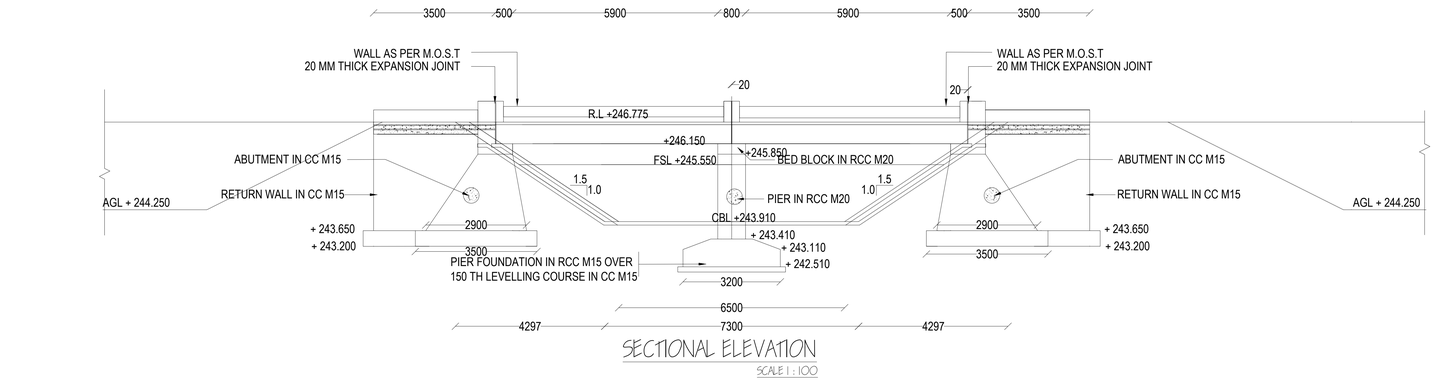
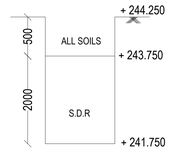
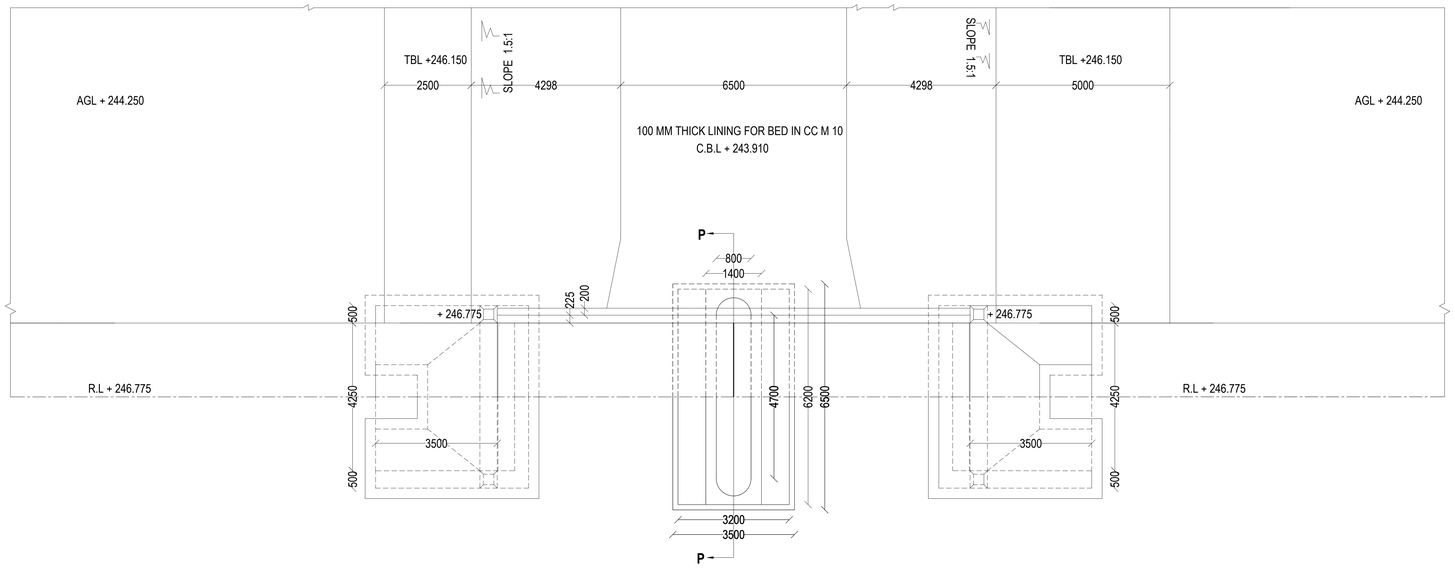


