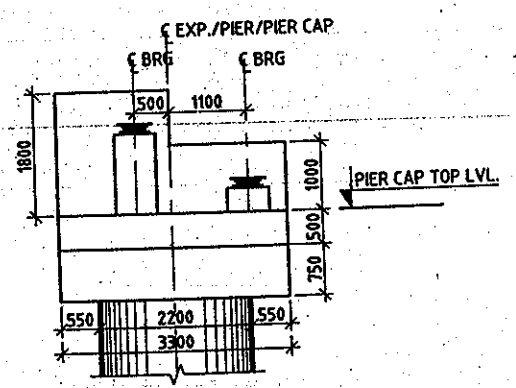
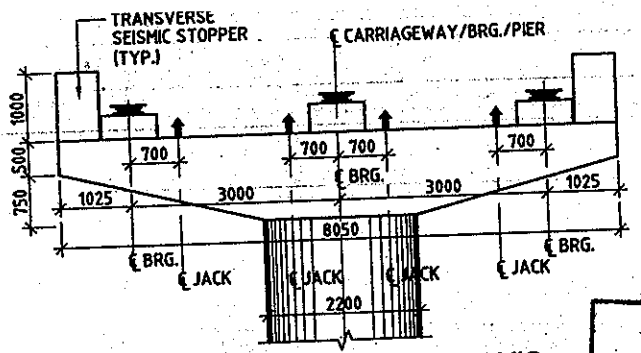
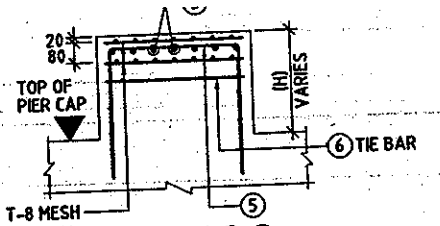


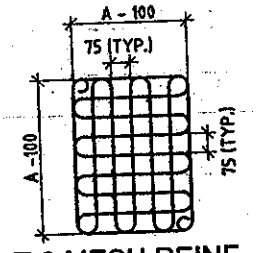
ELEVATION ALONG L-L AXIS
(SHOWING PIER DIMENSIONS)
(SCALE 1:75)



ELEVATION ALONG T-T AXIS
(SHOWING PIER DIMENSIONS)
(SCALE 1:75)



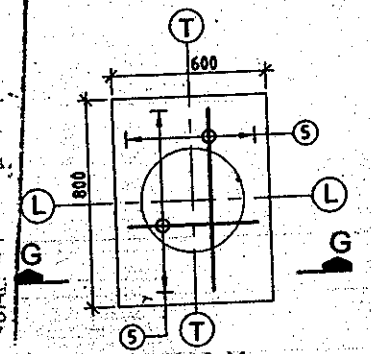
SECTION G-G
HEIGHT OF PEDESTAL (H)
(SCALE 1:20)



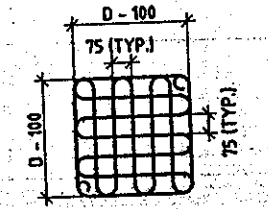
T-8 MESH REINF.
TYPE - 'A'
(UNDER BEARING)
(SCALE 1:20)

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.
2. CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC STRENGTH 150mm CUBES AS FOLLOWS:-
   PIER ---------- M35
   PIER CAP ---------- M35
3. CLEAR COVER TO OUTER MOST STEEL SHALL BE AS FOLLOWS.
   (i) FOR SUBSTRUCTURE ------- 50mm
   (ii) FOR FOUNDATION --------- 75mm
4. TMT HIGH YIELD STRENGTH DEFORMED BARS SHALL BE OF GRADE DESIGNATION Fe-415 CONFORMING TO IS:1786 SHALL ONLY BE USED.
5. MINIMUM BOND LENGTH SHALL BE 42 x DIA OF BAR.
6. MINIMUM LAP LENGTH FOR REINFORCEMENT BAR SHALL BE 72 x DIA OF BAR. LAPS SHALL BE STAGGERED AND NOT MORE THAN 50% OF BARS SHALL BE LAPPED AT ANY ONE SECTION.
7. IN PIER SHAFT T-10 OPEN LINKS (OR 'S LOOPS) WITH HOOK PLACED AROUND THE VERTICAL BARS ARE PLACED AT THE RATE OF 4 LINKS IN ONE SQUARE METER.
8. LL REPRESENTS LONGITUDINAL AXIS OF BRIDGE AND TT REPRESENTS TRANSVERSE AXIS OF BRIDGE.
9. A IS THE DIMENSIONS OF THE BEARINGS WHICH IS TO BE FURNISHED BY THE MANUFACTURER.
10. D = DIA OF JACK.

