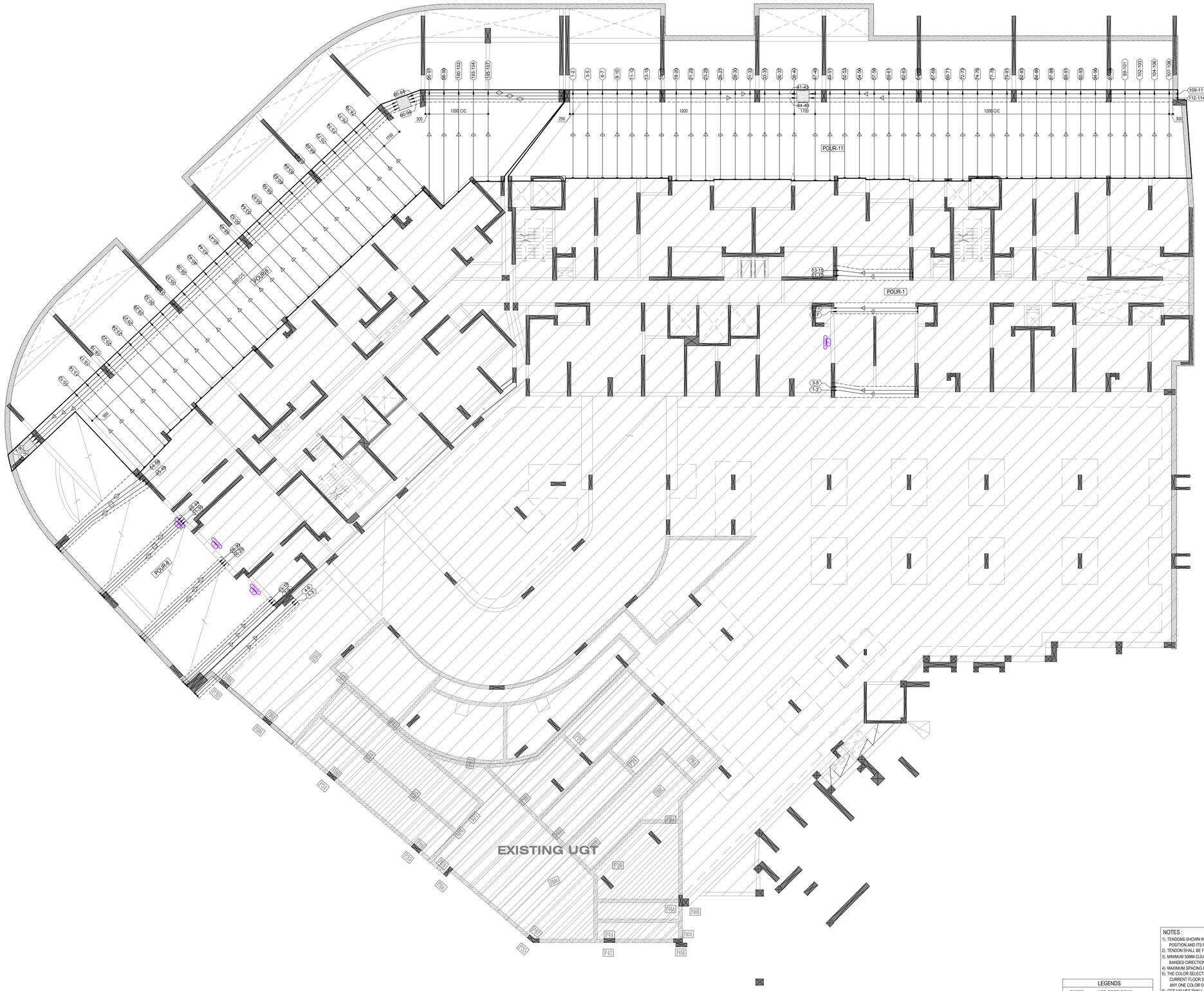
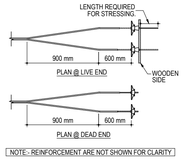
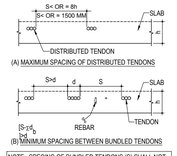




NOTE :- REINFORCEMENT ARE NOT SHOWN FOR CLARITY

TYPICAL DETAILS OF TENDON AT ANCHORAGE END



NOTE: SPECING OF BUNDLED TENDONS (S) SHALL NOT BE LESS THAN 50mm IN ANY CASE.

