



Vincent Cardone Principal Engineer II, Traffic Monmouth County

- Competitive program administered by MPO
- Uses funds from the Federal Highway Administration's Highway Safety Improvements Program (HSIP).
- Only NJTPA member subregions are eligible to submit applications to the NJTPA for these programs. Municipalities located within the subregions may recommend a project to their respective county



For projects to be advanced in FY 2018 all environmental approvals, local approval, and right-of-way acquisition must be completed and a full set of PS&E documents submitted to the Local Aid office by a set deadline.



- Project sponsors must give consideration to modern roundabouts for all new intersection and intersection upgrade projects.
- The National Environmental Policy Act (NEPA) regulations must be followed. As such, projects must have minimal or no environmental and cultural resource impacts.
- Projects must be completed within 24 months of receiving federal authorization.



- The following types of projects are NOT eligible:
 - improvements involving State, U.S. and Interstate highways including any improvements at intersections with such facilities;
 - routine maintenance/ replacement projects (including general resurfacing projects)
 - congestion management/ roadway capacity enhancements (road widening)
 - Aesthetic improvements along the rights-of-way.



NJTPA High Risk Rural Roads Network Screening List

FY 2017-2018 HIGH RISK RURAL ROADS PROGRAM
NETWORK SCREENING (USING CRASH DATA FROM 2011-2013)

	ALL COUNTIES ALL COUNTIES														
NJTPA	COUNTY					MILEPOST	MILEPOST				INCAPACITATING	MODERATE			WEIGHTED
RANK	RANK	COUNTY	MUNICIPALITY	ROAD NAME	SRI	START	END	LENGTH	TOTAL CRASHES	FATAL INJURY	INJURY	INJURY	PAIN	PDO	SCORE/MILE
9	2	Hunterdon	Clinton town	West Main Street	00000173Z	0.00	0.45	0.45	2	1	0	0	0	1	10.69
11	3	Hunterdon	Tewksbury township	Fairmount Road West	00000512	3.73	4.93	1.20	14	0	2	1	1	10	10.24
13	3	Hunterdon	Delaware township	Stockton-Flemington Road	00000523	3.03	3.95	0.92	10	0	1	1	2	6	9.22
14	3	Hunterdon	Lebanon township	Fairview Avenue	00000513	15.97	20.05	4.08	73	1	3	3	12	54	8.88
19	4	Hunterdon	Tewksbury township	Old Turnpike Road	00000517	1.39	3.29	1.90	36	1	0	3	4	28	7.27
21	4	Hunterdon	Clinton township	PAYNE RD	10061007	0.60	1.33	0.73	2	1	0	0	0	1	6.59
23	5	Hunterdon	Holland township	Milford-Warren Glen Road	00000519	19.46	22.56	3.10	49	0	2	5	2	40	6.44
27	5	Hunterdon	Kingwood township	Kingwood Road	00000519	9.19	10.36	1.17	6	0	1	0	2	3	5.82
41	7	Hunterdon	Union Twp (Hunterdon Co)	Little York Road	10000614	5.11	6.37	1.26	8	1	0	0	1	6	4.61
64	11	Hunterdon	East Amwell township	Rileyville Road	10000607	0.00	2.08	2.08	5	0	1	0	0	4	2.31
		Hanterdon	East / in went to wrising	Micy vine Hood	10000007	0.00	2.00	2.00		Ů	-	·	Ů	•	2.51
3	2	Middlesex	Old Bridge township	Texas Road	00000520	0.00	2.06	2.06	107	0	1	2	26	78	16.58
		ivilualesex	Old Bridge township	Texas nodu	00000320_	0.00	2.00	2.00	107		-		20	70	10.50
4	1	Monmouth	Wall township	Belmar Boulevard	130000181	1.41	2.46	1.05	28	0	2	1	3	22	13.61
6	1	Monmouth	Freehold township	Jackson Mill Road	130000181_	0.00	1.45	1.45	35	1	0	3	9	22	12.98
15	4	Monmouth	Millstone township	Perrineville Road	13000023	1.57	3.23	1.66	40	0	1	1	8	30	8.72
26	8	Monmouth	Howell township	CASINO RD	13191012	2.62	3.60	0.98	6	0	1	0	1	4	5.93
31	8	Monmouth	Roosevelt borough	South Rochdale Avenue	00000571	29.68	30.57	0.89	4	1	0	0	0	3	5.40
31	8	Monmouth	Howell township	ARNOLD BLVD	13191101	0.00	0.89	0.89	4	0	1	0	0	3	5.40
42	9	Monmouth	Upper Freehold township	Stage Coach Road	00000524	7.91	13.36	5.45	29	1	1	5	7	15	4.58
43	9	Monmouth	Freehold township	Ely Harmony Road	13321049	0.00	4.46	4.46	37	0	1	5	7	24	4.52
51	12	Monmouth	Upper Freehold township	Holmes Mill Road	13000027_	1.37	4.67	3.30	13	1	0	3	1	8	3.28
56	12	Monmouth	Upper Freehold township	MEIRS RD	13511013	1.79	3.97	2.18	4	1	0	1	0	2	2.97
60	12	Monmouth	Millstone township	Millstone Road	13321017	0.00	5.57	5.57	39	1	0	4	3	31	2.60
1	1	Morris	Washington Twp (Morris Co)	West Mill Road	00000513	25.67	25.85	0.18	11	0	1	0	0	10	26.72
30	2	Morris	Washington Twp (Morris Co)	Fairmont Road	00000517	7.31	9.30	1.99	22	0	1	3	1	17	5.44
36	2	Morris	Washington Twp (Morris Co)	East Mill Road	00000513	26.87	28.39	1.52	31	0	1	0	3	27	5.14
38	3	Morris	Jefferson township	Ridge Road	14141233	1.51	2.49	0.98	2	0	1	0	0	1	4.91
40	3	Morris	Mendham township	Roxciticus Road	14191045	2.18	3.52	1.34	4	1	0	1	0	2	4.84
18	1	Ocean	Ocean Twp (Ocean Co)	Warren Grove-Waretown Road	00000532	32.21	33.04	0.83	5	0	1	1	0	3	7.81
20	1	Ocean	Manchester township	Whiting-New Egypt Road	00000539	25.36	28.38	3.02	43	0	1	3	11	28	6.89
24	2	Ocean	Stafford township	North Green Street	00000539	10.58	11.68	1.10	6	0	1	0	2	3	6.19
25	2	Ocean	Plumsted township	Pinehurst Road	00000539	32.23	33.71	1.48	5	1	0	2	1	1	6.18
29	4	Ocean	Little Egg Harbor township	Thomas Avenue	15000602	0.00	1.75	1.75	4	1	1	0	0	2	5.50
33	5	Ocean	Jackson township	West Veterans Highway	00000528	16.41	18.18	1.77	13	0	1	1	3	8	5.36
39	6	Ocean	Little Egg Harbor township	STAGE RD	15161159	0.00	0.99	0.99	3	0	1	0	0	2	4.86
44	7	Ocean	Little Egg Harbor township	North Green Street	00000539	0.73	3.69	2.96	53	1	0	2	5	45	4.44
46	7	Ocean	Lacey township	Lacey Road	15000614	2.71	10.04	7.33	46	0	1	8	8	29	3.57
47	8	Ocean	Lacey township	Cedar Bridge-Whiting Road	00000539	15.91	20.85	4.94	33	1	0	4	6	22	3.54
55	9	Ocean	Berkeley township	Dover Road	15000618_	1.90	3.80	1.90	9	0	1	0	1	7	3.06
61	9	Ocean	Lacey township	Dover Road	15000618_	0.00	1.90	1.90	1	0	1	0	0	0	2.53
68	9	Ocean	Plumsted township	Long Swamp Road	15230004	0.00	3.85	3.85	2	1	0	0	0	1	1.25
16	1	Somerset	Tewksbury township	Lamington Road	00000523	24.36	24.94	0.58	6	1	0	0	0	5	8.25
58	4	Somerset	Hillsborough township	BEEKMAN LN	18101024	1.22	3.24	2.02	5	0	1	0	1	3	2.88
59	4	Somerset	Bedminster township	Burnt Mills Road	18000620	0.00	3.01	3.01	23	0	1	1	2	19	2.82

