

NOTES AND SPECIFICATIONS

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. DO NOT SCALE THE DRAWING. ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. THE DOUBLE LANE ROAD BRIDGE IS DESIGNED FOR A CARRIAGE WAY WIDTH OF 7.5M. AND FOR ONE LANE OF IRC CLASS 'AA' LOADING OR TWO LANES OD '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.

S.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 M25	20 MM
3	BED BLOCK OVER ABUTMENT	RCC M20	20 MM
4	ABUTMENT,RETURN	CC M15	20 MM
5	ABUTMENT,RETURN FOUNDATION	CC M15	20 MM
6	APPROACH SLAB	RCC M20	20 MM
7	LINING FOR CANAL	CC M15	20 MM

HYDRAULIC PARTICULARS

S.NO	DESCRIPTION OF ITEMS	QUANTITY & UNITS
1	DISCHARGE REQUIRED	3.746 CUM ECS
2	DISCHARGE DESIGNED	3.792 CUM ECS
3	BED WIDTH	4.20 M
4	FULL SUPPLY DEPTH	1.050 M
5	VELOCITY	0.625 M/SEC
6	BED FALL	1 / 3500
7	SIDE SLOPES (HDR/ SOILS)	1.5 : 1
8	COEFFICIENT OF RUGOSITY	0.0225
9	CANAL BED LEVEL	+ 240.333 M
10	FULL SUPPLY LEVEL	+ 241.383 M
11	TOP OF BANK LEVEL	+ 241.983 M
12	EXSISTING ROAD LEVEL	+ 241.670 M
13	PROPOSED ROAD LEVEL	+ 242.808M
14	SKEW ANGLE	0 °
15	Free Board	0.600 m
16	Top Width of Banks	4.5/2.5

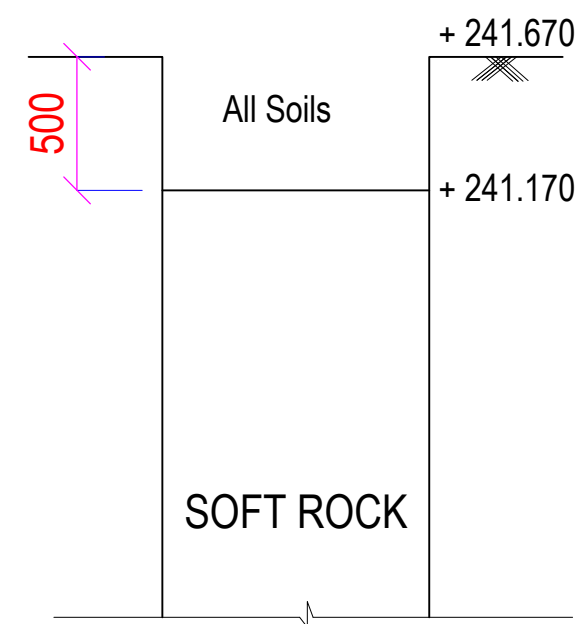
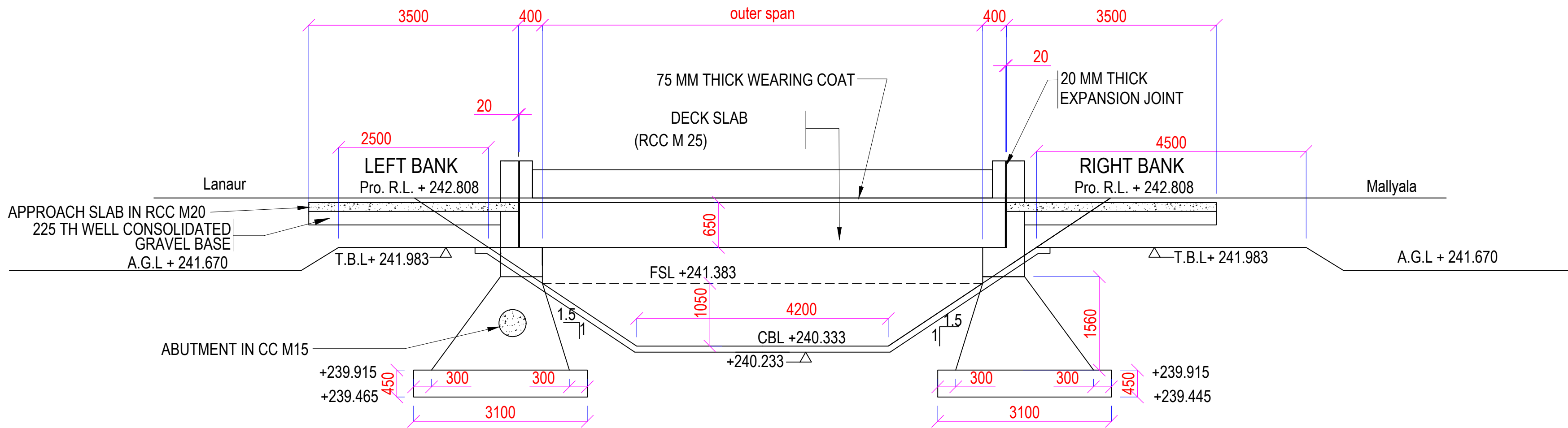
STRESS TABLE

