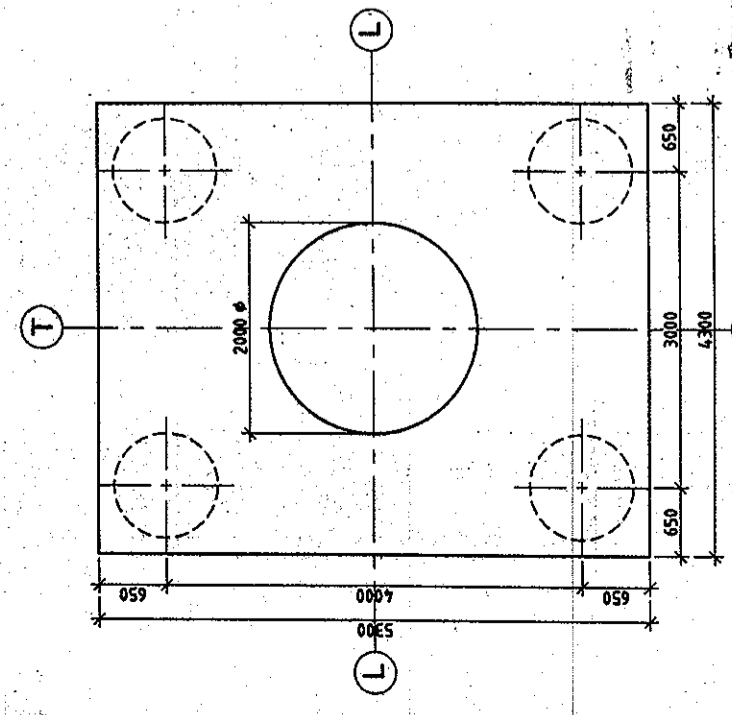


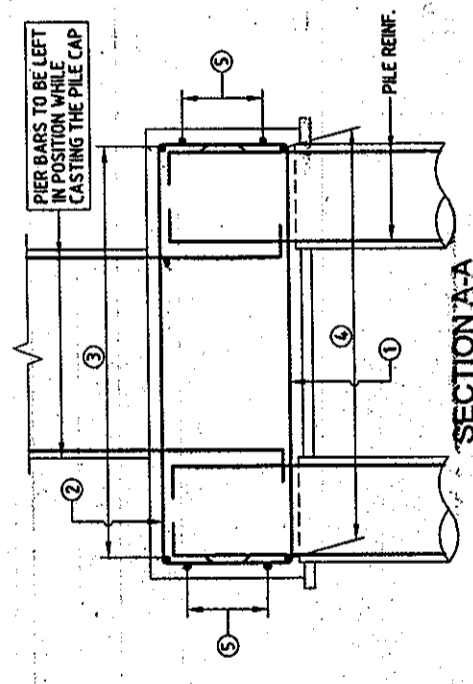
ELEVATION ALONG L-L AXIS (SCALE 1:50)



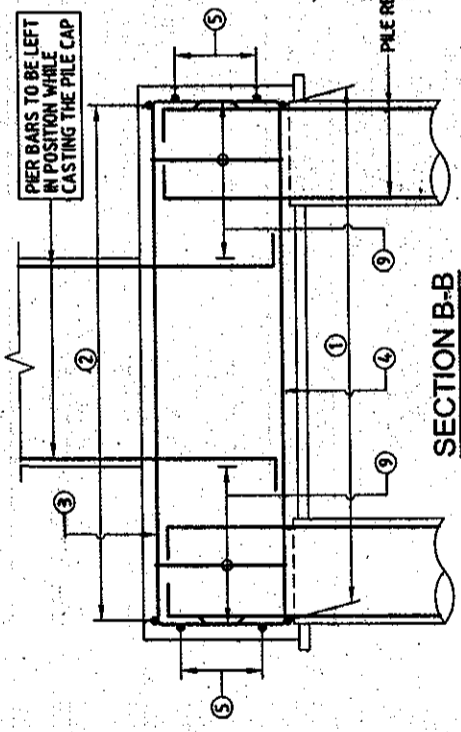
PLAN AT TOP OF PILE CAP (SHOWING DIMENSIONS) (SCALE 1:50)

