# Pre-Rule Quiet Zone Crossing Safety Measures Costs

		ghts to Autor CHICAGO A				Mountable	Curbs w/ Fra CHICAGO A	ngible Deline REA	ators
	Number of	Cost of	Annual			Number of	Installation	Annual	
	Installations	Installations	Maintenance <sup>-</sup>	Total		Installations	and Baseline	Maintenance	Total
Year 1	0.0	\$0	\$0	\$0	Year 1	0.0	) \$0	\$0	
Year 2	0.7	\$28,571	\$0	\$28,571	Year 2	4.0	\$52,000	\$0	\$52,0
Year 3	0.7	\$28,571	\$357	\$28,929	Year 3	4.0	\$52,000	\$2,000	\$54,0
Year 4	0.7	\$28,571	\$714	\$29,286	Year 4	4.0	\$52,000	\$4,000	\$56,0
Year 5	0.7	\$28,571	\$1,071	\$29,643	Year 5	5.7	\$73,667	\$6,000	\$79,6
Year 6	0.7	\$28,571	\$1,429	\$30,000	Year 6	5.7	\$73,667	\$8,833	\$82,5
Year 7	0.7	\$28,571	\$1,786	\$30,357	Year 7	5.7	\$73,667	<b>′</b> \$11,667	\$85,3
Year 8	0.7	\$28,571	\$2,143	\$30,714	Year 8	4.0	\$52,000	\$14,500	\$66,5
Year 9	0.0	\$0	\$2,500	\$2,500	Year 9	0.3	\$4,333	\$\$16,500	\$20,8
Year 10	0.0	\$0	\$2,500	\$2,500	Year 10	0.3	\$4,333	\$\$16,667	\$21,0
Year 11	0.0	\$0	\$2,500	\$2,500	Year 11	0.3	\$4,333	\$\$16,833	\$21,1
Year 12	0.0	\$0	\$2,500	\$2,500	Year 12	0.0	) \$0	\$17,000	\$17,0
Year 13	0.0	\$0	\$2,500	\$2,500	Year 13	0.0	) \$0	\$17,000	\$17,0
Year 14	0.0	\$0	\$2,500	\$2,500	Year 14	0.0	) \$0	\$17,000	\$17,0
Year 15	0.0	\$0	\$2,500	\$2,500	Year 15	0.0	) \$0	\$17,000	\$17,0
Year 16	0.0	\$0	\$2,500	\$2,500	Year 16	0.0	) \$0	\$17,000	\$17,0
Year 17	0.0	\$0	\$2,500	\$2,500	Year 17	0.0	) \$0	\$17,000	\$17,0
Year 18	0.0	\$0	\$2,500	\$2,500	Year 18	0.0	) \$0	\$17,000	\$17,0
Year 19	0.0	\$0	\$2,500	\$2,500	Year 19	0.0	) \$0	\$17,000	\$17,0
Year 20	0.0	\$0	\$2,500	\$2,500	Year 20	0.0	) \$0	\$17,000	\$17,0
NPV 20	5	\$143,906	\$16,468	\$160,375	NPV 20	34	\$311,906	\$\$108,618	\$420,5

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Photo-Enforcement: 3 Crossings Sharing Camera										
	CHICAGO AREA									
	Number of	Installation	Annual							
	Installations	and Baseline	Maintenance	Total						
Year 1	0.0	\$0	\$0	\$0						
Year 2	0.4	\$16,786	\$0	\$16,786						
Year 3	0.4	\$16,786	\$4,943	\$21,729						
Year 4	0.4	\$16,786	\$9,885	\$26,671						
Year 5	0.4	\$16,786	\$14,828	\$31,614						
Year 6	0.4	\$16,786	\$19,771	\$36,557						
Year 7	0.4	\$16,786	\$24,714	\$41,499						
Year 8	0.4	\$16,786	\$29,013	\$45,799						
Year 9	0.0	\$0	\$33,313	\$33,313						
Year 10	0.0	\$0	\$32,670	\$32,670						
Year 11	0.0	\$0	\$32,028	\$32,028						
Year 12	0.0	\$0	\$31,385	\$31,385						
Year 13	0.0	\$0	\$30,742	\$30,742						
Year 14	0.0	\$0	\$30,099	\$30,099						
Year 15	0.0	\$0	\$30,099	\$30,099						
Year 16	0.0	\$0	\$30,099	\$30,099						
Year 17	0.0	\$0	\$30,099	\$30,099						
Year 18	0.0	\$0	\$30,099	\$30,099						
Year 19	0.0	\$0	\$30,099	\$30,099						
Year 20	0.0	\$0	\$30,099	\$30,099						
NPV 20	3.0	\$84,546	\$211,548	\$296,093						