APPROVED FOR EXECUTION
ISSUED
Chief Engineer
Executive Engineer Design (IP)
Assistant Engineer (IP)
PUNJAB



PLAN
(DETAILS OF PEDESTAL)
(SCALE 1:20)



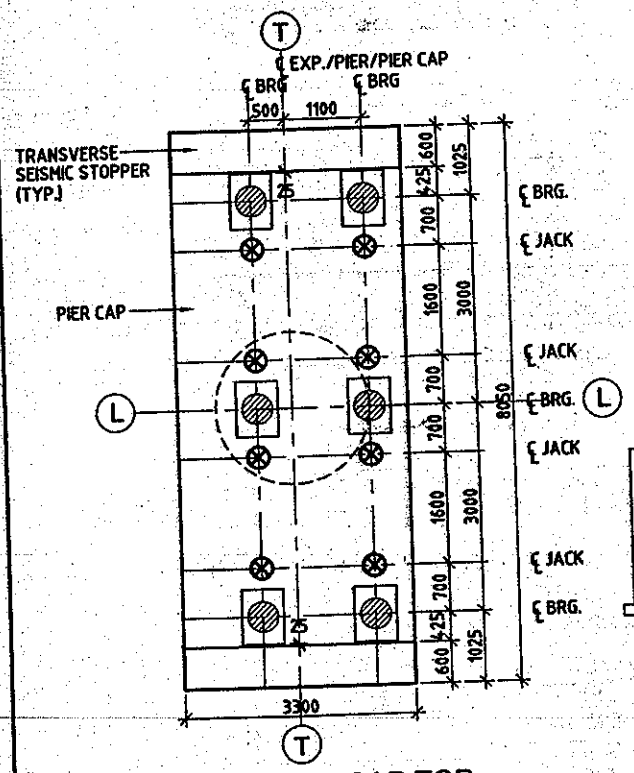
T-8 MESH REINF.
TYPE - 'B'
(UNDER JACK)
(SCALE 1:20)

REFERENCE DRAWINGS:-

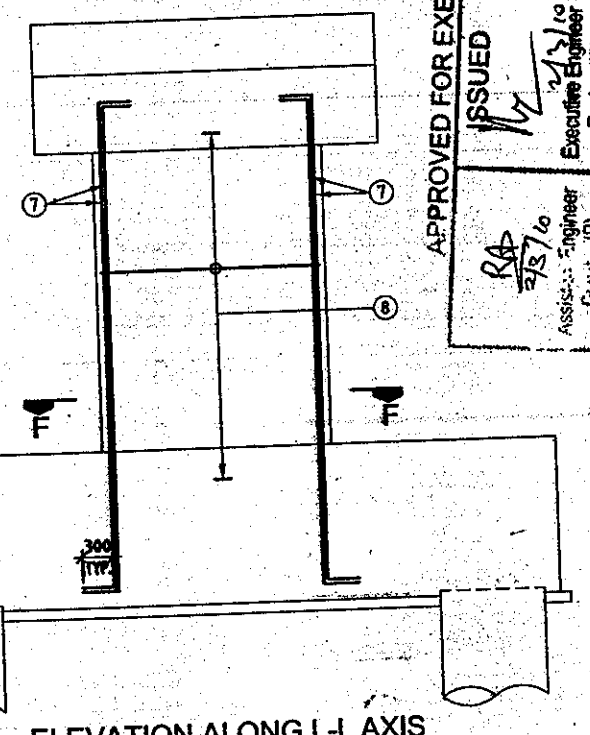
i) 1213/SMEC/LUDHIANA/21+100/G-01 (SHEET 1 OF 7 TO 7 OF 7)
ii) 1213/SMEC/LUDHIANA/21+100/E-06 (SHEET 1 OF 2)