Monmouth County List

NJTPA RANK	COUNTY RANK	COUNTY	MUNICIPALITY	ROAD NAME	SRI	MILEPOST START	MILEPOST END	LENGTH
4	1	Monmouth	Walltownship	Belmar Boulevard	130000181_	1.41	2.46	1.05
6	1	Monmouth	Freehold township	Jackson Mill Road	13000023	0.00	1.45	1.45
15	4	Monmouth	Millstone township	Perrineville Road	13000001	1.57	3.23	1.66
26	8	Monmouth	Howell township	CASINO RD	13191012_	2.62	3.60	0.98
31	8	Monmouth	Roosevelt borough	South Rochdale Avenue	00000571	29.68	30.57	0.89
31	8	Monmouth	Howell township	ARNOLD BLVD	13191101	0.00	0.89	0.89
42	9	Monmouth	Upper Freehold township	Stage Coach Road	00000524	7.91	13.36	5.45
43	9	Monmouth	Freehold township	Ely Harmony Road	13321049	0.00	4.46	4.46
51	12	Monmouth	Upper Freehold township	Holmes Mill Road	13000027	1.37	4.67	3.30
56	12	Monmouth	Upper Freehold township	MEIRS RD	13511013	1.79	3.97	2.18
60	12	Monmouth	Millstone township	Millstone Road	13321017	0.00	5.57	5.57

ROAD NAME	SRI	TOTAL CRASHES	FATAL INJURY	INCAPACITATING INJURY	MODERATE INJURY	PAIN	PDO	Weighted Score/mile
Belmar Boulevard	130000181_	28	0	2	1	3	22	13.61
Jackson Mill Road	13000023	35	1	0	3	9	22	12.98
Perrineville Road	13000001	40	0	1	1	8	30	8.72
CASINO RD	13191012_	6	0	1	0	1	4	5.93
South Rochdale Avenue	00000571	4	1	0	0	0	3	5.40
ARNOLD BLVD	13191101_	4	0	1	0	0	3	5.40
Stage Coach Road	00000524	29	1	1	5	7	15	4.58
Ely Harmony Road	13321049	37	0	1	5	7	24	4.52
Holmes Mill Road	13000027	13	1	0	3	1	8	3.28
MEIRS RD	13511013	4	1	0	1	0	2	2.97
Millstone Road	13321017	39	1	0	4	3	31	2.60



Monmouth County List

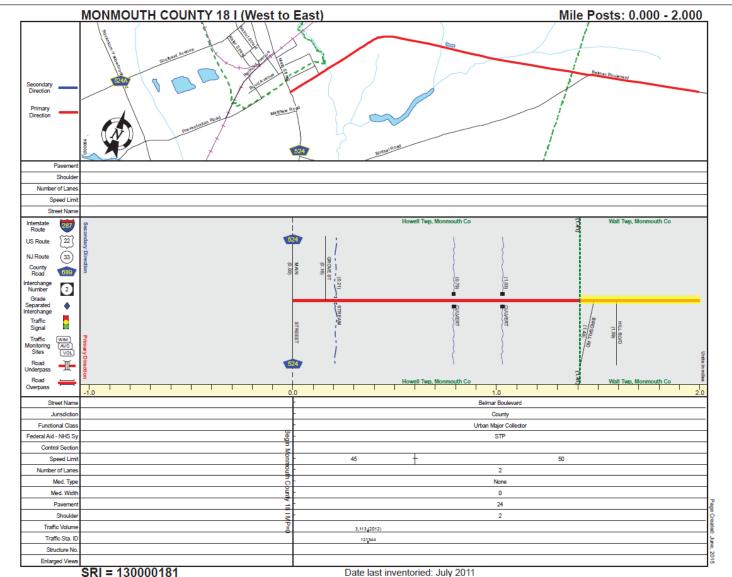
Lists are ranked assuming the weight of a fatal crash is the same as an incapacitating injury crash and using the value of a Complaint of Pain injury as the base value (K=A, no Property Damage only (PDO)).

\$	RUTGERS Conter for hilamond infentioning	HSM (FHWA-HRT-05-		shed 2005	Weighting Factors					
NJTPA	and Tempolation	2001 dollars		2012 dollars (KABCO)		KABCO Weight	K=A Weight	K=A No PDO Weight			
c	K Fatal	\$	4,008,900	\$ 5,197,200		89.30	4.81	2.73			
	ABC ALL INJURY	\$	82,600	\$	107,100			1			
	A Incapacitating	\$	216,000	\$	280,000	4.81	4.81	2.73			
	B Moderate	\$	79,000	\$	102,400	1.76	1.76	1.00			
	C Complaint of Pain	\$	44,900	\$	58,200	1.00	1.00	0.57			
	O PDO	\$	7,400	\$	9,600	0.16	0.16	0.00			