# Pre-Rule Quiet Zone Crossing Safety Measures Costs Chicago Area

Medians OR Four-Quadrant Gates								
	(	CHICAGO AR	EA					
	Number of	Cost of	Annual	Total Annual				
	Installations	Installations	Maintenance	Cost				
Year 1	0.0	\$0	\$0	\$0				
Year 2	5.7	\$362,857	\$0	\$362,857				
Year 3	5.7	\$362,857	\$8,571	\$371,429				
Year 4	5.7	\$362,857	\$17,143	\$380,000				
Year 5	5.7	\$362,857	\$25,714	\$388,571				
Year 6	6.0	\$384,024	\$34,286	\$418,310				
Year 7	6.0	\$384,024	\$43,357	\$427,381				
Year 8	6.0	\$384,024	\$52,429	\$436,452				
Year 9	0.0	\$0	\$61,500	\$61,500				
Year 10	0.0	\$0	\$61,500	\$61,500				
Year 11	0.0	\$0	\$61,500	\$61,500				
Year 12	0.0	\$0	\$61,500	\$61,500				
Year 13	0.0	\$0	\$61,500	\$61,500				
Year 14	0.0	\$0	\$61,500	\$61,500				
Year 15	0.0	\$0	\$61,500	\$61,500				
Year 16	0.7	\$42,333	\$61,500	\$103,833				
Year 17	0.7	\$42,333	\$62,500	\$104,833				
Year 18	0.7	\$42,333	\$63,500	\$105,833				
Year 19	0.0	\$0	\$64,500	\$64,500				
Year 20	0.0	\$0	\$64,500	\$64,500				
NPV 20	43	\$1,907,481	\$405,580	\$2,313,060				

### Pre-Rule Quiet Zone Crossing Safety Measures Costs

# Pre-Rule Quiet Zone Crossing Safety Measures Costs

		vices to Flas cluding Chi				Flashing Lights to Automatic Gates NATION (Excluding Chicago Area)			
	Number of	Cost of	Annual	Total Annual		Number of	Cost of	Annual	
	Installations	Installations	Maintenance	Cost		Installations	Installations	Maintenance	Total
Year 1	0.00	\$0	\$0	\$0	Year 1	0.0	\$0	\$0	:
Year 2	1.3	\$120,857	\$0	\$120,857	Year 2	5.0	\$200,000	\$0	\$200,0
Year 3	1.3	\$120,857	\$2,571	\$123,429	Year 3	5.0	\$200,000	\$2,500	\$202,5
Year 4	1.3	\$120,857	\$5,143	\$126,000	Year 4	7.0	\$280,000	\$5,000	\$285,0
Year 5	1.3	\$120,857	\$7,714	\$128,571	Year 5	7.0	\$280,000	\$8,500	\$288,5
Year 6	2.0	\$183,524	\$10,286	\$193,810	Year 6	7.0	\$280,000	\$12,000	\$292,0
Year 7	2.3	\$214,857	\$14,190	\$229,048	Year 7	5.0	\$200,000	\$15,500	\$215,5
Year 8	2.6	\$246,190	\$18,762	\$264,952	Year 8	5.7	\$226,667	\$18,000	\$244,6
Year 9	0.67	\$62,667	\$24,000	\$86,667	Year 9	0.7	\$26,667	\$20,833	\$47,5
Year 10	0.33	\$31,333	\$25,333	\$56,667	Year 10	0.7	\$26,667	<b>\$21,167</b>	\$47,8
Year 11	0.00	\$0	\$26,000	\$26,000	Year 11	0.0	\$0	\$21,500	\$21,5
Year 12	0.00	\$0	\$26,000	\$26,000	Year 12	0.3	\$13,333	8 \$21,500	\$34,8
Year 13	0.00	\$0	\$26,000	\$26,000	Year 13	0.3	\$13,333	\$\$21,667	\$35,0
Year 14	0.00	\$0	\$26,000	\$26,000	Year 14	0.3	\$13,333	8 \$21,833	\$35,1
Year 15	0.67	\$62,667	\$26,000	\$88,667	Year 15	0.3	\$13,333	\$\$22,000	\$35,3
Year 16	1.00	\$94,000	\$27,333	\$121,333	Year 16	0.3	\$13,333	\$\$22,167	\$35,5
Year 17	1.00	\$94,000	\$29,333	\$123,333	Year 17	0.3	\$13,333	\$\$22,333	\$35,6
Year 18	1.00	\$94,000	\$31,333	\$125,333	Year 18	0.0	\$0	\$22,500	\$22,5
Year 19	0.67	\$62,667	\$33,333	\$96,000	Year 19	0.0	\$C	\$22,500	\$22,5
Year 20	0.67	\$62,667	\$34,667	\$97,333	Year 20	0.0	\$0	\$22,500	\$22,5
NPV 20	18.00	\$977,625	\$164,249	\$1,141,874	NPV 20	45	\$1,252,497	\$140,597	\$1,393,0

