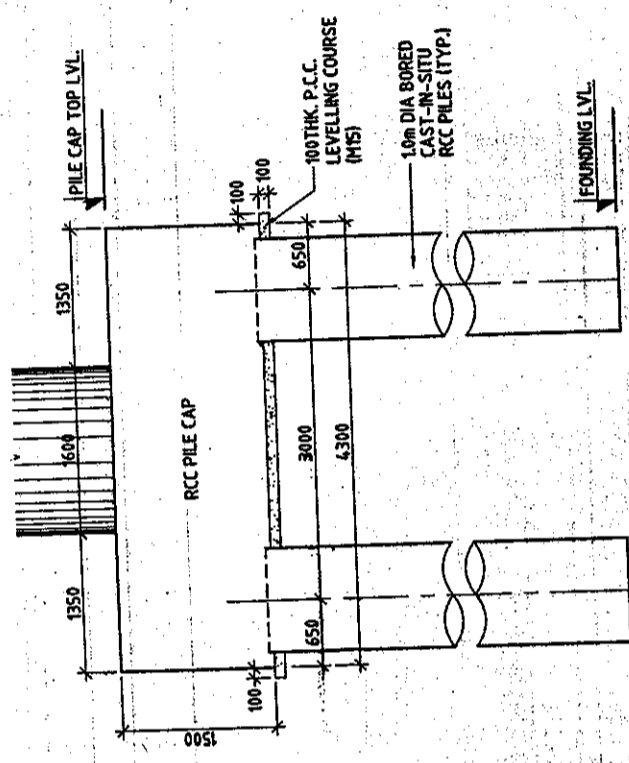


1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION IS TO BE SCALED.

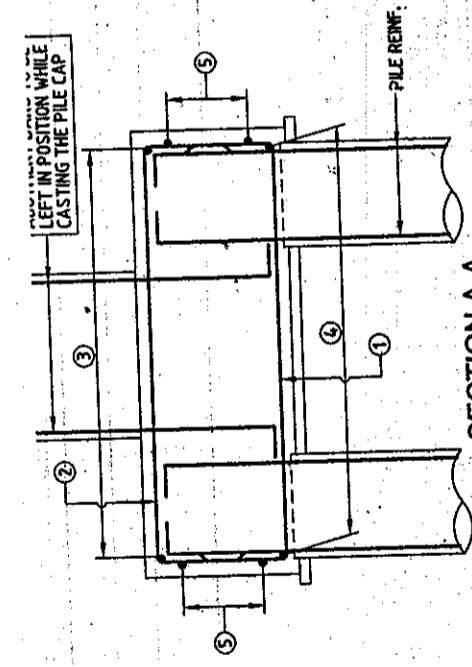
- CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC STRENGTH OF 35MPa FOR BORED CAST-IN-SITU PILE AND PILE CAP.
- CLEAR COVER TO SHALL BE AS FOLLOWS:
 (i) FOR PILE --- 75mm
 (ii) FOR PILE CAP --- 75mm
- THE HIGH YIELD STRENGTH DEFORMED BARS SHALL BE OF GRADE DESIGNATION Fe-415 CONFORMING 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 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:-

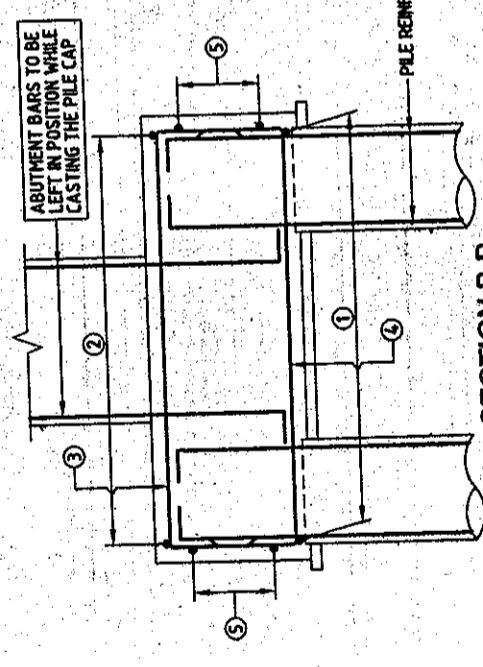
- 1213/SMEC/LUDHIANA/22-005/G-01 (SHEET 1 OF 6 TO 6 OF 6)
- 1213/SMEC/LUDHIANA/22-005/E-01 (SHEET 2 OF 2)



