

- 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
- THE 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 BARRLAPS 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-07 (SHEET 2 OF 2)

REINFORCEMENT DETAIL

BAR MKD.	DIA (mm)	SPACING/Nos.	SHAPE
1	25	23 Nos.	L
2	16	150	L
3	16	150	L
4	25	62 Nos.	L
5	16	8 Nos.	□
7	25	15 Nos.	L
8	10	200	○
8a	10	100	○
9	16	150	□ (LAPPED)

LEGENDS: APPROVED FOR EXECUTION

ISSUED TO: *[Signature]*

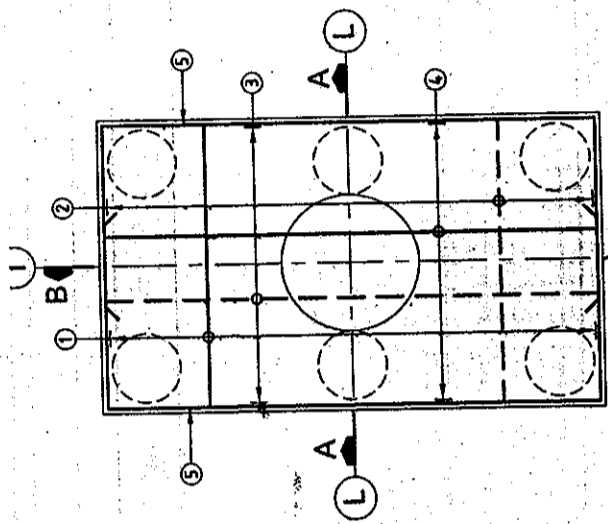
23/10/2009

Assistant Engineer Design (IP)

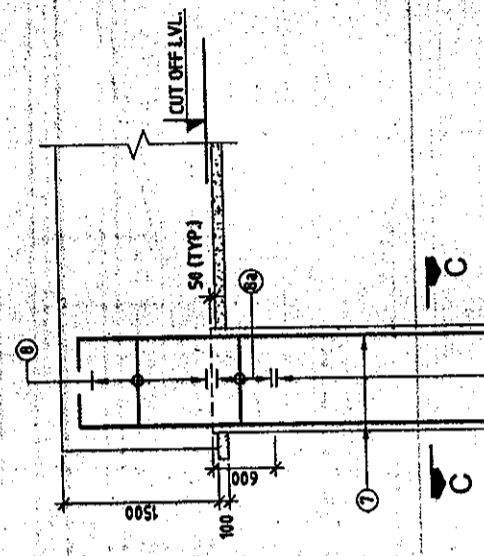
Executive Engineer Design (IP)

Chief Engineer (IP)

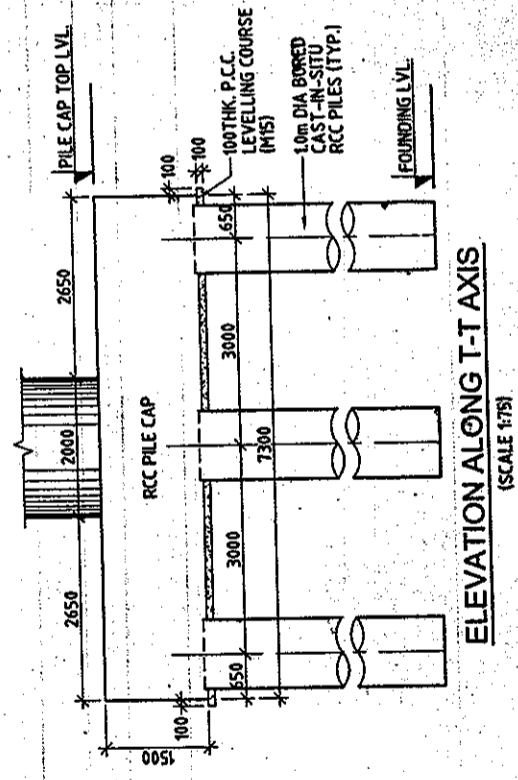
PUNJAB P.W.D. (B & R)



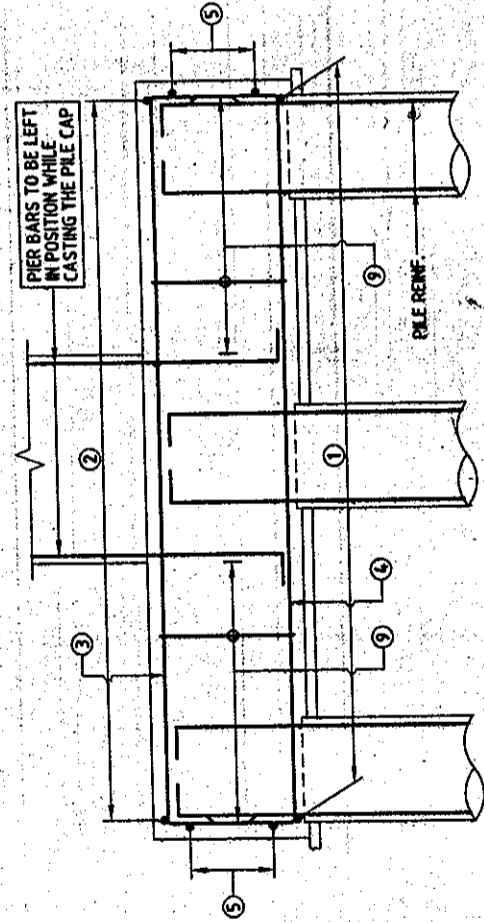
PLAN
(SHOWING PILE CAP REINFORCEMENT)
(SCALE 1:75)



