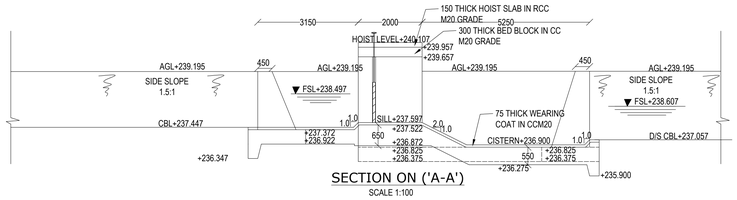
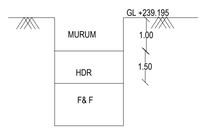
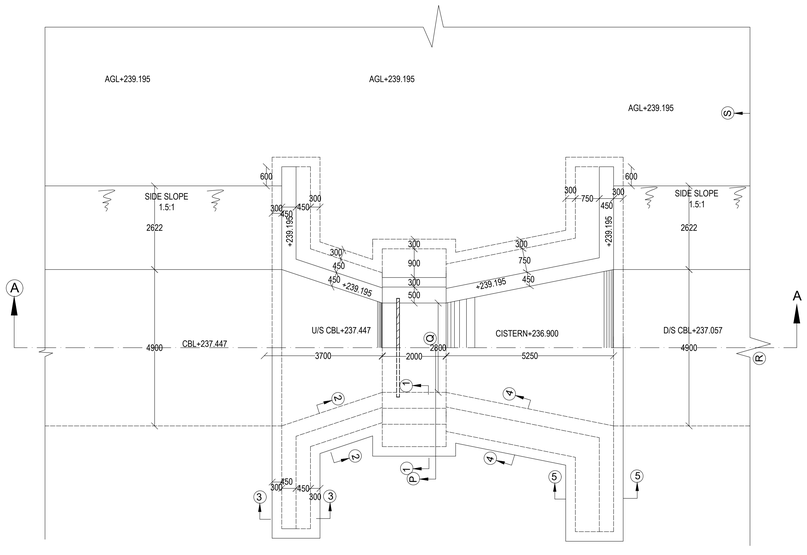


SECTION ON ('A-A')

SCALE 1:100

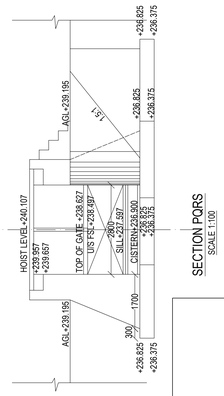


TRIAL PIT PARTICULARS



HALF PLAN AT TOP AND HALF AT BOTTOM

SCALE 1:100



SECTION PQRS

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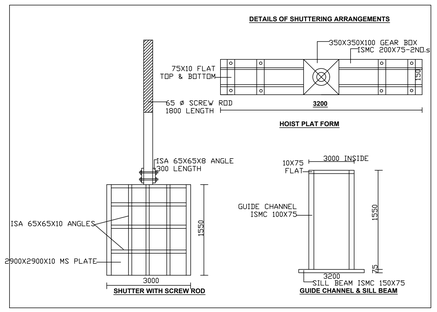
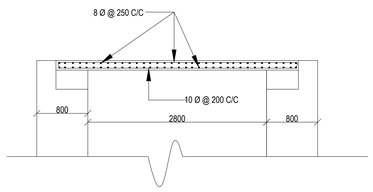
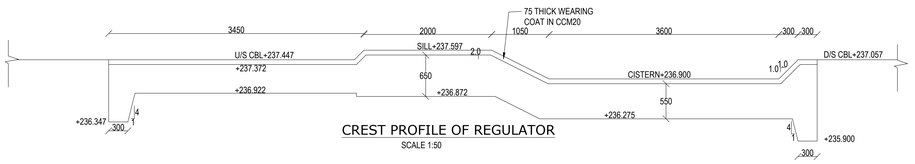




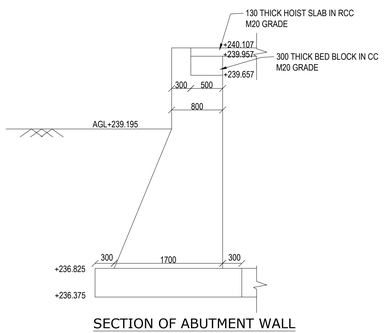
REINFORCEMENT DETAILS OF HOIST SLAB

SCALE 1:50



CREST PROFILE OF REGULATOR

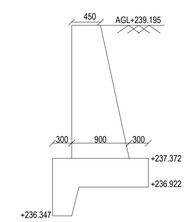
SCALE 1:50



SECTION OF ABUTMENT WALL

SECTION '1-1'

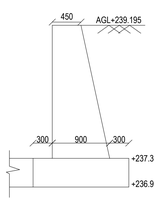
SCALE 1:50



SECTION OF RETURN WALL

SECTION '3-3'

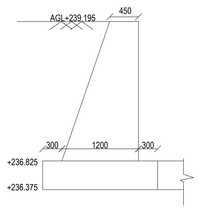
SCALE 1:50



SECTION OF WING WALL

SECTION '2-2'

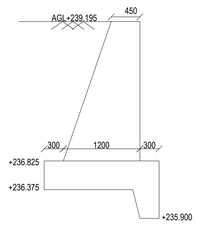
SCALE 1:50



SECTION OF WING WALL

SECTION '4-4'