LEVELS CHART FOR PILE CAP LAYOUT

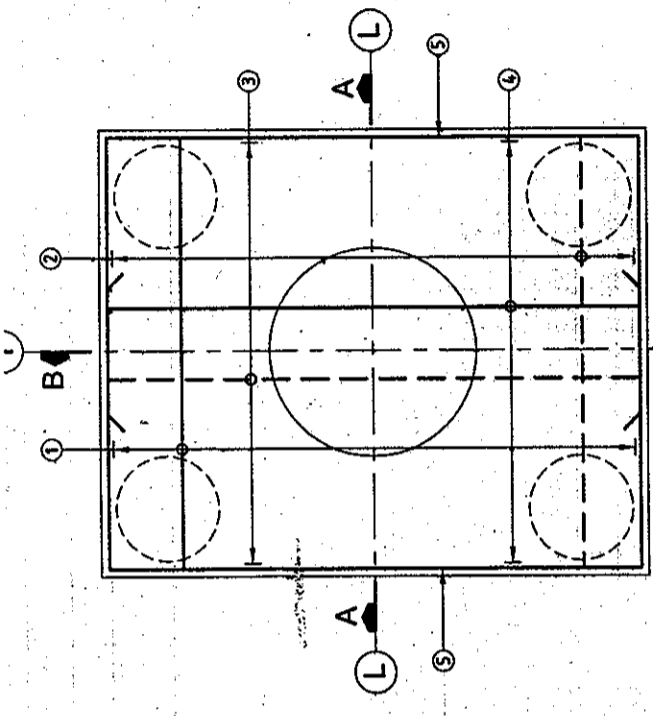
PIER DESIGNATION	BED LEVELS	TOP OF PILE CAP LEVELS	CUT OFF LEVELS	FOUNDING LEVELS
P4	246.533	246.033	244.583	230.583
P11	246.706	246.206	244.756	230.756



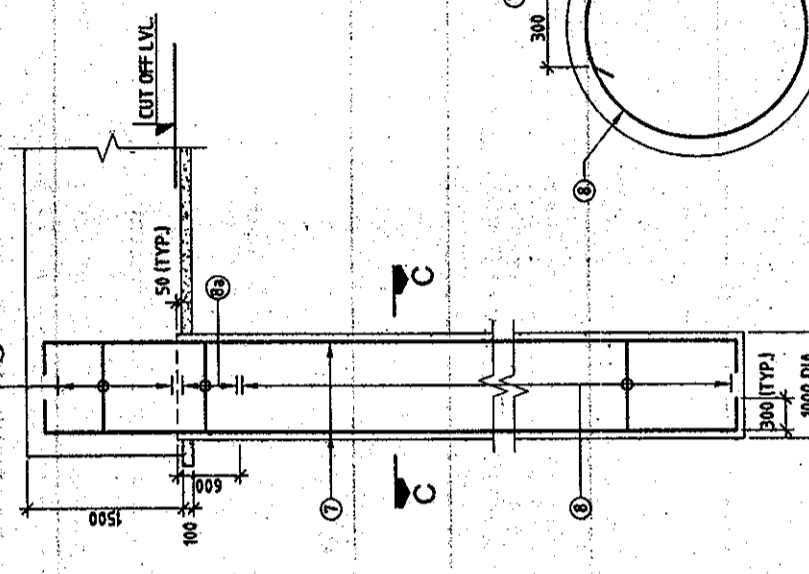
SECTION A-A (SCALE 1:50)