ROAD NAME	SRI	TOTAL CRASHES	FATAL INJURY	INCAPACITATING INJURY	MODERATE INJURY	PAIN	PDO	Weighted Score/mile
Belmar Boulevard	130000181_	28	0	2	1	3	22	13.61
Jackson Mill Road	13000023	35	1	0	3	9	22	12.98
Perrineville Road	13000001	40	0	1	1	8	30	8.72
CASINO RD	13191012	6	0	1	0	1	4	5.93
South Rochdale Avenue	00000571	4	1	0	0	0	3	5.40
ARNOLD BLVD	13191101	4	0	1	0	0	3	5.40
Stage Coach Road	00000524	29	1	1	5	7	15	4.58
Ely Harmony Road	13321049	37	0	1	5	7	24	4.52
Holmes Mill Road	13000027	13	1	0	3	1	8	3.28
MEIRS RD	13511013	4	1	0	1	0	2	2.97
Millstone Road	13321017	39	1	0	4	3	31	2.60

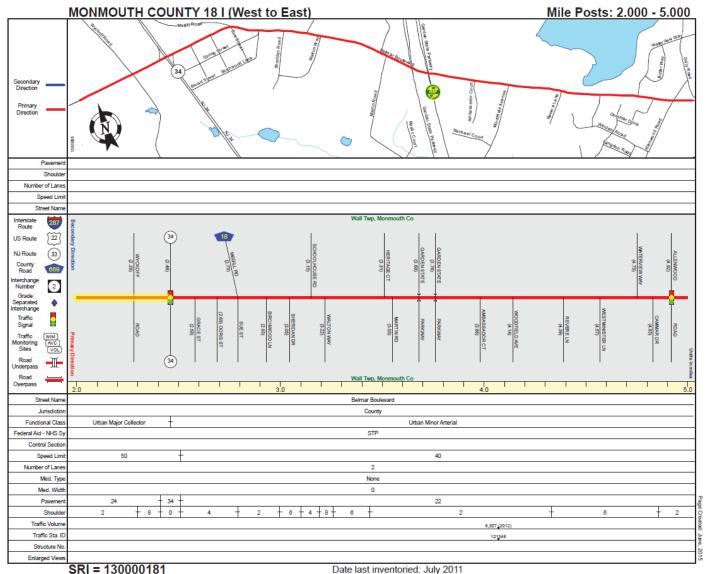


Identify location on straight line diagram



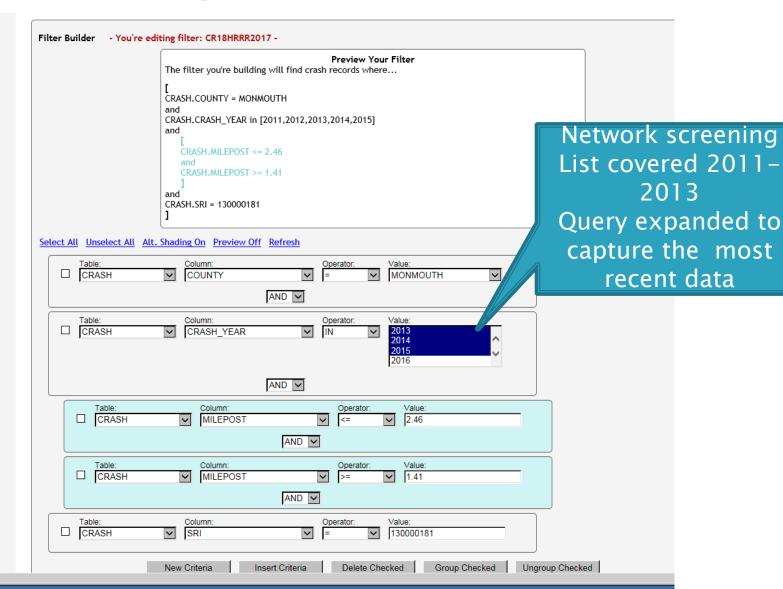


