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50219

## SUPERELEVATION CHECK SHEET (ENGLISH VERSION)

This spreadsheet can be used to check superelevation calculations. It is divided into 3 parts.

Part I is the parameters area where the pertinent data used to calculate the superelevation is entered.

Part II is the Shapemaker table area where the data relating to generating a shapemaker is held.

Part III is the area where a particular cross slope or edge of pavement info for a particular xs can be obtained.

Use the yellow blocks to enter the known data & the blue blocks are the calculated results.

**THIS SPREADSHEET CAN NOW HANDLE REMOVE CROWN!!!**

## PART I CALCULATION PARAMETERS

INPUT		OUTPUT		Cross slope
		(STATION)		(%)
Travel lane width:	31.5 ft	BEGIN se HIGHSIDE:	177+60.08	-2.08
MAX se Rate:	0.036 (ft/ft) FROM TABLE	END se HIGHSIDE:	208+53.00	-2.08
PC Sta:	180+42.51 SEE NOTE	BEGIN se LOWSIDE:	180+22.56	-2.08
PT Sta:	205+70.55 SEE NOTE	END se LOWSIDE:	205+90.50	-2.08
		BEGIN MAX se:	181+18.11	3.60
		END MAX se:	204+94.95	3.60
		PC/PT se:	0.76	2.40 (-/+)
		MAX se rate:	1.13 (ft)	
		e Norm:	-0.66 (ft)	

**NOTE: DO NOT KEY IN THE + SIGN !!!**

Example station 10+00 should be keyed-in as 1000

MAX CHANGED  
TO 3.20

**PART II****SHAPEMAKER TABLE****LOWSIDE**

FROM STATION	cross slope (%)	TO STATION	cross slope (%)	TRANS or NON-TRANS	COMMENTS
Beg Constr.	-2.08	180+22.56	-2.08	NT	Normal Crown
180+22.56	-2.08	181+18.11	-3.60	T	Beg Super to Max Super
181+18.11	-3.60	204+94.95	-3.60	NT	Beg Max Super to End Max Super
204+94.95	-3.60	205+90.50	-2.08	T	End Max Super to Normal
205+90.50	-2.08	End Constr.	-2.08	NT	Normal Crown

**HIGHSIDE**

FROM STATION	cross slope (%)	TO STATION	cross slope (%)	TRANS or NON-TRANS	COMMENTS
Beg Constr.	-2.08	177+60.06	-2.08	NT	Normal Crown
177+60.06	-2.08	181+18.11	3.60	T	Beg Super to Max Super
181+18.11	3.60	204+94.95	3.60	NT	Beg Max Super to End Max Super
204+94.95	3.60	208+53.00	-2.08	T	End Max Super to Normal
208+53.00	-2.08	End Constr.	-2.08	NT	Normal Crown

## PART III INDIVIDUAL STA. CALCULATIONS

USE THIS TABLE TO DETERMINE A CROSS SLOPE OR EOP CHANGE IN ELEV (z)

LOWSIDE		HIGHSIDE	
cross slope (%)	change in z (ft)	STA	change in z (%)
-224.95	-70.86	65+50.00	70.86
-225.74	-71.11	65+00.00	71.11
-226.54	-71.36	64+50.00	71.36
-227.33	-71.61	64+00.00	71.61
-228.12	-71.86	63+50.00	71.86
-2.40	-0.76	PT Sta 20570.550 PT Sta	0.76
283.99	89.46		-89.46
283.99	89.46		-89.46
283.99	89.46		-89.46
283.99	89.46		-89.46
183.99	57.96	63+00.00	-57.96
184.78	58.21	62+50.00	-58.21
185.58	58.46	62+00.00	-58.46
186.37	58.71	61+50.00	-58.71
187.16	58.96	61+00.00	-58.96
187.96	59.21	60+50.00	-59.21
-2.40	-0.76	PC Sta 18042.510 PC Sta	0.76
-2.08	-0.66	60+00.00	-0.66
-2.08	-0.66	59+50.00	-0.66
-2.08	-0.656	59+00.00	-0.66
-2.08	-0.656	58+50.00	-0.66
-2.08	-0.656	58+00.00	-0.66