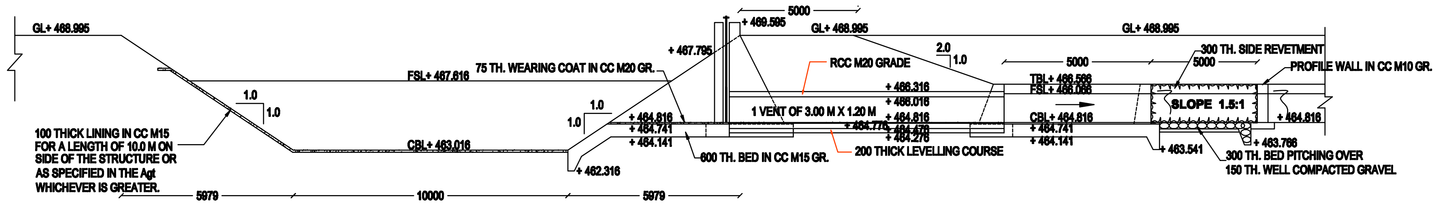
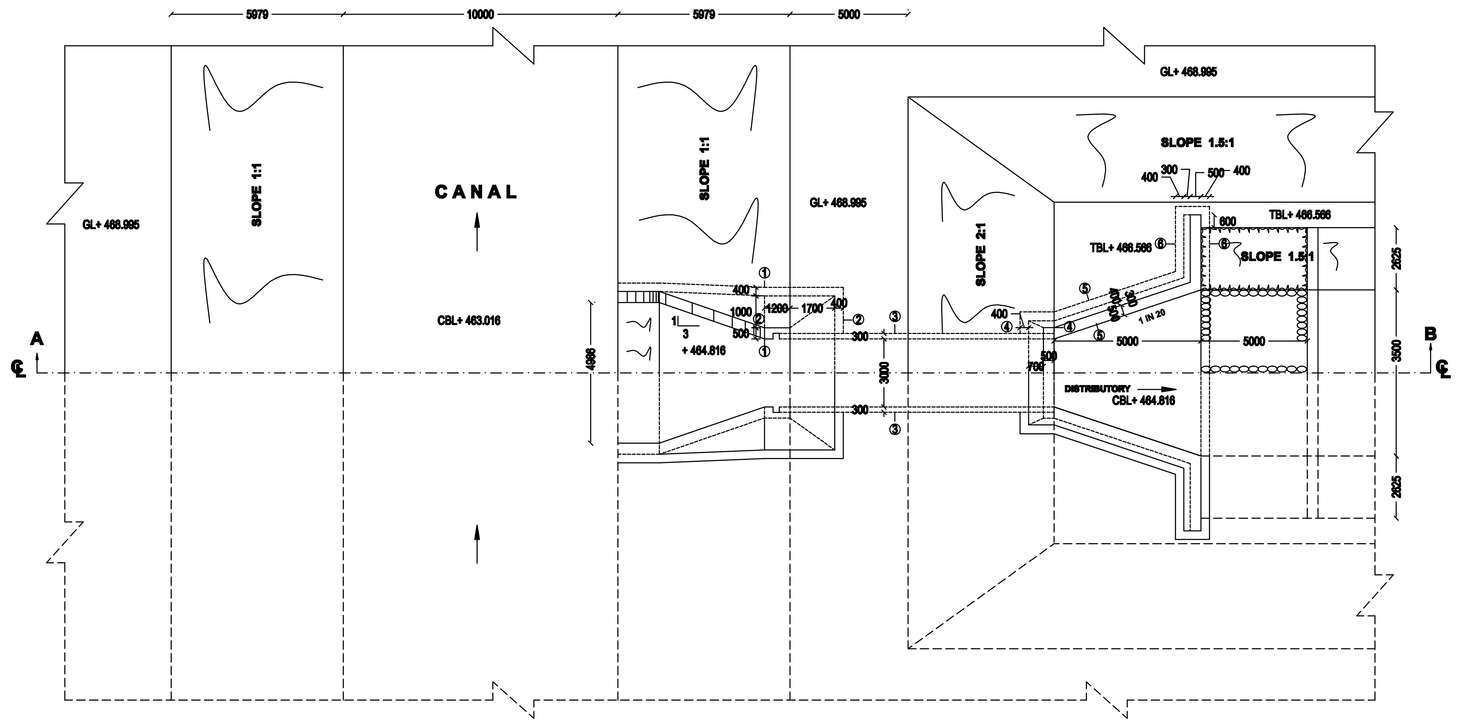