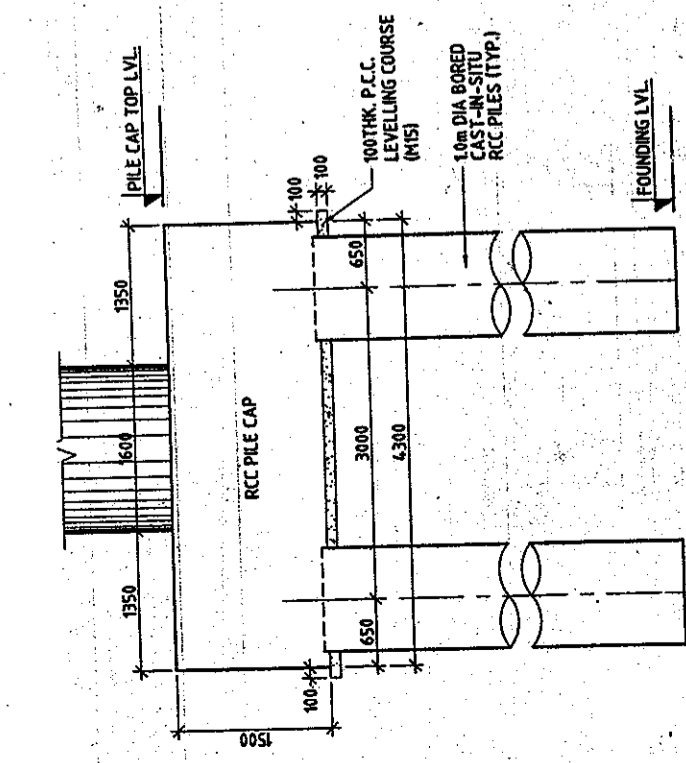
ELEVATION ALONG T-T AXIS
(SCALE 1:50)



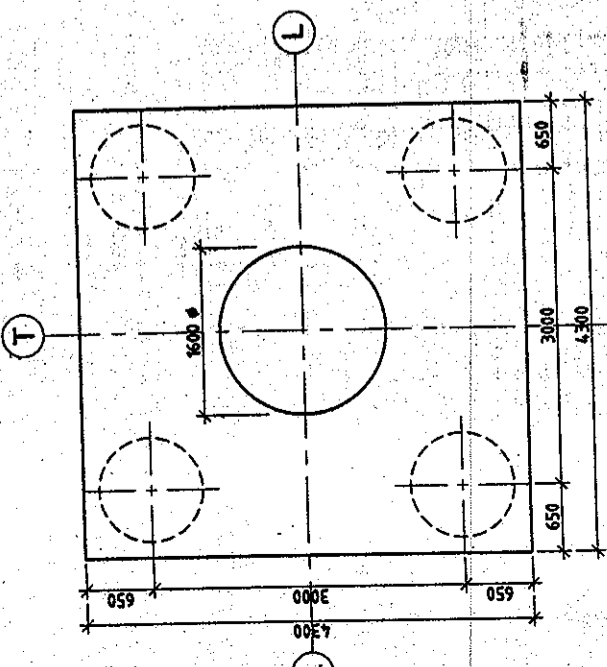
SECTION A-A
(SCALE 1:50)



SECTION B-B
(SCALE 1:50)



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

ABUTMENT DESIGNATION	BED LEVELS	TOP OF PILE CAP LEVELS	CUT OFF LEVELS	FOUNDING LEVELS
AD	246.662	246.162	244.712	230.712
AL	246.743	246.243	244.793	230.793

REINFORCEMENT DETAIL:

BAR MKD.	DIA (mm)	SPACING/Nos.	SHAPE
1	25	15 Nos.	[Diagram]
2	16	150	[Diagram]
3	16	150	[Diagram]
4	25	15 Nos.	[Diagram]
5	16	8 Nos.	[Diagram]
7	20	20 Nos.	[Diagram]
8	10	200	[Diagram]
8a	10	100	[Diagram]

LEGENDS: APPROVED FOR EXECUTION

ISSUED FOR EXECUTION

Assistant Engineer Design (IP)

Executive Engineer Design (IP)

Chief Engineer (IP)

PI/IN/AB PWD (B & R)

SECTION C-C
(SCALE 1:20)

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

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

DETAILED PROJECT REPORT

SCALE: AS SHOWN

SHEET SIZE: A2

DRW: DPR

REVISIONS:

REV	DATE	BY	CHKD	APPD	REVISIONS
R1	28/09/2009	MRS S L JIRI	VNM	S L JIRI	REVISED AS PER P/FPD COMMENTS
R0	19/05/2009	MKS	VNM	S L JIRI	FIRST ISSUE

DETAILS OF REVISION

CLIENT: PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD

PROJECT TITLE: PREPARATION OF DETAILED PROJECT REPORT FOR UPGRADATION OF SOUTHERN BYPASS LUDHIANA

CONSULTANT: SMEC (INDIA) PVT. LTD.

CLIENT ADDRESS: PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD, PHASE-4, GURDWARAN, LUDHIANA, INDIA - 142 002

TELEPHONE: 0182-430002, 430100

PROJECT NO.: CH-22-005/VE/TOVER/CH-22-005 E-01/09

DATE: 28/09/2009

SCALE: AS SHOWN

SHEET SIZE: A2

DRW: DPR

REVISIONS:

REV	DATE	BY	CHKD	APPD	REVISIONS
R1	28/09/2009	MRS S L JIRI	VNM	S L JIRI	REVISED AS PER P/FPD COMMENTS
R0	19/05/2009	MKS	VNM	S L JIRI	FIRST ISSUE

DETAILS OF REVISION