Identify location on straight line diagram



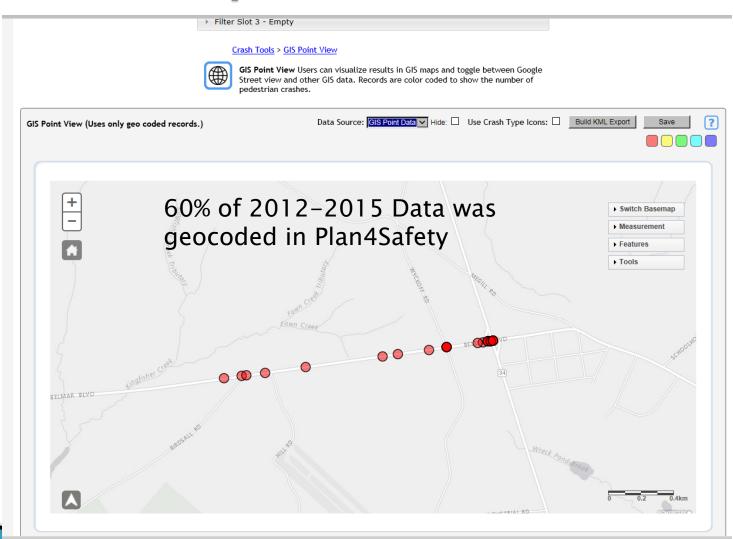


Plan4Safety Filter

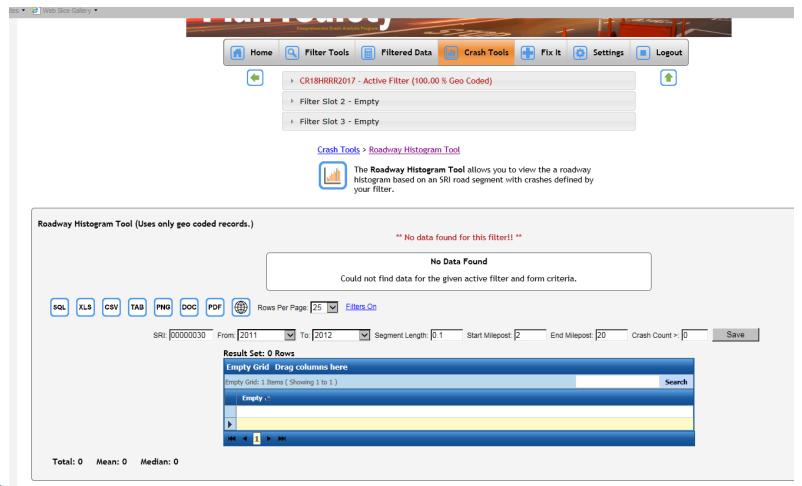




Plan4Safety GIS Point View

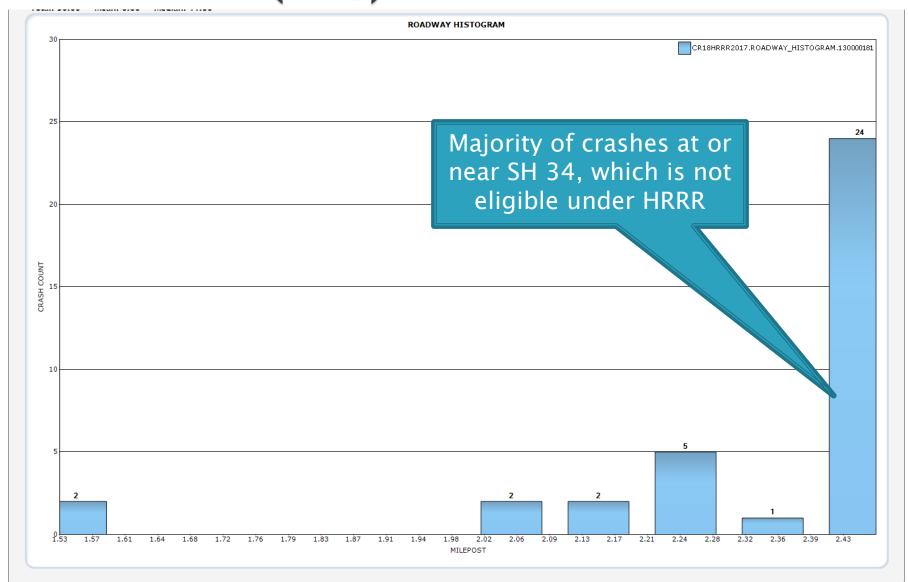


Use crash tools to create a road histogram (P4S)





Road Histogram reveals crash locations (P4S)

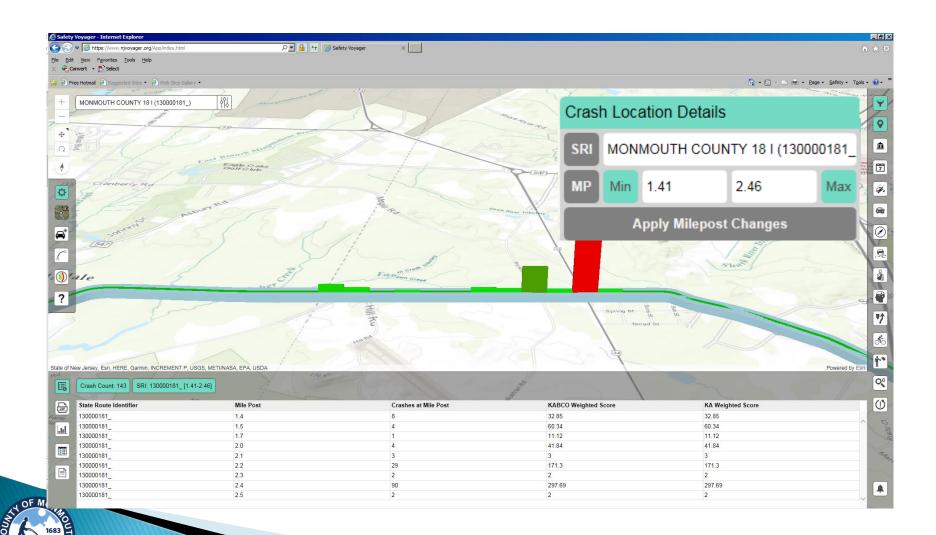


Safety Voyager

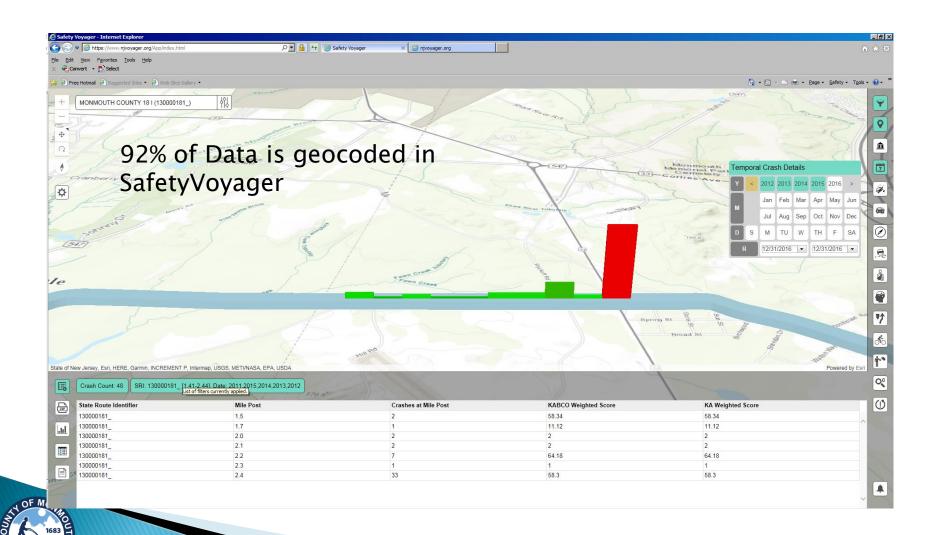
 Process using Safety Voyager is similar, but results are obtained faster



Crash SRI and Milepost



Filters are easy to find



Review remainder of screening list

- Iterative process
- Need to diagnose the problem before coming up with a solution

