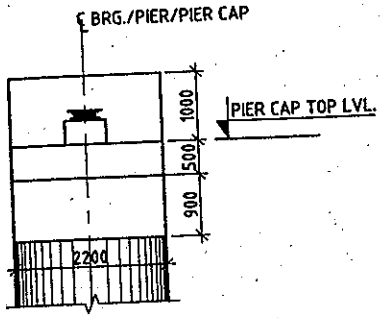
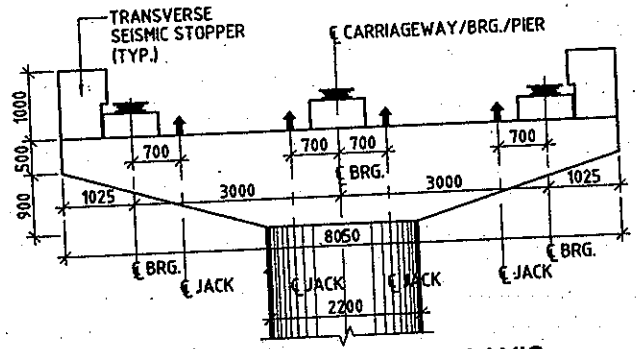
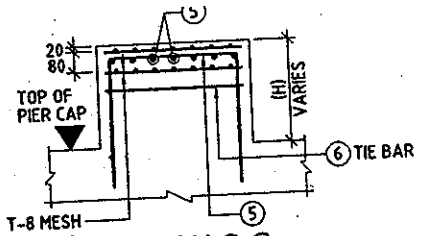


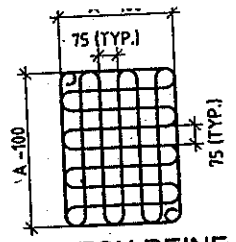
ELEVATION ALONG L-L AXIS
(SHOWING PIER DIMENSIONS)
(SCALE 1:75)



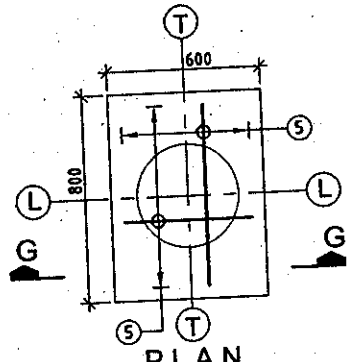
ELEVATION ALONG T-T AXIS
(SHOWING PIER DIMENSIONS)
(SCALE 1:75)



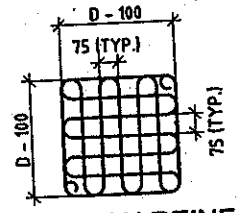
SECTION G-G
HEIGHT OF PEDESTAL (H)
(SCALE 1:20)



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



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



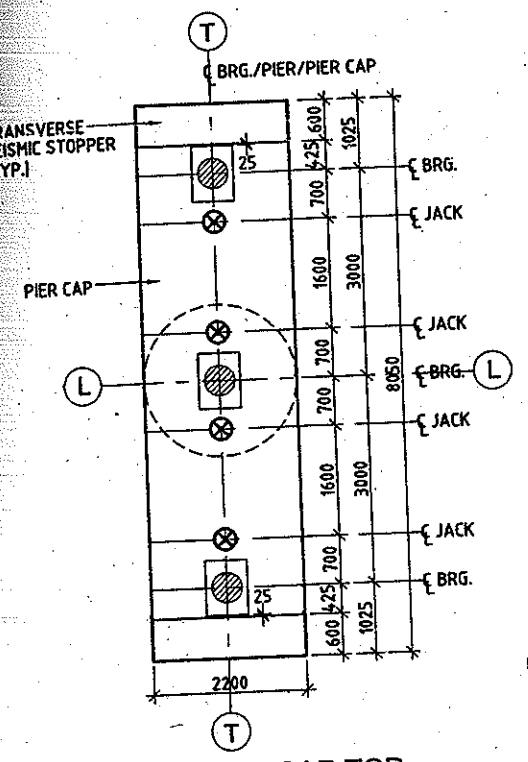
T-8 MESH REINF.
TYPE - 'B'
(UNDER JACK)
(SCALE 1:20)

NOTES:

