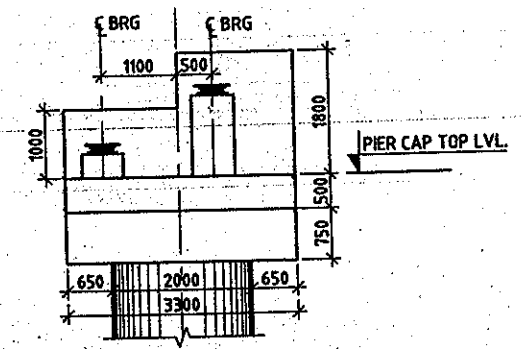
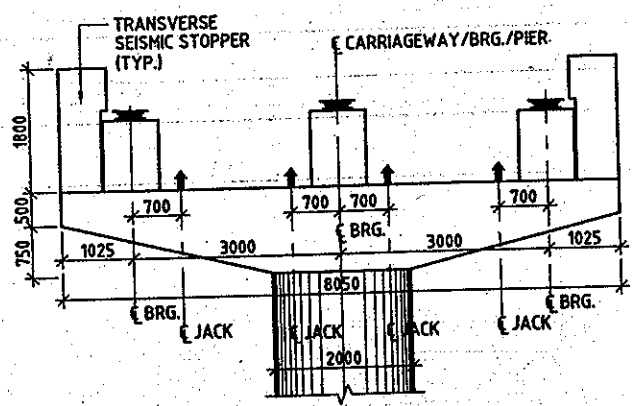
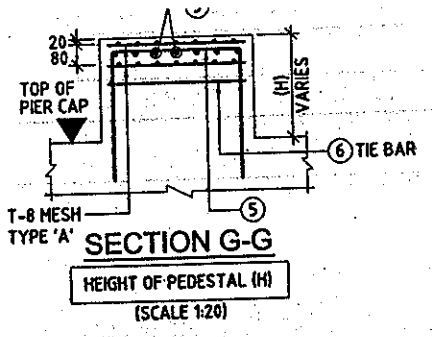


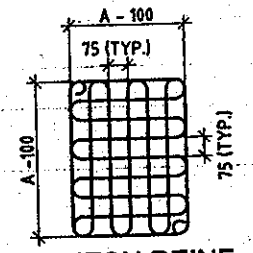

ELEVATION ALONG L-L AXIS
(SHOWING PIER DIMENSIONS)
(SCALE 1:75)



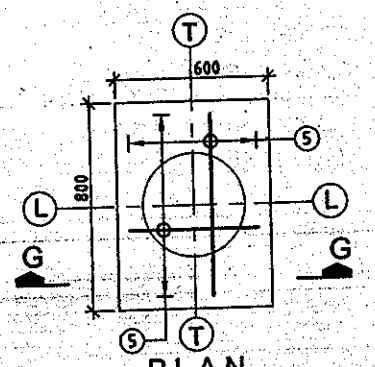

ELEVATION ALONG T-T AXIS
(SHOWING PIER DIMENSIONS)
(SCALE 1:75)



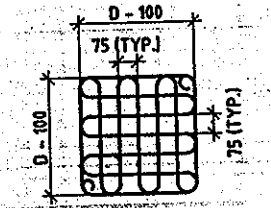

SECTION G-G
HEIGHT OF PEDESTAL (H)
(SCALE 1:20)




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:

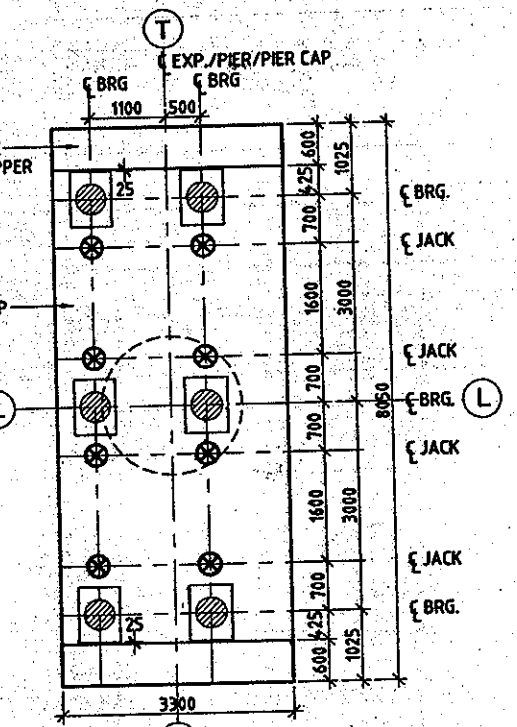
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION IS TO BE SCALED.
2. CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC STRENGTH 150mm CUBES AS FOLLOWS:-
   PIER ----------M35
   PIER CAP ----------M35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