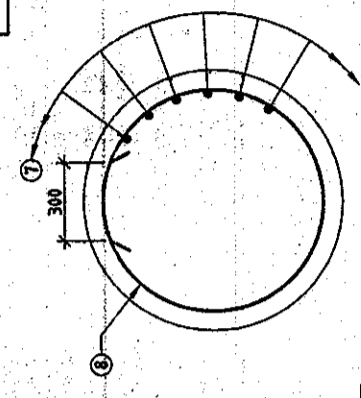
SECTION B-B (SCALE 1:50)



PLAN (SHOWING PILE CAP REINFORCEMENT) (SCALE 1:50)



R.C.C. DETAILS OF PILE (SCALE 1:50)



SECTION C-C (SCALE 1:20)

REINFORCEMENT DETAIL

BAR MKD.	DIA (mm)	SPACING/Nos.	SHAPE
1	25	18 Nos.	—
2	16	150	—
3	16	150	—
4	25	35 Nos.	—
5	16	8 Nos.	—
6	25	15 Nos.	—
7	10	200	—
8	10	100	—
9	16	150	□ 4 LEGGED

LEGENDS:
— BAR ON TOP FACE

APPROVED FOR EXECUTION

ISSUED

Assistant Engineer Design (P)
Executive Engineer Design (P)
Chief Engineer (P)

PUNJAB P.W.D. (B & R)

- ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION IS TO BE SCALED.
- CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC STRENGTH OF 35MPa FOR BORED CAST-IN-SITU PILE AND PILE CAP.
- CLEAR COVER TO SHALL BE AS FOLLOWS.
(i) FOR PILE --- 75mm
(ii) FOR PILE CAP --- 75mm
- TMT HIGH YIELD STRENGTH DEFORMED BARS SHALL BE OF GRADE DESIGNATION Fe-415 CONFORMING TO IS-1786 SHALL ONLY BE USED.
- MINIMUM BOND LENGTH SHALL BE 42 x DIA OF BAR.
- MINIMUM LAP LENGTH FOR REINFORCEMENT BAR SHALL BE 72 x DIA OF BARS. LAPS SHALL BE STAGGERED AND NOT MORE THAN 50% OF BARS SHALL BE LAPPED AT ANY ONE SECTION.
- LL REPRESENTS LONGITUDINAL AXIS OF BRIDGE AND TT REPRESENTS TRANSVERSE AXIS OF BRIDGE.
- ACTUAL LOAD TEST SHALL BE CARRIED OUT ON A TEST PILE AS PER STANDARD SPECIFICATIONS TO DETERMINE VERTICAL AND LATERAL CAPACITY OF PILE. IT SHALL HOWEVER BE ENSURED THAT IT IS NOT LESS THAN DESIGN VALUES.

REFERENCE DRAWINGS:-

- 1213/SMEC/LUDHIANA/22-005/G-01 (SHEET 1 OF 6 TO 6 OF 6)
- 1213/SMEC/LUDHIANA/22-005/E-04 (SHEET 2 OF 2)

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CLIENT: PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD

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CHANDER NAGAR, PHASE-II GURGAON,
HARYANA, INDIA - 122 002
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PROJECT TITLE: PREPARATION OF DETAILED PROJECT REPORT FOR UPGRADATION OF SOUTHERN BAY-PASS LUDHIANA

REVISIONS:

REV	DATE	DRAWN	DESIGN	CHECKED	APPROVED	REVISIONS AS PER P.B.PWD COMMENTS
R1	28/08/2009	VNM	VNM	VNM	S.L.HIRI	REVISED AS PER P.B.PWD COMMENTS
R0	22/05/2009	MKS	VNM	VNM	S.L.HIRI	FIRST ISSUE

DETAILS OF REVISION

SCALE: AS SHOWN

SHEET SIZE: A2

DPR: DRW

DR: R1

1213/SMEC/LUDHIANA/22-005/E-04 (SHEET 1 OF 2)