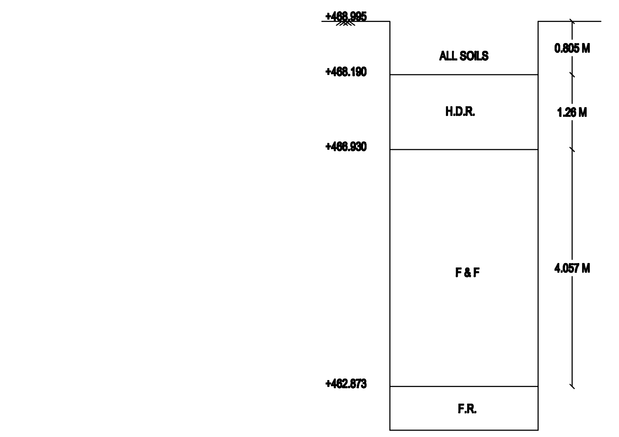
SECTIONAL ELEVATION ON 'A B'

SCALE 1 : 200

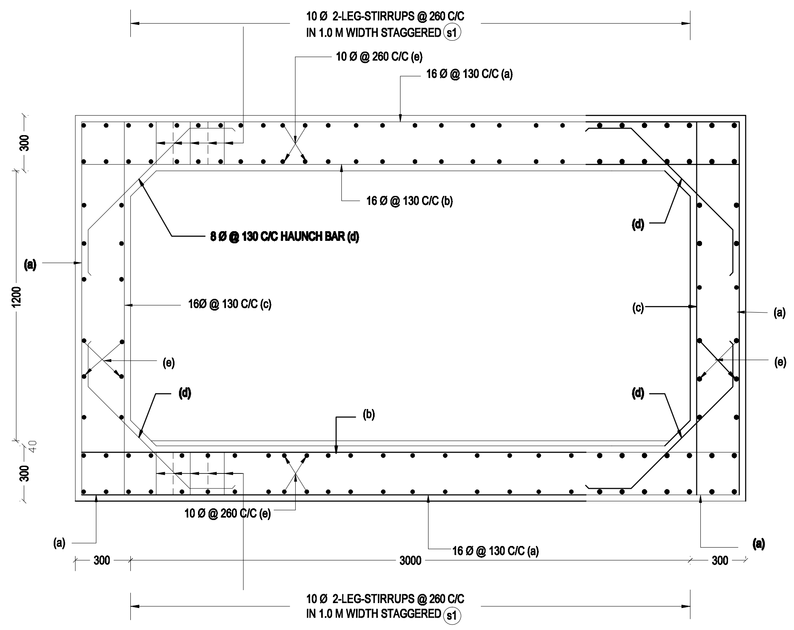


HALF PLAN AT TOP AND HALF PLAN AT BOTTOM

SCALE 1 : 200



Open Classification

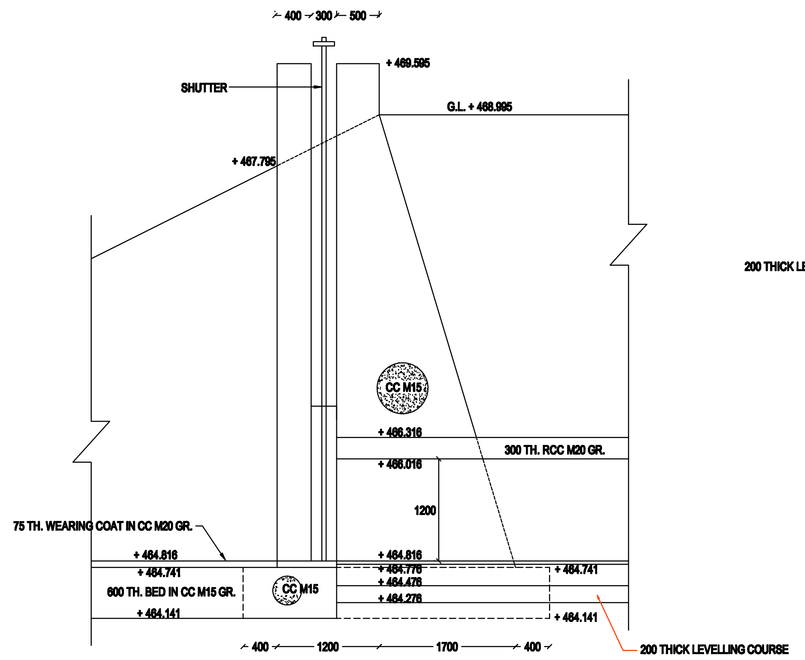


R.C.C.DETAILS OF BOX

(1 VENT OF 3.00 M X 1.20 M)

SECTION ON '3-3'

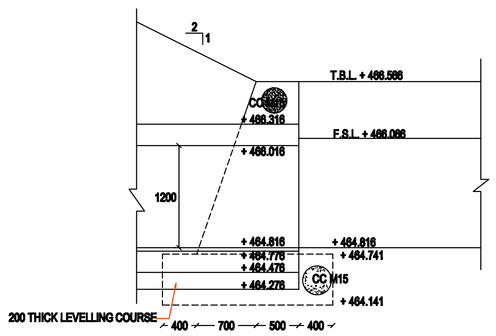
SCALE 1:50



U/S HEAD WALL

SECTION ON '2-2'

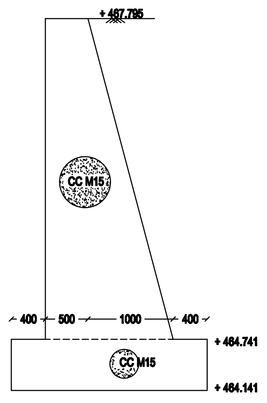
SCALE 1 : 50



D/S HEAD WALL

SECTION ON '4-4'