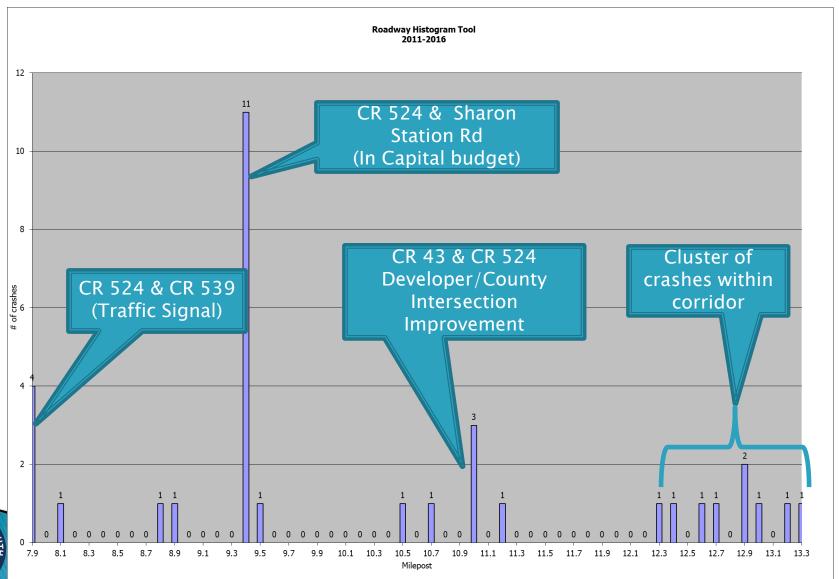


Review remainder of screening list

4	1	Monmouth	Wall township	Belmar Boulevard	130000181_	1.41	2.46	1.05
6	1	Monmouth	Freehold township	Jackson Mill Road	13000023	0.00	1.45	1.45
15	4	Monmouth	Millstone township	Perrineville Road	13000001	1.57	3.23	1.66
26	8	Monmouth	Howell township	CASINO RD	13191012	2.62	3.60	0.98
31	8	Monmouth	Roosevelt borough	South Rochdale Avenue	00000571	29.68	30.57	0.89
31	8	Monmouth	Howell township	ARNOLD BLVD	13191101	0.00	0.89	0.89
42	9	Monmouth	Upper Freehold township	Stage Coach Road	00000524	7.91	13.36	5.45
43	9	Monmouth	Freehold township	Ely Harmony Road	13321049	0.00	4.46	4.46
51	12	Monmouth	Upper Freehold township	Holmes Mill Road	13000027	1.37	4.67	3.30
56	12	Monmouth	Upper Freehold township	MEIRS RD	13511013	1.79	3.97	2.18
60	12	Monmouth	Millstone township	Millstone Road	13321017	0.00	5.57	5.57

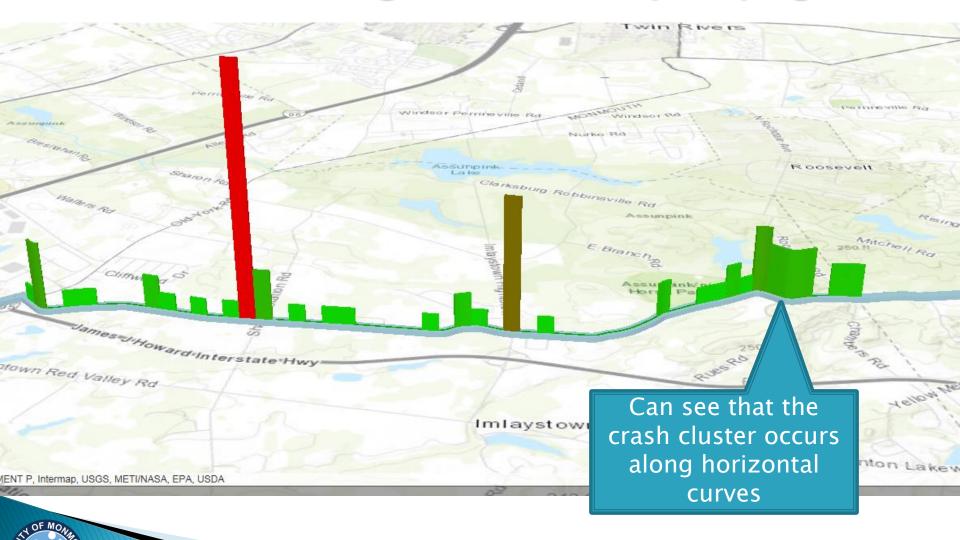
- Jackson Mills Rd corridor included several Developer-lead projects that were yet to be constructed
- Perrineville Rd-reviewed intersection of CR 1 & Millstone Rd for possible roundabout-Green Acres implications and ROW impacts would not qualify under HRRR
- Casino Rd, South Rochdale Ave, & Arnold Blvd had 3 to 4 crashes per corridor-Cost/Benefit would be low
- CR 524 (Stage Coach Rd)–Several "hot spots"
 - CR 524 & CR 539-Traffic Signal installed by Developer
 - CR 524 & Sharon Station Rd-Discussions with Upper Freehold for largescale project outside funding limits of HRRR
 - Several fixed object crashes in the corridor, especially along easterly portion (connects to segment previously approved by HRRR)

CR 524 Histogram (P4S)





CR 524 Histogram-SafetyVoyager





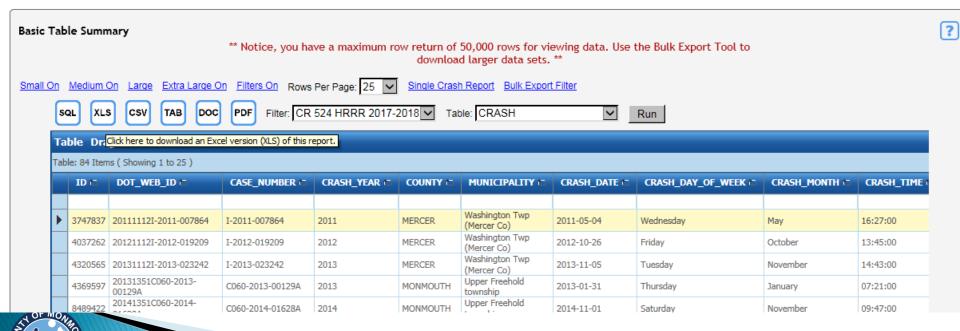


Plan4Safety

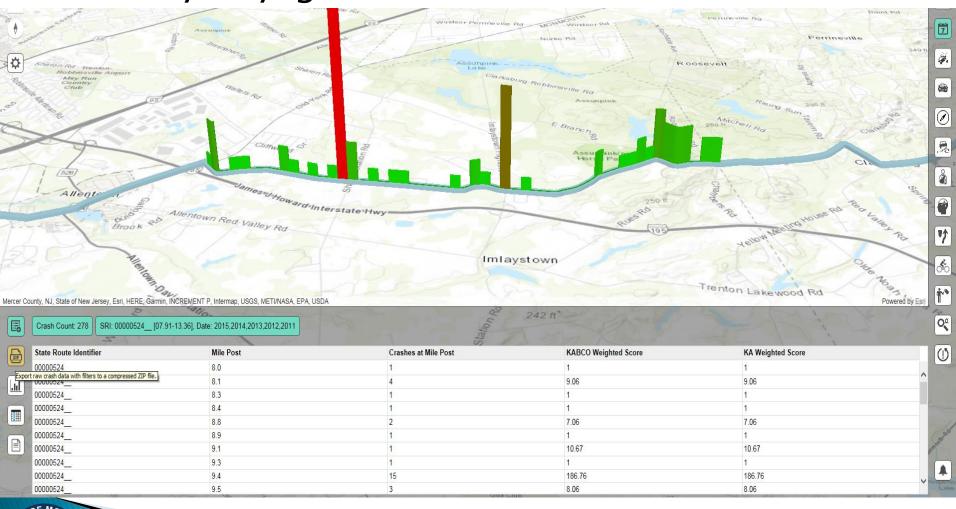
Filtered Data > Basic Table Summary



The **Basic Table Summary** page allows you to view data in the main crash tables defined by your filter.

