

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 BARLAPS 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:-

- 1219/SMEC/LUDHIANA/21+100/G-01 (SHEET 1 OF 7 TO 7 OF 7)
- 1213/SMEC/LUDHIANA/21+100/E-07 (SHEET 2 OF 2)

REINFORCEMENT DETAIL:-

BAR NO.	DIA (mm)	SPACING/NO.	SHAPE
1	25	23 Nos.	[Symbol]
2	16	150	[Symbol]
3	16	150	[Symbol]
4	25	62 Nos.	[Symbol]
5	16	8 Nos.	[Symbol]
7	25	15 Nos.	[Symbol]
8	10	200	[Symbol]
8a	10	100	[Symbol]
9	16	150	[Symbol]

LEGENDS:

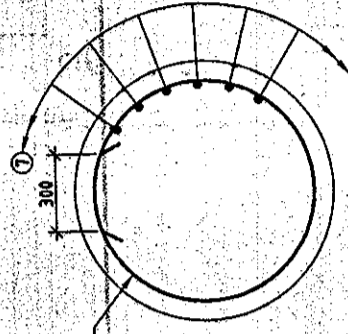
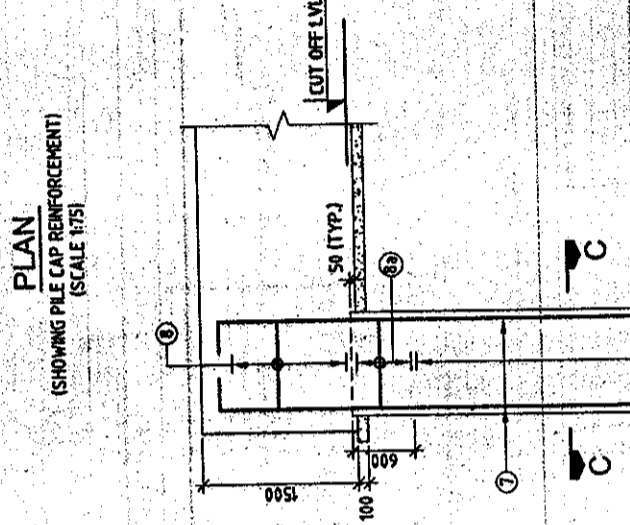
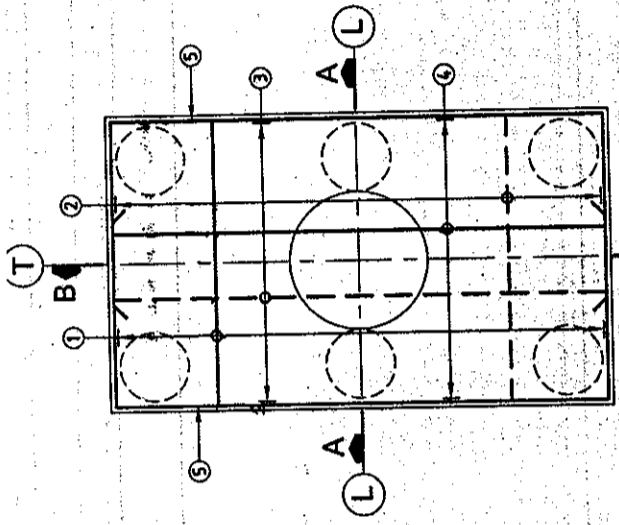
BAR ON TOP FACE
APPROVED FOR EXECUTION
ISSUED

Assistant Engineer
Design (IP)

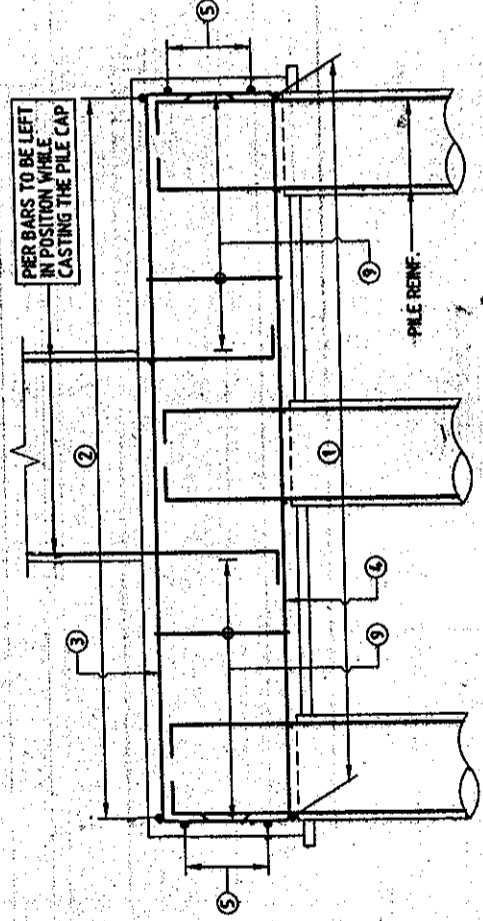
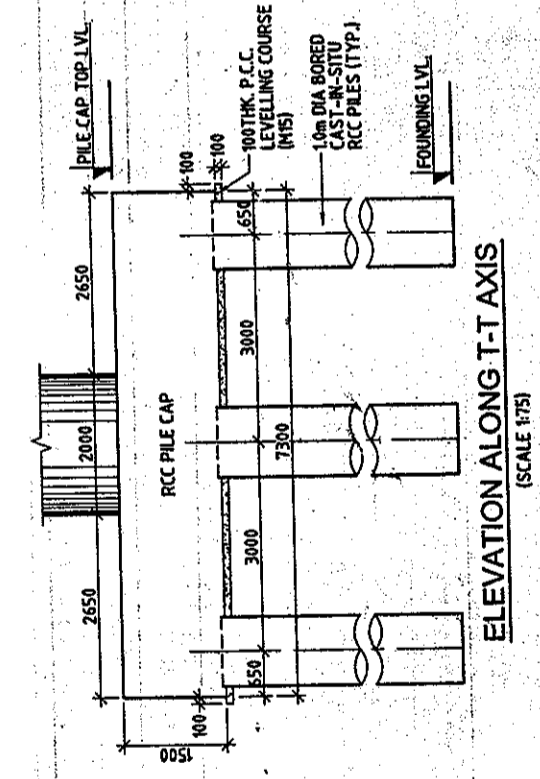
Executive Engineer
Design (IP)