TENDON SPACING IN SLABS

NOTES :

1) TENDONS SHOWN IN THE DRAWING IS A SCHEMATIC LAYOUT, IT MAY VARY IN ACTUAL TENDON POSITION AND ITS PLACEMENT AS PER PREVAILING SITE CONDITIONS.
2) TENDON SHALL BE FIRMLY SUPPORTED AT INTERVALS NOT EXCEEDING 1.2M WITH THE DESIGN PROFILE.
3) MINIMUM 50MM CLEAR SPACING MUST BE KEPT BETWEEN TWO BUNDLES OF TENDONS IN BANDED DIRECTION.
4) MAXIMUM SPACING BETWEEN TWO TENDONS IN UNIFORM DIRECTION SHOULD BE 8 X SLAB THICKNESS.
5) THE COLOR SELECTED FOR MARKING LOCATION OF P-T CABLE ON THE BOTTOM SHUTTERING FOR CURRENT FLOOR SHALL NOT BE REPEATED IN NEXT TWO FLOORS AS WELL AS LAST TWO FLOORS. ANY ONE COLOR OUT OF BLUE, RED & YELLOW SHALL BE SELECTED AS PER THE CRITERIA.
6) CGS VALUES SHALL BE MEASURED FROM BOTTOM OF RESPECTIVE ELEMENT.
7) TOTAL LOSS OF PRESTRESS DUE TO UNREPLACED BROKEN PRESTRESS STEEL SHALL NOT EXCEED 2 % OF TOTAL PRESTRESS AS PER ACI 318-05 CLAUSE 18.20.4

LEGENDS

SYMBOL	NOS. OF TENDONS
○	1
⌔	2
▽	3
□	4
◇	5

XX + X
- NUMBER GIVEN FOR EXTRA TENDONS
- NUMBER GIVEN FOR TENDONS

ACCEPTABLE TOLERANCE FOR TENDON PLACEMENT:

1. VERTICAL DEVIATION IN TENDON LOCATION SHOULD BE KEPT TO THE FOLLOWING TOLERANCE VALUES
   * + OR - 6.4 MM : LESS THAN 200 MM SLAB THICKNESS
   * + OR - 10 MM : 200 MM AND 600 MM CONCRETE DEPTH
   * + OR - 12 MM : OVER 600 MM CONCRETE DEPTH
2. HORIZONTAL DEVIATION: SLAB BEHAVIOR IS RELATIVELY INSENSITIVE TO HORIZONTAL LOCATION OF TENDONS

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. BACK PROPPING (RE-PROPPING) SHALL BE PROVIDED AS PER SECTION SHOWN IN FORMING PLAN BOTHWAYS 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 PLY LRPC CABLE WITH 12.9 MM NOMINAL DIA.
ULTIMATE TENSILE STRENGTH: 1860 MPa
JACKING FORCE: 189 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

POST TENSION SERVICES (GUJARAT) LLP
A Group Company of Post Tension Services India Pvt. Ltd.
101-104, PTSI, Off Genda Circle, Opp. Baroda People's Co. Op. Society, Alkapuri, Vadodara - 390 007
Gujarat, India.
Ph: +91 75678 78798 +91 265 2341296
www.ptsindia.net
ptsindia@gmail.com info@ptsindia.net

DRAWN BY:	NDP	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: P-T TENDON NUMBERS

SHEET NO: PTSG-1B-5

P: \01_Projects Projects old 2_PTSI_Drafting_Standards Templates_New_Metric Plan Scale SCALE - 1.00 PTSI-9-4405\10.dwg Plotted: 01/10/2015 - 4:13 PM by rmehta

CONFIDENTIAL - TRADE SECRETS :-THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY OF POST TENSION SERVICES (GUJARAT) LLP, AND SHOULD NOT BE USED, DUPLICATED OR EDITED WITHOUT ITS CONSENT OR WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/MATERIAL UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN.