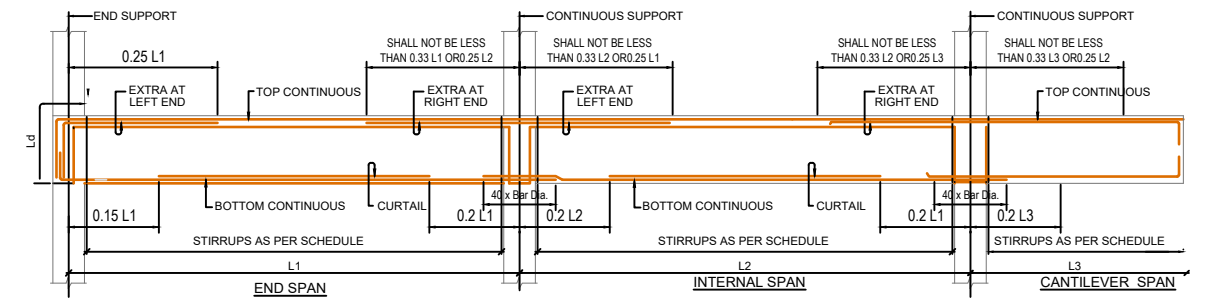
SCHEDULE OF SLABS

SLAB NO.	THK.	REINFORCEMENT IN MAIN SPAN	REINFORCEMENT IN SECONDARY SPAN	REMARKS
S1	135	Y 10 @ 125 C/C (ALTERNATE BENT UP)	Y 10 @ 125 C/C (ALTERNATE BENT UP)	TWO WAY
S2	135	Y 8 @ 100 C/C (ALTERNATE BENT UP)	Y 8 @ 150 C/C	ONE WAY
S3	135	Y 8 @ 100 C/C (ALTERNATE BENT UP)	Y 8 @ 100 C/C (ALTERNATE BENT UP)	TWO WAY
S4	135	Y 10 @ 150 C/C (ALTERNATE BENT UP)	Y 8 @ 100 C/C	ONE WAY
S5	135	Y 8 @ 150 C/C (BENT BACK)	Y 8 @ 100 C/C	CANTILEVER SLAB

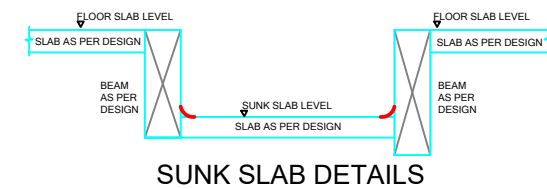
* PROVIDE EXTRA TOP BARS FOR ALL SLAB



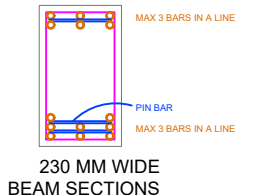
TYPICAL DETAILS OF BAR BENDING FOR SLABS