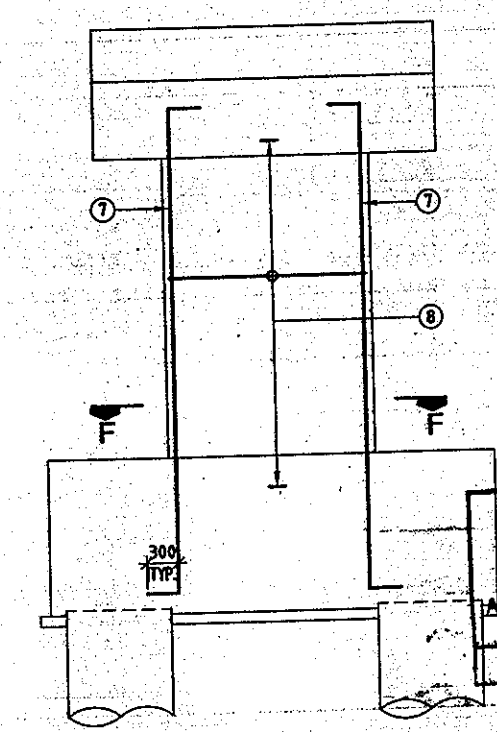
i) 1213/SMEC/LUDHIANA/21+100/G-01 (SHEET 1 OF 7 TO 7 OF 7)
ii) 1213/SMEC/LUDHIANA/21+100/E-07 (SHEET 1 OF 2)

REINFORCEMENT DETAIL:

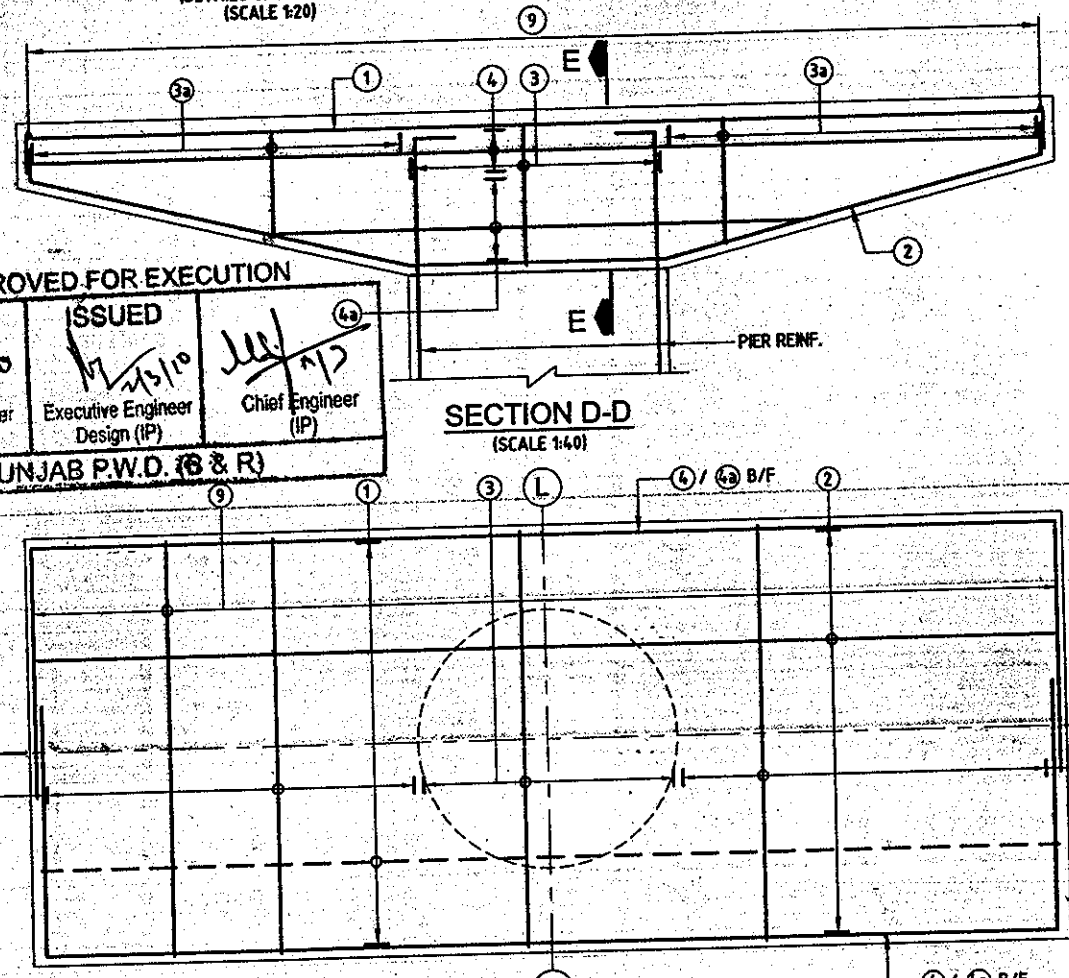
| BAR MKD. | DIA (mm) | SPACING/Nos. | SHAPE |
|---|---|---|---|
| 1 | 32 | 37 Nos. | |
| 2 | 16 | 37 Nos. | |
| 3 | 16 | 150 | 6 LEGGED |
| 3a | 16 | 75 | 6 LEGGED |
| 4 | 20 | 2Nos. | |
| 4a | 20 | 3Nos. | |
| 5 | 16 | 75 | |
| 6 | 16 | 150 | |
| 7 | 32 | 60 Nos. | |
| 8 | 12 | 125 | |
| 9 | 25 | 67 Nos. | |
| 10 | 16 | 5 LAYER | 5 LEGGED |




