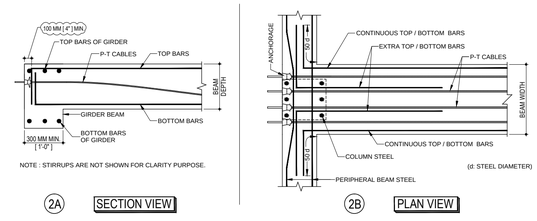
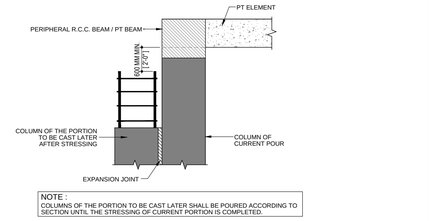


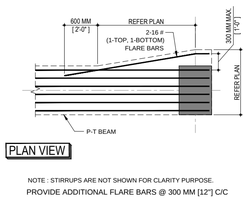
① TYPICAL DETAIL AT PERIMETER R.C.C. BEAM



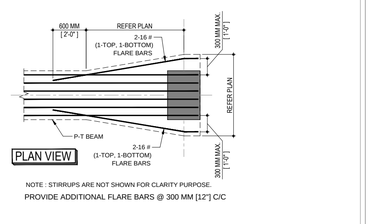
② P-T BEAM SUPPORTED ON PT OR R.C.C BEAM



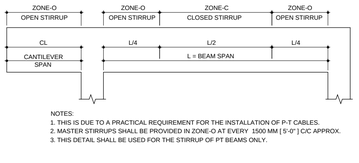
③ TYPICAL EXPANSION JOINT DETAIL



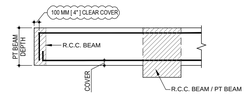
④ DETAIL AT SINGLE SIDE FLARE END



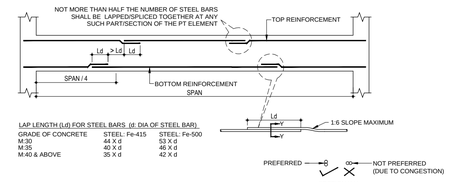
⑤ DETAIL AT TWO SIDE FLARE END



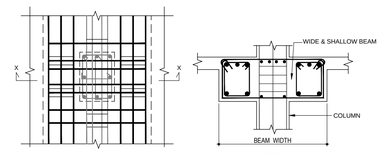
⑥ RANGE OF CLOSED AND OPEN STIRRUPS IN PT BEAM



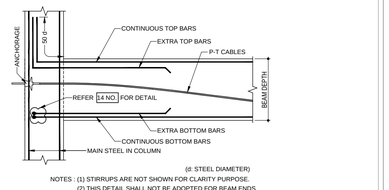
⑦ TYPICAL DETAIL OF CHIPYA AT CANTILEVER (U.N.O.)



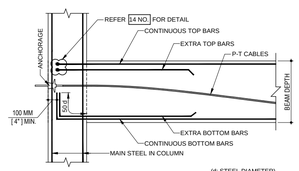
⑧ DEVELOPMENT LENGTH AND LAPPING DETAIL OF REINFORCEMENT IN PT BEAM



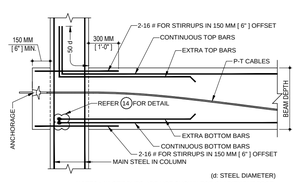
⑨ DETAIL OF WIDE SHALLOW BEAM AT COLUMN JUNCTION



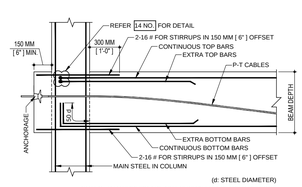
⑩ DETAIL AT ANCHORAGE FOR PT BEAM (WITHOUT 150 MM [6"] OFFSET)



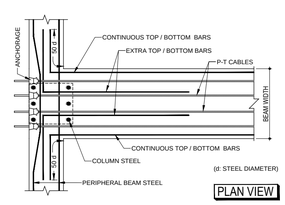
⑪ DETAIL AT ANCHORAGE FOR PT BEAM (WITHOUT 150 MM [6"] OFFSET)



⑫ DETAIL AT ANCHORAGE FOR PT BEAM (WITH 150 MM [6"] OFFSET)



⑬ DETAIL AT ANCHORAGE FOR PT BEAM (WITH 150 MM [6"] OFFSET)



⑭ DETAIL AT ANCHORAGE FOR PT BEAM (WITHOUT 150 MM [6"] OFFSET)

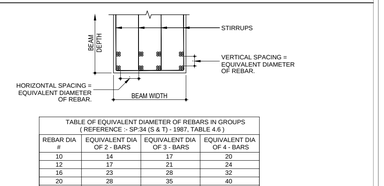
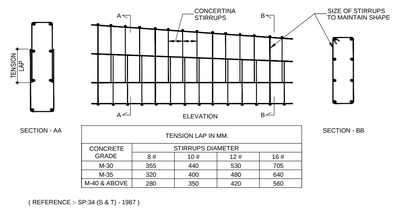


TABLE OF EQUIVALENT DIAMETER OF REBARS IN GROUPS
(REFERENCE :- SP:34 (S & T) - 1987, TABLE 4.6)

REBAR DIA #	EQUIVALENT DIA OF 2 - BARS	EQUIVALENT DIA OF 3 - BARS	EQUIVALENT DIA OF 4 - BARS
10	14	17	20
12	17	21	24
16	23	28	32
20	28	35	40
25	35	43	50
32	45	55	64

NOTE : DEVELOPMENT LENGTH (Ld) OF EACH BAR OF BUNDLED BARS SHALL BE THAT FOR THE INDIVIDUAL BAR, INCREASED BY 10% FOR TWO BARS IN CONTACT, 20% FOR THREE BARS IN CONTACT & 30 % FOR FOUR BARS IN CONTACT.

