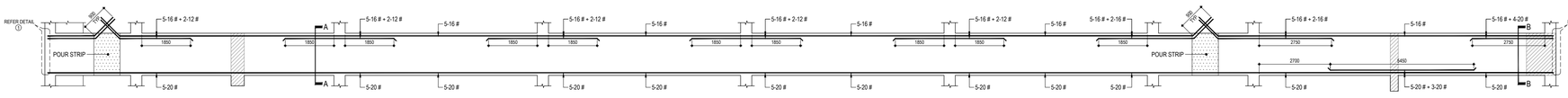
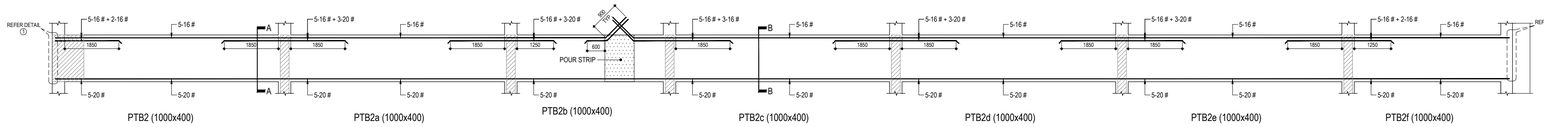
WARNING : DO NOT CHANGE / ALTER THE DIA, POSITION & LAYOUT OF REINFORCEMENT BARS SHOWN IN DETAILED SECTIONS WITHOUT PRIOR INTIMATION TO PTSG



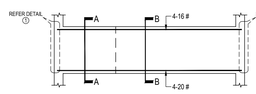
PTB1 (1200x400) | PTB1a (1200x400) | PTB1b (1200x400) | PTB1c (1200x400) | PTB1d (1200x400) | PTB1e (1200x400) | PTB1f (1000x400) | PTB1g (1000x400)

	2857	7300	7300	7300	7300	7300	3400	10848
DIA-LEG	8 # - 5L	10 # - 5L	10 # - 5L	10 # - 5L	10 # - 5L	10 # - 5L	8 # - 5L	10 # - 5L	12 # - 5L	12 # - 5L
NO	ALL	19	REST	19	REST	19	ALL	28	REST	28
SPACING	100 C/C	100 C/C	150 C/C	100 C/C	150 C/C	100 C/C	150 C/C	100 C/C	150 C/C	100 C/C



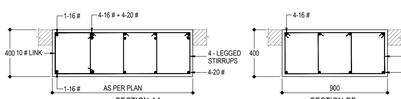
PTB2 (1000x400) | PTB2a (1000x400) | PTB2b (1000x400) | PTB2c (1000x400) | PTB2d (1000x400) | PTB2e (1000x400) | PTB2f (1000x400)

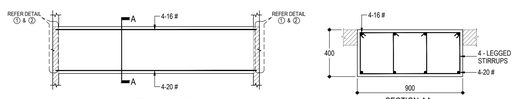
	7300	7300	5000	7300	7300	7300	5002
DIA-LEG	12 # - 5L	12 # - 5L	10 # - 5L	10 # - 5L	8 # - 5L	10 # - 5L	10 # - 5L	10 # - 5L	10 # - 5L	8 # - 5L	8 # - 5L	8 # - 5L
NO	19	REST	19	19	REST	14	REST	14	19	REST	19	14	REST	14
SPACING	100 C/C	150 C/C	100 C/C	100 C/C	150 C/C	100 C/C	150 C/C	100 C/C	100 C/C	150 C/C	100 C/C	100 C/C	150 C/C	100 C/C



PTB3 (900x400)

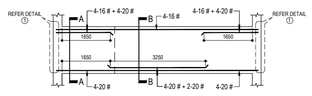
	5900
DIA-LEG	8 # - 4L	8 # - 4L	8 # - 4L
NO	16	REST	16
SPACING	100 C/C	150 C/C	100 C/C





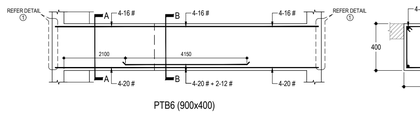
PTB4 (900x400)

	6650
DIA-LEG	8 # - 4L	8 # - 4L
NO	18	REST	18
SPACING	100 C/C	150 C/C	100 C/C



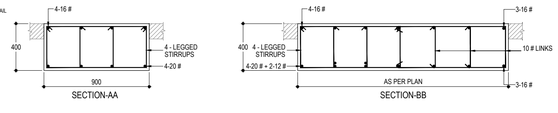
PTB5 (900x400)

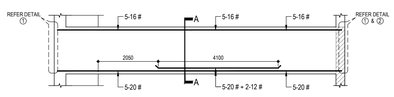
	6499
DIA-LEG	10 # - 4L	10 # - 4L	10 # - 4L
NO	17	REST	17
SPACING	100 C/C	150 C/C	100 C/C



PTB6 (900x400)