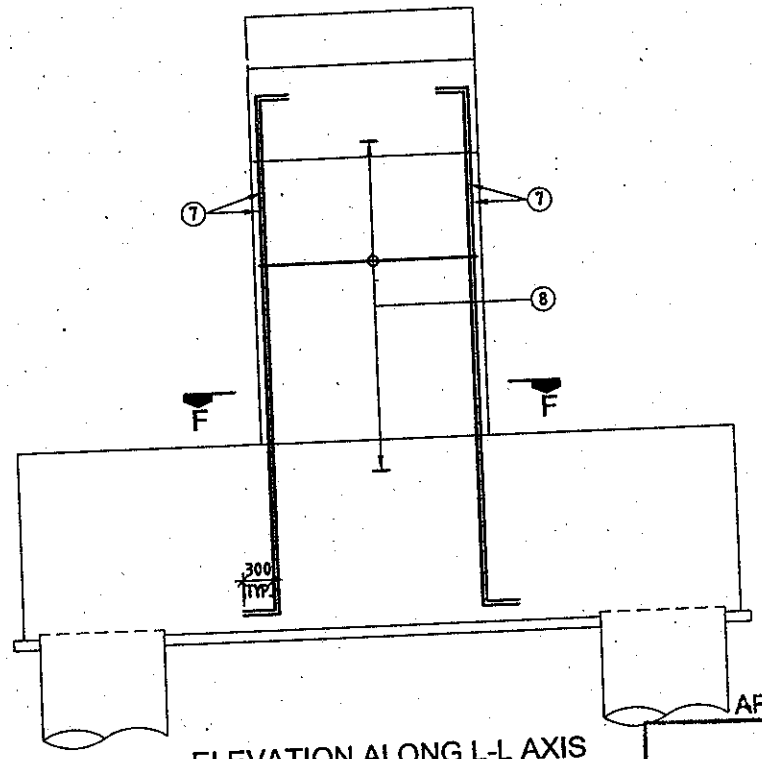
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION IS TO BE SCALED.
2. CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC STRENGTH 150mm CUBES AS FOLLOWS:-
   PIER ----------M35
   PIER CAP ----------M35
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.

REFERENCE DRAWINGS:-

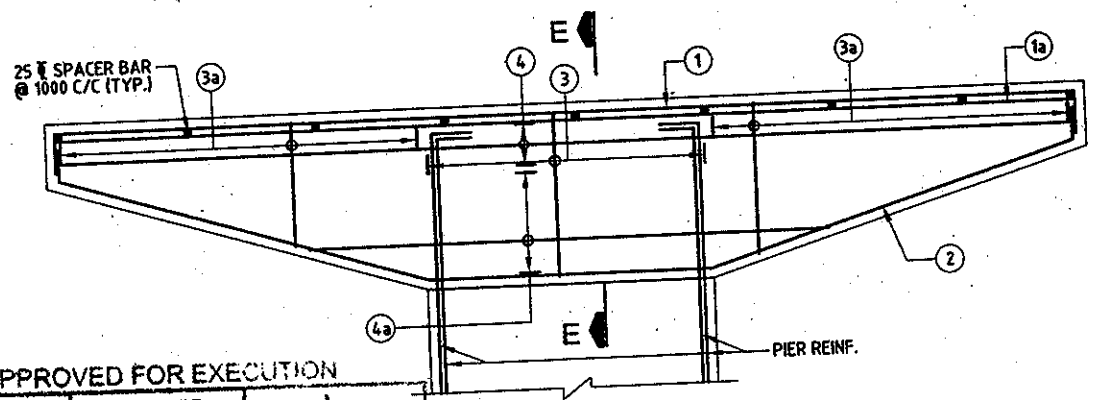
i) 1213/SMEC/LUDHIANA/24+686/G-01 (SHEET 1 OF 10 TO 10 OF 10)
ii) 1213/SMEC/LUDHIANA/24+686/E-02 (SHEET 1 OF 2)



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)

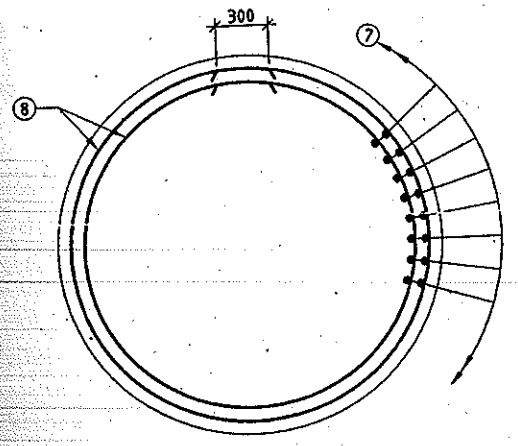
APPROVED FOR EXECUTION

Assistant Engineer Design (IP)	Executive Engineer Design (IP)	Chief Engineer (IP)
	ISSUED	