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

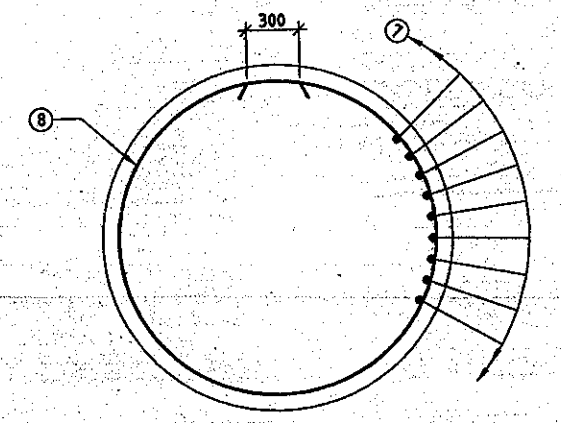



ELEVATION ALONG L-L AXIS
(SHOWING PIER REINFORCEMENT)
(SCALE 1:50)

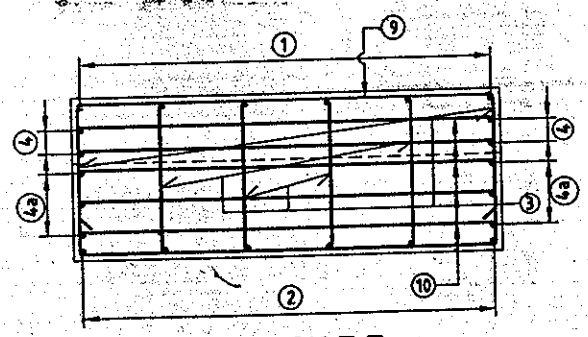



SECTION D-D
(SCALE 1:40)

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




SECTION F-F
(SCALE 1:30)




SECTION E-E
(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 |
|---|---|---|---|
| P10 | 256.950 | 253.705 | 246.924 |

APPROVED FOR EXECUTION

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

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

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CLIENT : PIDB — PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD

CONSULTANT : SMEC — SMEC (India) Pvt. Ltd. DLF BUILDING No.9, C TOWER, 5th FLOOR, CYBER CITY, PHASE-II,GURGAON, HARYANA, INDIA -122 002 Tel : 0124-4360042, 4501100

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

| REV | DATE | DRAWN | DESIGN | CHECKED | APPROVED | DETAILS OF REVISION |
|---|---|---|---|---|---|---|
| R0 | 27/05/2009 | 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/21+100/E-07 | R0

CAD File Ref: H:\Structure\1213\FINAL DPR\Revised Drawings R2 (Feb 10)\Bridge CH. 21+100\ROB CH.21+100 E-07.dwg