TYPICAL REINF.DETAIL OF BEAM



SUNK SLAB DETAILS

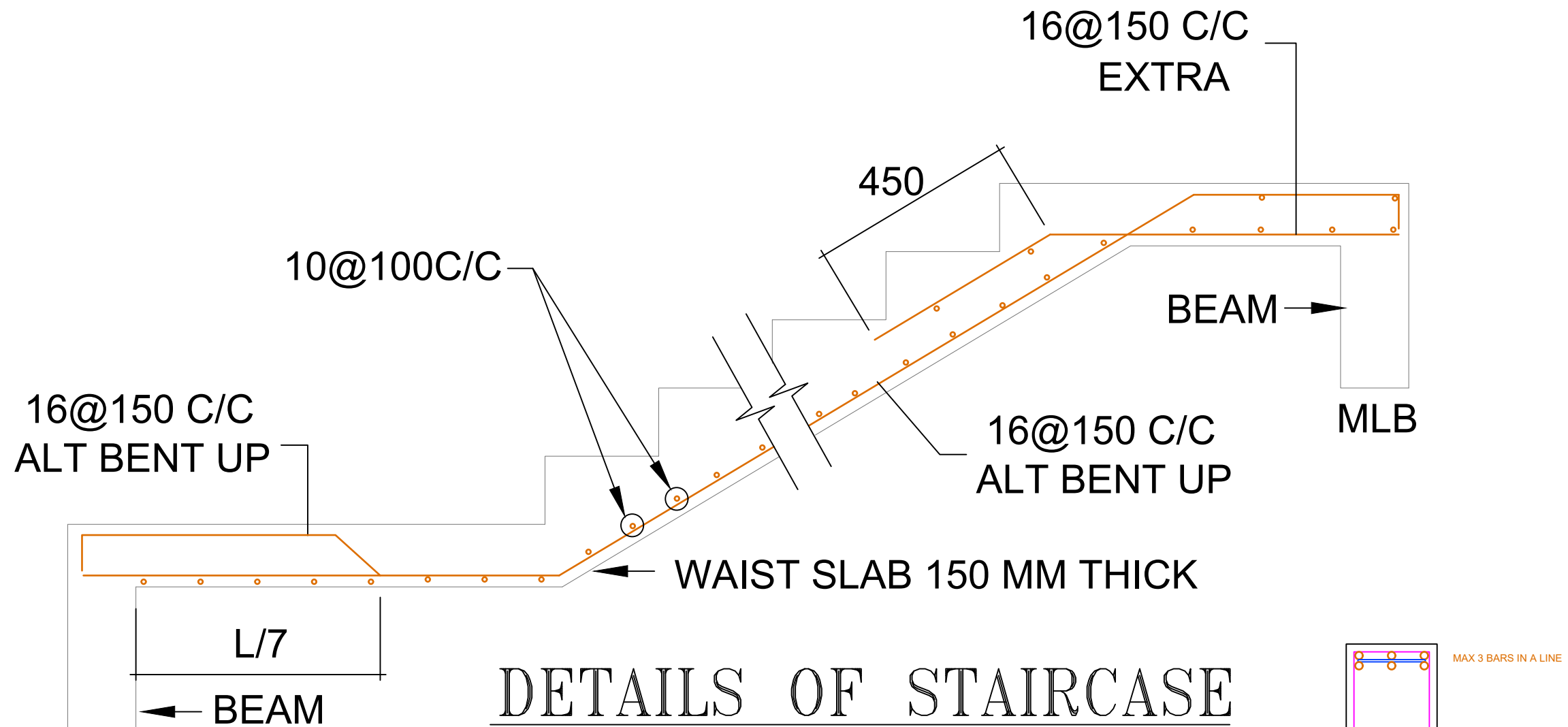


230 MM WIDE BEAM SECTIONS

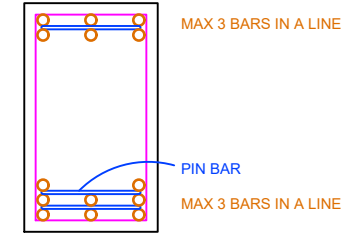
GRADE OF STEEL = Fe 500
 GRADE OF CONCRETE = M25
 CONCRETE QUALITY IS CONTRACTOR'S RESPONSIBILITY
 FORM WORK AND SHUTTING DESIGN IS CONTRACTOR'S RESPONSIBILITY
 * DIMENSIONS, DISTANCES AND LEVELS CONFIRM WITH ARCHITECTURAL DRAWING

