CORR	ESPONE	DENCE/MEMORANDUM		State of Wisconsin
Date:	Novem	ber 13 th , 2019		
То:	Brian P	orter, State Traffic Safety Engineer		
From:		yom, Traffic Safety Engineer rest Region – La Crosse office		
Subjec	ot:	SAFETY CERTIFICATION DOCUMENT Project I.D. 1640-03-03 USH 14 Richland Center – Spring Green Bohman Drive to CTH O	Γ	
docum		cts the intent of the policy and guidelines		nd any proposed improvements, we believe this a section 11-38 of the Wisconsin Facilities
Concu	rrence:			
Bureau	of Traffi	vements modeled c Operations ring and Safety Section	Date	
Approv	⁄al:			
Brad B	yom, Tra	offic Safety Engineer	12-4-2019	
Region	Plannin	g Chief	Date	

SAFETY CERTIFICATION DOCUMENT

Total Cost B/C

Α	nalyst: Brad Byom gency: WisDOT ate of Analysis: 11-13-2014	Highv Proje CTH (O)	03(73) nd Center – Sprii pt Code: RSRF2	•	hman Drive to
1.	Did the project have Sites of Promi	ise from the	e system scree	ning?	Yes □	No ⊠
	Comments: No intersection flags afte	r crash cour	nts verified. No	segment flags.		
2.	Did relevant crashes remain after t	he initial C	rash Vetting Pr	ocess?	Yes □	No ⊠
	Comments:					
3.	Were possible safety mitigation alt	ernatives id	dentified in the	CGA Process?	Yes □	No ⊠
	Comments:					
4.	Were safety mitigation alternatives	analyzed i	n this project?		Yes □	No ⊠
	4.1. Provide narrative of existing g crashes.	jeometric c	onditions and a	any geometric fe	atures that co	ontributed to the
	4.2. Provide narrative of crash hist	tory and cra	ash trends that	were targeted in	SMCP	
	4.3. Provide narrative of safety mit	tigation alte	ernatives analyz	zed in SMCP		
	4.4. Analysis Results					
	The table below summarizes the	safety perf	ormance, cost, a	and benefit-cost ra	atio for the tota	al project.
	Total Project Analysis	Base	Alt. A	Alt. B	Alt. C	Add columns
	Name					
	Analysis Method					
	Fatal & Injury					
	Property Damage					

4.5. Provide narrative of reasonable and acc	eptable safety mitigation alternatives for consideration
in the project improvement process.	

There are concrete median islands on USH 14, at Starlight Drive and Peebles Drive, in the 5-lane TWLTL section, that serve no purpose for access restrictions, and they create a negative offset for opposing left turners on USH 14. These islands have generated at least 4 single-vehicle crashes. They are likely contributing to some of the left-out crashes by prohibiting a 2-stage entry into traffic (preventing the utilization of the TWLTL as merge lane). Removal of these islands was recommended. This will produce a full TWLTL with neutral offsets for any opposing left turners. This will also provide a wider refuge for the left turners because the existing left turn lanes are around 8', which is substandard.

Safety Certification Worksheet

Analyst: BYOM, BRADLEY S Design ID: 1640-03-03

Agency: WISDOT Highway: US 14 EB

Date of Analysis: 2019-11-27 Project Title: RICHLAND CENTER - SPRING GREEN

Meta Manager Version: 2019-10 Project Description: BOHMANN DRIVE TO CTH O

Meta Manager Crash Years: 2014-2018 Worksheet ID: 10143

		System S	Screening -	Sites of P	romise		Crash Vetting - Sites of Promise	Contributing Ge	ometric Analysis					
		S	ee FDM 11-38-10.	.2 for guidance			See FDM 11-38-10.3 for guidance	See FDM 11-38-10.4 for guidance						
Segments:	Segments: Meta-Manager													
PDP ID	PDP ID From RP RP Description To RP				Crash Rate Flag (RATEFLAG) (Insert value if ≥ 1.0)	KAB Crash Rate Flag (MMGR_KAB_CRSH_RT) (Insert value if ≥ 1.00)		Which geometric features contribute to the type and severity of the crashes? Possible Countermeasures for Safety Mitigation Process						
2797	014E124P029		014E125J000	0.11			no flags		NONE					
2798	014E125J000		014E125M044	0.45			no flags		NONE					
2799	014E125M044	SEXTONVILLE RD	014E125M067	0.23			no flags		NONE					
2800	014E125M067	BOHMANN ST	014E127T000	0.43			no flags		NONE					
2801	014E127T000	FOUNDRY DR	014E128G000	0.56			no flags		NONE					
2802	014E128G000	STARLITE DR	014E129D000	0.53			no flags		NONE					