S.NO	DESCRIPTION OF ITEMS	STRESSES IN T / SQ.M			
		IN CONCRETE		ON SOIL	
		MAX.	MIN.	MAX.	MIN.
1	ABUTMENT	26.42	(-)3.526	21.634	0.398
2	RETURN WALL	20.555	(-) 4.853	14.918	0.655

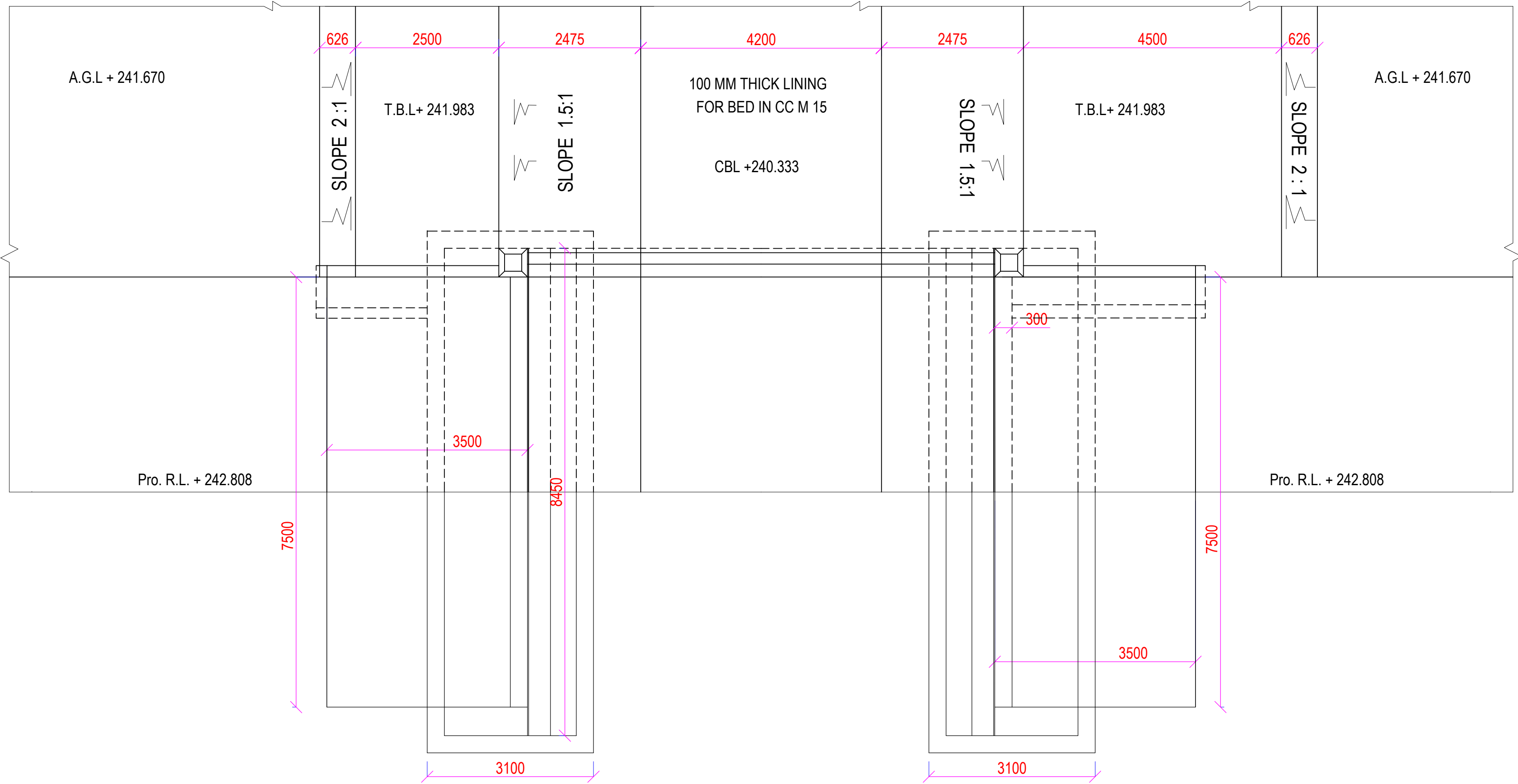
REFERENCE DRAWINGS

1. DRAWING NO. PET/DLB/002/2009 - RCC DETAILS OF PIER, PIER FOOTING AND ABUTMENT

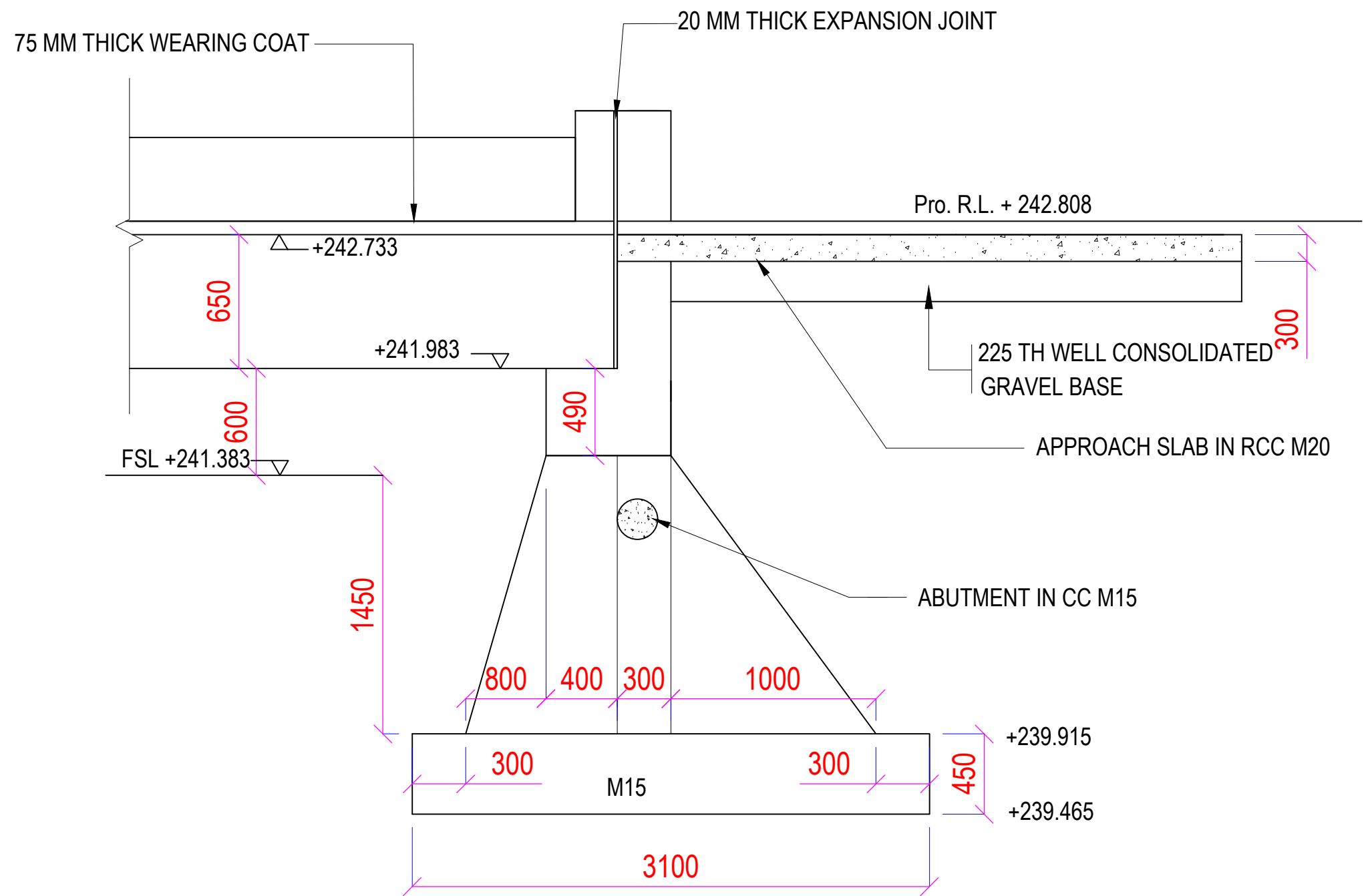
REVISION NO:	DRAWN	CHECKED	APPROVED	DATE
CLIENT	GOVERNMENT OF ANDHRA PRADESH IRRIGATION & CAD DEPARTMENT			
PROJECT	GANDIKOTA LIFT IRRIGATION SCHEME SANTHAKOVUR DISTRIBUTORY			
TITLE	DOUBLE LANE ROAD BRIDGE AT KM. 12.965 GENERAL PLAN AND SECTIONS			
CONTRACTORS	M/S KBL - MCCL (JV) PUNE			
CONSULTANTS	PADMA ENGINEERING TEAM 3A, JAIN AASHRITA, 274, 3RT, S.R.NAGAR, HYDERABAD - 38			
DRAWING NO:	SHEET No	SCALE	DATE	
PET/DLB/001/2009	1 OF 2	AS INDICATED	09/08/2009	



TRAIL PIT PARTICULARS @ KM 12.965



HALF PLAN AT TOP AND HALF PLAN AT BOTTOM
SCALE 1 : 100



SECTION OF ABUTMENT
SCALE 1 : 50

ASST.EXECUTIVE ENGINEER
GNSS CIRCLE,KADAPA

SD/- DATED:17.11.2009
SUPERINTENDING ENGINEER
GNSS CIRCLE,KADAPA