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# Pre-Rule Quiet Zone Crossing Safety Measures Costs

		Curbs w/ Frar cluding Chic	ngible Delinea ago Area)	ators	Medians OR Four-Quadrant Gates NATION (Excluding Chicago Area)				
	Number of	Installation	Annual			Number of	Cost of	Annual	Total Ann
	Installations	and Baseline	Maintenance	Total		Installations	Installations	Maintenance	Cost
Year 1	0.0	\$0	\$0	\$0	Year 1	0.0	\$0	\$0	
Year 2	5.1	\$66,857	\$0	\$66,857	Year 2	4.6	\$290,286	\$0	\$290,2
Year 3	5.1	\$66,857	\$2,571	\$69,429	Year 3	4.6	\$290,286	\$6,857	\$297,
Year 4	5.8	\$75,524	\$5,143	\$80,667	Year 4	4.6	\$290,286	\$13,714	\$304,
Year 5	6.5	\$84,190	\$8,048	\$92,238	Year 5	4.6	\$290,286	\$20,571	\$310,
Year 6	7.5	\$97,190	\$11,286	\$108,476	Year 6	4.6	\$290,286	\$27,429	\$317,
Year 7	8.5	\$110,190	\$15,024	\$125,214	Year 7	4.9	\$311,452	\$34,286	\$345,
Year 8	8.1	\$105,857	\$19,262	\$125,119	Year 8	5.2	\$332,619	\$41,643	\$374,2
Year 9	2.0	\$26,000	\$23,333	\$49,333	Year 9	1.0	\$63,500	\$49,500	\$113,
Year 10	0.7	\$8,667	\$24,333	\$33,000	Year 10	1.0	\$63,500	\$51,000	\$114,
Year 11	0.3	\$4,333	\$24,667	\$29,000	Year 11	1.0	\$63,500	\$52,500	\$116,
Year 12	1.0	\$13,000	\$24,833	\$37,833	Year 12	0.7	\$42,333	\$54,000	\$96,
Year 13	1.3	\$17,333	\$25,333	\$42,667	Year 13	1.3	\$84,667	\$55,000	\$139,
Year 14	1.3	\$17,333	\$26,000	\$43,333	Year 14	1.0	\$63,500	\$57,000	\$120,
Year 15	1.0	\$13,000	\$26,667	\$39,667	Year 15	1.3	\$84,667	\$58,500	\$143,
Year 16	0.7	\$8,667	\$27,167	\$35,833	Year 16	0.3	\$21,167	\$60,500	\$81,
Year 17	0.0	\$0	\$27,500	\$27,500	Year 17	0.7	\$42,333	\$61,000	\$103,
Year 18	0.0	\$0	\$27,500	\$27,500	Year 18	0.7	\$42,333	\$62,000	\$104,3
Year 19	0.0	\$0	\$27,500	\$27,500	Year 19	0.7	\$42,333	\$63,000	\$105,3
Year 20	0.0	\$0	\$27,500	\$27,500	Year 20	0.3	\$21,167	\$64,000	\$85,
NPV 20	55	\$473,549	\$158,670	\$632,218	NPV 20	43	\$1,756,411	\$354,600	\$2,111,

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# Pre-Rule Quiet Zone Crossing Safety Measures Costs