Intersection Network Screening

	Updated: 9/5	5/2019																															
							SPF										Results g																
	Base	Base Intersection Information														Network Screening		TOTAL Crashes (values are for entire analysis period)			KABC Crashes (values are for entire analysis period)			Results Add. Ca									
vetted comments	INT_ID	IX_NAME	Region	County	Map Link	Area Type	Ramp Terminal	Number of Legs	Control Type	Median Type	Number of Lanes	Major AADT	Minor AADT	Inside Ramp AADT		Off Ramp C	n Ramp N	umber of T Ramps A	otal Y	Years of Cr rash Data	ash Data Range	Flagged Location	Observe (TOTAL)	ed Predicted	d Expected	LOSS (TOTAL)	PSI (TOTAL)	Observed (KABC)	Predicted (KABC)	Expected (KABC)	LOSS (KABC)	PSI (KABC)	
NO FLAGS AFTER CRASH COUNT CORRECTION.	IX_52_01547 US	H 14 & CTH O	SW	Richland https://maps.google	e.com/?q=43.315263,-90.350605	URBAN	FALSE	3	SIGNAL	RAISED	2	14852	1590	0	0	0	0	0 1	6442	5 20	14 - 2018 1	2 2 No	12	16.69	12.71	LOSS 2	-3.98	2	4.92	2.98	LOSS 2	-1.94 4	5 6
NO FLAGS AFTER CRASH COUNT CORRECTION.	IX_52_01557 US	H 14 & Starlight Dr	SW	Richland https://maps.google	e.com/?q=43.318056,-90.360512	URBAN	FALSE	3	TWSC	RAISED	2	14852	142	0	0	0	0	0 1	14994	5 20	14 - 2018 1	2 2 No	6	3.39	5.14	LOSS 3	1.74	2	0.86	1.28	LOSS 3	0.42 4	5 6
NO FLAGS AFTER CRASH COUNT CORRECTION.	IX_52_01567 US	H 14 & Foundry Dr E	SW	Richland https://maps.google	e.com/?q=43.320057,-90.371075	URBAN	FALSE	3	TWSC	RAISED	2	15262	449	0	0	0	0	0 1	5711	5 20	14 - 2018 1	2 2 No	5	4.85	4.96	LOSS 3	0.11	1	1.32	1.17	LOSS 2	-0.15 4	5 6
NO FLAGS AFTER CRASH COUNT CORRECTION.	IX_52_01571 US	H 14 & Peebles Ave	SW	Richland https://maps.google	e.com/?q=43.320238,-90.372085	URBAN	FALSE	3	TWSC	RAISED	2	15262	865	0	0	0	0	0 1				2 2 No	8			LOSS 3		2	1.65	1.84	LOSS 3	0.18 4	5 6
NO FLAGS AFTER CRASH COUNT CORRECTION.	IX_52_01594 US	H 14 & Bohmann Dr	SW	Richland https://maps.google	e.com/?q=43.322305,-90.378858	URBAN	FALSE	3	SIGNAL	RAISED	2	15262	2393	0	0	0	0	0 1	7655	5 20	14 - 2018 1	2 2 No	18	17.79	17.97	LOSS 3	0.18	3	5.20	3.71	LOSS 2	-1.49 4	5 6

SCM ID - 10143 Version - Current 2019-11-27 15:22:06.317

Safety Certification Mapping (SCM) Tool

Design ID Construction ID(s)