The building is designed for G + 4 floors DRAWING IS VALID FOR CONSTRUCTION PROVIDED IT IS SIGNED & STAMPED BY OUR OFFICE MIN. DEPTH OF EXCAVATION - 1500 MM S.B.C. - 35 Tmq.m. CONSIDERED GRADE OF CONCRETE-M25 GRADE OF STEEL- Fe 500 ENVIRONMENTAL EXPOSURE CONDITION- MODERATE	1. Basic reference code: IS 456: 2000 2. Reinforcement shall not be less than specified below: a) Vertical bars of column, beams & wall (i) Slabs (i) Spacing upto 4.5m. → 14 days (ii) Spacing over 4.5m. → 21 days (iii) Spacing upto 6.0m. → 14 days (iv) Spacing over 6.0m. → 21 days 3. Due care should be taken to ascertain that requisite strength of concrete is gained before commencement of construction 4. Reinforcement shall be: I Footings 50 II Columns 40 III Beams 20 IV Slabs 20 V LIFT wall/beam wall 20 In case of slab if main reinf. diameter exceeds 12mm then cover for moderate and severe exposure condition should be increased by 5mm 6. Beams having depth more than 600mm, provide sideface reinf. detailed below I For and upto 750mm depth, provide 12 @ mid depth II For beams above 900mm depth, provide 12 @ 1/3rd and 2/3rd beam depth	6. All beams shall be staggered & not more than 50% bars to be lapped Columns, Beams & slabs 75 X D 69 X D 50 X D 45 X D 7. Maximum allowable height of column without any brace or tie I 230 wide 4000 mm II 200 wide 3400 mm III 150 wide 2800 mm 8. Notwithstanding these provisions, all buildings shall have tie beams/bracing beams at g.l. level 9. If buildings overlap each other, necessary revision should be obtained from our office 10. Substitution should be approved from our office before using p.c.c. 11. Design is valid for use of form as indicated in schedule only 12. Minimum spacing between any two longitudinal bars in beams 50mm 13. At any level where column size get reduced in either dimension tie beams/bracing beams are absolutely essential 14. For cantilevers, top bars to be anchored behind for - 70 X dia of bars OR span of cantilevers, whichever is greater 15. Fire rating Considered. 16. Shoring Design is Contractor's responsibility 17. These Must Be Storage For Column @ Column and Beam Junction	Use of this drawing for construction shall explicitly confirm acceptance of following conditions by Owner / Builder / Contractor 1. Our responsibility shall remain limited to safe and sound structural design as transmitted by this drawing and we shall not remain responsible for a) Safety of old structure during demolition. b) Safety of any adjoining building /persons staying in adjoining building/persons & properties on adjoining roads. c) Safety of construction worker/any personnel at work site during construction d) Correctness/safety of any temporary structure, scaffolding, shuttering, centering erected @ site and any injury to any personnel arising out of their accidents. e) Accident occurring due to premature dethuttering faulty / substantial construction material or workmanship / faulty construction procedure. f) Any accident occurring due to construction of elements of buildings not design by us, material or workmanship / faulty construction procedure. 2) Supervision if specifically asked for will be provided to the extent of verification of reinforcement on site but responsibility regarding correct & sound construction shall solely rest with contractor/ builder / owner. 3) All structural concrete should be weigh batched, machine mixed & mechanically vibrated. Any discrepancy between our drawing & architects drawing shall be brought to our notice before construction. This drawing is property of Rodge Patil Designers and shall not be reproduced or used without explicit permission of this office
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RCC DESIGNERS		RODGE PATIL DESIGNERS		R1	25/11/2023	DRAWING No.GFC-ST-103-31/22
BUILDER .		OWNER: CPWD		R2		DRG. STATUS: FOR EXECUTION
ARCHITECT: AR.BAL KUMBHAR		DESIGN CODE:- IS 456 (2002)		R3		JOB NO. 31/2022
PROJECT: KARMVEER BHAURAO PATIL COLLEGE.				R4		
TITLE: FIRST SLAB SECOND SLAB THIRD SLAB PLAN				R5		
RESPONSIBLE PARTY FOR CONSTRUCTION: CONTRACTOR				R6		
				R7		
				R8		SCALE
				R9		NTS



DETAILS OF STAIRCASE



BEAM SECTIONS

SCHEDULE OF BEAM

BEAM NOS.	BEAM SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT			RINGS	REMARKS
	B MM	D MM	BOT CONT. BARS	BOT CURTAIL BARS	TOP. CONT. BARS	TOP. EXTRA BARS	TOP. EXTRA BARS		
MLB	230	530	5 Y 16	3 Y 16	3 Y 16	3 Y 16	3 Y 16	8mm @ 100-150	MIDLANDING BEAM

GRADE OF STEEL = Fe 500
 GRADE OF CONCRETE = M25
 CONCRETE QUALITY IS CONTRACTOR'S RESPONSIBILITY
 FORM WORK AND SHUTTING DESIGN IS CONTRACTOR'S RESPONSIBILITY
 * DIAMENSIONS, DISTANCES AND LEVELS CONFIRM WITH ARCHITECTURAL DRAWING