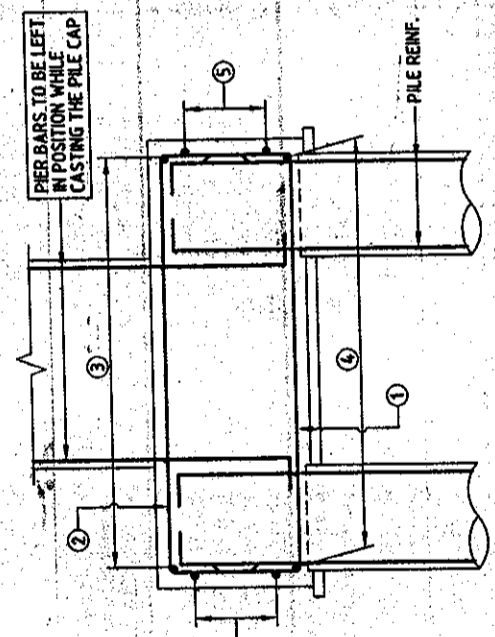
SECTION C-C
(SCALE 1:20)



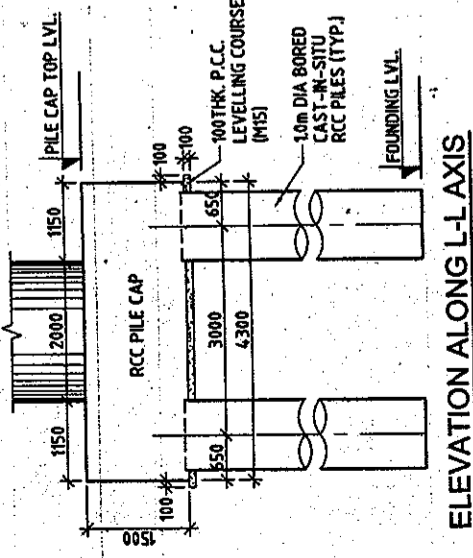
ELEVATION ALONG T-T AXIS
(SCALE 1:75)



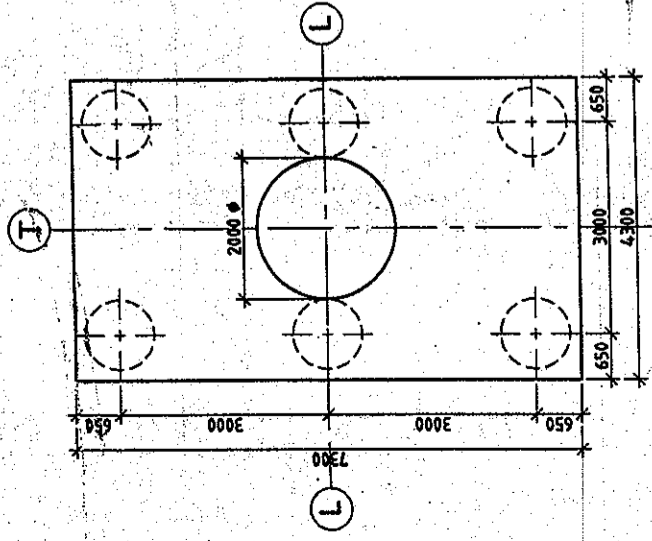
SECTION B-B
(SCALE 1:50)



SECTION A-A
(SCALE 1:50)



ELEVATION ALONG L-L AXIS
(SCALE 1:75)



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
P8	246.583	246.083	244.633	230.633

DETAILED PROJECT REPORT

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

(SHEET 1 OF 2)

1213/SMEC/LUDHIANA/22-005/E-07 R1

SCALE: AS SHOWN

SHEET SIZE: A2

REVISED AS PER P.B.P.W.D. COMMENTS

REV. NO. DATE DATE DRAWN CHECKED APPROVED

REVISION DETAILS

PROJECT TITLE: PREPARATION OF DETAILED PROJECT REPORT FOR UPGRADATION OF SOUTHERN BYE-PASS LUDHIANA

CONSULTANT: SMEC PVT. LTD.

CLIENT: PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD

PROJECT NO. 1213/SMEC/LUDHIANA/22-005/E-07

DATE: 23/10/2009

SCALE: AS SHOWN

PROJECT NO. 1213/SMEC/LUDHIANA/22-005/E-07

DATE: 23/10/2009

SCALE: AS SHOWN

PROJECT NO. 1213/SMEC/LUDHIANA/22-005/E-07

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