1640-03-03

Project Title Project Description

RICHLAND CENTER - SPRING GREEN BOHMANN DRIVE TO CTH O

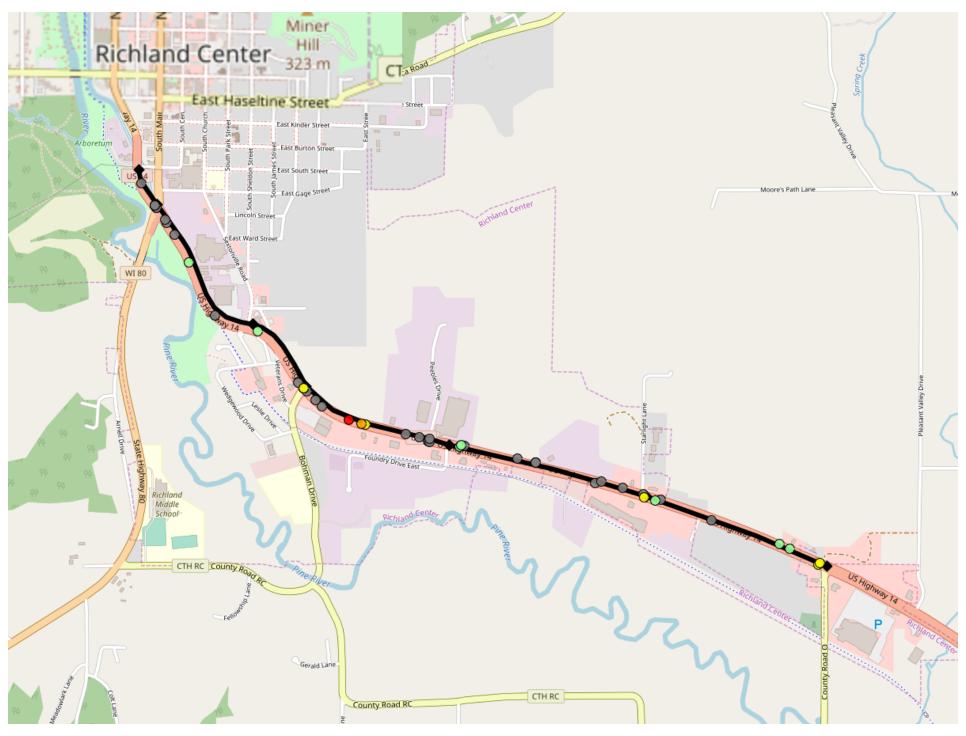
SCM Comment

Meta Manager Version: 2019-10 Meta Manager Crash Years: 2014-2018 SCM Crash Years: 2014-2018

Sites of Promise

Corridor # Highway Start County End County Start RP End RP
1 US 14 EB RICHLAND RICHLAND 014E124P029 014E129D000

SCM ID - 10143 Version - Current 2019-11-27 15:22:06.317



Corridor # 1: US 14 EB - 014E124P029 - 014E129D000

Meta Manager Version: 2019-10 Crash Years: 2014-2018								SCM Crash Years: 2014-2018						
PDP ID	Crash	KAB	Int Crash	Int KAB	ŀ	ζ	A	В	С	O	TOTAL			
2797										3	3			
2798									1	6	7			
2799									1	1	2			
2800					1		1	2		11	15			
2801									2	7	9			
2802								3	3	3	9			
TOTAL					1		1	5	7	31				

Manner of Collision

PDP ID	NO COLLISION	REAR END	SS OPP	SS SAME	OTHER	TOTAL
2797	1	1			1	3
2798	1		1	4	1	7
2799		1	1			2
2800	3	2	1	2	7	15
2801		2		2	5	9
2802	3	2		1	3	9