SECTIONAL ELEVATION

SCALE 1 : 100

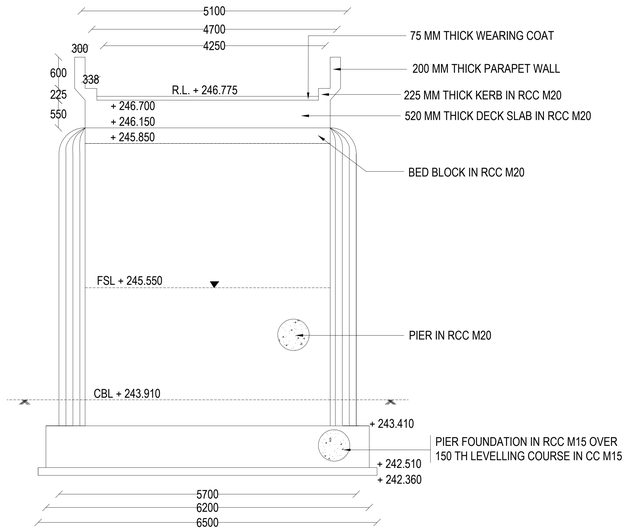


TRAIL PIT PARTICULARS @ KM 10.987



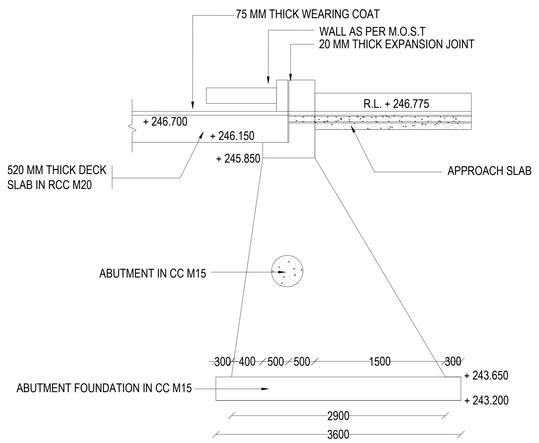
HALF PLAN AT TOP AND HALF PLAN AT BOTTOM

SCALE 1 : 100



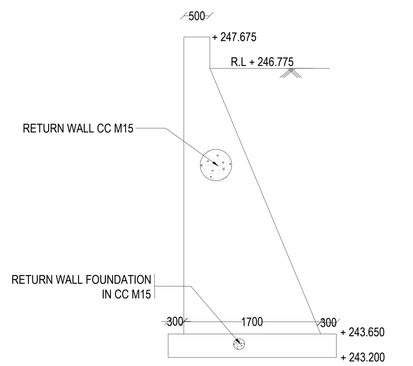
SECTIONAL ELEVATION AT ' PP '