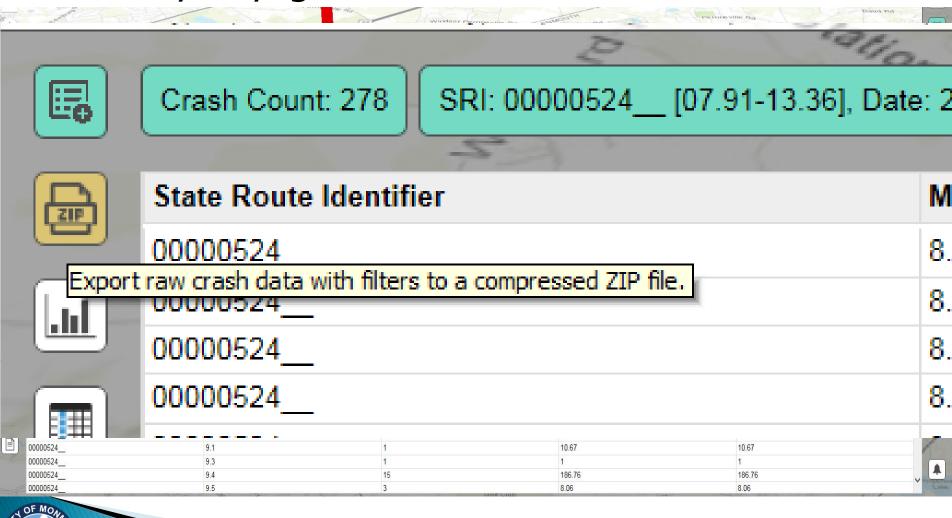


Safety Voyager

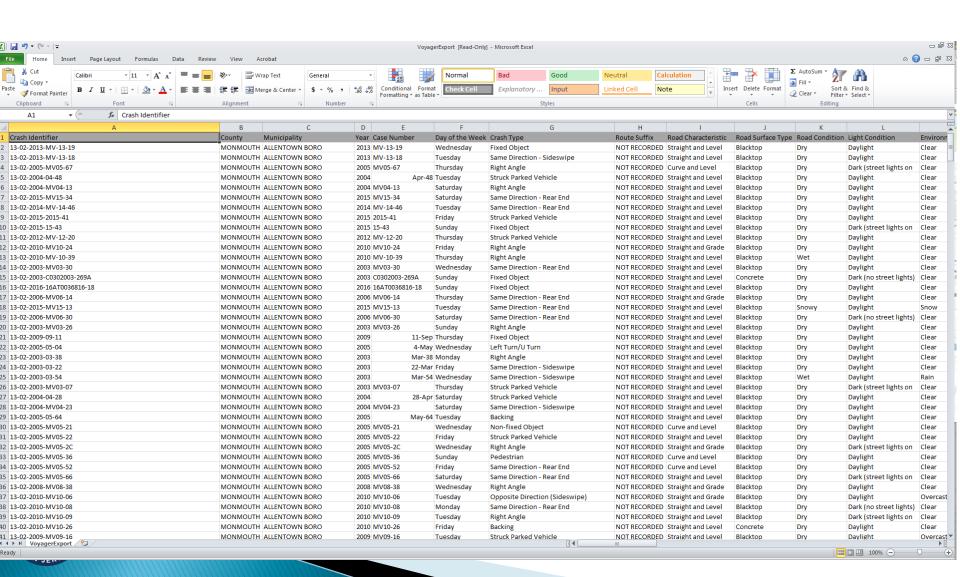




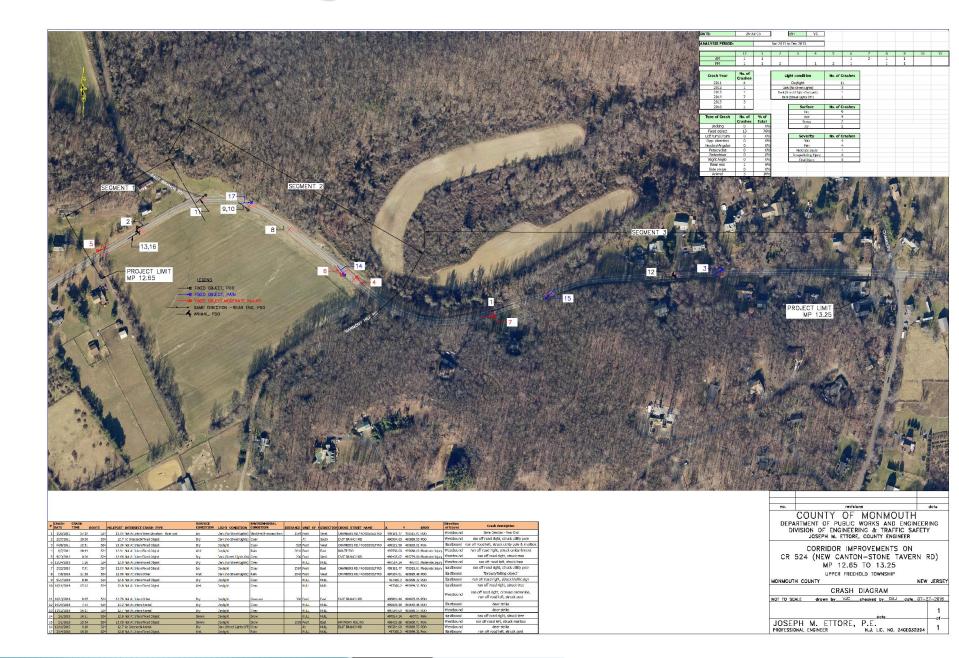
Safety Voyager



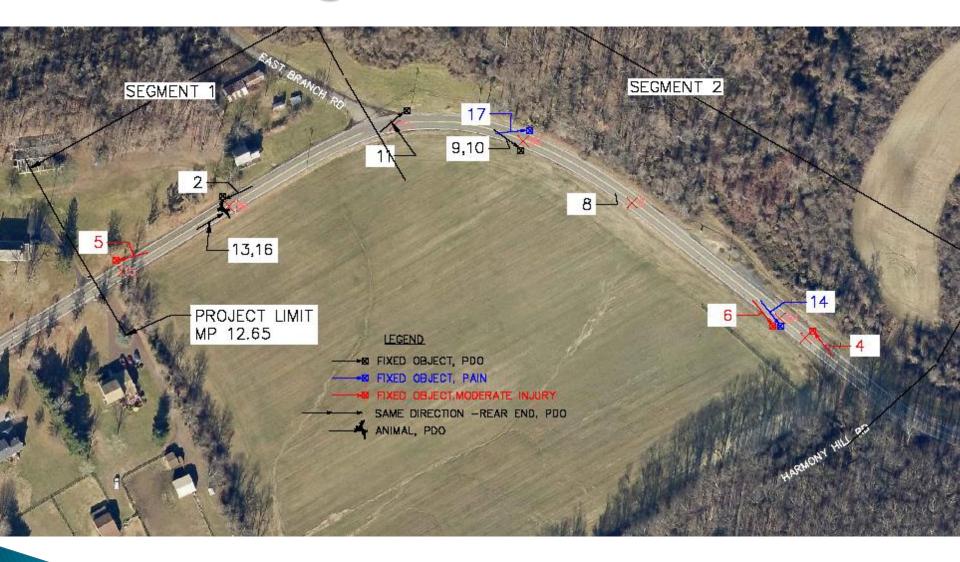
Safety Voyager



Crash Diagram/Crash table



Crash Diagram/Crash table





Crash Diagram/Crash Table

	CRASH DATE	CRASH TIME	ROUTE	MILEPOST	INTERSECT	CRASH_TYPE	SURFACE CONDITION	LIGHT_CONDITION	ENVIRONMENTAL CONDITION	DISTANCE_	UNIT_OF_	N DIRECTION	CROSS_STREET_NAME	x	Y	EPDO	Direction of travel	Crash description
1	1/26/2011	17:19	524	13.04	Not At Inter	Same Direction - Rear End	Icy	Dark (No Street Lights)	Sleet/Hail/Freezing Rain	1584	Foot	West	CHAMBERS RD / ROOSEVELT RD	498181.47	493515.81	PDO	Westbound	Same Direction - Rear End
2	2/27/2011	20:30	524	12.7	At Intersect	Fixed Object	Dry	Dark (No Street Lights)	Clear		At	South	EAST BRANCH RD	496584.63	493889.55	PDO	Westbound	ran off road right, struck utility pole
3	4/26/2011	12:51	524	13.24	Not At Inter	Fixed Object	Dry	Daylight	Clear	528	Foot	West	CHAMBERS RD / ROOSEVELT RD	499221.59	493693.02	Pain	Eastbound	ran off road left, struck utility pole & mailbox
4	8/7/2011	18:44	524	12.91	Not At Inter	Fixed Object	Wet	Daylight	Rain	2640	Foot	East	ROUTE 539	497556.03	493668.03	Moderate Injury	Westbound	ran off road right, struck embankment
5	9/23/2012	0:36	524	12.66	Not At Inter	Fixed Object	Dry	Dark (Street Lights On/	Clear	200	Foot	West	EAST BRANCH RD	496405.07	493779.66	Moderate Injury	Westbound	ran off road right, struck tree
6	12/24/2013	1:28	524	12.9	Not At Inter	Fixed Object	Dry	Dark (No Street Lights)	Clear		NULL	NULL		497514.24	493701	Moderate Injury	Westbound	ran off road left, struck tree
7	2/22/2014	7:41	524	13.04	Not At Inter	Fixed Object	Icy	Daylight	Clear	1584	Foot	East	CHAMBERS RD / ROOSEVELT RD	498181.47	493515.81	Moderate Injury	Eastbound	ran off road right, struck utility pole
8	7/8/2014	21:28	524	12.84	Not At Inter	Other	Wet	Dark (No Street Lights)	Rain	2640	Foot	West	CHAMBERS RD / ROOSEVELT RD	497264.01	493895.48	PDO	Eastbound	"thrown/falling object"
9	9/27/2014	8:48	524	12.8	Not At Inter	Fixed Object	Dry	Daylight	Clear		NULL	NULL		497080.2	493999.32	PDO	Eastbound	ran off road right, struck traffic sign