CORRIDOR	CUMULMI	PDPID :	SEGLIST	DOCTNMB A	CCDDATE	NTFYHOUF REGION	COUNTY	MUNICIPA MUI	NITYPE ONHWYRP ONHWYDII ONHWY	ONSTR	ATHWY	ATSTR	ATNMBR	INTDIR	INTDIS	ACCDTYPE
1	69.39	2797		LR7WT04	1/26/2015	14 SW	RICHLAND	RICHLAND C	14 E	14 S ORANGE	8	0 S MAIN ST		W		9 TFSIGN
1	69.47	2797		LR7VBFF	10/15/2014	15 SW	RICHLAND	RICHLAND C	14 E	14 S ORANGE	8	0 S MAIN ST		W		1
1	69.47	2797		LR7WT0F	4/9/2015	14 SW	RICHLAND	RICHLAND C	14 E	14	8	0		W		1
1	69.48	2798		LRKRCJL	12/23/2015	21 SW	RICHLAND	RICHLAND C	14 E	14	8	0				0
1	69.49	2798		LR7WT06	3/1/2015	18 SW	RICHLAND	RICHLAND C	14 E	14	8	0				0
1	69.53	2798		LR7WT0D	4/3/2015	14 SW	RICHLAND	RICHLAND C	14 E	14	8	0		Е		4
1	69.54			LRKPW5Z	12/13/2016	21 SW	RICHLAND	RICHLAND C	14 E	14	8	0 S MAIN ST		S		9
1	69.58			LR7VBFG	10/17/2014	15 SW		RICHLAND C		14	8	0 S MAIN ST		Е		9
1	69.65			CHLOJKHW	2/28/2017	16 SW		RICHLAND C		14		CONNECT		TS		3 LTPOLE
1	69.83			LRKPW2R	6/10/2015	8 SW		RICHLAND C		14		SEXTONVI		N	1	
1	69.96			LRKPW5L	10/16/2016	12 SW		RICHLAND C		14 WB		SEXTONVI		E		3
1	70.14			CHL0JH1TL	12/1/2017	15 SW		RICHLAND C		14		BOHMAN		N		2
1	70.16			LRF99CB	6/3/2014	15 SW		RICHLAND C		14		BOHMANI				0
1	70.16			LRKQM9N	2/2/2015	18 SW		RICHLAND C		14		BOHMANI				0 OTH NC
1	70.16			LRKQMWB	3/17/2016	16 SW		RICHLAND C		14		BOHMAN	\			0
1	70.16			LR7WSXW	4/25/2014	12 SW		RICHLAND C	14 E	BOHMANI	۱ 1			S		1
1	70.17			LRKRCKN	10/5/2016	14 SW		RICHLAND C		14 EB		BOHMAN		S		1
1	70.2			MB6M99J	7/16/2015	13 SW		RICHLAND C		14		BOHMAN		S _		4
1	70.23			D5L0T5JNC	7/25/2017	11 SW		RICHLAND C		14		BOHMANI		E		7
1	70.3			MB41J8X	3/15/2014	5 SW		RICHLAND C		14		BOHMAN		E		4 PED
1	70.34			MB40S7F	5/22/2014	20 SW		RICHLAND C		14		PEEBLES A		W	2	
1	70.35			C5PH77X	8/29/2014	22 SW		RICHLAND C		14		PEEBLES A	.1	W	1	
1	70.47			MB6GV5D	9/15/2016	18 SW		RICHLAND C		14 EB		FOUNDRY		W		2 TESIGN
1	70.51			MB41JBP	10/12/2014	7 SW		RICHLAND T		14		PEBBLES D		W		3 TFSIGN
1	70.54			D5L0SPZ7S	2/24/2017	21 SW		RICHLAND C		14		PEEBLES A		VA /		U -
1	70.54 70.54			D5L0SPZ8C	7/13/2018	19 SW		RICHLAND C		14 14		FOUNDRY		W		0
1	70.54			MB6RQMJ D5L0T6RP4	3/3/2016	11 SW 12 SW		RICHLAND C RICHLAND C		14 14		PEEBLES A PEEBLES A		E		9
1	70.63			MB7W2M(12/14/2017 8/22/2015	22 SW		RICHLAND C		14 14		PEEBLES A				9
1	70.63			MB6HLBW	3/23/2016			RICHLAND C		14 14		PEEBLES A		F		0
1	70.04			MB6GV2J	12/31/2015	9 SW		RICHLAND T		14		PEEBLES A		E	2	·
1	70.73			MB41J90	4/7/2014	10 SW		RICHLAND T		14		FOUNDRY		F	2	
1	70.84			MB6HLDD	8/10/2016	15 SW		RICHLAND T		14 EB		FOUNDRY		F	2	
1	70.84			D5L0SR692	3/17/2018	14 SW		RICHLAND C		14 25		FOUNDRY		E	4	
1	71.03			MB6GV26	12/7/2015	15 SW		RICHLAND T		14		STARLIGH		W	1	
1	71.09			LRCS3R2	4/19/2014	9 SW		RICHLAND C		14		STARLIGHT		W		6
1	71.15			D5L0SR682	7/14/2017	15 SW		RICHLAND T		14		STARLIGH				0 OBNFX
1	71.15			MB6R0DT	2/16/2016	9 SW		RICHLAND C		14		STARLIGH [*]				0
1	71.18			CHLOJKHW	6/13/2018	10 SW		RICHLAND C		14	0	01711121011		W		0 GR FAC
1	71.2			MB5H73F	6/13/2014	14 SW		RICHLAND C		14		STARLIGH	ī	E		5 CURB
1	71.34			D5L0SZCGI	2/4/2017	23 SW		RICHLAND T		14		CTH O		W		4
1	71.54			MB6N1J2	8/28/2015	12 SW		RICHLAND T		14	0			N		4
1	71.57			MB6M99F	7/2/2015	21 SW		RICHLAND T		14	0			N		1
1	71.66			D5L0SR682	8/7/2017	14 SW		RICHLAND T		14	0			W		2
1	71.66			MB40S72	4/19/2014	15 SW		RICHLAND T		14	0			W		2