SCALE 1 : 50



SECTION OF ABUTMENT

SCALE 1 : 50



SECTION OF RETURN

SCALE 1 : 50

NOTES AND SPECIFICATIONS

1/3

1. ALL THE DIMENSIONS ARE IN MILLMETRES AND THE LEVELS ARE IN METRES.
2. DO NOT SCALE THE DRAWING. ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. THE SINGLE LANE ROAD BRIDGE IS DESIGNED FOR A CARRIAGE WAY WIDTH OF 4.25M AND FOR ONE LANE OF IRC CLASS 'A' LOADING.
4. THE BRIDGE IS DESIGNED ADOPTING THE FOLLOWING IRC AND IS CODES.
   - i. IRC - 5 - 1998
   - ii. IRC - 6 - 2000
   - iii. IRC - 21 - 2000
   - iv. IRC - 78 - 2000
   - v. IRC - 83 - 2000
   - vi. IS 456 - 2000
   - vii. IS 383
5. THE SPECIFICATIONS PROPOSED FOR THE VARIOUS COMPONENTS OF THE STRUCTURE ARE AS FOLLOWS:

Sl.No	DETAILS OF COMPONENTS	GRADE OF CONCRETE AS PER IRC: 6-2000	MAX. SIZE OF C.A AS PER IS:383
1	WEARING COAT OF SLAB	CC M30	20 MM
2	DECK SLAB	RCC M20	20 MM
3	BED BLOCK OVER ABUTMENT	RCC M20	20 MM
4	BEDBLOCK OVER PIER	RCC M20	20 MM
5	PIER	RCC M20	20 MM
6	ABUTMENT AND RETURN	CC M15	20 MM
7	PIER FOUNDATION	RCC M25	20 MM
8	ABUTMENT & RETURN FOUNDATION	CC M15	20 MM
9	APPROACH SLAB	CC M30	20 MM
10	LEVELLING COURSE FOR PIER	CC M15	20 MM
11	LINING FOR CANAL	CC M15	20 MM

HYDRAULIC PARTICULARS

S.NO	DESCRIPTION OF ITEMS	QUANTITY & UNITS
1	DISCHARGE REQUIRED	9.068 CUMECS
2	DISCHARGE DESIGNED	9.135 CUMECS
3	BED WIDTH	6.50 M
4	FULL SUPPLY DEPTH	1.64 M
5	VELOCITY	0.622 M/SEC
6	BED FALL	1 / 10000
7	SIDE SLOPES (HDR/ SOILS)	1.5 : 1
8	COEFFICIENT OF RUGOSITY	0.018
9	CANAL BED LEVEL	+ 243.910 M
10	FULL SUPPLY LEVEL	+ 245.550 M
11	TOP OF BANK LEVEL	+ 246.150 M
12	EXSISTING ROAD LEVEL	+ 244.250 M
13	PROPOSED ROAD LEVEL	+ 246.775 M
14	SKEW ANGLE	0 °

STRESS TABLE

S.NO	DESCRIPTION OF ITEMS	STRESSES IN T / SQ.M			
		IN CONCRETE		ON SOIL	
		MAX.	MIN.	MAX.	MIN.
1	PIER	97.15	(-) 45.66	13.03	1.07
2	ABUTMENT	24.97	(-) 4.30	20.15	0.47
3	RETURN	22.89	(-) 2.95	16.80	1.92

REFERENCE DRAWINGS

1. DRAWING NO. GLIP/FC/SLRB-10.775/002/2009 - RCC DETAILS OF DECK SLAB, KERB AND BED BLOCK
2. DRAWING NO. GLIP/FC/SLRB-10.775/003/2009- RCC DETAILS OF PIER, PIER FOOTING AND ABUTMENT

Approved By

Sd/ - Dated:10.08.2009

Superintending Engineer
GNSS Circle,Kadapa

Assistant Executive Engineer
GNSS Circle,Kadapa

REVISION NO:	DRAWN	CHECKED	APPROVED	DATE

CLIENT	GOVERNMENT OF ANDHRA PRADESH IRRIGATION & CAD DEPARTMENT
PROJECT	GANIDIKOTA LIFT IRRIGATION PROJECT FEEDER CANAL
TITLE	SINGLE LANE ROAD BRIDGE AT KM. 10.987 GENERAL PLAN AND SECTIONS
CONTRACTORS	IVRCL - KBL (JV) HYDERABAD

DRAWING NO:	SCALE	DATE
GLIP/FC/SLRB-10.775/001/2009	AS INDICATED	