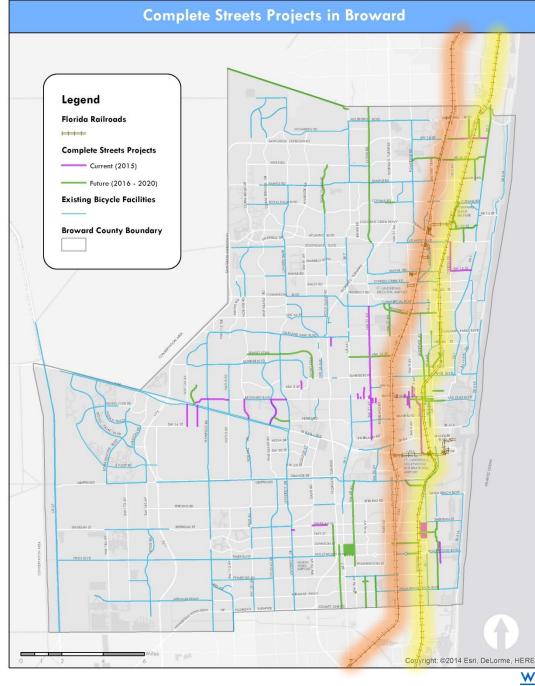


Quiet Zone Information

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About the Broward MPO

- Located in Broward County
 - 1.8 million residents
 - 2 major rail corridors
 - CSX
 - Florida East Coast
- In the next 5 years programmed \$100 million of Bike and Pedestrian improvements
- Walking Audits to identify deficiencies in the pedestrian environment



What is a Quiet Zone?

- A **Quiet Zone** is governed under the Train Horn Rule (49 CFR Part 222), locomotive engineers must begin to sound train horns at least 15 seconds, and no more than 20 seconds, in advance of all public grade crossings.
- Effectively the one safety feature (train horn) is supplemented by one or more other safety features.
- Safety is equivalent, or better, and **quality of life** near train tracks increases.



Elements of a Quiet Zone

- Supplemental Safety Measures (SSM)
 - Four Quadrant Gate System
 - Gates with Medians
 - Gates with Channelization
 - One Way Street with Gate(s)
 - Close (permanently) Railroad Crossing
 - Close (temporarily) Railroad Crossing
- Connectivity is not an element
 - Does not have to connect to local ROW
 - Easier to tie ped features to existing, safe crossing







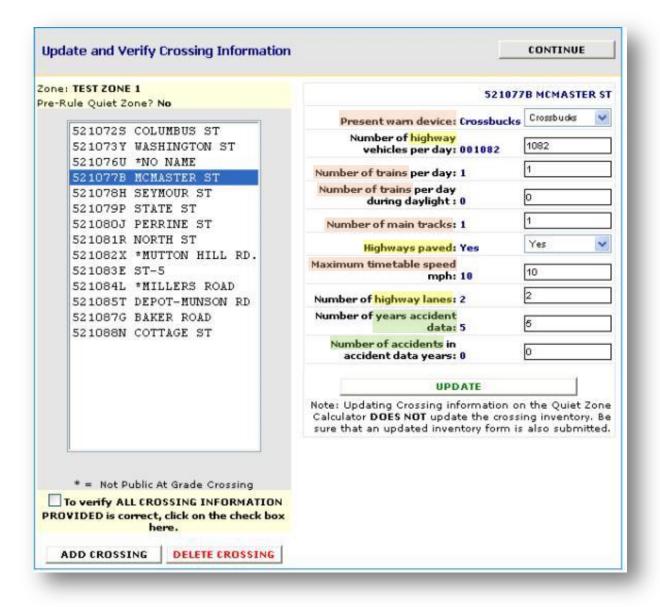






Designing the Quiet Zone

- Use the FRA Quiet Zone Calculator
- Targeted High Risk Intersections
 - Risk index greater than 100,000.
 - Applied medians where the geometry allowed.
 - Applied 4 quadrant gates.
- Pedestrian connectivity was not a factor but the improvements nonetheless improve pedestrian safety and access!





Municipality	Street		Risk Index BEFORE SSM SSM		Risk Index AFTER SSM		Change
Deerfield Beach	S.E.4TH ST.		146,258	Quad Gates		26,326	-119,932
Deerfield Beach	S.W.15TH ST.		160,078	Quad Gates		28,814	-131,264
Deerfield Beach	SAMPLE RD	Summary				67,359	-306,860
Pompano Beach	Atlantic Blvd / NW 3		Droposed Quiet Zone	. Broward	County	23,946	-109,090
Oakland Park	N.E. 38TH ST.		Proposed Quiet Zone	Preexistin	ng SSM	34,691	-158,038
Oakland Park	OAKLAND PARK BLVI		Туре	: New 24-ho	our QZ	22,343	-101,785
Wilton Manors	N.E. 26TH ST.		Scenario	: Broward Co_	44716	42,432	-169,729
Fort Lauderdale	N.E. 3RD AVE		Estimated Total Cost	\$1,865,0	00.00	37,077	-168,910
Fort Lauderdale	N.ANDREWS AVE	N.	lationwide Significan	t 143	47 .00	58,746	-267,623
Fort Lauderdale	N.W. 6TH ST.		Risk Threshold	:		29,715	-135,371
Fort Lauderdale	N.W. 4TH ST.	R	isk Index with Horns	920	095.56	11,053	-45,673
Fort Lauderdale	N.W. 2ND ST.	Q	uiet Zone Risk Index	: 732	10.75	0	-58,406
Fort Lauderdale	S.W. 2ND ST.					26,130	-119,040
Fort Lauderdale	S.W. 9TH ST.	Select				11,396	-45,587
Fort Lauderdale	S.W. 12TH ST.					43,370	-173,481
Fort Lauderdale	S.W. 1 <i>5</i> TH ST.	_	62,086	Medians		12,417	-49,669
Dania Beach	S.W. 2ND ST.		113,577	Quad Gates		20,443	-93,133
Hollywood	HOLLYWOOD BLVD		114,467 CAM 17-0	Quad Gates		20,604	-93,863
Hallandale Beach	HALLANDALE BLVD		Exhibit Page 9 of	1		20,822	-94,859

Why pursue a Quiet Zone?

- Quality of life extends to more people
 - Local residential support
 - Local political support
- Quiet zones are seen as a tool for economic development.



Timeline

- √ Identify quiet zone
- ✓ Install Supplemental Safety Measures (SSM)
- Adopt resolution of support for quiet zone
- Send Notice of Intent (NOI) to all parties: partnering entities (municipal/county), railroad operator (SFRTA, CSX, Amtrak), FDOT District 4, FDOT Central Office, FRA
 - 60 day comment period
- Send Notice of Establishment (NOE) to all parties: partnering entities (municipal/county), railroad operator (SFRTA, CSX, Amtrak), FDOT District 4, FDOT Central Office, FRA
 - 21 day grace period
- Quiet zone in effect



Questions?