REINFORCEMENT DETAIL:

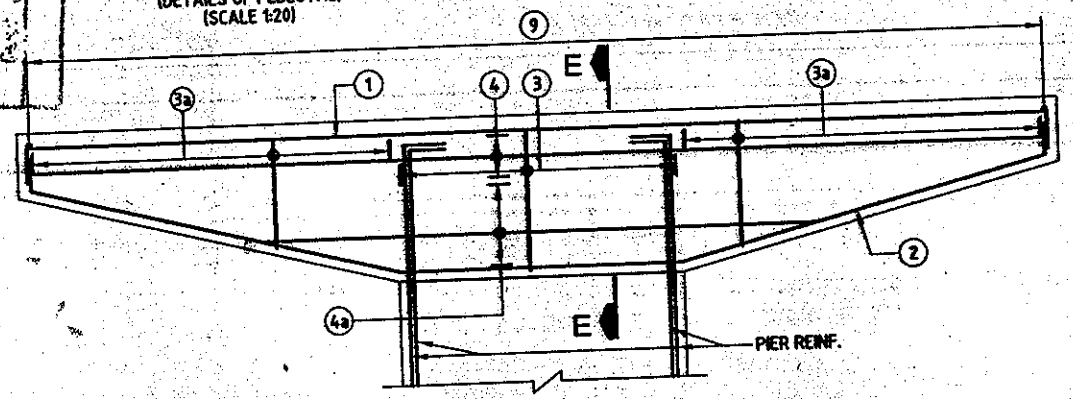
BAR MKD.	DIA (mm)	SPACING/Nos.	SHAPE
1	32	37 Nos.	
2	16	37 Nos.	
3	16	150	6 LEGGED
3a	16	75	8LEGGED
4	20	2Nos.	
4a	20	3Nos.	
5	16	75	
6	16	150	
7	32	86 Nos.(2x43)	
8	12	125	
9	25	67 Nos.	
10	16	5 LAYER	5 LEGGED



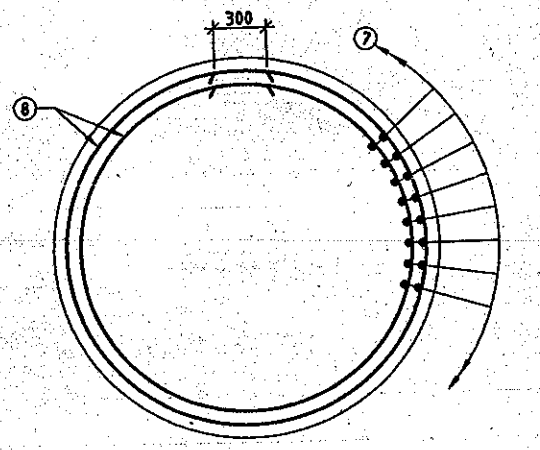
PLAN AT PIER CAP TOP
(SHOWING DIMENSIONS)
(SCALE 1:75)



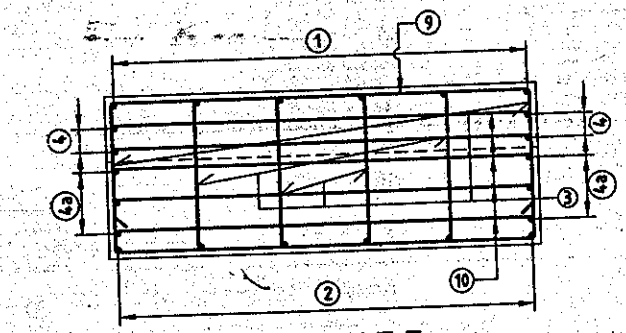
ELEVATION ALONG L-L AXIS
(SHOWING PIER REINFORCEMENT)
(SCALE 1:50)