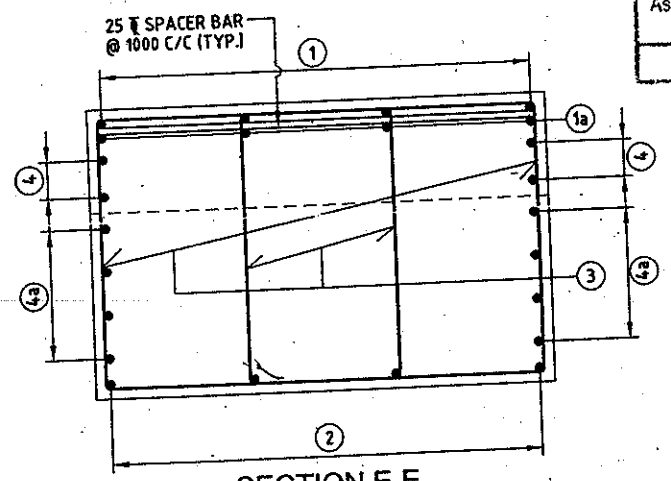
PUNJAB P.W.D. (B & R)

REINFORCEMENT DETAIL:

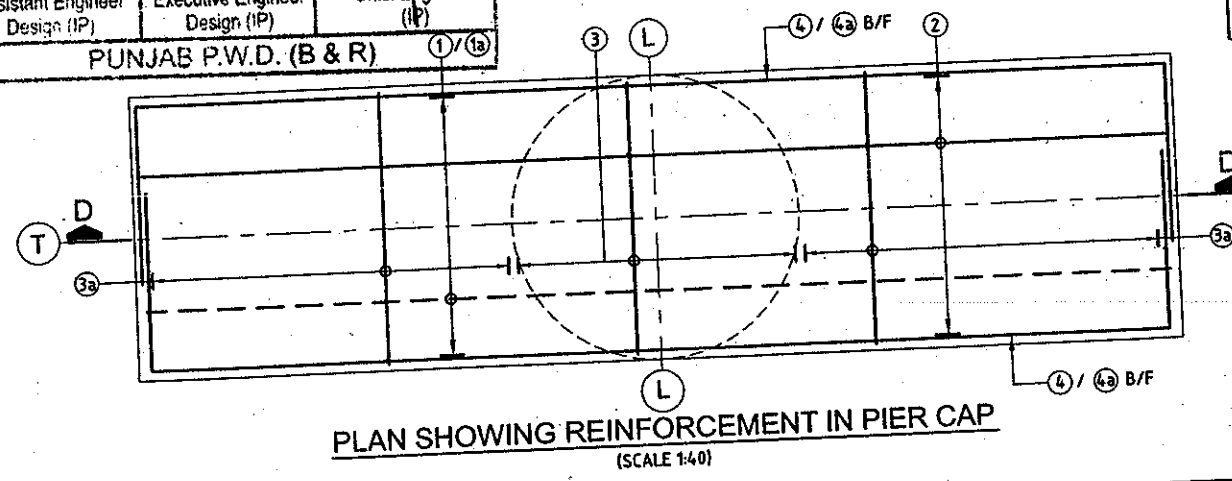
BAR MKD.	DIA (mm)	SPACING/Nos.	SHAPE
1	32	17 Nos.	
1a	32	17 Nos.	
2	16	27 Nos.	
3	16	150	
3a	16	150	¼ LEGGED
4	16	2Nos.	
4a	16	4Nos.	
5	12	75	
6	12	150	
7	32	94 Nos.(2x47)	
8	12	125	



SECTION F-F
(SCALE 1:30)



SECTION E-E
(SCALE 1:25)



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

LEGENDS:
- BAR ON TOP FACE
- BAR ON BOTTOM FACE

LEVELS CHART FOR PIER

PIER DESIGNATION	FORMATION LEVELS	PIER CAP TOP LEVELS	BED LEVELS
P1	251.177	248.762	244.418
P47	252.018	249.603	243.110
P52	250.518	248.103	243.038

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CLIENT : PIDB — PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD

CONSULTANT : 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

REV	DATE	DRAWN	DESIGN	CHECKED	APPROVED	DETAILS OF REVISION
R1	28/08/2009	MKS	VNM	VNM	S LAHIRI	REVISED AS PER PB.PWD COMMENTS
R0	28/05/2009	MKS	VNM	VNM	S LAHIRI	FIRST ISSUE

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/24+686/E-02 | R1

CAD File Ref: H:\Structure\1213\FINAL DPR\Revised Drawings R2 (Feb 10)\Bridge CH. 24+685\ELEVATED CH.24+686 E-02.dwg