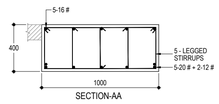
	8293
DIA-LEG	12 # - 4L	12 # - 4L	12 # - 4L
NO	22	REST	22
SPACING	100 C/C	150 C/C	100 C/C

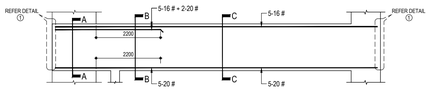




PTB9 (1000x400)

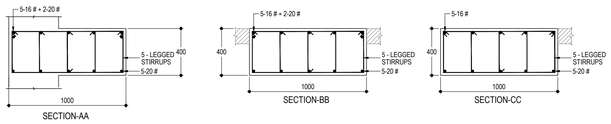
	9225
DIA-LEG	8 # - 5L	8 # - 5L	8 # - 5L
NO	24	REST	24
SPACING	100 C/C	150 C/C	100 C/C

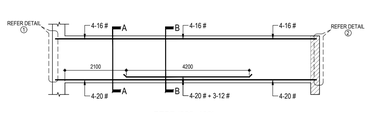




PTB10 (1000x400) | PTB10a (1000x400)

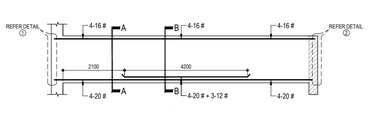
	2000	7911
DIA-LEG	8 # - 5L	8 # - 5L	8 # - 5L
NO	ALL	21	REST	21
SPACING	100 C/C	100 C/C	150 C/C	100 C/C





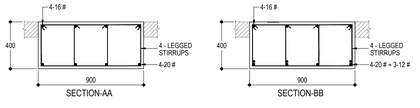
PTB7 (900x400)

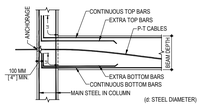
	8401
DIA-LEG	10 # - 4L	10 # - 4L	10 # - 4L
NO	22	REST	22
SPACING	100 C/C	150 C/C	100 C/C



PTB8 (900x400)

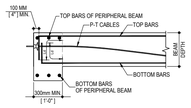
	8401
DIA-LEG	10 # - 4L	10 # - 4L	10 # - 4L
NO	22	REST	22
SPACING	100 C/C	150 C/C	100 C/C





NOTES : (1) STIRRUPS ARE NOT SHOWN FOR CLARITY PURPOSE.

1 DETAIL AT ANCHORAGE FOR PT BEAM



NOTES : (1) STIRRUPS ARE NOT SHOWN FOR CLARITY PURPOSE.

2 P-T BEAM SUPPORTED ON PT OR R.C.C BEAM

Ld1 VALUES			Ld2 VALUES		
	Fe415	Fe500D		Fe415	Fe500D
M-30	38 X d	45 X d	M-30	30 X d	36 X d
M-35	33 X d	40 X d	M-35	27 X d	32 X d
M-40 & ABOVE	30 X d	36 X d	M-40 & ABOVE	24 X d	29 X d

NOTE:-PROVIDE 10 X d EXTRA FOR DUCTILE DETAILING

DETAILS OF Ld VALUES

NOTES :
1. FIX ONLY CONTINUOUS STEEL, OPEN STIRRUPS AND BOTTOM MOSTLAYER STEEL IN P-T BEAMS BEFORE CABLES' PLACEMENT.
2. DO NOT FIX PINS AND STEEL ABOVE THE LOWEST PINS BEFORE THE TENDONS' ARE PLACED ON SITE.
3. PLEASE REFER THE CONCERNED STRUCTURAL CONSULTANTS' STEEL DETAILS FOR ANY FURTHER STEEL REQUIREMENT IN ACCORDANCE TO THEIR ANALYSIS AND DESIGN.

REFER FOLLOWING DRAWINGS FOR STEEL DETAIL :
PTSG-0-2, PTSG-0-3, PTSG - 1B-1, PTSG - 1B-2, PTSG - 1B-3, PTSG - 1B-3A

FOR STIRRUP DETAIL : PTSG-0-2

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MEMBER (SINCE 2012) POST-TENSIONING INSTITUTE