Photo	o-Enforcement NATION (Exc	-	•	mera	Photo-E		3 Crossings	s Sharing Car cago Area)	mera
	Number of	Installation	Annual			Number of	Installation	Annual	
	Installations	and Baseline	Maintenance	Total		Installations	and Baseline	Maintenance	Total
Year 1	0.0	) \$0	\$0	\$0	Year 1	0.0	\$0	\$0	
Year 2	1.1	\$54,286	\$0	\$54,286	Year 2	0.4	\$16,786	\$0	\$16,
Year 3	1.1	\$54,286	\$0	\$54,286	Year 3	0.4	\$16,786	\$4,943	\$21,
Year 4	1.1	\$54,286	\$35,200	\$89,486	Year 4	0.4	\$16,786	\$9,885	\$26,
Year 5	1.1	\$54,286	\$52,800	\$107,086	Year 5	0.4	\$16,786	\$14,828	\$31,
Year 6	1.1	\$54,286	\$70,400	\$124,686	Year 6	0.4	\$16,786	\$19,771	\$36,
Year 7	1.1	\$54,286	\$88,000	\$142,286	Year 7	0.4	\$16,786	\$24,714	\$41,
Year 8	1.1	\$54,286	\$103,886	\$158,171	Year 8	0.4	\$16,786	\$29,013	\$45,
Year 9	0.7	<b>′</b> \$31,667	\$119,771	\$151,438	Year 9	0.0	\$0	\$33,313	\$33,
Year 10	0.7	<b>′</b> \$31,667	\$130,038	\$161,705	Year 10	0.0	\$0	\$32,670	\$32,
Year 11	0.7	<b>′</b> \$31,667	\$140,305	\$171,971	Year 11	0.0	\$0	\$32,028	\$32,
Year 12	0.0	) \$0	\$150,571	\$150,571	Year 12	0.0	\$0	\$31,385	\$31,
Year 13	0.0	) \$0	\$150,571	\$150,571	Year 13	0.0	\$0	\$30,742	\$30,
Year 14	0.0	) \$0	\$150,571	\$150,571	Year 14	0.0	\$0	\$30,099	\$30,
Year 15	0.7	<b>′</b> \$31,667	\$151,286	\$182,952	Year 15	0.0	\$0	\$30,099	\$30,
Year 16	0.7	<b>′</b> \$31,667	\$162,267	\$193,933	Year 16	0.0	\$0	\$30,099	\$30,
Year 17	0.7	<b>′</b> \$31,667	\$172,533	\$204,200	Year 17	0.0	\$0	\$30,099	\$30,
Year 18	0.0	\$0	\$183,800	\$183,800	Year 18	0.0	\$0	\$30,099	\$30,
Year 19	0.0	) \$0	\$184,800	\$184,800	Year 19	0.0	\$0	\$30,099	\$30,
Year 20	0.0	) \$0	\$184,800	\$184,800	Year 20	0.0	\$0	\$30,099	\$30,
NPV 20	12.0	\$354,018	\$929,968	\$1,283,986	NPV 20	3.0	\$84,546	\$211,548	\$296,

# Pre-Rule Quiet Zone Crossing Safety Measures Costs

Photo	-Enforcement NATION (Exc	: 4 Crossings cluding Chica	-	nera	Add Fla	ashing Lights a NATION (Exc			sings
	Number of	Cost of	Annual			Number of	Installation	Annual	
	Installations	Installations	Maintenance	Total		Installations	and Baseline	Maintenance	Total
Year 1	0.0	) \$0	\$0	\$0	Year 1	0.0	\$0	\$0	
Year 2	0.6	§ \$20,000	\$0	\$20,000	Year 2	1.7	\$240,000	\$0	\$240,0
Year 3	0.6	5 \$20,000	\$5,486	\$25,486	Year 3	1.7	\$240,000	\$0	\$240,0
Year 4	0.6	§ \$20,000	\$10,971	\$30,971	Year 4	1.7	\$240,000	\$8,571	\$248,
Year 5	0.6	5 \$20,000	\$16,457	\$36,457	Year 5	1.7	\$240,000	\$12,857	\$252,8
Year 6	0.6	§ \$20,000	\$21,943	\$41,943	Year 6	1.7	\$240,000	\$17,143	\$257,
Year 7	0.6	§ \$20,000	\$27,429	\$47,429	Year 7	1.7	\$240,000	\$21,429	\$261, <del>4</del>
Year 8	0.6	5 \$20,000	\$32,057	\$52,057	Year 8	1.7	\$240,000	\$25,714	\$265,
Year 9	0.0	) \$0	\$36,686	\$36,686	Year 9	0.0	\$0	\$30,000	\$30,0
Year 10	0.0	) \$0	\$35,829	\$35,829	Year 10	0.0	\$0	\$30,000	\$30,0
Year 11	0.0	) \$0	\$34,971	\$34,971	Year 11	0.0	\$0	\$30,000	\$30,0
Year 12	0.0	) \$0	\$34,114	\$34,114	Year 12	0.0	\$0	\$30,000	\$30,0
Year 13	0.0	) \$0	\$33,257	\$33,257	Year 13	0.0	\$0	\$30,000	\$30,0
Year 14	0.0	) \$0	\$32,400	\$32,400	Year 14	0.0	\$0	\$30,000	\$30,0
Year 15	0.0	) \$0	\$32,400	\$32,400	Year 15	0.0	\$0	\$30,000	\$30,0
Year 16	0.0	) \$0	\$32,400	\$32,400	Year 16	0.0	\$0	\$30,000	\$30,0
Year 17	0.0	) \$0	\$32,400	\$32,400	Year 17	0.0	\$0	\$30,000	\$30,0
Year 18	0.0	) \$0	\$32,400	\$32,400	Year 18	0.0	\$0	\$30,000	\$30,0
Year 19	0.0	) \$0	\$32,400	\$32,400	Year 19	0.0	\$0	\$30,000	\$30,
Year 20	0.0	) \$0	\$32,400	\$32,400	Year 20	0.0	\$0	\$30,000	\$30,0
NPV 20	4.(	\$100,734	\$231,130	\$331,865	NPV 20	5.0	\$1,208,813	\$\$194,121	\$1,402,