10	10/11/2014	17:03	524	12.8	Not At Inter	Fixed Object	Wet	Daylight	Clear		NULL	NULL		497080.2	493999.32	PDO	Eastbound	ran off road right, struck tree
11	10/13/2014	9:05	524	12.76	Not At Inter	Other	Dry	Daylight	Overcast	300	Foot	East	EAST BRANCH RD	496864.46	494025.66	PDO	Westbound	ran off road right, crossed centerline, ran off road left, struck post
12	10/24/2014	7:33	524	13.2	Not At Inter	Animal	Dry	Daylight	Clear		NULL	NULL		499008.49	493683.44	PDO	Eastbound	deer strike
13	11/12/2014	14:11	524	12.7	Not At Inter	Animal			Clear		NULL	NULL		496584.63	493889.55	PDO	Westbound	deer strike
14	3/1/2015	14:11	524	12.9	Not At Inter	Fixed Object	Snowy	Daylight	Snow		NULL	NULL		497514.24	493701	Pain	Eastbound	ran off road right, struck tree
15	3/1/2015		524	13.09	Not At Inter	Fixed Object			Snow	1056	Foot	East	HARMONY HILL RD	498433.68	493600.71	Pain	Westbound	ran off road left, struck mailbox
16	12/16/2015				At Intersect			Dark (Street Lights Off)	Clear		At	NULL	EAST BRANCH RD	496584.63			Westbound	deer strike
17	3/14/2016	16:06	524	12.8	Not At Inter	Fixed Object	Wet	Daylight	Rain		NULL	NULL		497080.2	493999.32	Pain	Eastbound	ran off road left, struck post



Crash Diagram/Crash Table

DATE:	26-J	ul-15		BY:	VC							
A NA LYSIS PERIOD:			Jan 2011	to Dec 2013								
	40		2	-		-		-		0	10	44
	12	1	2	3	4	5	6	7	8	9	10	11
AM	1	1					1	2	1	1		
PM	1	1	2		1	2	1		1	1		\perp
Crash Year	No. of Crashes		Li	Light condition		No. of (Crashes					
2011	4			Daylight	Daylight		.1					
2012	1			k (No Street L			3					
2013	1		Dark (S	treet Lights C	n/ spot)	1						
2014	7		Dark	(Street Light	s Off)		1					
2015	3											
2016	1			Sur	face	No. of (Crashes					
				D	ry	9						
Type of Crash	No. of	% of		V	/et	4						
	Crashes	Total		Sn	owy		2					
Backing	0	0%		I	су		2					
Fixed object	13	76%										
Left turn/U turn	0	0%		Sev	erity	No. of (Crashes					
Opp. direction	0	0%		PI	00		9					
Headon/Angular	0	0%		P	ain	-	4					
Petalcyclist	0	0%		Modera	te Injury		4					
Pedestrian	0	0%		Incapacitating Injury			0					
Right Angle	0	0%		Fatal Injury			0					
Rear end	1	6%										
Side swipe	0	0%										
& Animal	3	18%										
1683												

