

10Ø @ 200 C/C (A)-

**—250**—

-10 Ø @ 250 C/C (A)

+233.953

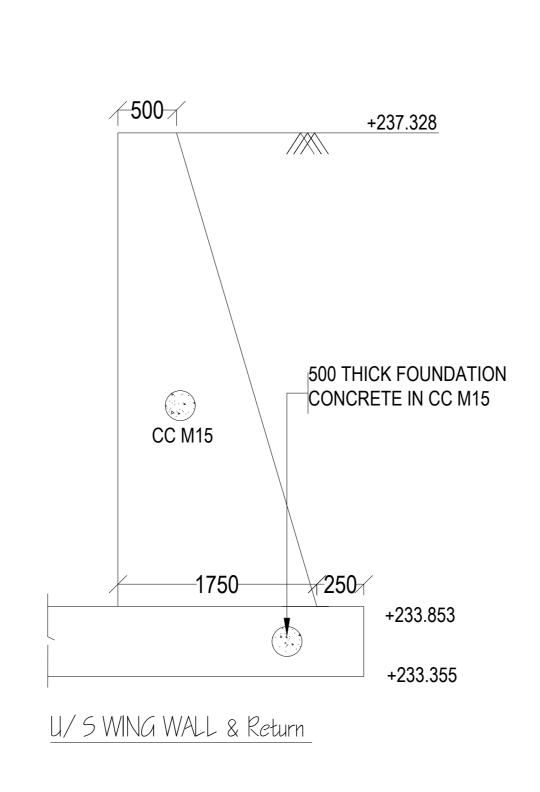
**DROP WALL** 

-10 Ø @ 200 C/C (A)

\_2300\_

R.C.C.DETAILS OF BOX UNDER CANAL TROUGH ( I VENT OF 2.30 M X 1.50 M)