The building is designed for G + 4 floors DRAWING IS VALID FOR CONSTRUCTION PROVIDED IT IS SIGNED & STAMPED BY OUR OFFICE MIN. DEPTH OF EXCAVATION - 1500 MM S.B.C. - 35 Tpaq.m. CONSIDERED GRADE OF CONCRETE-M25 GRADE OF STEEL- Fe 500 ENVIRONMENTAL EXPOSURE CONDITION- MODERATE	1. Basic reference code: IS 456: 2000 2. Reinforcement shall not be less than specified below: a) Vertical bars of column, beams & wall b) Slabs c) Beams 3. Due care should be taken to ascertain that requisite strength of concrete is gained before commencement of de-shuttering 4. Shuttering shall be: I Footings 50 II Columns 40 III Beams 20 IV Beams 20 V L/H wall/beam wall 25 In case of slab if main reinf. diameter exceeds 12mm then cover for moderate and severe exposure condition should be increased by 5mm 5. Beams having depth more than 600mm, provide sideface reinf. detailed below I For and upto 750mm depth: provide 12 @ 100 depth II For beams above 600mm depth: provide 12 @ 100 and 20 @ beam depth	6. All bars shall be staggered & not more than 50% bars to be lapped at any given section. Columns, Beams & Slabs 75 X D 69 X D 50 X D 45 x D 7. Maximum allowable height of column without any brace or tie I 230 wide 4000 mm II 200 wide 3600 mm III 150 wide 2800 mm 8. Notwithstanding these provisions, all buildings shall have 16 beams/depth beams at p.l. length M. 9. If buildings overlap each other, necessary revision should be obtained from our office. 10. Substitution should be approved from our office before using p.c.c. 11. Design is valid for use of bars as indicated in schedule only 12. Minimum spacing between any two longitudinal bars in beams: 50mm 13. At any level where columns size get reduced in either dimension, 16 beams/depth beams are absolutely essential 14. For cantilevers, top bars to be anchored behind for - 70 X dia of bars OR open of cantilevers - whichever is greater 15. Fire rating Considered: 1 Hour Max. 16. Shuttering Design is Contractor's responsibility 17. There Must Be Storage For Column @ Column and Beam Junction	Use of this drawing for construction shall explicitly confirm acceptance of following conditions by Owner / Builder / Contractor 1. Our responsibility shall remain limited to safe and sound structural design as transmitted by this drawing and we shall not remain responsible for a) Safety of old structure during demolition. b) Safety of any adjoining building /persons staying in adjoining building/persons & properties on adjoining roads. c) Safety of construction worker/any personnel at work site during construction d) Correctness/safety of any temporary structure, scaffolding, shuttering, centering erected @ site and any injury to any personnel arising out of their accidents. e) Accident occurring due to premature de-shuttering faulty / substandard construction material or workmanship / faulty construction procedure. f) Any accident occurring due to construction of elements of buildings not design by us. material or workmanship / faulty construction procedure. 2) Supervision if specifically asked for will be provided to the extent of verification of reinforcement on site but responsibility regarding correct & sound construction shall solely rest with contractor/ builder / owner. 3) All structural concrete should be weigh batched, machine mixed & mechanically vibrated. Any discrepancy between our drawing & architects drawing shall be brought to our notice before construction. This drawing is property of Rodge Patil Designers and shall not be reproduced or used without explicit permission of this office
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RCC DESIGNERS
RODGE PATIL DESIGNERS
 PUNE YAMUNATEE 1-"MANAGEMENT", VIKRATA NAGAR
 PUNE - 411 004, DEWANE ROAD, DEWANE, THANE-DISTRICT
 BUILDER .
 ARCHITECT: AR.BAL KUMBHAR
 PROJECT: KARMVEER BHAURAO PATIL COLLEGE.
 TITLE: STAIRCASE DETAILS
 RESPONSIBLE PARTY FOR CONSTRUCTION: CONTRACTOR

R1	25/11/2022	DRAWING No.GFC-ST-104-31/22
R2		DRG. STATUS: FOR EXECUTION
R3		JOB NO. 31/2022
R4		
R5		
R6		
R7		
R8		
R9		SCALE NTS