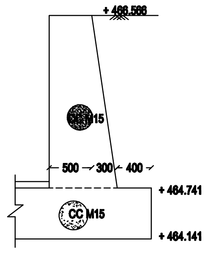
SCALE 1 : 50



U/S WING WALL

SECTION ON '1-1'

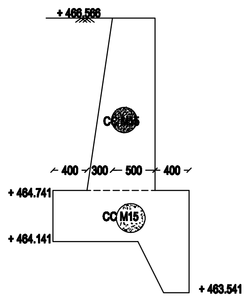
SCALE 1 : 50



D/S WING WALL

SECTION ON '5-5'

SCALE 1 : 50



D/S RETURN WALL

SECTION ON '6-6'

SCALE 1 : 50

NOTATION & SHAPE OF BARS FOR BOX

Sl.No	NOTATION	SHAPE OF BAR	SPACING	REMARKS
1	a		16 Ø @ 130 C/C	-
2	b		16 Ø @ 130 C/C	-
3	c		16 Ø @ 130 C/C	-
4	d		8 Ø @ 130 C/C	HAUNCH BAR
5	e		10 Ø @ 260 C/C	DISTRIBUTION
6	s1		10 Ø -2 LEGGED STIRRUPS @ 260 C/C WITH 1.0 M STAGGERED	STIRRUPS