Countermeasures selected based on crash type

- High friction surface treatment (FHWA proven Safety Countermeasure)
- Centerline rumble strips (FHWA proven Safety Countermeasure)
- Safety Edge pavement edge treatment (FHWA proven Safety Countermeasure)
- 8" edge line marking
- Raised pavement markers on center line
- Additional signage for advanced guidance on roadway
- Sign upgrades based on advisory speed limits determined by ball banking
- Improve sign visibility by installation of retroreflective post covers
- Chevrons and/or other traffic control devices to provide further guidance through curves
- Brush clearing to improve line of sight
- Installation of breakaway roadside fixtures within clear zone



Crash Modification Factors



http://www.cmfclearinghouse.org/

CMF / CRF Details

CMF ID: 7900

Improve pavement friction (HFS-High Friction Surfacing)

Description: The safety benefit of High Friction Surfacing Treatment (HFS)

Prior Condition: Individual curve with perceived friction-related crash problem

Category: Roadway

Study: Evaluation of Pavement Safety Performance, Merritt et al., 2015

Star Quality Rating: ***** [View score details]

Crash	Crash Modification Factor (CMF)								
Value:	0.759								
Adjusted Standard Error:									
Unadjusted Standard Error:	0.067								



Crash Reduction Factor (CRF)

Value: 24.1 (This value indicates a **decrease** in crashes)

Crash Modification factors

	Crash modifcation factor							
Treatment		Total	Fatal/Injury					
	CMF#	CMF	CMF#	CMF				
High Friction Surface Treatment	7900	0.759	N/A	1				
Safety Edge	4303	0.923	4323	0.835				
Centerline Rumble Strip	3364	0.83	3368	0.63				
Combined CMF		0.581		0.526				
Predicted Crash Rate-Existing Conditions		2.343		0.846				
Predicted Crash Rate-Post-construction		1.362		0.445				

Cost/Benefit Analysis can be performed by comparing KABCO costs with and without modification factors vs estimated project cost (over the service life of the improvement)



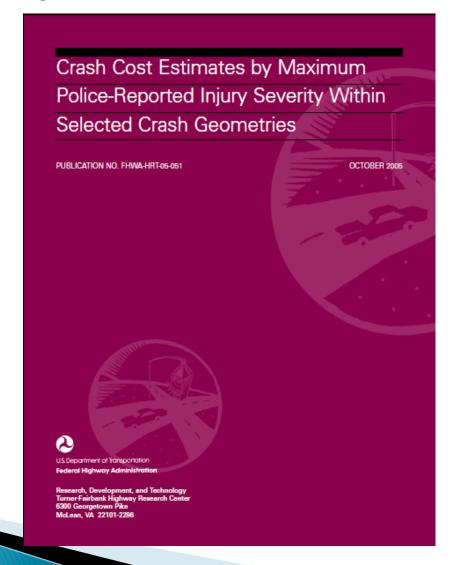
KABCO Costs

	lmim. C	overity.	Estim	ated Cost		
	injury 5	y Severity 2001*		2016/17		
	Fatal	(K)	\$4,008,900	\$5,447,373.00		
Fatal	and/or Injury	(K/A/B/C)	\$158,200	\$214,965.30		
	Injury	(A/B/C)	\$82,600	\$112,238.52		
"Incapacitating"> Di	isability Injury	(A)	\$216,000	\$293,505.09		
"Moderate">	Evident Injury	(B)	\$79,000	\$107,346.77		
"Complaint of Pain" > F	Possible Injury	(C)	\$44,900	\$61,011.01		
Property	Damage Only	(O)	\$7,400	\$10,055.27		
*	Societal Crash	Costs by Sev	erity, FHWA-H	HRT-05-051, Octob	er 20	<i>205</i>



KABCO Costs

https://www.fhwa.dot.gov/publications/research/safety/05051/05051.pdf



Concept Plan







COUNTY OF MONMOUTH
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
DIVISION OF ENGINEERING & TRAFFIC SAFETY
JOSEPH M. ETTORE, COUNTY ENGINEER

CORRIDOR IMPROVEMENTS ON CR 524 (STAGE COACH ROAD) MP 12.65 TO 13.25 UPPER FREEHOLD TOWNSHIP

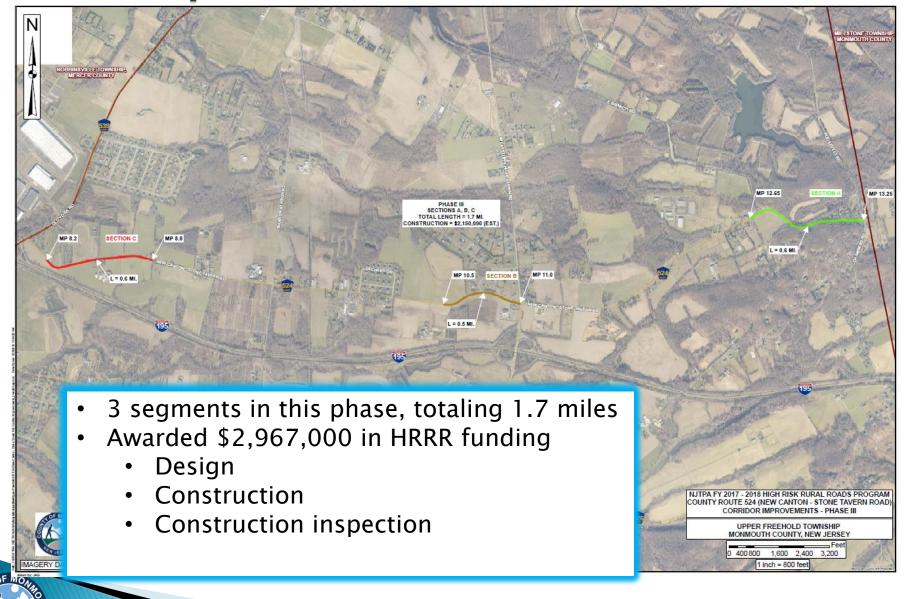
MONMOUTH COUNTY CONCEPTUAL IMPROVEMENT PLAN

NOT TO SCALE drawn by SK checked by KJN date 0

JOSEPH M. ETTORE, P.E.
PROFESSIONAL ENGINEER N.J. LIC. NO. 24GE032394



Concept Plan



Summary

- Follow the guidelines for the funding solicitations
- Develop a process for selecting potential projects
 - Start with "high level" data (i.e. network screening lists)
 - Narrow down to a specific corridor or location
 - Identify crash patterns & develop a problem statement
 - Identify potential countermeasures
 - Evaluate the potential effect of countermeasures (i.e. use CMF)
- Effective understanding and presentation of data will help the people that make the decisions.



Thank You

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