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F2.		

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COMPUTATION OF REDUCED LEVEL USING AUTO LEVEL

Reduced Levels of Collination plane Method.

LEVEL PAGE.								
	Stay Station	B.5	15	F5	HI	RL	Remarks.	
	ВМ	0.700			100,400	100.00	B-M	
	1.		1.500			99.200		
	2.		2.000			98.400		A.
	3.	2.200		1.800	101-100	98.900	C.P.1	
	4.	1.000		1.800	100.300	99.300	C.P.2.	
	5.			2.200		98-100		

Step 1: HI is calculated by adding BS reaching to RL & BM.

Step 2: RL 8 paint 1 = 100.400 - 1.500 [HI- Is reading 8] point 1]

Styp 8: RL of paint 2: 100.700-2.00 [HI- IS reading of paint 2]

Step 4: RL of paint 3 = 100.700 - 1.800 [HI-F5 reading of paint 3] = 98.900

Step 5: change point, New HI = 98.900 + 2.200

[RLS] point 3 + BS reading at point 3]

Step 6: RL of paint 4 = 101-100-1-800 [New HZ - ps reading at point 4]

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Step 7: Change paint, New H.I = 99.300+1.00

[RL of point 4 - B. S reading at point 4]

Step8: RL of paint 5 = 100.300-2.200 [New HI - FS reading at paints]

Step 9: Arithmetic Check:

The deformer between the sum of backsights and the sun of forwights should be equal to the difference between the last and first RL. Thus;

ZBS-ZPS = Rout RL - first RL. 3.900 - 5.800 = 98.100 - 100.00 -1.900 = -1.900.

The method apprels a check for the HI and RLD change point but not the intermediate points.

Reduced Revels by Rise and fall Method.

LEVEL PAGE							
staff station	BS.	15.	F5	Rise (+)	foul (-)	R.L	Remark.
BM	0.400					100.000	Se pil
						B.M.	
1.		1.500			0.800	99-200	
2.		2.000			0.500 -	98.400	
3.	2.200		1.800	0.200		98-900	
						C.P.1	
4.	1.000		1.800	0.400		99.300	
			1000			CP-2	
5.			2.200.		1.200	98.100	
	ZBS= 3.900		SFS = 5.800	ERIZE= 0.600	& fort = 2.500.		

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		COM	V100 0

The first reading on BM is 0. 400 & RL 100.000 The next reading is 1.500m on paint 1. Hence flew the staff
reading shows increase in reading that means there is depression
at point 1 as compared to the BM point.

(as stay) reading increase in upper direction)

Therefore it is a fall and the amount of fall is 0.700 - 1.500 - -0.800m which is entered in fall column.

Substracting 0.800 from 100.000 = 99.200 m.

Avilhauetic Check 8.

IBS- EPS = ERise - E Fall - ELastRL - firstRL for the size and fall method problem:

7 - 1.900m.

Flence, fugilling all the checks!