GENERAL NOTES :
1. THIS DRAWING IS BASED ON DESIGN OF GRAVITY LOADING ONLY. (SEISMIC, WIND & ANY OTHER LATERAL LOADING IS NOT CONSIDERED).
2. CONSULT EOR / PTSG PRIOR TO MAKING ANY PUNCTURE IN UNBONDED P-T SLAB OR P-T BEAM.
3. THIS DRAWING IS PART OF A SET OF DRAWING FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
4. PT, STRUCTURAL & ARCH. DRAWINGS SHALL BE STUDIED AND FOLLOWED IN ACCORDANCE WITH EACH OTHER & ANY AMBIGUITY IF FOUND SHALL BE REPORTED IN WRITING BEFORE EXECUTION.
5. PTSG ISNT RESPONSIBLE FOR CENTERING, CURING, FABRICATION, WELDING, DRAWINGS MISUNDERSTANDING.
6. PTSG ISNT RESPONSIBLE FOR QUALITY OF MATERIALS LIKE CONCRETE, NON PRESTRESSED STEEL, PROPS, WOODEN SIDES, ETC. EXCEPT POST TENSIONING MATERIALS.
7. THIS DRAWING IS PROPERTY OF PTSG AND SHOULD NOT BE USED WITHOUT PRIOR PERMISSION.
8. ALL CONCRETING TO BE DONE USING CONCRETE MACHINE MIXER & VIBRATOR ONLY.
9. COLUMN SIZES SHALL BE RECOMMENDED BY STRUCTURAL ENGINEER.
10. DO NOT PROVIDE CAMBER IN THE FORMWORK / SHUTTERING OF ANY P-T ELEMENT WITHOUT CONSENT OF PTSG.
11. CUTOUT IN R.C.C. SLAB PANELS WHICH ARE ADJACENT TO PT BEAM SHALL NOT BE ALLOWED AFTER CONSTRUCTION.
12. STRUCTURAL ENGINEER SHALL APPROVE ALL THE DIMENSIONS PRIOR TO EXECUTION OF FORMWORK.
13. CONVENTIONAL REINFORCEMENT DETAIL SHALL BE APPROVED & CHECKED ON SITE BY STRUCTURAL ENGINEER.
14. SHUTTERING CONTRACTOR SHALL VERIFY ALL THE DIMENSIONS WITH ARCHI. AS PER THE DRAWINGS FROM PTSG & SUPERVISE THE DIMENSIONS OF FORMWORK AND GET IT CHECKED FROM STRUCTURAL ENGINEER.
15. ALL CENTER LINE DIMENSIONS AS PER PT / STRUCTURAL / ARCHI. DRAWINGS / DETAILS.
16. STEEL DENOTED AS # CONFIRMING TO IS: 1786.
17. SLAB LEVEL SHALL BE REFERED TO ARCHI. DRAWING.
18. SHUTTERING BELOW P-T PORTION MUST NOT BE REMOVE UNTILL DE-SHUTTERING APPROVAL GIVEN BY PTSG THROUGH MAIL OR WRITTING.
19. ARCHI. / STRUCTURAL ENGINEER SHALL INFORM US IN CASE OF CHANGE IN THE POSITION OF WALL.
20. SLAB BEAMS SHALL BE PLACED UNDER THE WALLS TO BE CONSTRUCTED.
21. RCC BEAMS SHALL BE DESIGNED WITH THE IMPOSED LOAD OF WALLS AS PER ARCHI. DRAWING.
22. SHUTTERING OF POUR STRIP CAN BE REMOVED AFTER 20 DAYS OF CONCRETE POURED IN POUR STRIP.
23. ADEQUATE TEMPORARY PROPPING(S) SHALL BE PROVIDED AS PER SECTION SHOWN IN BONDING PLAN FOR PANELS BELOW POUR STRIP AFTER REMOVAL OF SHUTTERING TILL THE CONCRETE OF POUR STRIP REACHES 28 DAYS STRENGTH.
24. E.O.R.=ENGINEER OF RECORDS (STRUCTURAL CONSULTANT OF THE PROJECT).

SPECIFICATION OF P-T SYSTEM :
DESCRIPTION: 7 IN 1 (RPC) CABLE WITH 12.9 MM NOMINAL DIA.
ULTIMATE TENSILE STRENGTH: 1860 MPa
JACKING FORCE: 149 kN
SYSTEM: ENCAPSULATED MONOSTRAND UNBONDED P-T SYSTEM

PROJECT:

Acme
Thane Mumbai

LOADING & MATERIAL CRITERIA :

CREEP FACTOR : 1.6

LIVE LOAD : 2.5 KN/M^2	FLOOR FINISH : 1.5 KN/M^2

GRADE OF CONCRETE :	GRADE OF STEEL :
FOR PT ELEMENT : M35 (RMC)	MAIN REINFORCEMENT : Fe500D
FOR R.C.C. ELEMENT : M35 (RMC)	STIRRUPS : Fe415

COVER TO MAIN REINFORCEMENT:

PT SLAB : 25 MM (TOP & BOTTOM)

PT BEAM : 40 MM (TOP & BOTTOM)

NO.	DATE	DESCRIPTION
R0	28 AUG, 2023	FOR REVIEW ONLY

REVISIONS :

STRUCTURAL CONSULTANT :

JW CONSULTANTS LLP
LLP IDENTITY NO.: AAA-2133
PARTNERSHIP WITH LIMITED LIABILITY

PTSG™
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+91 265 2341298
ptsindia@gmail.com
www.ptsindia.net
info@ptsindia.net

DRAWN BY: ASP	PROJECT NO: 9-4405
DESIGNED BY: OMN/OMN	DATE: 14 SEP, 2022
CHECKED BY: ARS	SHEET SIZE: A1

DRAWING TITLE : 1st. BASEMENT FLOOR LEVEL

SHEET TITLE: **BEAM REINFORCEMENT DETAIL**

SHEET NO: PTSG-1B-2