+234.900



250 THICK BARREL TOP

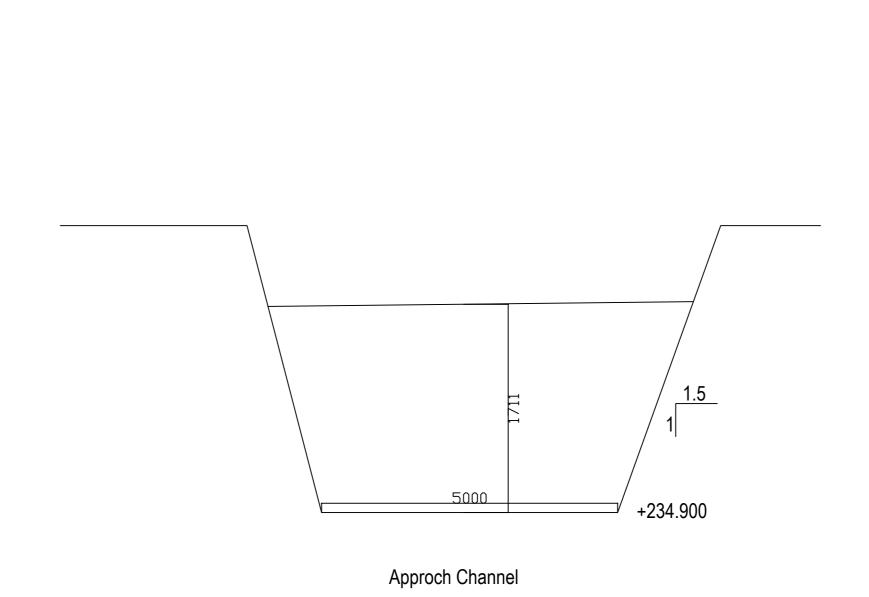
SLAB IN RCC M 20

+237.328

+235.703

CC M15

U/SHEAD WALL



**√500**√

CC M15

CC M15

<del>---</del>1750--

250 THICK BARREL TOP

SLAB IN RCC M 20

D/SHEAD WALL

500 THICK FOUNDATION

+233.353

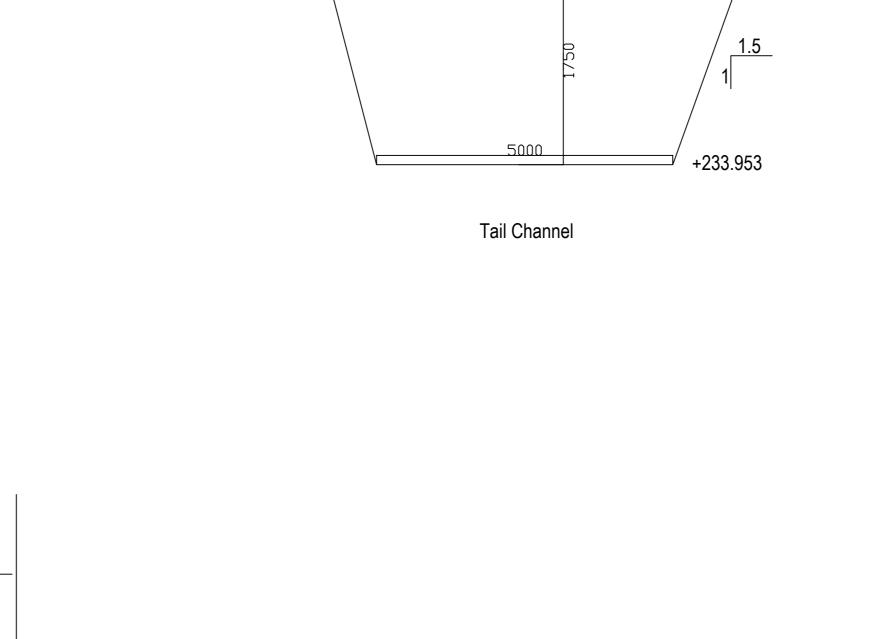
**250** 

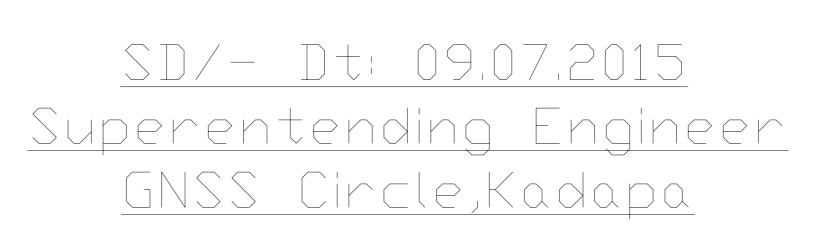
D/5 WING WALL & Return

CONCRETE IN CC M15

+237.328

+235.703





## NOTES

VALUE NOT MORE THAN 3M/YEAR.



- 1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES.FOLLOW FIGURED DIMENSIONS AND DO NOT SCALE THE DRAWING.
- 2. BACK FILLING SHALL BE DONE SIMULTANEOUSLY WITH THE RAISING OF THE WINGS & RETURNS USING SOILS WITH ANGLE OF REPOSE NOT LESS THAN 28° AND PERMEABILITY COEFFICIENT 'K'
- 3. THE MAXIMUM STRESSES ON FOUNDATION STRATA WORKED OUT FOR THE WINGS & RETURNS ARE SHOWN IN STRESS TABE. IF THE FOUNDATION STRATA METWITH DURING EXECUTION IS INFERIOR AND CANNOT TAKE THE DESIGNED STRESSES, THE SECTIONS ARE TO BE SUITABLY REVISED.
- 4. MINIMUM COVER TO ALL REINFORCEMENT SHALL BE 30 MM TO ENSURE PROPER COVER OF CONCRETE TO REINFORCEMENT.
- 5. ALL REINFORCING STEEL SHALL BE OF HIGH YIELD STRENGTH DEFORMED BARS, (FE 415) CONFORMING TO IS 1786 1985.
- 6. JOINTS OR LAPPING OF BARS IN MAIN REINFORCEMENT SHALL BE AVOIDED AS FAR AS POSSIBLE. HOWEVER IF LAPS ARE INEVITABLE, THE PROVISION IN CLAUSE 304.6.6 OF IRC 21 2000 SHALL BE STRICTLY FOLLOWED.
- 7. BENDING OF REINFORCEMENT BARS SHALL BE AS PER IS 2502. SUPPORTING CHAIRS OF 12 MM DIA SHALL BE PROVIDED AT SUITABLE INTERVALS AS PER IS 2502.
- 8. CONCRETE SHALL BE PREPARED IN THE MECHANICAL MIXERS OF CAPACITY NOT LESS THAN 200 LITRES. PROPER COMPACTION OF CONCRETE SHALL BE ENSURED BY USE OF FORM AND NEEDLE VIBRATORS.
- 9. ALL HAUNCHES PROPOSED IN THE BOXES ARE OF 100 X 100 SIZE

			STRESS TABL	E				
				STRESSES IN T/SQ.M				
S.No.		PARTICULARS			IN CONCRETE		ON SOIL	
					MIN.	MAX.	MIN.	
1	U/S HEAD	WALL		8.01	0.14	_	-	
2	D/S HEAD	WALL		8.01	0.14	-	-	
3	U/S WING			16.80	0.35	13.65	3.90	
4	D/S WING			16.69	0.35	13.65	3.20	
5	U/S RETUR	N		16.05	0.43	13.08	3.92	
	D/O DEVELO					0.15		
6	D/S RETUR	N N		11.64	0.46	9.15	3.61	

S.NO.	PARTICULARS	GRADE OF CEMENT CONCRETE AS PER IS:456-2000	MAX SIZE OF GRADED COARSE AGGREGATE AS PER IS:383
Α	APRON	CC M15 GRADE	40 MM
В	WINGS, RETURNS, HEAD WALLS, DROP WALLS & FOUNDATIONS	CC M15 GRADE	40 MM
С	WEARING COAT	CC M25 GRADE	20 MM
D	SEALING COAT	CC M25 GRADE	20 MM
Е	BOX	RCC M2O GRADE	20 MM

## REFERENCE DRAWINGS

1. DRAWING NO. GLIS/SKC/UT-27.900/001/2011 - GENERAL PLAN AND SECTIONAL ELEVATION

GLISS/SKC/UT/ 27.900/002/2011	AS	INDICATED				
DRAWING NO:		SCALE		DATE		
CONTRACTORS	KBL - N HYDER	MCCL (JV) ABAD				
TITLE	UNDER TUNNEL AT KM. 24.000 RCC DETAILS OF BOX					
PROJECT	GANDIKOTA LIFT IRRIGATION SCHEME SANTHAKOVURU MAJOR DISTRIBUTORY					
CLIENT	GOVERNMENT OF ANDHRA PRADESH IRRIGATION & CAD DEPARTMENT					
REVISION NO:	DRAWN	CHECKED	APPROVED	DATE		