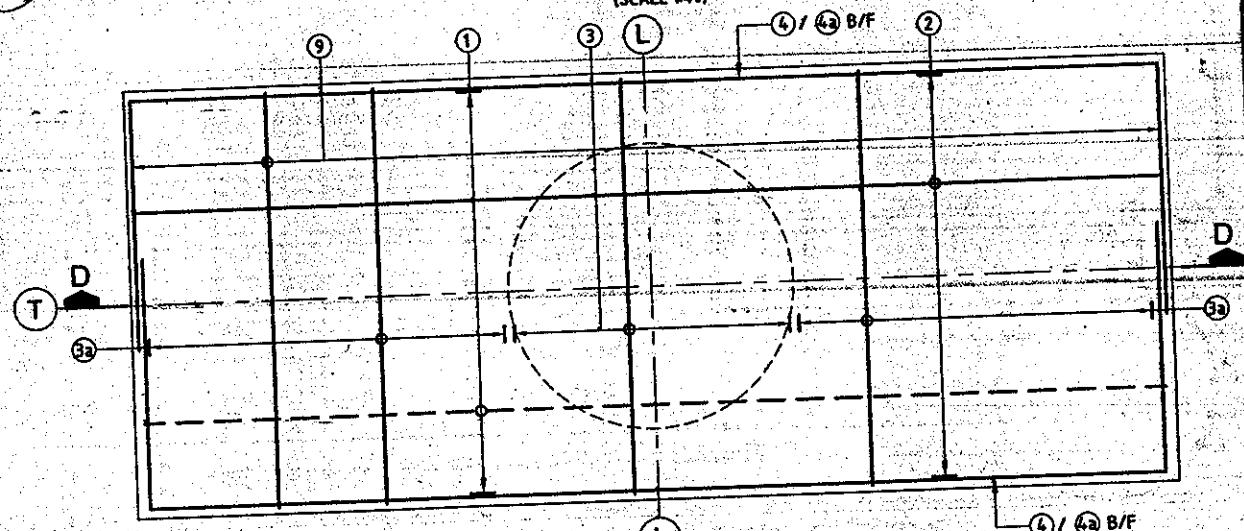
SECTION D-D
(SCALE 1:40)



SECTION F-F
(SCALE 1:30)



SECTION E-E
(SCALE 1:40)



PLAN SHOWING REINFORCEMENT IN PIER CAP
(SCALE 1:40)

LEGENDS:
BAR ON TOP FACE
BAR ON BOTTOM FACE

LEVEL CHART FOR PIER

PIER DESIGNATION	FORMATION LEVEL	PIER CAP TOP LEVEL	BED LEVEL
P9	256.950	253.705	246.858

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REV	DATE	DRAWN	DESIGN	CHECKED	APPROVED	DETAILS OF REVISION
R1	27/08/2009	MKS	VNM	VNM	S LAHIRI	REVISED AS PER PB.PWD COMMENTS
R0	26/05/2009	MKS	VNM	VNM	S LAHIRI	FIRST ISSUE

CLIENT : PIDB — PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD

CONSULTANT : SMEC INDIA — SMEC (India) Pvt. Ltd., DLF BUILDING No 8, C TOWER, 5th FLOOR, CYBER CITY, PHASE-II,GURGAON, HARYANA, INDIA -122 002, Tel : 0124-4380042, 4501100

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

SCALE: AS SHOWN
SHEET SIZE: A2

DETAILED PROJECT REPORT
DIMENSIONAL & REINFT. DETAILS OF PILE, PILE CAP, PIER & PIER CAP
(SHEET 2 OF 2)

DPR | DRW | 1213/SMEC/LUDHIANA/21+100/E-06 | R1

CAD File Ref : H:\Structure\1213\FINAL DPR\Revised Drawings R2 (Feb 10)\Bridge CH. 21+100\ROB CH.21+100 E-06.dwg