⑮ MINIMUM SPACING BETWEEN GROUPS OF REBARS IN PT BEAM

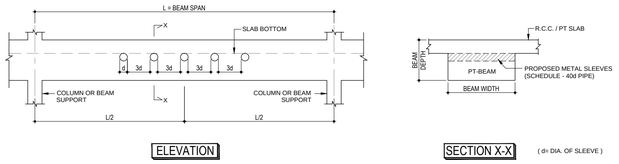


TENSION LAP IN MM.

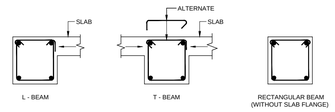
CONCRETE GRADE	STIRRUPS DIAMETER 8 #	10 #	12 #	16 #
M-30	355	440	530	705
M-35	320	400	480	640
M-40 & ABOVE	280	350	420	560

(REFERENCE :- SP:34 (S & T) - 1987)

⑯ CONCERTINA STIRRUPS IN BEAMS OF VARYING DEPTH

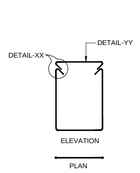


⑰ TYPICAL SLEEVE PLACEMENT DETAIL IN PT BEAM

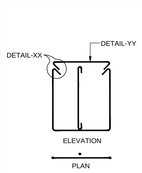


⑱ RECOMMENDED OPEN STIRRUPS FOR TORSION

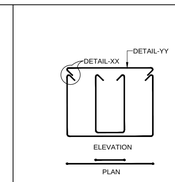
TYPICAL OPEN STIRRUPS ARRANGEMENT



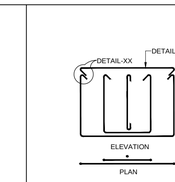
㉔ 2-LEGGED



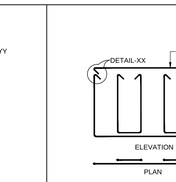
㉕ 3-LEGGED



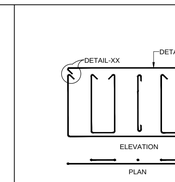
㉖ 4-LEGGED



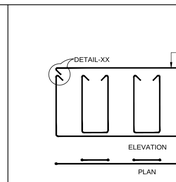
㉗ 5-LEGGED



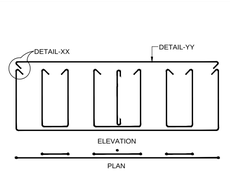
㉘ 6-LEGGED



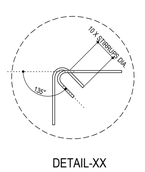
㉙ 7-LEGGED

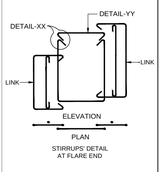


㉚ 8-LEGGED

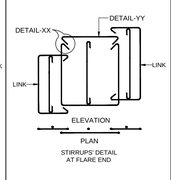


㉛ 9-LEGGED

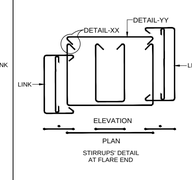




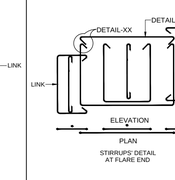
㉔a 2-LEGGED



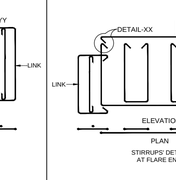
㉕a 3-LEGGED



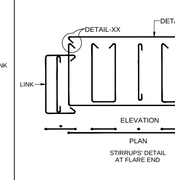
㉖a 4-LEGGED



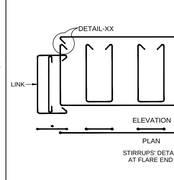
㉗a 5-LEGGED



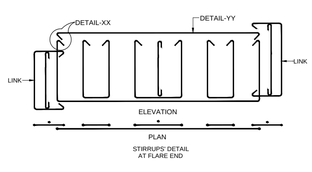
㉘a 6-LEGGED



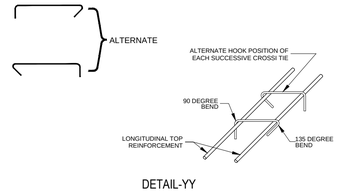
㉙a 7-LEGGED



㉚a 8-LEGGED



㉛a 9-LEGGED



㉜

1 STANDARD REINFORCEMENT DETAIL FOR P-T BEAMS

PTSG™
POST TENSION SERVICES (GUJARAT) LLP
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 2341298
www.ptsindia.net
ptsindia@gmail.com
info@ptsindia.net

SHEET TITLE:
STANDARD DETAIL P-T BEAMS

SHEET NO:
PTSG-0-2

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.