MNRCOL	L RLTNRI	DM, ACCDFOC	HWYCL	ASS TRFCWAY	ROADCO	ONIWTHRO	ON LGTCON	D ROAD	HOR ROAD	VERT ACCDSVR	INJSVR	INJTRNS	TOTFATL TOTINJ	CONSZONEALCFLAG BIKEFLAG CYCLFLAG PEDFLAG TOTVEH VEH	HTYPE1
NO	ON	N	R STH	D/B	SNOW	SNOW				PD			0	0 1 CAN	R
ANGL	ON	N	R STH	D/B		CLDY				PD			0	0 2 CAI	R
REAR	ON	1	R STH	D/B	WET	CLDY				PD			0	0 2 CAI	R
SSOP	ON	1	R STH	D/B	WET	RAIN	LIGT			PD			0	0 2 CAI	R
ANGL	ON	1	R STH	ND		CLR	LIGT			PD			0	0 2 CAI	R
SSS	ON	N	R STH	D/B		CLR				PD			0	0 2 CAI	R
SSS	ON	N	R STH	D/B		CLR	LIGT			PD			0	0 2 TRK	K UT
SSS	ON	N	R STH	D/B		CLDY				PD			0	0 2 CAI	R
NO	MED	N	R STH	D/WO	WET	FOG	DUSK	С		INJ	С		0	1 1 CAF	R
SSS	ON	N	R STH	D/B		CLR		С		PD			0	0 2 TRK	K UT
SSOP	ON	N	R STH	D/WO		CLDY		С		INJ	С		0	1 2 CAF	R
REAR	ON	1	R STH	D/WO		CLR			Н	PD			0	0 2 CAF	R
ANGL	ON	1	R STH	D/B		CLDY			Н	INJ	В	Υ	0	1 2 TRK	K ST
NO	ON	1	R STH	D/B	SNOW	CLDY	LIGT			PD			0	0 1 CAF	R
ANGL	ON	1	R STH	D/B		CLR				PD			0	0 2 CAF	R
REAR	ON	1	R CITY	D/WO		CLR		С	Н	PD			0	0 2 CAF	R
SSS	ON	N	R STH	D/WO		CLDY				PD			0	0 2 TRK	K UT
ANGL	ON	N	R STH	D/WO		CLDY			Н	PD			0	0 2 CAF	R
SSS	ON	N	R STH	D/WO		CLDY				PD			0	0 2 CAF	R
NO	ON	N	R STH	D/WO		CLR	DARK	С		FAT	K		1	0 Y Y 1 TRK	K ST
ANGL	ON	N	R STH	D/WO		CLR				INJ	Α	Υ	0	2 2 CAF	R
ANGL	ON	N	R STH	D/WO	WET	RAIN	DARK			INJ	В	Υ	0	3 2 CAF	R
ANGL	ON	N	R STH	D/WO		CLR				PD			0	0 2 TRK	K UT
NO	MED	N	R STH	D/WO		CLR	DAWN			PD			0	0 1 CAF	R
ANGL	ON	T.	R STH	D/B	SNOW	SNOW	LIGT			PD			0	0 2 TRK	K UT
REAR	ON	N	R STH	D/WO	WET	RAIN	DUSK			PD			0	0 2 TRK	K UT
SSOP	ON	T .	R STH	D/WO		CLDY				PD			0	0 2 CAI	R
SSS	ON	N	R STH	ND		CLR				INJ	С		0	2 2 CAI	
REAR	ON	N	R STH	D/WO		CLR	LIGT			INJ	С		0	1 Y 2 CAF	
ANGL	ON	N	R STH	D/WO	WET	SLET				PD			0	0 2 CAF	
ANGL	ON	N	R STH	D/WO		CLR				PD			0	0 2 CAF	
REAR	ON	N	R STH	D/WO	WET	RAIN				PD			0	0 2 CAI	
SSS	ON	N	R STH	D/WO		CLR				PD			0	0 2 CAF	
ANGL	ON	T.	R STH	D/WO		CLR				PD			0	0 2 CAF	
ANGL	ON	N	R STH	D/WO		CLDY				PD			0	0 2 CAF	
ANGL	ON	N	R STH	D/WO		CLR				PD			0	O 2 TRI	
NO	ON	l	R STH	D/WO		CLR				INJ	В		0	1 Y 1 TRK	
ANGL	ON		R STH	ND	WET	CLDY				PD			0	0 3 CAI	
NO	SHLD	N	R STH	D/WO		CLR			Н	INJ	С	Υ	0	2 5 CAI	
NO	ON	N	R STH	D/B		CLR	2,2			PD			0	0 1 CAI	
SSS	ON	N	R STH	D/B		CLR	DARK		Н	PD			0	0 2 TRK	
REAR	ON	N	R STH	D/WO		CLR	D. / D. /			INJ	С	V	0	1 2 CAI	
REAR	ON	N	R STH	D/WO		CLR	DARK			INJ	С	Y	0	1 2 CAI	
ANGL	ON	N	R STH	D/WO		CLR				INJ	В	Υ	0	1 2 CAF	
ANGL	ON	N	R STH	ND		CLR				INJ	В		0	1 Y 1 CAI	K