## **APPENDIX C: Bear Tooth TIGER Grant Application - Construction Jobs**

A.L Politano and Carol J. Roadifer, Regional Economic Impact Model for Highway Systems (REIMHS), Transportation Research Record 1229, Transportation Research Board, Washington D.C., 1989. (Model adjusted to reflect inflation.)

		Multipliers from	REIMHS for R	ural Areas
ural atios	original 86	1.66	0.43	19.044

No adjustment needed Adjusted for inflation 2012 0.43 Multipliers 1.66

Millions of 2012 \$ Years of Employment) Economic Impact of Bear Tooth Highway Construction Investment and

Resulting Travel Benefits (Millions of 2011\$) Total Jobs Value Regional Total including Economic (Person Years of Engineering Output Earnings Employment) Alternative Full Project \$46.1 \$76.53

Model for Highway Systems, Transportation Research Record 1229, Transportation Research Board, Washington D.C., 1989. (Model adjusted to reflect inflation.) Atkins, 2012.

\$19.82

420

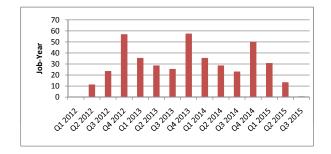
Inflation ad	justment 1986 to 2012 US CPI, All Urban Consumers, not adj 109.6 1986 annual 224.939 2011 annual 2.052363 2011/1986	
	224.939 2011 annual	
	To midpoint (half year of 2012 from 2011)	
	Assume inflation in 2012 = 2011:	
	1.016 2012 half year = 2011 half year	

1.016 2012 half/2011

g jobs for inflation								
203 urban interstate								
224 urban primary rehab								
159 bridge								
190 rural secondary construction (here for reconstruction)								
191 rural bridge (multipliers are 1.50 and 0.44, so assume ave of 1.78 and 1.50 = 1.64)								
Weighted Averaging of highway and bridge multipliers  Assume % Output Earnings Jobs (conservative on output since bridges likely lower %)								
3 190								
4 191								

1.66 0.43 190.44

Quarterly Job Creation*			Total by	Distributed	Distributed by quarter					
-					Initial Quarter	First	Second	Third	Chk tot	Distributed
Q1 2012	0	\$	-	January - March	0	0.0	0.0	0.0	0.0	0.0
Q2 2012	11	\$	2,500,000	April - June	23	11.4	7.6	3.8	22.8	11.4
Q3 2012	24	\$	3,500,000	July-September	32	16.0	10.7	5.3	32.0	23.6
Q4 2012	57	\$	9,300,000	October - December	85	42.5	28.3	14.2	85.0	56.9
Q1 2013	35	\$	400,000	January - March	4	1.8	1.2	0.6	3.7	35.5
Q2 2013	29	\$	2,900,000	April - June	26	13.2	8.8	4.4	26.5	28.6
Q3 2013	25	\$	3,500,000	July-September	32	16.0	10.7	5.3	32.0	25.4
Q4 2013	58	\$	9,300,000	October - December	85	42.5	28.3	14.2	85.0	57.5
Q1 2014	35	\$	400,000	January - March	4	1.8	1.2	0.6	3.7	35.5
Q2 2014	29	\$	2,900,000	April - June	26	13.2	8.8	4.4	26.5	28.6
Q3 2014	23	\$	3,000,000	July-September	27	13.7	9.1	4.6	27.4	23.1
Q4 2014	50	\$	8,000,000	October - December	73	36.5	24.4	12.2	73.1	50.1
Q1 2015	31	\$	400,000	January - March	4	1.8	1.2	0.6	3.7	30.8
Q2 2015	13	\$	-	April - June	0	0.0	0.0	0.0	0.0	13.4
Q3 2015	1	\$	-	July-September	0	0.0	0.0	0.0	0.0	0.6
Q4 2015	0	\$	-	October - December	0	0.0	0.0	0.0	0.0	0.0
	421	\$	46,100,000		421				421	421.1



<sup>\*</sup>Based on 1/2 jobs in quarter of expenditure, 1/3 in following quarter, and 1/6 in quarter after that per President's Council of Economic Advisors, 2009.