NOTES AND SPECIFICATIONS

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 OFF-TAKE IS DESIGNED ADOPTING THE FOLLOWING IS CODES.
   (i) IS 456 - 2000, (ii) IS 383.
4. 100 THICK LINING IN C.C. M15 GRADE SHALL BE PROVIDED FOR BED AND SIDES OF THE CANAL FOR A LENGTH OF 10.0 M ON EITHER SIDE. OR AS SPECIFIED IN THE AGREEMENT WHICH EVER IS GREATER.
5. BACK FILLING SHALL BE DONE SIMULTANEOUSLY WITH THE RAISING OF THE STRUCTURE WITH Ø VALUE OF SOIL NOT LESS THAN 28°.
6. IF THE STRATA METWITH AT FOUNDATION LEVEL DURING EXECUTION IS DIFFERENT FROM WHAT HAS BEEN CONSIDERED IN THE DESIGN (SHOWN IN THE STRESS TABLE), THE SECTION NEEDS TO BE REDESIGNED.
7. 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	CC M20	20 MM
2	BOX	RCC M20	20 MM
3	SEALING COAT	CC M25	20 MM
4	HEAD WALLS & WING WALLS	CC M15	40 MM
5	FOUNDATIONS	CC M15	40 MM
6	FLOOR CONCRETE/LEVELLING COURSE	CC M15	40 MM
7	LINING	CC M15	20 MM

HYDRAULIC PARTICULARS

S.NO	DESCRIPTION OF ITEMS	MAIN CANAL	DISTRIBUTORY
1	DISCHARGE REQUIRED	95.460 CUMECS	3.558 CUMECS
2	DISCHARGE DESIGNED	96.089 CUMECS	3.604 CUMECS
3	BED WIDTH	10.00 M	3.50 M
4	FULL SUPPLY DEPTH	4.70 M	1.25 M
5	VELOCITY	1.391 M/SEC	0.536 M/SEC
6	BED FALL	1 IN 6800	1 IN 4400
7	SIDE SLOPES	1 : 1	1.5 : 1
8	COEFFICIENT OF RUGOSITY	0.018	0.025
9	TOP WIDTH OF BANKS (L / R)	8.925 M / 5.0 M	4.0 M / 2.50 M
10	BED LEVEL	+ 463.016 M	+ 464.816 M
11	FULL SUPPLY LEVEL	+467.816 M	+466.066 M
12	TOP OF BANK LEVEL	+468.516 M	+466.566 M
13	AVE. GROUND LEVEL	+ 468.995M	+ 468.995 M

STRESS TABLE

S.NO	DESCRIPTION OF ITEMS	STRESSES IN T / SQ.M			
		AT BASE		ON SOIL	
		MAX.	MIN.	MAX.	MIN.
1	U/S HEAD WALL	29.867	(-) 3.750	20.435	4.553
2	D/S HEAD WALL	8.364	(-) 1.141	6.255	4.182
3	U/S WING WALL	16.600	(-) 1.528	10.988	4.248
4	D/S WING & RETURN WALL	11.400	(-) 2.154	6.274	3.407

1	LR. NO. EE/AVR HNSS Div.NO.6/ATP/ DW/AEE(T)/F-511M	30-09-2008
REVISION NO:	REFERENCE	DATE
CLIENT	GOVERNMENT OF ANDHRA PRADESH IRRIGATION & CAD DEPARTMENT	
PROJECT	HANDRI NIVA SUJALA SRAVANTHI PROJECT PHASE-I, PACKAGE NO - 34	
TITLE	OFF - TAKE AT KM. 196.500 GENERAL PLAN AND DETAILS OF SECTIONS	
CONTRACTORS	M/S REDDY VERANNA CONSTRUCTIONS PVT.LTD., BANGALORE.	
DRAWING NO:	SCALE	DATE
HNSS/P34/OT/2008	AS INDICATED	08-08-2008