

NOTES:-

- 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 150mm CUBES AS FOLLOWS:-
PIER CAP -----M35
PIER -----M35
CLEAR COVER TO OUTER MOST STEEL SHALL BE AS FOLLOWS.
(i) FOR SUBSTRUCTURE ----- 50mm
(ii) FOR FOUNDATION ----- 75mm.
- TMT HIGH YIELD STRENGTH DEFORMED BARS SHALL BE OF GRADE DESIGNATION Fe-415 CONFORMING TO IS:1786 SHALL ONLY BE USED.
- MINIMUM BOND 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.
- 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.
- LL REPRESENTS LONGITUDINAL AXIS OF BRIDGE AND TT REPRESENTS TRANSVERSE AXIS OF BRIDGE.
- A IS THE DIMENSIONS OF THE BEARINGS WHICH IS TO BE FURNISHED BY THE MANUFACTURER.
- D = DIA OF JACK.

REFERENCE DRAWINGS:-

- 1213/SMEC/LUDHIANA/21-100/G-01 (SHEET 1 OF 7 OF 7)
- 1213/SMEC/LUDHIANA/21-100/E-08 (SHEET 1 OF 2)

REINFORCEMENT DETAIL

BAR NO.	DIA (mm)	SPACING/Nos.	SHAPE
1	32	17 Nos.	[Diagram]
2	32	17 Nos.	[Diagram]
3	16	27 Nos.	[Diagram]
3a	16	150	[Diagram]
4	12	2Nos.	[Diagram]
4a	12	4Nos.	[Diagram]
5	12	75	[Diagram]
6	12	150	[Diagram]
7	32	128 Nos.(2x64)	[Diagram]
8	12	125	[Diagram]

LEGENDS:
 BAR ON TOP FACE
 BAR ON BOTTOM FACE

LEVEL CHART FOR PIER

PIER DESIGNATION	FORMATION LEVEL	PIER CAP TOP LEVEL	BED LEVEL
P14	254.750	252.335	246.566

DETAILED PROJECT REPORT DIMENSIONAL & REINFT. DETAILS OF PILE, PIER CAP, PIER & PIER CAP

SCALE: AS SHOWN
 SHEET SIZE: A2
 PROJECT TITLE: PREPARATION OF DETAILED PROJECT REPORT FOR UPGRADATION OF SOUTHERN BYE-PASS LUDHIANA
 CLIENT: PUNJAB INFRASTRUCTURE DEVELOPMENT BOARD
 CONSULTANT: SMEC (India) Pvt. Ltd.
 PROJECT NO: 21-100/G-01
 SHEET NO: 1213/SMEC/LUDHIANA/21-100/E-08
 SHEET 2 OF 2

REV	DATE	DESIGN	CHECKED	APPROVED	DETAILS OF REVISION
R1	27/08/2008	MKS	VNM	S L AHRI	REVISED AS PER P3/PWD COMMENTS
R0	27/05/2008	MKS	VNM	S L AHRI	FIRST ISSUE

APPROVED FOR EXECUTION
 ISSUED
 Assistant Engineer Design (IP)
 Executive Engineer Design (IP)
 Chief Engineer Design (IP)
 PINJAB P.W.D. (B & R)