Chief Engineer
Design (IP)

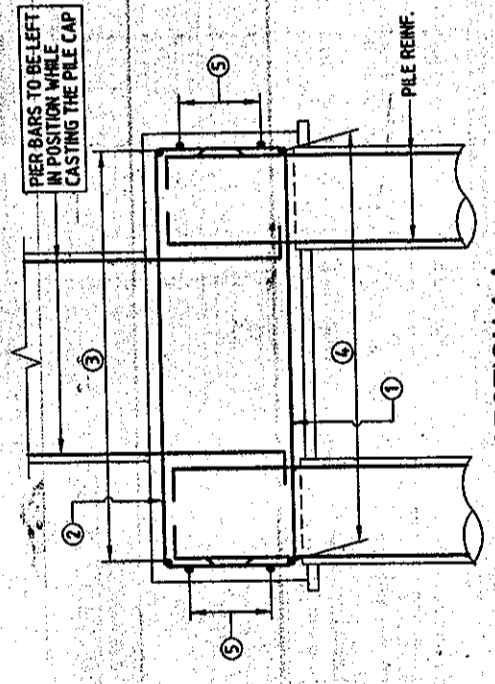
PIJNJAB P.W.D. (B & R)



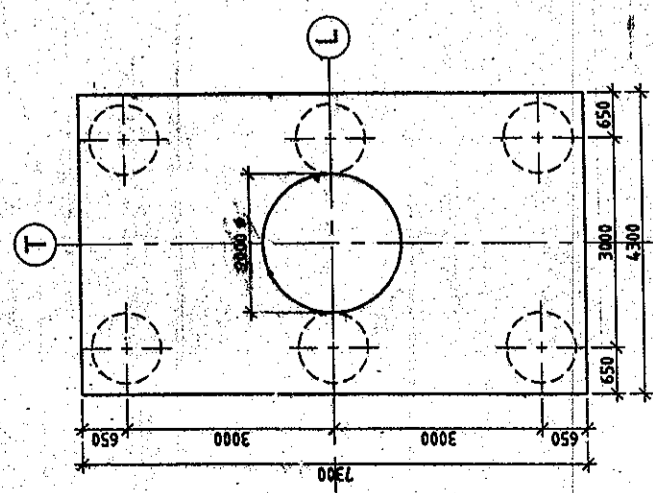
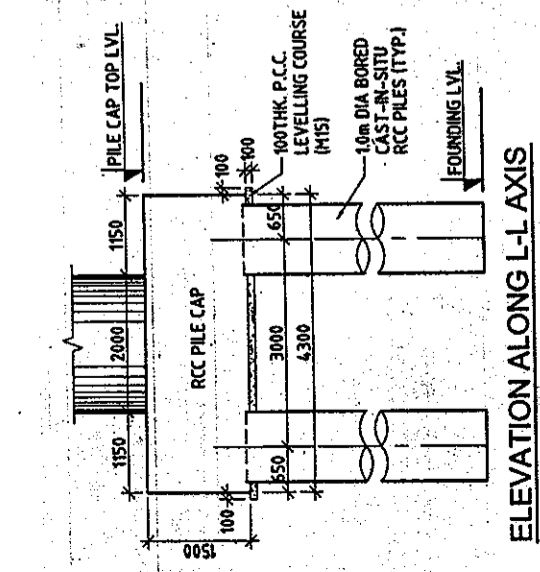
SECTION C-C
(SCALE 1/20)



SECTION B-B
(SCALE 1/50)



SECTION A-A
(SCALE 1/50)



PLAN AT TOP OF PILE CAP
(SHOWING DIMENSIONS)
(SCALE 1/75)

LEVEL CHART FOR PILE CAP LAYOUT

PIER DESIGNATION	BED LEVEL	TOP OF PILE CAP LEVEL	CUT OFF LEVEL	FOUNDING LEVEL
P10	246.924	246.424	244.974	230.974

DETAILED PROJECT REPORT

DIMENSIONAL & REINFT. DETAILS OF PILE, PILE CAP, PIER & PIER CAP

(SHEET 1 OF 2)

1213/SMEC/LUDHIANA/21+100/E-07

R1

SCALE:	AS SHOWN
SHEET SIZE:	A2

REV	DATE	DRAWN	CHECKED	APPROVED	DETAILS OF REVISION
R1	27/05/2009	MKS	VNM	S/LA/IRI	REVISED AS PER P8 PWD COMMENTS FIRST ISSUE
R0	27/05/2009	MKS	VNM	S/LA/IRI	APPROVED

PREPARATION OF DETAILED PROJECT REPORT FOR UPGRADATION OF SOUTHERN BYPASS LUDHIANA

CONSULTANT: **SMEC**

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CLIENT: **PIDB**

PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD

64, Structure 123, Formal, OPB, Verand Drains, R2 (Feb 10) Sd/Asst. Engr. Ch. L. 100 E-17, 2019