SCALE 1:50



SECTION OF RETURN WALL

SECTION '5-5'

SCALE 1:50

NOTES & SPECIFICATIONS :

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES. FOLLOW FIGURED DIMENSIONS AND DO NOT SCALE THE DRAWING.
2. UPSTREAM APRON, CREST & CISTERN SHALL BE IN CC M15 CONCRETE WITH 40 MM MAXIMUM SIZE GRADED COARSE AGGREGATE.
3. 75 THICK WEARING COAT SHALL BE LAID IN CC M20 GRADE WITH 20 MSA OVER U/S APRON, CREST AND CISTERN FLOOR CONCRETE.
4. HAND RAILING FOR HOIST PLATFORM SHALL BE OF ANY APPROVED TYPE.
5. THE ABUTMENTS, WINGS, RETURNS AND THEIR FOUNDATIONS SHALL BE IN CC M15 GRADE CONCRETE WITH 40 MSA.
6. BACK FILLING SHALL BE WITH SELECTED SOILS WITH 'Ø' VALUE NOT LESS THAN 28 AND PERMEABILITY VALUE NOT MORE THAN 3M/YEAR. BACK FILLING SHALL BE DONE SIMULTANEOUSLY WITH THE RISING OF THE WALLS.
7. WEEP HOLES OF 50MM DIA. WITH REVERSE FILTERS ON THE SIDES SHALL BE PROVIDED AT 1500 MM C/C BOTH WAYS IN STAGGRED PATTERN IN WING & RETURN ABOVE FSL AS PER CL. 714.3 AND APPENDIX 6 OF IRC 78- 1983.
8. 12 MM THICK EXPANSION JOINT FILLED WITH MASTIC FILLER SHALL BE PROVIDED IN JOINTS.
9. ALL THE AGGREGATES SHALL CONFORM TO IS: 383.
10. GENERAL WORKING AND WORKMANSHIP SHALL CONFORM TO RELEVANT IS CODES.
11. LADDER OR STEPS SHALL BE PROVIDED TO HAVE ACCESS TO THE HOIST PLATFORM TO OPERATE THE REGULATOR GATE.
12. CONCRETING AT GATE GROOVES, HOIST PLATFORM SHALL BE DONE AFTER PLACING EM PARTS.
13. IF THE FOUNDATION STRATA MET WITH DURING EXECUTION IS NOT CAPABLE OF TAKING THE DESIGNED STRESESS THE SECTIONS HAVE TO BE SUITABLY MODIFIED.
14. THE INFALL REGULATOR IS DESIGNED ADOPTING THE FOLLOWING IS CODES.
    - i) IS 383 - 1989
    - iii) IS 3370-1965
    - iii) IS 456-2000
    - iv) IS 4997-1995
    - v) IS 7114-1973

S.NO.	PARTICULARS	GRADE OF CEMENT CONCRETE AS PER IS:456-2000	MAX SIZE OF GRADED COARSE AGGREGATE AS PER IS:383-1999.
a	ABUTMENTS, WINGS & RETURNS AND THEIR FOUNDATION CONCRETE U/S APRON, CREST, CISTERN CUT-OFF CONCRETE.	CC M15 GRADE	40 MM
b	WEARING COAT OVER U/S APRON CREST AND CISTERN	CC M20 GRADE	20 MM

HYDRAUKIC PARTICULARS:

S.NO	DESCRIPTION OF ITEMS	MAIN CANAL @ KM.16.602 (U/S)	MAIN CANAL @ KM.16.602 (D/S)
1	DISCHARGE REQUIRED	3.670 CUMECS	3.670 CUMECS
2	DISCHARGE DESIGNED	3.704 CUMECS	3.704 CUMECS
3	BED WIDTH	4.90 M	4.90 M
4	FULL SUPPLY DEPTH	1.05 M	1.05 M
5	VELOCITY	0.584 M/SEC	0.584 M/SEC
6	BED FALL	1 / 4800	1 / 4800
7	SIDE SLOPES	1.5 : 1	1.5 : 1
8	COEFFICIENT OF RUGOSITY	0.025	0.025
9	FREE BOARD	0.50 M	0.50 M
10	BED LEVEL	+ 237.447 M	+ 237.057 M
11	FULL SUPPLY LEVEL	+ 238.497 M	+ 238.107 M
12	TOP BUND LEVEL	+ 238.997 M	+ 238.607 M
13	AVE. GROUND LEVEL	+ 239.195 M	+ 239.195 M

STRESS TABLE

S.NO	DESCRIPTION	STRESSES IN T / SQ.M			
		IN CONCRETE		ON SOIL	
		MAX.	MIN.	MAX.	MIN.
1	ABUTMENT	14.05	-0.09	11.56	2.48
2	U/S WING & RETURN WALL	9.871	-0.78	6.245	3.104
3	D/S WING & RETURN WALL	12.46	-0.75	8.445	3.394

REVISION NO:	DRAWN	CHECKED	APPROVED	DATE
GOVERNMENT OF ANDHRA PRADESH IRRIGATION & CAD DEPARTMENT				
PROJECT NAME	GANDIKOTA LIFT IRRIGATION SCHEME SANTHAKOVURU DISTRIBUTORY			
COMPANY NAME	M/S KBL - MCCL (JV)			
DETAILS OF STRUCTURE	OUTFALL REGULATOR AT KM.16.602			
	DRAWING NO:		SCALE	DATE
			AS INDICATED	